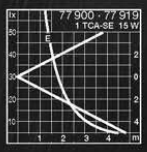
Floodlights for LED lamps and fluorescent lamps with screw base E27

A group of floodlights for permanent and portable installation. These floodlights are ideal for use with LED lamps and fluorescent lamps with integrated electronic ballast.
The long service life and the high luminous efficiency of the lamps guarantee maintenance-friendly and cost-effective operation of these floodlights. Their operation without tools and the many different possible uses make them practical illumination devices around the house and in the garden.
These floodlights are made of glass fibre reinforced polyamide and have protective insulation. They are only intended for operation with the LED lamps and fluorescent lamps shown here.
They must not be operated with conventional light bulbs!
All technical data are given in the instructions for use for these luminaires.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



TCA-SE TC-TSE TC-HSE TC-DSE LED lamps


Mounting box


Earth spike

Floodlights optionally with
• **Mounting box**
• **Earth spike**
for LED lamps and fluorescent lamps
with screw base E27 and electronic ballast

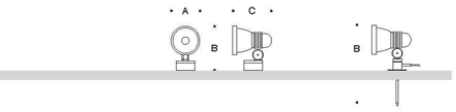
The following lamps can be used:
• TCA-SE
• TC-TSE
• TC-HSE
• TC-DSE
• LED lamps

Protection class IP 65 · Safety class II
Glass fibre reinforced polyamide
Safety glass · Reflector made of pure anodised aluminium
The burning position can be adjusted and the lamps replaced without tools.

Floodlights with mounting box Ø 90 mm with connection terminals 2.5□

Floodlights with earth spike
ready for connection with 5 m cable and mains plug

Luminaire colour graphite



Mounting box

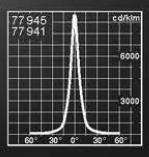
	Lamp		Base	EEC	A	B	C
77 900	1 TCA-SE · TC-TSE · TC-HSE · TC-DSE	7-15 W	E27	A++-B	150	215	205
	1 LED lamp	8 W	E27				

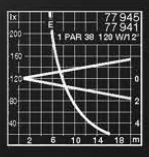
Earth spike

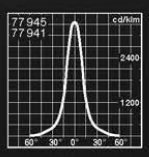
	Lamp		Base	EEC	A	B	C
77 919	1 TCA-SE · TC-TSE · TC-HSE · TC-DSE	7-15 W	E27	A++-B	150	420	205
	1 LED lamp	8 W	E27				

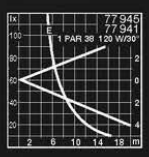
Floodlights for PAR 38 reflector lamps
Safety class II

Floodlights for permanent or portable use on a building or in the garden. Compact devices made of glass fibre reinforced polyamide in safety class II. Reflector lamps are available with the light outputs 60 · 80 · 120 watts, also in various colours and with the half beam angles “Spot” (very narrow beam) or “Flood” (wide beam).
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.










Mounting box


Earth spike


Double floodlights

Floodlights optionally with
- **Mounting box**
- **Earth spike**

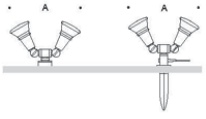
for PAR 38 reflector lamps

Protection class IP 65 · Safety class II
Glass fibre reinforced polyamide
The burning position can be adjusted and the lamps replaced without tools.

Floodlights with mounting box Ø 90 mm with connection terminals 2.5□

Floodlights with earth spike
ready for connection with 5 m cable and mains plug

Luminaire colour graphite



Floodlights

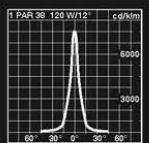
		Lamp		Base	EEC	A	B
77 945	With mounting box	1 PAR 38	120 W	E 27	A++-E	120	280
77 941	With earth spike	1 PAR 38	120 W	E 27	A++-E	120	490

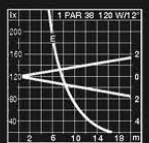
Double floodlights

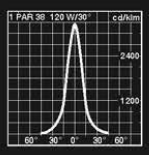
		Lamp		Base	EEC	A	B
77 944	With mounting box	2 PAR 38	120 W	E 27	A++-E	255	280
77 942	With earth spike	2 PAR 38	120 W	E 27	A++-E	255	490

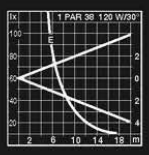
Floodlights for PAR 38 reflector lamps

Floodlights for permanent or portable use on a building or in the garden. Compact units made of die-cast aluminium.
Reflector lamps are available with the light outputs 60 · 80 · 120 watts, also in various colours and with the half beam angles “Spot” (very narrow beam) or “Flood” (wide beam).
In architecture and garden design, many lighting situations require a special mounting solution. For these varying requirements, we can supply this series with different mounting options.
Floodlights with connecting thread G ½ can be bolted to threaded holes provided by the customer in accordance with ISO 228 or to BEGA accessories. For the technical data of accessories, see Pages 532 and 533.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.










Mounting box


Earth spike


Connecting thread G½

Floodlights optionally with
- **Mounting box**
- **Earth spike**
- **Connecting thread G½**

for PAR 38 reflector lamps

Protection class IP 55
Cast aluminium and stainless steel · Ring louvres made of anodised aluminium
Earth spike made of glass fibre reinforced polyamide

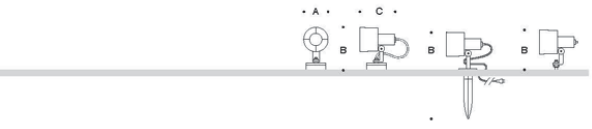
Floodlights with mounting box Ø110 mm with connection terminals 2.5□

Floodlights with earth spike ready for connection with 5 m cable and mains plug

Floodlight with G½ connecting thread · ISO 228 and 1 m connecting cable 3 x 0.75□

Floodlights with connecting thread G½ · ISO 228 can be
bolted to matching threaded holes provided by the customer or
to the accessories shown on Pages 532 to 533.

Luminaire colour graphite



Floodlights

		Lamp		Base	EEC	A	B	C
77 423	With mounting box	1 PAR 38	120 W	E27	A++-E	130	230	225
77 380	With earth spike	1 PAR 38	120 W	E27	A++-E	130	470	225
99 475	With G½ connecting thread	1 PAR 38	120 W	E27	A++-E	130	210	225

A practical cable winder makes it possible to wind up the connecting cable in the ring base.

LED floodlights

Floodlights with symmetrically wide beam light distribution. The adjustment without tools allows objects, plants or façades of different heights to be illuminated.
The luminaire housing made of glass fibre reinforced polyamide is fitted with safety glass and available in three versions: with a mounting box for permanent operation on the wall or ceiling, but also on foundations provided by the customer.
With an earth spike or ring base for alternating purposes, depending on the circumstances. The luminaires can be used in varying locations and come with a connecting cable and mains plug.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

Mounting box

Earth spike

Ring base

LED floodlights optionally with
- **Mounting box**
- **Earth spike**
- **Ring base**

Protection class IP 65
Housing, mounting box, earth spike and ring base made of glass fibre reinforced polyamide
Safety glass · Reflector made of pure anodised aluminium
The burning position can be adjusted and the floodlight opened without tools.

Floodlights with mounting box ⌀90 mm with connection terminals 2.5□

Floodlights with earth spike or ring base
ready for connection with 5 m cable and mains plug

LED colour temperature 3000 K

Luminaire colour graphite

Floodlights with **mounting box**

	Lamp		Lumen	EEC	β	A	B	C
77 952	LED	4.2 W	450	A++	29°	105	190	110

Floodlights with **earth spike**

	Lamp		Lumen	EEC	β	A	B	C
77 955	LED	4.2 W	450	A++	29°	105	365	110

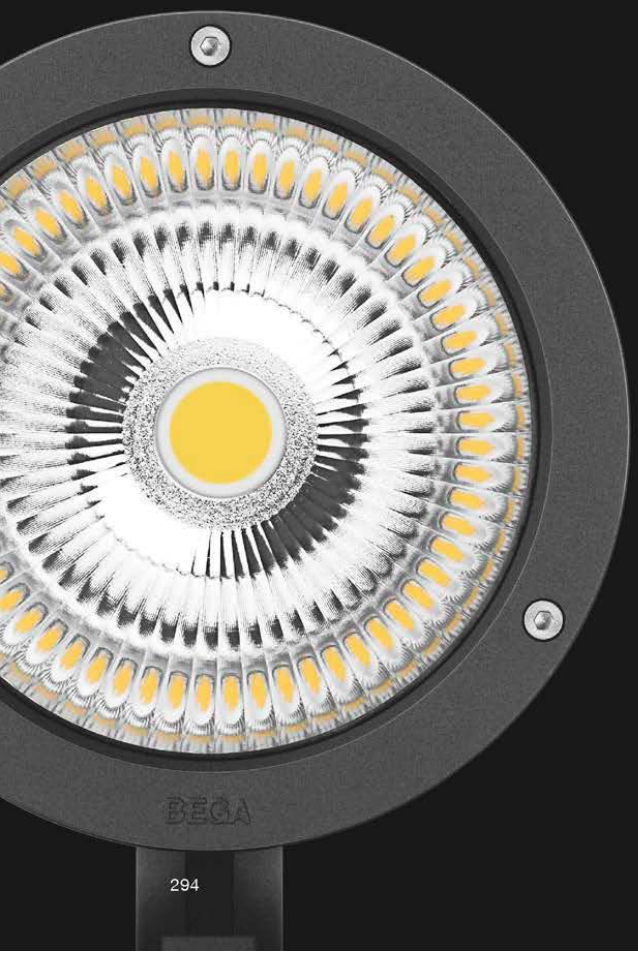
Floodlights with **ring base**

	Lamp		Lumen	EEC	β	A	B	C	D
77 951	LED	4.2 W	450	A++	29°	105	175	110	175

β = half beam angle

Compact floodlights
with LED or for discharge lamps and halogen lamps

- With **mounting box**
- With **G½ connecting thread**
- With **mounting box and outrigger arm**
- With **earth spike** or **ring base**



On Pages 292 to 301, you can find the various designs of the BEGA compact floodlight. With four housing sizes and a lumen range of 460 to 15,000 lumen, this series sets new standards with regard to cost-effectiveness, compactness and efficiency. With this generation of floodlights, we are opening up a whole new chapter in the long history of our floodlights.
The decisive factors in our development work on these lighting tools were the performance of our LED technology and the spectrum of the compact lamps. We have developed highly efficient reflectors for each lamp, and, wherever meaningful from a lighting technology point of view, we provide three half beam angles.
For each floodlight, there is a comprehensive range of accessories, e.g. inside louvres, dichroic colour effect filters and also diffuser disks.
Floodlights with mounting box can be found on Page 296. Floodlights with connecting thread G½ for attaching to threaded holes provided by the customer or for bolting to BEGA accessories can be found on Page 298. Floodlights with mounting box and outrigger arm as well as portable floodlights can be found on Page 300.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

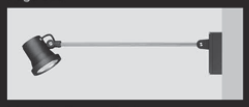
Page 296

Mounting box

Page 298

Connecting thread G ½

Page 300

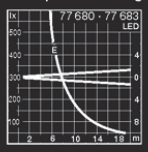


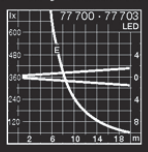
Mounting box and outrigger arm

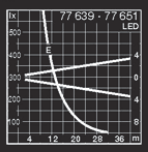
Page 300

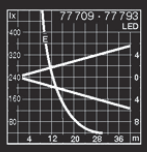
Portable

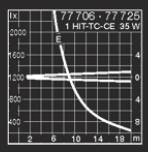
Compact floodlights · very narrow beam

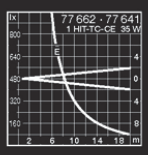


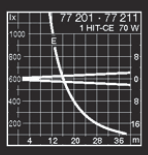


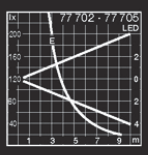


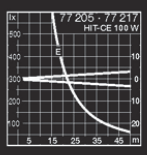


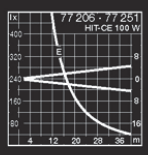


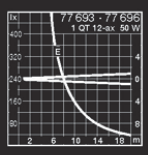




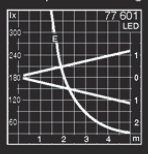


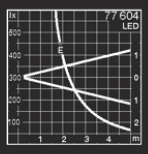


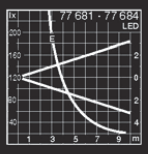


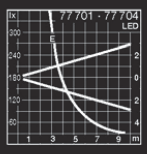


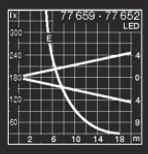
Compact floodlights · narrow beam

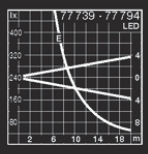


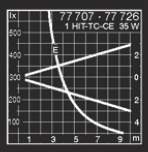


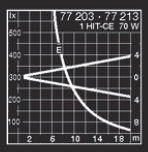


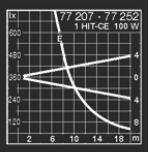


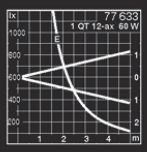


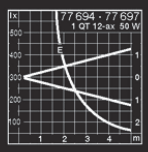


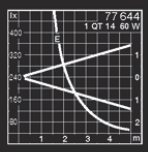


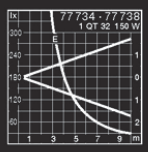




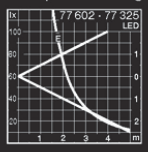


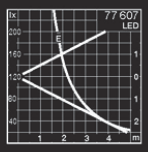


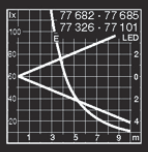


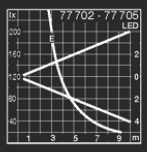


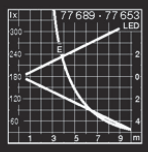
Compact floodlights · wide beam

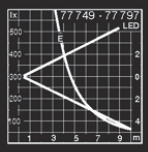


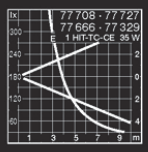


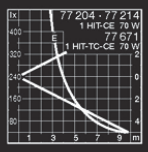


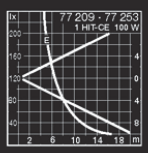


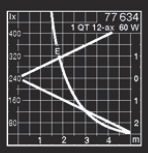


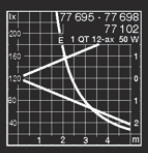


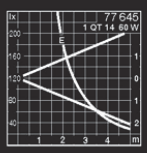










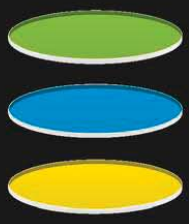


Cylinder shield

Shield

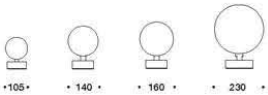
Louvre

Exchangeable lens
flat beam



Colour effect filters

Mounting box



Compact floodlights with **mounting box**
with **very narrow beam, narrow beam** or **wide beam** light distribution.
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass
Reflector made of pure anodised aluminium
LED floodlights · dimmable 1-10 V
77 601 · 77 604 · 77 602 · 77 607 not dimmable
77 604 · 77 607 with LED · 24 V DC · without power supply unit · Safety class III
77 633 · 77 634 without transformer · Safety class III
For the technical data of power supply units and transformers, see Pages 538 to 539
77 706 · 77 662 · 77 707 · 77 708 with electronic ballast

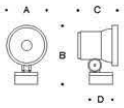
We can supply the following accessories:
- Dichroic colour effect filters
- Exchangeable lenses
- Louvres
- Shields

Accessories may be combined or used individually. They must be ordered separately.

On request, the LED luminaires on this double page are also available
in the LED light colours green, blue, yellow and red.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Page 298

Connecting thread G½

Page 300

Mounting box and outrigger arm

Page 300

Portable

Compact floodlights with **mounting box · very narrow beam**

	Lamp		Base	Lumen	EEC	β	A	B	C	D	Accessories					
77 680	LED	13.4 W	–	1055	A	7°	140	205	140	100	–	–	–	**70 075**	**70 756**	**70 712**
77 700	LED	26.0 W	–	2000	A	9°	160	225	165	100	–	–	–	**70 076**	**70 757**	**70 720**
77 639	LED	48.2 W	–	6025	A^{++}	10°	230	300	230	130	–	–	–	**70 077**	**70 758**	**70 721**
77 709	LED	73.5 W	–	10 300	A^{++}	17°	230	300	230	130	–	–	–	**70 077**	**70 758**	**70 721**
77 706	1 HIT-TC-CE	35 W	GU 6.5	3600	A^{+}-A	5°	160	225	165	100	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**	**70 720**
77 662	1 HIT-TC-CE	35 W	GU 6.5	3600	A^{+}-A	11°	160	225	165	100	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**	**70 720**
77 201	1 HIT-CE	70 W	G 12	7800	A^{+}-A	5°	230	300	230	130	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 721**
77 202	1 HIT-CE	70 W	G 12	7800	A^{+}-A	14°	230	300	230	130	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 721**
77 205	1 HIT-CE	100 W	G 12	11 300	A^{+}-A	7°	230	300	230	130	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 721**
77 206	1 HIT-CE	100 W	G 12	11 300	A^{+}-A	13°	230	300	230	130	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 721**
77 693	1 QT 12-ax	50 W	GY 6.35	1180	A-E	5°	140	205	140	100	**70 056**	**70 057**	**70 058**	**70 055**	**70 756**	**70 712**

Compact floodlights with **mounting box · narrow beam**

	Lamp		Base	Lumen	EEC	β	A	B	C	D	Accessories					
77 601	LED	4.2 W	–	480	A^{++}	30°	105	150	110	90	–	–	–	**70 050**	**70 755**	–
77 604*	LED	13.0 W	–	1030	A	32°	105	150	110	90	–	–	–	**70 050**	**70 755**	–
77 681	LED	19.6 W	–	1720	A^{+}	34°	140	205	140	100	–	–	–	**70 055**	**70 756**	**70 760**
77 701	LED	29.0 W	–	2395	A	29°	160	225	165	100	–	–	–	**70 060**	**70 757**	**70 796**
77 659	LED	48.2 W	–	6025	A^{++}	22°	230	300	230	130	–	–	–	**70 065**	**70 758**	**70 775**
77 739	LED	73.5 W	–	10 300	A^{++}	27°	230	300	230	130	–	–	–	**70 065**	**70 758**	**70 775**
77 707	1 HIT-TC-CE	35 W	GU 6.5	3600	A^{+}-A	33°	160	225	165	100	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**	**70 797**
77 203	1 HIT-CE	70 W	G 12	7800	A^{+}-A	20°	230	300	230	130	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 798**
77 207	1 HIT-CE	100 W	G 12	11 300	A^{+}-A	22°	230	300	230	130	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 798**
77 633*	1 QT 12-ax	60 W	GY 6.35	1650	A-E	26°	105	150	110	90	**70 051**	**70 052**	**70 053**	**70 050**	**70 755**	–
77 694	1 QT 12-ax	50 W	GY 6.35	1180	A-E	28°	140	205	140	100	**70 056**	**70 057**	**70 058**	**70 055**	**70 756**	**70 785**
77 644	1 QT 14	60 W	G 9	–	A^{++}-E	32°	105	150	110	90	**70 051**	**70 052**	**70 053**	**70 050**	**70 755**	–
77 734	1 QT 32	150 W	E27	2870	A^{++}-E	38°	160	225	165	100	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**	–

Compact floodlights with **mounting box · wide beam**

	Lamp		Base	Lumen	EEC	β	A	B	C	D	Accessories				
77 602	LED	6.5 W	–	480	A^{+}	52°	105	150	110	90	–	–	–	**70 050**	**70 755**
77 607*	LED	13.0 W	–	1030	A	50°	105	150	110	90	–	–	–	**70 050**	**70 755**
77 682	LED	19.6 W	–	1720	A^{+}	41°	140	205	140	100	–	–	–	**70 055**	**70 756**
77 702	LED	29.0 W	–	2395	A	41°	160	225	165	100	–	–	–	**70 060**	**70 757**
77 689	LED	48.2 W	–	6025	A^{++}	50°	230	300	230	130	–	–	–	**70 065**	**70 758**
77 749	LED	73.5 W	–	10 300	A^{++}	50°	230	300	230	130	–	–	–	**70 065**	**70 758**
77 708	1 HIT-TC-CE	35 W	GU 6.5	3600	A^{+}-A	46°	160	225	165	100	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**
77 204	1 HIT-CE	70 W	G 12	7800	A^{+}-A	54°	230	300	230	130	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**
77 209	1 HIT-CE	100 W	G 12	11 300	A^{+}-A	52°	230	300	230	130	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**
77 634*	1 QT 12-ax	60 W	GY 6.35	1650	A-E	52°	105	150	110	90	**70 051**	**70 052**	**70 053**	**70 050**	**70 755**
77 695	1 QT 12-ax	50 W	GY 6.35	1180	A-E	45°	140	205	140	100	**70 056**	**70 057**	**70 058**	**70 055**	**70 756**
77 645	1 QT 14	60 W	G 9	–	A^{++}-E	45°	105	150	110	90	**70 051**	**70 052**	**70 053**	**70 050**	**70 755**

Colour effect filters · Exchangeable lenses · Flat beam · Louvres · Shield · Cylinder shield · β = half beam angle

* Without power supply unit / without transformer

Cylinder shield

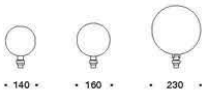
Shield

Louvre

Exchangeable lens flat beam

Colour effect filters

Connecting thread G ½



• 140 • • 160 • • 230 •

Compact floodlights with **connecting thread G ½**
with **very narrow beam, narrow beam** or **wide beam** light distribution.
with LED or for discharge lamps and halogen lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass
Reflector made of pure anodised aluminium
1 m connecting cable 3 x 1 □

Luminaires with LED · dimmable 1-10 V
1 m connecting cable 5 x 1 □

77 725 · 77 641 · 77 726 · 77 727 with electronic ballast

We can supply the following accessories:
- Dichroic colour effect filters
- Exchangeable lenses
- Louvres
- Shields

Accessories may be combined or used individually. They must be ordered separately.

Floodlights with connecting thread G ½ · ISO 228 can be bolted to matching threaded holes provided by the customer or to the accessories shown on Pages 532 to 533.

On request, the LED luminaires on this double page are also available in the LED light colours green, blue, yellow and red.

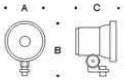
LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Page 296
Mounting box

Page 300
Mounting box and outrigger arm

Page 300
Portable



Compact floodlights with G ½ connecting thread · very narrow beam

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories					
77 683	LED	13.4 W	–	1055	A	7°	140	205	140	–	–	–	**70 075**	**70 756**	**70 712**
77 703	LED	26.0 W	–	2000	A	9°	160	225	165	–	–	–	**70 076**	**70 757**	**70 720**
77 651	LED	48.2 W	–	6025	A^{++}	10°	230	300	230	–	–	–	**70 077**	**70 758**	**70 721**
77 793	LED	73.5 W	–	10 300	A^{++}	17°	230	300	230	–	–	–	**70 077**	**70 758**	**70 721**
77 725	1 HIT-TC-CE	35 W	GU 6.5	3600	A^{+}-A	5°	160	225	165	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**	**70 720**
77 641	1 HIT-TC-CE	35 W	GU 6.5	3600	A^{+}-A	11°	160	225	165	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**	**70 720**
77 211	1 HIT-CE	70 W	G 12	7800	A^{+}-A	5°	230	300	230	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 721**
77 212	1 HIT-CE	70 W	G 12	7800	A^{+}-A	14°	230	300	230	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 721**
77 217	1 HIT-CE	100 W	G 12	11 300	A^{+}-A	7°	230	300	230	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 721**
77 251	1 HIT-CE	100 W	G 12	11 300	A^{+}-A	13°	230	300	230	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 721**
77 696	1 QT 12-ax	50 W	GY 6.35	1180	A-E	5°	140	205	140	**70 056**	**70 057**	**70 058**	**70 055**	**70 756**	**70 712**

Compact floodlights with connecting thread G ½ · narrow beam

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories					
77 684	LED	19.6 W	–	1720	A^{+}	34°	140	205	140	–	–	–	**70 055**	**70 756**	**70 760**
77 704	LED	29.0 W	–	2395	A	29°	160	225	165	–	–	–	**70 060**	**70 757**	**70 796**
77 652	LED	48.2 W	–	6025	A^{++}	22°	230	300	230	–	–	–	**70 065**	**70 758**	**70 775**
77 794	LED	73.5 W	–	10 300	A^{++}	27°	230	300	230	–	–	–	**70 065**	**70 758**	**70 775**
77 726	1 HIT-TC-CE	35 W	GU 6.5	3600	A^{+}-A	33°	160	225	165	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**	**70 797**
77 213	1 HIT-CE	70 W	G 12	7800	A^{+}-A	20°	230	300	230	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 798**
77 252	1 HIT-CE	100 W	G 12	11 300	A^{+}-A	22°	230	300	230	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**	**70 798**
77 697	1 QT 12-ax	50 W	GY 6.35	1180	A-E	28°	140	205	140	**70 056**	**70 057**	**70 058**	**70 055**	**70 756**	**70 785**
77 738	1 QT 32	150 W	E27	2870	A^{++}-E	38°	160	225	165	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**	–

Compact floodlights with connecting thread G ½ · wide beam

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories				
77 685	LED	19.6 W	–	1720	A^{+}	41°	140	205	140	–	–	–	**70 055**	**70 756**
77 705	LED	29.0 W	–	2395	A	41°	160	225	165	–	–	–	**70 060**	**70 757**
77 653	LED	48.2 W	–	6025	A^{++}	50°	230	300	230	–	–	–	**70 065**	**70 758**
77 797	LED	73.5 W	–	10 300	A^{++}	50°	230	300	230	–	–	–	**70 065**	**70 758**
77 727	1 HIT-TC-CE	35 W	GU 6.5	3600	A^{+}-A	46°	160	225	165	**70 061**	**70 062**	**70 064**	**70 060**	**70 757**
77 214	1 HIT-CE	70 W	G 12	7800	A^{+}-A	54°	230	300	230	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**
77 253	1 HIT-CE	100 W	G 12	11 300	A^{+}-A	52°	230	300	230	**70 066**	**70 067**	**70 068**	**70 065**	**70 758**
77 698	1 QT 12-ax	50 W	GY 6.35	1180	A-E	45°	140	205	140	**70 056**	**70 057**	**70 058**	**70 055**	**70 756**

Colour effect filters · Exchangeable lenses · Flat beam · Louvres · Shield · Cylinder shield · β = half beam angle

Compact floodlights with
• **Mounting box and outrigger arm**
• **Earth spike**
• **Ring base**
with LED or for discharge lamps and halogen lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass
Reflector made of pure anodised aluminium
Earth spike made of glass fibre reinforced polyamide
Luminaires for discharge lamps with electronic ballast

Compact floodlights with earth spike or ring base, ready for connection with 5 m cable and mains plug

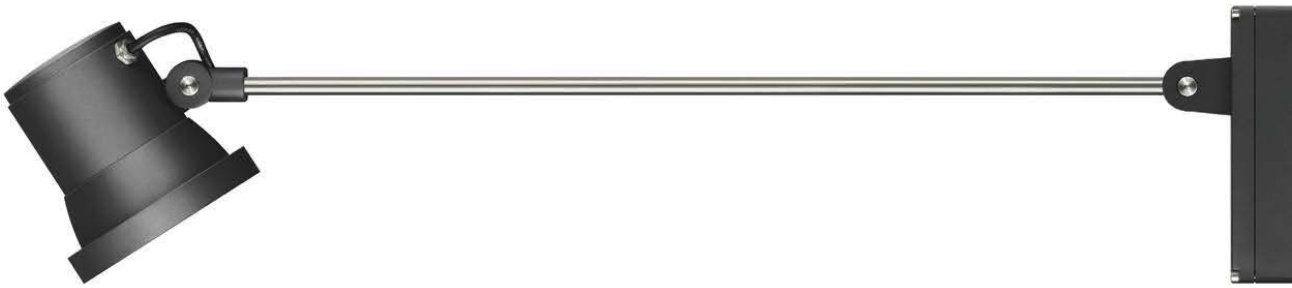
We can supply the following accessories:
• Dichroic colour effect filters
• Exchangeable lenses
• Shields
Accessories may be combined or used individually.
They must be ordered separately.

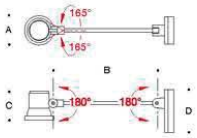
LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Floodlights with earth spike Luminaire colour graphite

A practical cable winder makes it possible to wind up the connecting cable in the ring base.



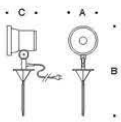


Compact floodlights with **mounting box and outrigger arm · wide beam**

	Lamp		Base	Lumen	EEC	β	A	B	C	D
77 756	LED	10.5 W	–	1200	A++	56°	105	700	110	90 × 190
77 757	LED	19.0 W	–	2160	A+	47°	140	700	140	90 × 190
77 665	LED	25.3 W	–	2880	A+	47°	160	700	165	90 × 190
77 666	1 HIT-TC-CE	35 W	GU 6.5	3600	A+-A	46°	105	700	110	90 × 190
77 671	1 HIT-TC-CE	70 W	G8.5	7700	A+-A	54°	140	700	140	105 × 240

Accessories

–	–	–	**70 050**	**70 755**
–	–	–	**70 055**	**70 756**
–	–	–	**70 060**	**70 757**
70 051	**70 052**	**70 053**	**70 050**	**70 755**
70 056	**70 057**	**70 058**	**70 055**	**70 756**

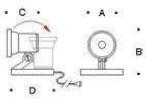


Portable compact floodlights with **earth spike · wide beam**

	Lamp		Base	Lumen	EEC	β	A	B	C
77 325	LED	4.2 W	–	480	A++	48°	105	365	110
77 326	LED	19.6 W	–	1725	A+	42°	140	410	140
77 329	1 HIT-TC-CE	35 W	GU 6.5	3600	A+-A	46°	160	425	165
77 327	1 QT 18	100 W	B15d	1800	A-E	46°	140	410	140

Accessories

–	–	–	**70 050**	**70 755**
–	–	–	**70 055**	**70 756**
70 061	**70 062**	**70 064**	**70 060**	**70 757**
70 056	**70 057**	**70 058**	**70 055**	**70 756**



Portable compact floodlights with **ring base · wide beam** · Fig. left

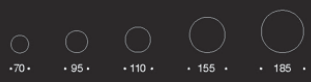
	Lamp		Base	Lumen	EEC	β	A	B	C	D
77 101	LED	19.6 W	–	1725	A+	42°	140	230	140	230
77 102	1 QT 12-ax	50 W	GY 6.35	1180	A-E	45°	140	230	140	230

Accessories

–	–	–	**70 055**	**70 756**
70 056	**70 057**	**70 058**	**70 055**	**70 756**

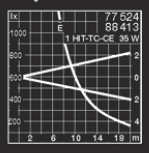
Colour effect filters · Exchangeable lenses · Flat beam · Shield · β = half beam angle

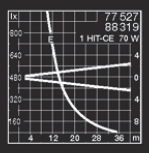
Floodlights
for fluorescent lamps, discharge lamps and halogen lamps



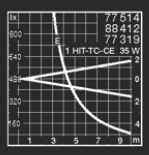
Floodlights optionally for fluorescent lamps, discharge lamps and halogen lamps. For the relevant light outputs and details about half beam angles, see table. You can find dichroic colour effect filters for coloured light, shields to limit glare and exchangeable lenses to change the factory-adjusted light distribution as accessories in the table.
In architecture and garden design, many lighting situations require a special mounting solution. For these varying requirements, we can supply this series of floodlights with different mounting options.
Floodlights with connecting thread G ½ can be bolted to threaded holes provided by the customer in accordance with ISO 228 or to BEGA accessories. For the technical data of accessories, see Pages 532 to 533.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

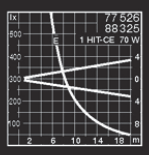
Very narrow beam

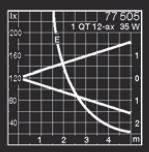


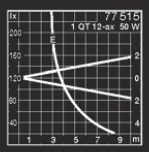


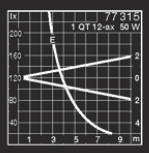
Narrow beam

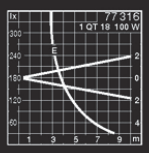




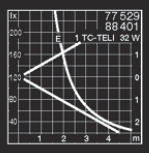


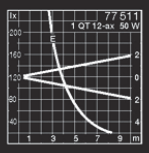






Wide beam





Floodlights optionally with
- **Mounting box**
- **Connecting thread G ½**
- **Earth spike**

with **very narrow beam, narrow beam** or **wide beam** light distribution.
for fluorescent lamps, discharge lamps and halogen lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
77 524 · 77 527 · 88 413 · 88 319 with louvre to reduce stray light
77 505 · 77 511 without transformer · Safety class III
A safety transformer is required to operate these floodlights. For the technical data of safety transformers, see Page 539.

77 529 · 88 401 with electronic ballast for 26 · 32 watts
These luminaires are suitable for operating with alternating and direct current (AC/DC).

Floodlights with mounting box Ø 70 · 100 · 110 mm with connection terminals 2.5□

Floodlights with connecting thread G ½
ISO 228 and 1 m connecting cable 3 x 1□

Floodlights with earth spike made of glass fibre reinforced polyamide, colour graphite, ready for connection with 5 m cable and mains plug

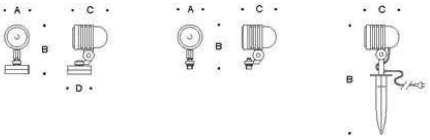
The following accessories are available for these luminaires:
- Dichroic colour effect filters
- Exchangeable lenses
- Shields

Accessories may be combined or used individually.
They must be ordered separately.

Floodlights with connecting thread G ½ · ISO 228 can be bolted to matching threaded holes provided by the customer or to the accessories shown on Pages 532 to 533.

Luminaire colour optionally graphite, white or silver
Graphite – Article number
White – Article number + **W**
Silver – Article number + **A**

Floodlights with earth spike Luminaire colour graphite




Mounting box

Connecting thread **G ½**

Earth spike

Floodlights with **mounting box**

Very narrow beam	Lamp		Base	Lumen	EEC	β	A	B	C	D
77 524	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	7°	155	280	200	110
77 527	1 HIT-CE	70 W	G 12	7800	A+-A	8°	185	315	235	110
Narrow beam										
77 514	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	20°	155	280	200	110
77 526	1 HIT-CE	70 W	G 12	7800	A+-A	26°	185	315	235	110
77 505*	1 QT 12-ax	35 W	GY 6.35	860	A-E	35°	70	130	90	70
77 515	1 QT 12-ax	50 W	GY 6.35	1180	A-E	30°	110	215	150	100
Wide beam										
77 529	1 TC-TELI	32 W	GX 24 q-3	2400	A-B	57°	185	315	235	110
77 511*	1 QT 12-ax	50 W	GY 6.35	1180	A-E	55°	95	175	120	100

Accessories

70 130	**70 131**	**70 132**	–	**70 315**	**70 265**
70 105	**70 106**	**70 107**	–	**70 119**	**70 267**
70 130	**70 131**	**70 132**	**70 316**	**70 315**	**70 265**
70 105	**70 106**	**70 107**	**70 118**	**70 119**	**70 267**
10 115	**10 116**	**10 117**	**10 200**	**10 213**	**70 246**
10 125	**10 126**	**10 127**	**10 312**	**10 313**	**70 264**
70 105	**70 106**	**70 107**	**70 118**	**70 119**	**70 267**
70 120	**70 121**	**70 122**	**70 310**	**70 311**	**70 247**

Floodlights with **connecting thread G ½**

Very narrow beam	Lamp		Base	Lumen	EEC	β	A	B	C
88 413	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	7°	155	240	200
88 319	1 HIT-CE	70 W	G 12	7800	A+-A	8°	185	265	235
Narrow beam									
88 412	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	20°	155	240	200
88 325	1 HIT-CE	70 W	G 12	7800	A+-A	26°	185	265	235
Wide beam									
88 401	1 TC-TELI	32 W	GX 24 q-3	2400	A-B	57°	185	265	235

Accessories

70 130	**70 131**	**70 132**	–	**70 315**	**70 265**
70 105	**70 106**	**70 107**	–	**70 119**	**70 267**
70 130	**70 131**	**70 132**	**70 316**	**70 315**	**70 265**
70 105	**70 106**	**70 107**	**70 118**	**70 119**	**70 267**
70 105	**70 106**	**70 107**	**70 118**	**70 119**	**70 267**

Floodlights with **earth spike**

Narrow beam	Lamp		Base	Lumen	EEC	β	A	B	C
77 319	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	20°	155	620	200
77 315	1 QT 12-ax	50 W	GY 6.35	1180	A-E	30°	110	480	150
77 316	1 QT 18	100 W	B15d	1800	A-E	22°	110	480	150

Accessories

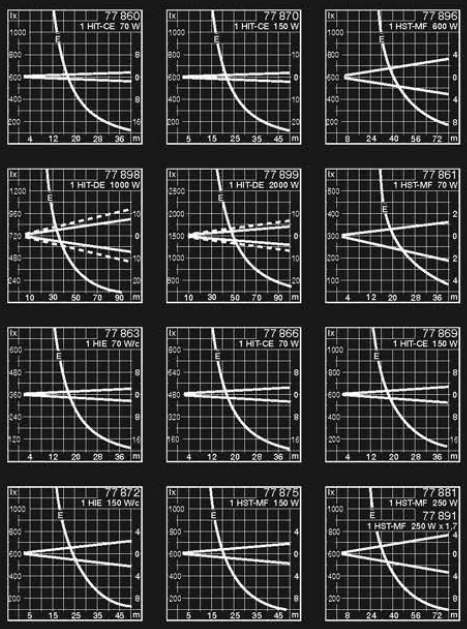
70 130	**70 131**	**70 132**	**70 316**	**70 315**	**70 265**
10 125	**10 126**	**10 127**	**10 312**	**10 313**	**70 264**
10 125	**10 126**	**10 127**	**10 312**	**10 313**	**70 264**

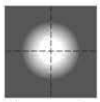
Colour effect filters Exchangeable lenses Wide beam Flat beam Shield β = half beam angle

* Without power supply unit / without transformer

High-performance floodlights with **very narrow beam** or **narrow beam** light distribution for discharge lamps

High-performance floodlights in three sizes for discharge lamps with very narrow beam or narrow beam light distribution. For the relevant light outputs and details about half beam angles, see table.
A separate control gear box is required for operating the high-performance floodlights 77 896 · 77 898 · 77 899. Matching control gear boxes and cross beams can be found in the table. For coloured light, the majority of the floodlights can be fitted with integral dichroic colour effect filters.
To restrict the amount of glare, it is possible to insert additional internal ring-shaped louvres or to add a shield to the floodlight.
An extensive range of perfect accessories is available for installing BEGA high-performance floodlights.
For the technical data of accessories, see Pages 534 to 537.
You can find floodlights of this series, but with wide beam or flat beam light distribution, on Page 306 of the catalogue.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.




Very narrow beam


Narrow beam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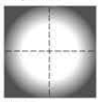
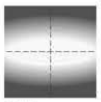

Wide beam


Flat beam

High-performance floodlights with **very narrow beam** or **narrow beam** light distribution
for discharge lamps up to 2000 W
- 600 · 1000 · 2000 W without control gear boxes, separate control gear box / cross beam required. For technical data of the control gear boxes, see Page 537, and of the cross beams with operating device, see Page 534.

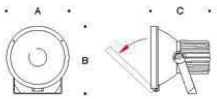
Protection class IP 67
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium

Mounting bracket with 1 central hole ⌀22 mm and 2 holes ⌀9 mm · Distance apart 80 mm
1 screw cable gland for connecting cable 3 x 1.5□ · Connection terminals 2.5□
77 860 · 77 870 with integral louvre to reduce stray light

The following accessories are available for these luminaires:
- Dichroic colour effect filters
- Louvres
- Shields
- Cross beams
- Control gear boxes

Accessories may be combined or used individually. They must be ordered separately.
Easy relamping without having to dismantle shields, louvres or dichroic colour effect filters.
You can find further accessories for installing the floodlights on Pages 534 to 537.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



High-performance floodlights · **very narrow beam**

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories					
77 860	1 HIT-CE	70 W	G 12	7800	A^{+}-A	4°	280	305	260	**70 101**	**70 102**	**70 103**	**70 606**	**70 391**	–
77 870	1 HIT-CE	150 W	G 12	15 100	A^{+}-A	4°	350	380	320	**70 108**	**70 109**	**70 110**	**70 659**	**70 391**	–
77 896	1 HST-MF	600 W	E 40	90 000	A^{++}-A^{+}	5°	460	515	450	–	–	–	**70 664**	**70 498***	**70 212**
77 898	1 HIT-DE	1000 W	K12s-36	90 000	A^{+}-A	9/14°	460	485	360	–	–	–	**70 664**	**70 391**	**70 207**
77 899	1 HIT-DE	2000 W	K12s-36	222 000	A^{+}-A	6/7°	460	485	360	–	–	–	**70 664**	**70 391**	**70 202**

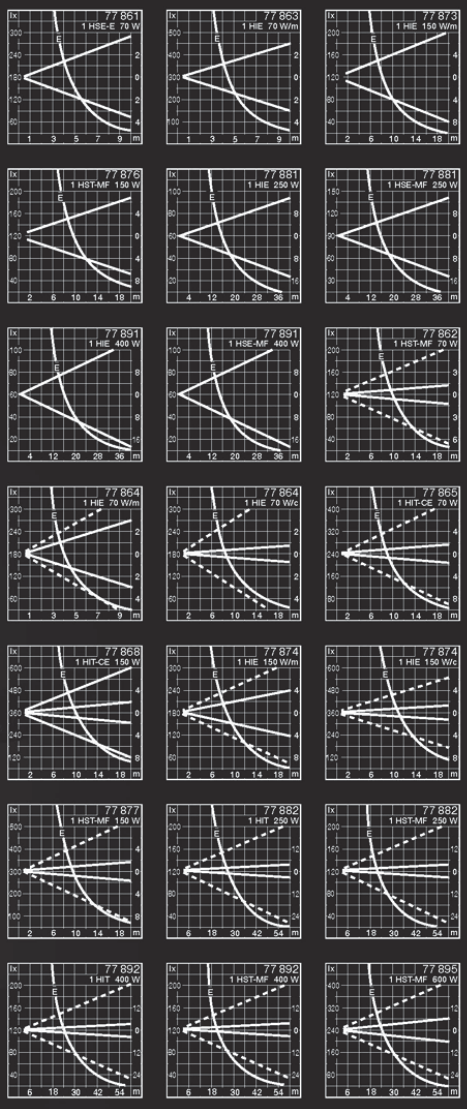
High-performance floodlights · **narrow beam**

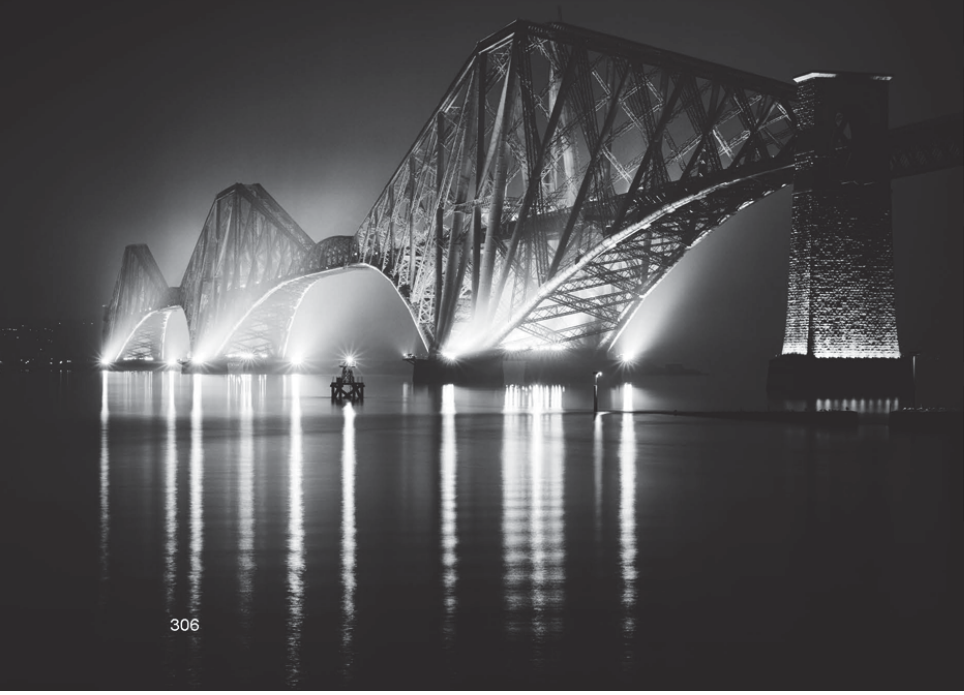
	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories					
77 861	1 HST-MF	50-70 W	E 27	6600	A^{+}-A	4°	280	355	315	–	–	–	**70 123**	**70 606**	**70 391**
77 863	1 HIE/c	70 W	E 27	5500	A^{+}-A	6°	280	355	315	**70 101**	**70 102**	**70 103**	**70 124**	**70 606**	**70 391**
77 866	1 HIT-CE	70 W	G 12	7800	A^{+}-A	7°	280	305	260	**70 101**	**70 102**	**70 103**	**70 123**	**70 606**	**70 391**
77 869	1 HIT-CE	150 W	G 12	15 100	A^{+}-A	8°	280	355	315	**70 101**	**70 102**	**70 103**	**70 123**	**70 606**	**70 391**
77 872	1 HIE/c	150 W	E 27	12 900	A^{+}-A	5°	350	380	320	**70 108**	**70 109**	**70 110**	**70 133**	**70 659**	**70 391**
77 875	1 HST-MF	150 W	E 40	17 000	A^{++}-A^{+}	4°	350	415	360	–	–	–	**70 134**	**70 659**	**70 391**
77 881	1 HIT·HST-MF	250 W	E 40	31 600	A^{++}-A^{+}	4°	460	515	445	**70 111**	**70 112**	**70 113**	**70 144**	**70 664**	**70 391**
77 891	1 HIT·HST-MF	400 W	E 40	56 500	A^{++}-A^{+}	5°	460	555	485	**70 111**	**70 112**	**70 113**	**70 144**	**70 664**	**70 391**

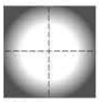
Colour effect filters · Louvre · Shield · Cross beam · Control gear box · β = half beam angle · * Cross beam with operating device

High-performance floodlights with **wide beam** or **flat beam** light distribution for discharge lamps

High-performance floodlights in three sizes for discharge lamps with wide beam or flat beam light distribution. For the relevant light outputs and details about half beam angles, see table.
A separate control gear box is required for operating the high-performance floodlight 77 895. You can find matching control gear boxes and cross beams in the table.
For coloured light, the majority of the floodlights can be fitted with integral dichroic colour effect filters. To restrict the amount of glare, it is possible to insert additional internal ring-shaped louvres or to add a shield to the floodlight.
An extensive range of perfect accessories is available for installing BEGA high-performance floodlights.
For the technical data of accessories, see Pages 534 to 537.
You can find floodlights of this series, but with very narrow beam or narrow beam light distribution, on Page 304 of the catalogue.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.






Wide beam


Flat beam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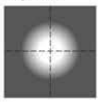
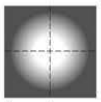

Very narrow beam


Narrow beam

High-performance floodlights with **wide beam** or **flat beam** light distribution
for discharge lamps up to 600 watts
- 600 W without operating devices, separate control gear box / cross beam required. For technical data of the control gear boxes, see Page 537, and of the cross beams with operating device, see Page 534.

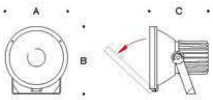
Protection class IP 67
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium

Mounting bracket with 1 central hole ⌀22 mm and 2 holes ⌀9 mm · Distance apart 80 mm
1 screw cable gland for connecting cable 3 x 1.5□ · Connection terminals 2.5□

The following accessories are available for these luminaires:
- Dichroic colour effect filters
- Louvres
- Shields
- Cross beams
- Control gear boxes

Accessories may be combined or used individually. They must be ordered separately.
Easy relamping without having to dismantle shields, louvres or dichroic colour effect filters.
You can find further accessories for installing the floodlights on Pages 534 to 537.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



High-performance floodlights · **wide beam**

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories					
77 861	1 HSE-E	50 · 70 W	E 27	6600	A+-A	38°	280	355	315	–	–	–	**70 124**	**70 606**	**70 391**
77 863	1 HIE/m	70 W	E 27	7200	A+-A	34°	280	355	315	**70 101**	**70 102**	**70 103**	**70 124**	**70 606**	**70 391**
77 873	1 HIE/m	150 W	E 27	15 000	A+-A	45°	350	380	320	**70 108**	**70 109**	**70 110**	**70 133**	**70 659**	**70 391**
77 876	1 HST-MF	150 W	E 40	17 000	A++-A+	36°	350	415	360	–	–	–	**70 134**	**70 659**	**70 391**
77 881	1 HIE · HSE-MF	250 W	E 40	31 600	A+-A	37°	460	515	450	**70 111**	**70 112**	**70 113**	**70 143**	**70 664**	**70 391**
77 891	1 HIE · HSE-MF	400 W	E 40	56 500	A+-A	50°	460	555	445	**70 111**	**70 112**	**70 113**	**70 143**	**70 664**	**70 391**

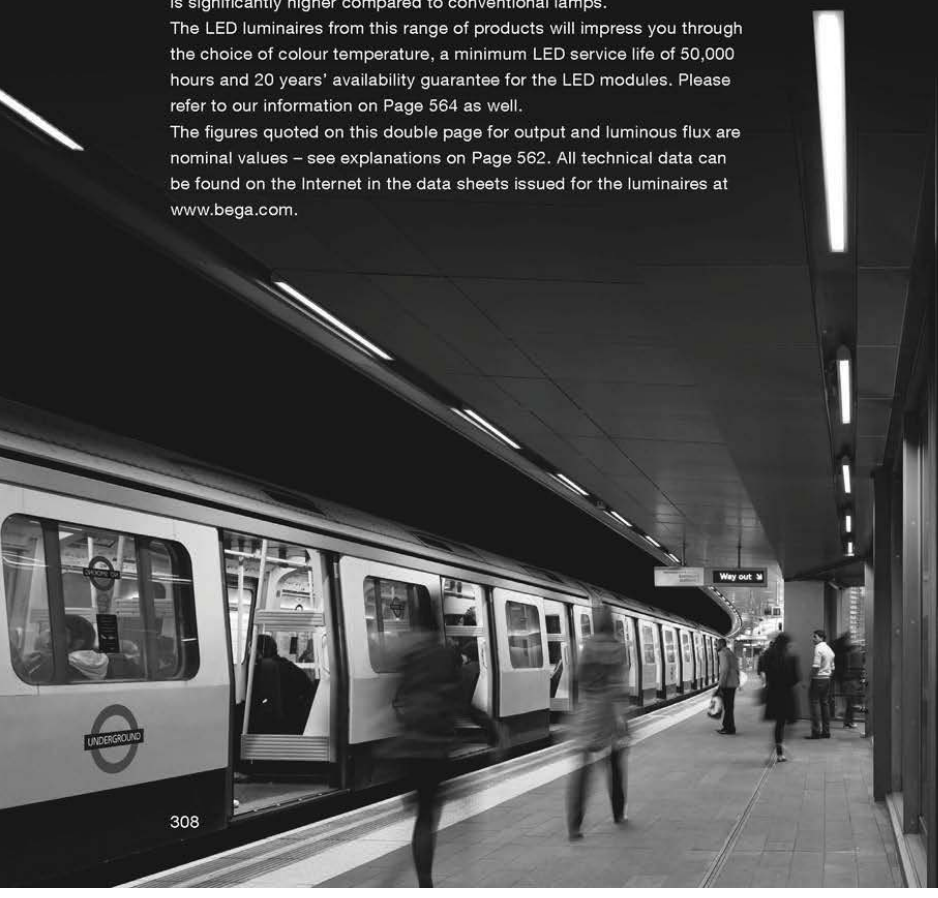
High-performance floodlights · **flat beam**

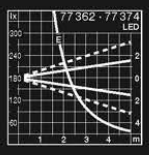
	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories						
77 862	1 HST-MF	50 · 70 W	E 27	6600	A+-A	8/63°	280	355	315	–	–	–	**70 123**	**70 606**	**70 391**	–
77 864	1 HIE/m	70 W	E 27	7200	A+-A	32/67°	280	355	315	**70 101**	**70 102**	**70 103**	**70 124**	**70 606**	**70 391**	–
	1 HIE/c	70 W	E 27	5500	A+-A	7/66°	280	355	315	**70 101**	**70 102**	**70 103**	**70 124**	**70 606**	**70 391**	–
77 865	1 HIT-CE	70 W	G 12	7800	A+-A	7/62°	280	305	255	**70 101**	**70 102**	**70 103**	**70 123**	**70 606**	**70 391**	–
77 868	1 HIT-CE	150 W	G 12	15 100	A+-A	9/61°	280	355	315	**70 101**	**70 102**	**70 103**	**70 123**	**70 606**	**70 391**	–
77 874	1 HIE/m	150 W	E 27	11 000	A+-A	24/63°	350	380	320	**70 108**	**70 109**	**70 110**	**70 133**	**70 659**	**70 391**	–
	1 HIE/c	150 W	E 27	12 900	A+-A	6/60°	350	380	320	**70 108**	**70 109**	**70 110**	**70 133**	**70 659**	**70 391**	–
77 877	1 HST-MF	150 W	E 40	17 000	A++-A+	8/62°	350	415	360	–	–	–	**70 134**	**70 659**	**70 391**	–
77 882	1 HIT · HST-MF	250 W	E 40	31 600	A++-A+	6/36°	460	510	450	**70 111**	**70 112**	**70 113**	**70 144**	**70 664**	**70 391**	–
77 892	1 HIT · HST-MF	400 W	E 40	56 500	A++-A+	7/39°	460	555	445	**70 111**	**70 112**	**70 113**	**70 144**	**70 664**	**70 391**	–
77 895	1 HST-MF	600 W	E 40	90 000	A++-A+	10/62°	460	515	450	–	–	–	–	**70 664**	**70 498***	**70 212**

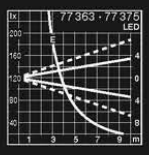
Colour effect filters · Louvre · Shield · Cross beam · Control gear box · β = half beam angle · * Cross beam with operating device

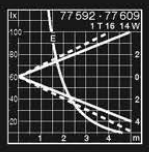
Floodlights
with LED or for fluorescent lamps T 16
and for additive colour mixing RGB W

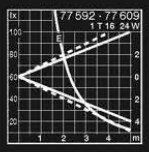
A group of floodlights for permanent use, optionally with mounting box or with mounting box and outrigger arm.
They are suitable for all types of installation on ceilings or on walls.
Compact, linear luminaires with symmetrical wide beam light distribution with LED or for T 16 fluorescent lamps with electronic ballast. Lamps with two different light outputs can be used. Depending on the lengths of the lamps, we supply these luminaires in three dimensions.
Despite having the same lumen ratings, the luminous efficiency of LED is significantly higher compared to conventional lamps.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

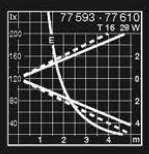


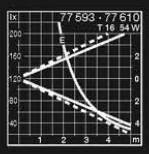


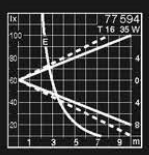


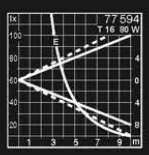


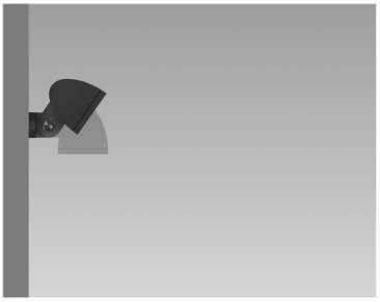


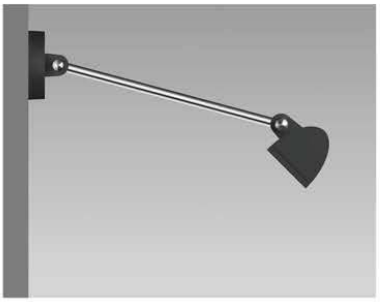












Floodlights optionally
- With **mounting box**
- With **mounting box and outrigger arm**

with LED or for fluorescent lamps

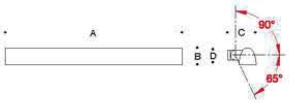
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires for fluorescent lamps with electronic ballast
77362 · 77363 · 77374 · 77375 dimmable 1-10V

The RGBW luminaires are optionally LCN or DALI controllable. To control the LCN-based luminaires, we recommend our BEGA Control system.
For the technical data of BEGA Control see, Pages 542 to 561.

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

LED colour temperature optionally 4000K or 3000K
4000K – Article number
3000K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

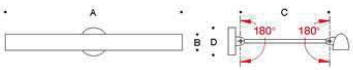


Floodlights with **mounting box**

		Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
77362		LED	21.1W	–	2400	A+	610	95	150	50	✔
77363		LED	42.2W	–	4800	A+	1210	95	150	50	✔
77592		1 T16	14·24W	G5	1750	A+-B	610	95	150	50	✔
77593		1 T16	28·54W	G5	4450	A+-B	1210	95	150	50	✔
77594		1 T16	35·80W	G5	6150	A+-B	1510	95	150	50	✔

Floodlights **RGBW** with **mounting box**

LCN	DALI	Lamp		A	B	C	D	AC/DC
77365	**77367**	LED	18.1W	610	95	150	50	–
77366	**77368**	LED	36.2W	1210	95	150	50	–

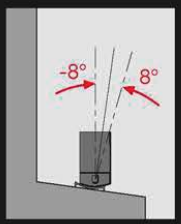


Floodlights with **mounting box and outrigger arm**

		Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
77374		LED	21.1W	–	2400	A+	610	95	500	155	✔
77375		LED	42.2W	–	4800	A+	1210	95	500	155	✔
77609		1 T16	14·24W	G5	1750	A+-B	610	95	500	155	✔
77610		1 T16	28·54W	G5	4450	A+-B	1210	95	500	155	✔

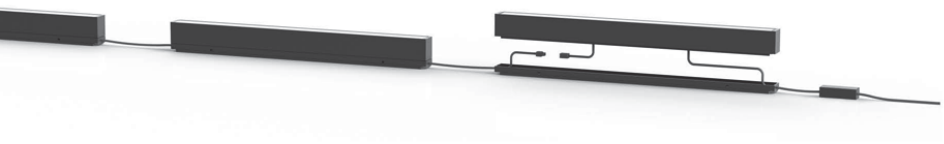
LED façade floodlights
with symmetrical or asymmetrical light distribution

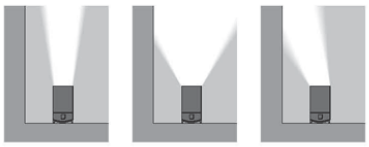
We have developed a new LED façade floodlight specially for the linear illumination of façades or façade sections.
These luminaires are available in two installation lengths with symmetrical or asymmetrical light distribution. You can find the relevant information on half beam angles in the table.
The luminaires can be installed side by side to form a continuous light strip. Simple 5-pole plug-in connectors are used for the electrical connection to the next luminaire. To bridge larger distances, we can supply connecting cables of various lengths which are ready for connection. BEGA LED façade floodlights can be installed in any burning position.
These are luminaires which will impress you through the choice of colour temperature,a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules.
Please refer to our information on Page 562 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 564. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



The inclination angle of the floodlight is adjustable.


The façade floodlights can be installed on floor surfaces as well as ceiling surfaces.





Symmetrical 12° Symmetrical 52° Asymmetrical

LED façade floodlights
with **symmetrical** or **asymmetrical** light distribution

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass, clear
Reflector made of pure anodised aluminium
DALI controllable

A separate connection box 70 555 is required for the electrical connection to the luminaires.
Connection boxes are accessories and must be ordered separately.

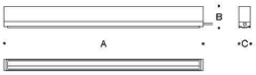
For installation in series (max. 12 luminaires per connection), you only need a connection box for the first luminaire.
The connection from one luminaire to another is made with the connection cables supplied with the luminaires.

0.5 m cable with 5-pole plug-in connector

The attack angle of the luminaires is adjustable in 2° steps from -8° to 8°.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Symmetrical light distribution

	Lamp		Lumen	EEC	β	A	B	C
77 152	LED	16.8 W	2475	A++	12°	520	105	60
77 154	LED	16.8 W	2475	A++	52°	520	105	60
77 153	LED	33.6 W	4950	A++	12°	1000	105	60
77 155	LED	33.6 W	4950	A++	52°	1000	105	60

Asymmetrical light distribution

	Lamp		Lumen	EEC	β	A	B	C
77 156	LED	16.8 W	2475	A++	33°	520	105	60
77 157	LED	33.6 W	4950	A++	33°	1000	105	60

β = half beam angle

Connection box · Extension cables

Connection box with terminals 5 x 2.5□
Colour graphite

	System accessories	A	B	C
70 555	Connection box	250	55	45
70 556	Extension cable 5 m			
70 557	Extension cable 10 m			

LED surface floodlights
for flat beam or wide beam light distribution

- With **mounting box**
- With **mounting box and outrigger arm**
- With **G½ connecting thread**
- With **earth spike**

On Pages 312 to 317, you can find the various designs of the BEGA LED surface floodlight. This new series of compact, efficient and versatile surface floodlights rounds off our current range.
With highly efficient BEGA LED modules and reflectors in three housing sizes for wide beam or flat beam light distribution, this series sets new standards with regard to cost-effectiveness, compactness and efficiency.
Floodlights with mounting box and outrigger arm can be found on Page 314.
Floodlights with connecting thread G½ for attaching to threaded holes provided by the customer as well as portable floodlights with earth spike can be found on Page 316.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

Page 314

Mounting box

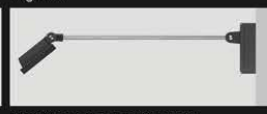
Page 316

G ½ connecting thread

Page 316

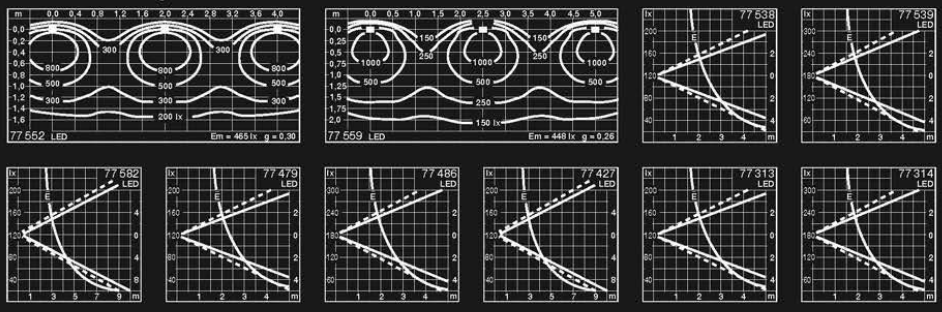
Earth spike

Page 314

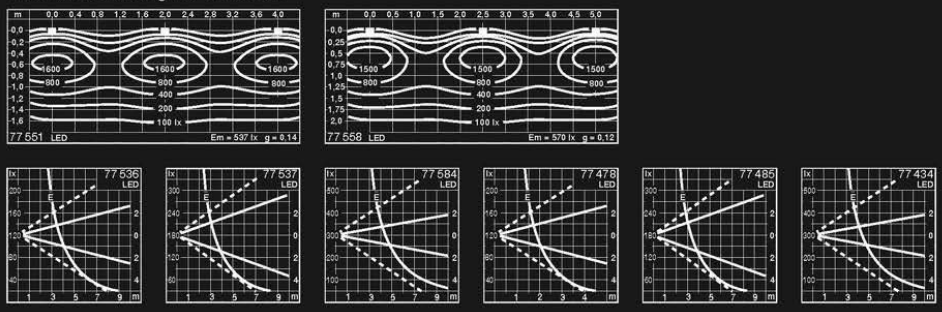


Mounting box and outrigger arm

LED surface floodlights · **wide beam**



LED surface floodlights · **flat beam**



Page 316

G½ connecting thread

Earth spike

LED surface floodlights optionally with
• **Mounting box and outrigger arm**
• **Mounting box**
for **wide beam** or **flat beam** light distribution

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
Reflector made of pure anodised aluminium
77 559 · 77 558 · 77 539 · 77 582 · 77 537 · 77 584 DALI controllable
ø 100 mm mounting box with 2.5□ connection terminals

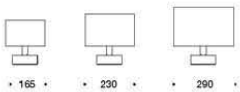
The RGB W luminaire can optionally support an LCN or a DALI bus. To control the LCN-based luminaire, we recommend our BEGA Control system. For technical data, see BEGA Control, Pages 542 to 561.

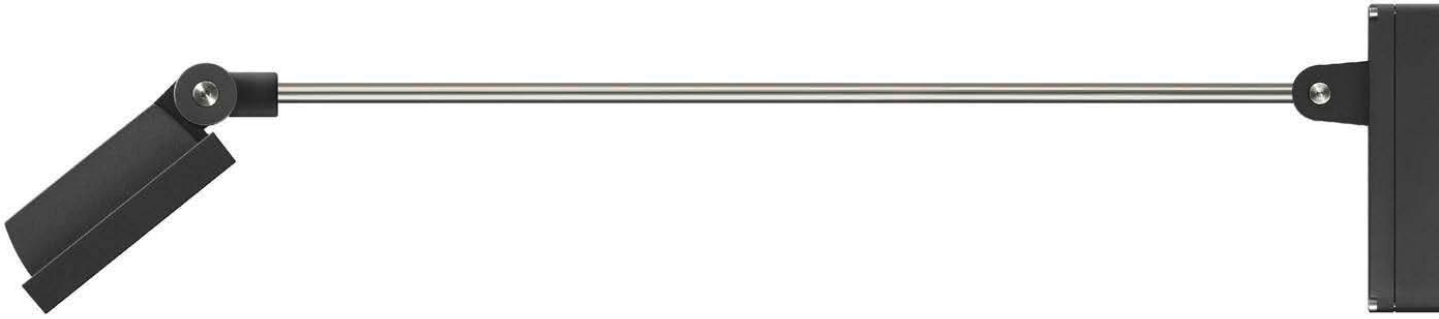
Shields as accessories to be ordered separately.

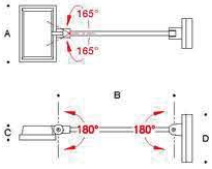
You can find luminaires for operating with alternating and direct current in the table under AC/DC.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite, white or silver
Graphite – Article number
White – Article number + **W**
Silver – Article number + **A**





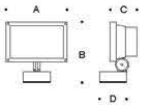


Floodlights with **mounting box and outrigger arm · wide beam**

	Lamp		Lumen	EEC	β	A	B	C	D	AC/DC	
77 552	LED	25.3 W	2880	A+	74/89°	110 x 165	700	50	90 x 190	–	**70 500**
77 559	LED	37.9 W	4320	A+	82/96°	150 x 230	700	60	105 x 240	✔	**70 502**

Floodlights with **mounting box and outrigger arm · flat beam**

	Lamp		Lumen	EEC	β	A	B	C	D	AC/DC	
77 551	LED	25.3 W	2880	A+	29/86°	110 x 165	700	50	90 x 190	–	**70 500**
77 558	LED	37.9 W	4320	A+	39/96°	150 x 230	700	60	105 x 240	✔	**70 502**



Floodlights with **mounting box · wide beam**

	Lamp		Lumen	EEC	β	A	B	C	D	AC/DC	
77 538	LED	25.3 W	2880	A+	74/89°	165	185	90	100	–	**70 500**
77 539	LED	37.9 W	4320	A+	82/96°	230	225	100	100	✔	**70 502**
77 582	LED	75.6 W	9500	A++	84/97°	290	270	130	100	✔	**70 525**

Floodlights with **mounting box · flat beam**

	Lamp		Lumen	EEC	β	A	B	C	D	AC/DC	
77 536	LED	25.3 W	2880	A+	29/86°	165	185	90	100	–	**70 500**
77 537	LED	37.9 W	4320	A+	39/96°	230	225	100	100	✔	**70 502**
77 584	LED	75.6 W	9500	A++	40/97°	290	270	130	100	✔	**70 525**

Floodlights with **mounting box · RGB W · wide beam**

LCN	DALI	Lamp		β	A	B	C	D	
77 549	**77 547**	LED	29 W	82/96°	230	225	100	100	**70 502**
77 598	**77 599**	LED	58 W	84/97°	290	270	130	100	**70 525**

Shield β = half beam angle

LED surface floodlights optionally with
• **G ½ connecting thread**
• **Earth spike**
for **wide beam** or **flat beam** light distribution

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
Reflector made of pure anodised aluminium
77 486 · 77 427 · 77 485 · 77 434 DALI controllable

Floodlights with G ½ · ISO 228 connecting thread and
1 m connecting cable 5 x 1□
77 479 · 77 478 with 1 m connecting cable 3 x 1□

Floodlights with earth spike made of glass fibre reinforced polyamide, colour graphite, ready for connection with 5 m cable and mains plug · Protection class IP X4

Shields as accessories to be ordered separately.

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

Floodlights with G ½ · ISO 228 connecting thread can be connected using customer's matching threaded holes or accessories as shown on Pages 532 to 533.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

77 313 · 77 314
Luminaire colour graphite

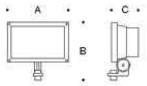
G½ connecting thread

Earth spike

Page 314

Mounting box

Mounting box and outrigger arm

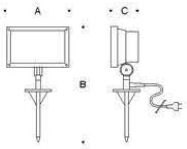


Floodlights with G ½ connecting thread · wide beam

	Lamp		Lumen	EEC	β	A	B	C	AC/DC	
77 479	LED	25.3 W	2880	A^{+}	74/89°	165	180	90	–	**70 500**
77 486	LED	37.9 W	4320	A^{+}	82/96°	230	220	100	✔	**70 502**
77 427	LED	75.6 W	9500	A^{++}	84/97°	290	265	130	✔	**70 525**

Floodlights with G ½ connecting thread · flat beam

	Lamp		Lumen	EEC	β	A	B	C	AC/DC	
77 478	LED	25.3 W	2880	A^{+}	29/86°	165	180	90	–	**70 500**
77 485	LED	37.9 W	4320	A^{+}	39/96°	230	220	100	✔	**70 502**
77 434	LED	75.6 W	9500	A^{++}	40/97°	290	265	130	✔	**70 525**



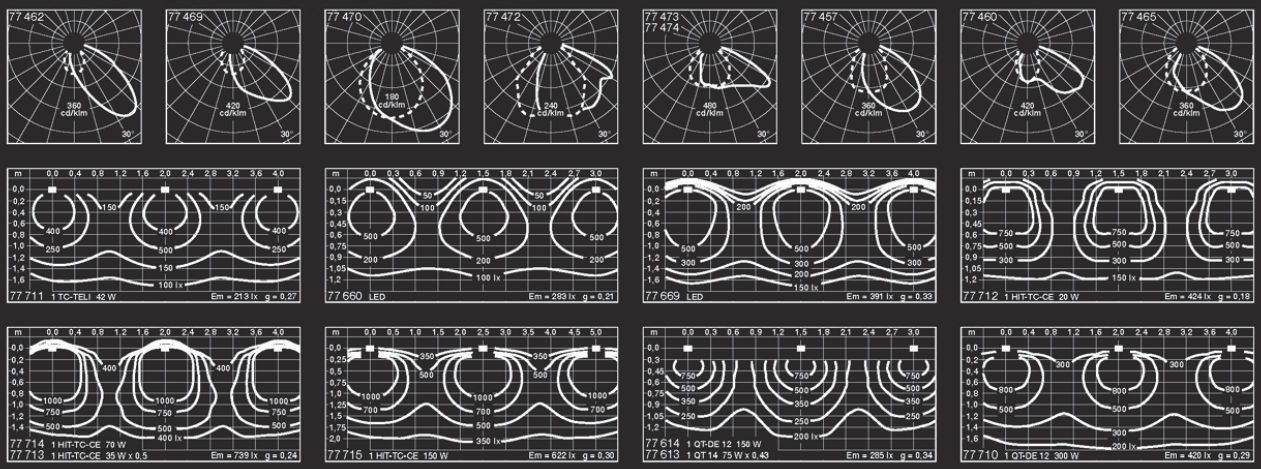
Floodlights with earth spike · wide beam

	Lamp		Lumen	EEC	β	A	B	C	AC/DC	
77 313	LED	25.3 W	2880	A^{+}	74/89°	165	390	90	–	**70 500**
77 314	LED	37.9 W	4320	A^{+}	82/96°	230	430	100	✔	**70 502**

Shield β = half beam angle

Surface washers with LED or for fluorescent lamps, discharge lamps and halogen lamps

Surface washers with asymmetrical light distribution, with low volume and high light outputs. Equipping the luminaires with LED is new in this series. Despite having the same lumen ratings, the luminous efficiency of LED is significantly higher than that of conventional lamps.
Three sizes with different light outputs are available for the various dimensions at the installation site.
In standard and garden architecture, many lighting situations require a special mounting solution.
Please also note the other product descriptions for this series on Page 320.
For these varying requirements, we can supply this series with different mounting options. The floodlights with G ½ · G ⅜ connecting threads can be screwed to customer-provided threaded holes in accordance with ISO 228 or to BEGA accessories.
For technical data concerning accessories, see Pages 532 and 533.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years 'availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



Mounting box

Mounting box and outrigger arm

Page 320

G ½ and G ⅜ connecting threads

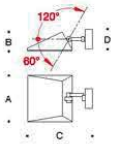
Surface washers optionally
• With **mounting box**
• With **mounting box and outrigger arm**
with LED or for fluorescent lamps, discharge lamps and halogen lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
77 469 · 77 669 dimmable 1-10 V
77 472 · 77 712 · 77 713 · 77 714 · 77 715 with electronic ballast
77 470 · 77 711 with electronic ballast for 26 · 32 · 42 watts
77 460 · 77 614 for lamp length 74.9 mm

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

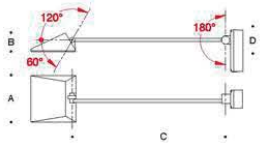
LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



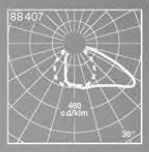
Surface washers with **mounting box**

	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
77 462	LED	10.5 W	–	1200	A^{++}	150	80	280	80	✔
77 469	LED	25.3 W	–	2880	A^{+}	260	105	365	110	✔
77 470	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	260	105	365	110	✔
77 472	1 HIT-TC-CE	20 W	GU 6.5	1700	A^{+}-A	150	80	280	80	–
77 473	1 HIT-TC-CE	35 W	G 8.5	4000	A^{+}-A	260	105	365	110	–
77 474	1 HI/HST-DE	70 W	RX7s	7000	A^{+}-A	260	105	365	110	–
77 457	1 QT 14	75 W	G 9	–	C-E	115	60	235	80	–
77 460	1 QT-DE 12	150 W	R7s	2250	A^{++}-E	150	80	280	80	–
77 465	1 QT-DE 12	300 W	R7s	5000	A^{++}-E	260	105	365	110	–



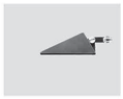
Surface washers with **mounting box and outrigger arm**

	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
77 660	LED	10.5 W	–	1200	A^{++}	150	80	500	⌀90	✔
77 669	LED	25.3 W	–	2880	A^{+}	260	105	700	90×190	✔
77 711	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	260	105	700	90×190	✔
77 712	1 HIT-TC-CE	20 W	GU 6.5	1700	A^{+}-A	115	60	500	90×190	–
77 713	1 HIT-TC-CE	35 W	G 8.5	4000	A^{+}-A	150	80	700	90×190	–
77 714	1 HIT-TC-CE	70 W	G 8.5	7700	A^{+}-A	150	80	700	105×240	–
77 715	1 HIT-DE-CE	150 W	RX7s	15000	A^{+}-A	260	105	700	105×240	–
77 613	1 QT 14	75 W	G 9	–	C-E	115	60	500	⌀90	–
77 614	1 QT-DE 12	150 W	R7s	2250	A^{++}-E	150	80	500	⌀90	–
77 710	1 QT-DE 12	300 W	R7s	5000	A^{++}-E	260	105	700	90×190	–



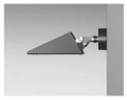
Surface washers with LED or for fluorescent lamps, discharge lamps and halogen lamps

Surface washers with asymmetrical light distribution, with low volume and high light outputs.
Equipping the luminaires with LED is new in this series.
Despite having the same lumen ratings, the luminous efficiency of LED is significantly higher than that of conventional lamps.
Three sizes with different light outputs are available for the various dimensions at the installation site.
In standard and garden architecture, many lighting situations require a special mounting solution. Please also note the other product descriptions for this series on Page 318. For these varying requirements, we can supply this series with different mounting options. The floodlights with G ½ · G ⅜ connecting threads can be screwed to customer-provided threaded holes in accordance with ISO 228 or to BEGA accessories. For technical data concerning accessories, see Pages 532 and 533.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



Connecting thread
G ½ and G ⅜

Page 318



Mounting box

Mounting box and outrigger arm

Surface washers with **G ½ and G ⅜** connecting threads
with LED or for fluorescent lamps, discharge lamps and halogen lamps

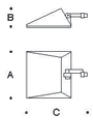
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
77 769 dimmable 1-10 V · 1 m connecting cable 5 x 1 □
88 405 · 88 506 with electronic ballast · 88 405 with electronic ballast for 26 · 32 · 42 watts
88 406 for lamp length 74.9 mm
1 m connecting cable 3 x 1 □

You can find luminaires for operating with alternating
and direct current in the table under AC / DC.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Surface washers with G ½ and G ⅜ · ISO 228 connecting threads can
be connected using customer's matching threaded holes or accessories
as shown on Pages 532 and 533.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

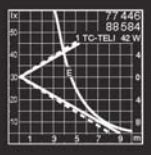


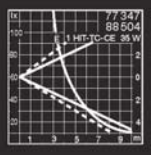
Surface washers with G ½ · G ⅜ connecting threads

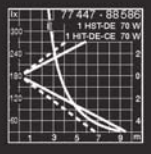
	Lamp		Base	Lumen	EEC	A	B	C	Thread	AC/DC
77 766	LED	10.5 W	–	1200	A^{++}	150	80	250	G ⅜	✔
77 769	LED	25.3 W	–	2880	A^{+}	260	105	340	G ½	–
88 405	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	260	105	340	G ½	✔
88 506	1 HIT-TC-CE	20 W	GU 6.5	1700	A^{+}-A	150	80	250	G ⅜	–
88 407	1 HIT-TC-CE	35 W	G 8.5	4000	A^{+}-A	260	105	340	G ½	–
88 409	1 HI/HST-DE	70 W	RX7s	7000	A^{+}-A	260	105	340	G ½	–
88 403	1 QT 14	75 W	G 9	–	C-E	115	60	200	G ⅜	–
88 406	1 QT-DE 12	150 W	R7s	2250	A^{++}-E	150	80	250	G ⅜	–
88 408	1 QT-DE 12	300 W	R7s	5000	A^{++}-E	260	105	340	G ⅜	–

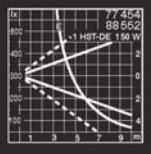
Floodlights
for fluorescent lamps, discharge lamps and halogen lamps

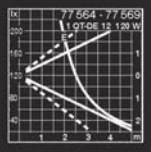
Floodlights with symmetrical wide beam or flat beam light distribution. For information about the relevant light outputs and half beam angles, please refer to the table.
Wherever high degrees of illuminance have to be available quickly, e.g. for alarm, safety or property illumination, we recommend floodlights from this series for halogen lamps. With a view towards long operating times and the uniform illumination of surfaces and façades, floodlights for fluorescent and discharge lamps are suitable.
In standard and garden architecture, many lighting situations require a special mounting solution. For these varying requirements, we can supply this series of floodlights with different mounting options.
Floodlights with G½ connecting thread can be bolted to customer-provided threaded holes in accordance with ISO 228 or to BEGA accessories.
For technical data concerning accessories, see Pages 532 and 533.
You can find shields and louvres to restrict the amount of glare as well as coloured glasses for coloured light as accessories in the table.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

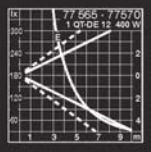


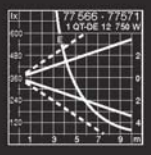


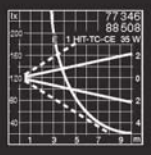


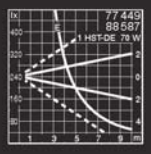


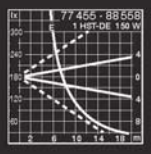












Floodlights optionally with
• **Mounting box**
• **G ½ connecting thread**
with **wide beam** or **flat beam** light distribution.
for fluorescent lamps, discharge lamps and halogen lamps

Floodlights with mounting box · Protection class IP 65
Floodlights with G ½ connecting thread · Protection class IP 67
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
77 347 · 77 346 · 88 504 · 88 508 with electronic ballast
77 446 · 88 584 with electronic ballast for 26 · 32 · 42 watts

Floodlights with ø 100 · 110 mm mounting box
with 2.5□ connection terminals
Floodlights with G ½ ISO 228 connecting thread
and 1 m connecting cable 3 x 1□

The following accessories are available for these luminaires:
• Coloured glasses in the colours green, blue or yellow
• Louvres
• Shields
Accessories may be combined or used individually.
They must be ordered separately.
A combination of shield and louvre can only be supplied made to order.

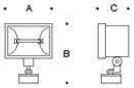
77 446 · 88 584 are suitable for operating with alternating and direct current (AC/DC).

Floodlights with G ½ · ISO 228 connecting thread can be connected using customer's matching threaded holes or accessories as shown on Pages 532 to 533.

Luminaire colour optionally graphite, white or silver
Graphite – Article number
White – Article number + **W**
Silver – Article number + **A**


Mounting box


G ½ connecting thread

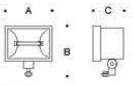


Floodlights with mounting box · wide beam

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories				
77 446	1 TC-TELI	42 W	GX 24 q-3/4	3200	A - B	99/106°	225	265	145	**70 218**	**70 219**	**70 220**	**70 618**	**70 335**
77 347	1 HIT-TC-CE	35 W	G 8.5	4000	A^{+} - A	55/97°	160	205	105	**70 187**	**70 188**	**70 189**	**70 600**	**70 235**
77 447	1 HI/HST-DE	70 W	RX7s	7000	A^{+} - A	56/88°	225	265	145	**70 218**	**70 219**	**70 220**	**70 618**	**70 335**
77 454	1 HI/HST-DE	150 W	RX7s	15 000	A^{+} - A	40/96°	280	310	170	**70 148**	**70 149**	**70 150**	**70 656**	**70 233**
77 564	1 QT-DE 12	120 W	R7s	2250	A^{++} - E	70/101°	160	205	105	–	–	–	**70 600**	**70 235**
77 565	1 QT-DE 12	400 W	R7s	9000	A^{++} - E	55/95°	225	265	145	–	–	–	**70 618**	**70 335**
77 566	1 QT-DE 12	750 W	R7s	16 500	A^{++} - E	57/90°	280	310	170	–	–	–	**70 656**	**70 233**

Floodlights with mounting box · flat beam

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories				
77 346	1 HIT-TC-CE	35 W	G 8.5	3700	A^{+} - A	26/98°	160	205	105	**70 187**	**70 188**	**70 189**	**70 600**	**70 235**
77 449	1 HI/HST-DE	70 W	RX7s	7000	A^{+} - A	24/91°	225	265	145	**70 218**	**70 219**	**70 220**	**70 618**	**70 335**
77 455	1 HI/HST-DE	150 W	RX7s	15 000	A^{+} - A	20/96°	280	310	170	**70 148**	**70 149**	**70 150**	**70 656**	**70 233**



Floodlights with G ½ connecting thread · wide beam

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories				
88 584	1 TC-TELI	42 W	GX 24 q-3/4	3200	A - B	99/106°	225	225	145	**70 218**	**70 219**	**70 220**	**70 618**	**70 335**
88 504	1 HIT-TC-CE	35 W	G 8.5	4000	A^{+} - A	51/97°	160	170	105	**70 187**	**70 188**	**70 189**	**70 600**	**70 235**
88 586	1 HI/HST-DE	70 W	RX7s	7000	A^{+} - A	56/88°	225	225	145	**70 218**	**70 219**	**70 220**	**70 618**	**70 335**
88 552	1 HI/HST-DE	150 W	RX7s	15 000	A^{+} - A	40/96°	280	260	170	**70 148**	**70 149**	**70 150**	**70 656**	**70 233**
77 569	1 QT-DE 12	120 W	R7s	2250	A^{++} - E	70/101°	160	170	105	–	–	–	**70 600**	**70 235**
77 570	1 QT-DE 12	400 W	R7s	9000	A^{++} - E	56/95°	225	225	145	–	–	–	**70 618**	**70 335**
77 571	1 QT-DE 12	750 W	R7s	16 500	A^{++} - E	57/90°	280	260	170	–	–	–	**70 656**	**70 233**

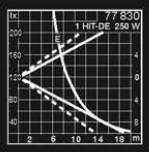
Floodlights with G ½ connecting thread · flat beam

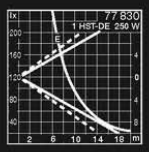
	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories				
88 508	1 HIT-TC-CE	35 W	G 8.5	4000	A^{+} - A	25/97°	160	170	105	**70 187**	**70 188**	**70 189**	**70 600**	**70 235**
88 587	1 HI/HST-DE	70 W	RX7s	7000	A^{+} - A	23/90°	225	225	145	**70 218**	**70 219**	**70 220**	**70 618**	**70 335**
88 558	1 HI/HST-DE	150 W	RX7s	15 000	A^{+} - A	20/96°	280	260	170	**70 148**	**70 149**	**70 150**	**70 656**	**70 233**

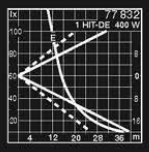
Coloured glasses Louvre Shield β = half beam angle

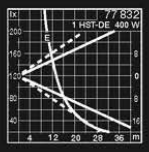
High-performance floodlights
with symmetrical wide beam or flat beam light distribution
for discharge lamps

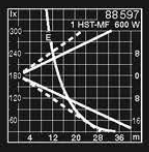
High-performance floodlights for discharge lamps with symmetrical wide beam or flat beam light distribution. For information about the relevant light outputs and half beam angles, please refer to the table.
A separate control gear box is required for operating the high-performance floodlights 88 597 · 88 589 · 88 599 · 88 594 · 88 588 · 88 598. For matching control gear boxes and cross beams, please refer to the table.
Three sizes with different light outputs are available for the various dimensions at the installation site.
To restrict the amount of glare, it is possible to insert additional louvres or to add a shield to the floodlight. We can offer an extensive range of perfect accessories for installing BEGA high-performance floodlights.
For technical data concerning accessories, see Pages 534 to 537.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

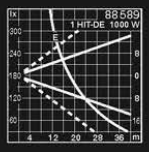


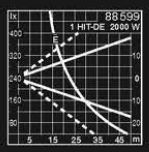


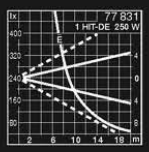


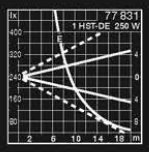


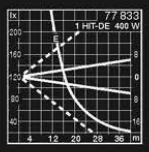


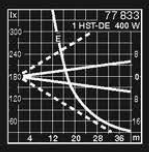


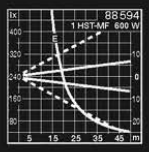


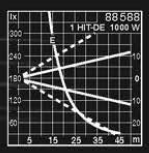


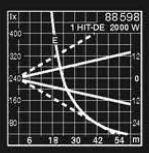


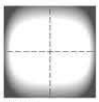




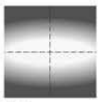








Wide beam



Flat beam

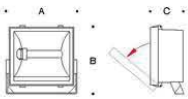
High-performance floodlights with **wide beam** or **flat beam** light distribution
for discharge lamps up to 2000 W
• 250 W · 400 W with integrated operating devices
• 600 W · 1000 W · 2000 W without operating devices
separate control gear box/cross beam required
Technical data control gear boxes Page 537 · Cross beams with operating device Page 534

Protection class IP 67
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium

Mounting bracket with
1 central hole Ø 22 mm and 2 holes Ø 9 mm · Distance apart 80 mm
1 screw cable gland for connecting cable 3 x 1.5□
2.5□ connection terminals

The following accessories are available for these luminaires:
• Louvres
• Shields
• Cross beams
• Control gear boxes
Accessories must be ordered separately.
You can find further accessories for the floodlights on Pages 534 to 537.

Luminaire colour graphite



High-performance floodlights · wide beam

	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories			
77 830	1 HIT-DE	250 W	Fc 2	22 000	A^{+}-A	55/76°	300	400	200	**70 617**	**70 333**	**70 391**	–
	1 HST-DE	250 W	Fc 2	28 000		56/73°	300	400	200	**70 617**	**70 333**	**70 391**	–
77 832	1 HIT-DE	400 W	Fc 2	36 000	A^{+}-A	51/83°	430	430	200	**70 653**	**70 419**	**70 391**	–
	1 HST-DE	400 W	Fc 2	49 000		49/80°	430	430	200	**70 653**	**70 419**	**70 391**	–
88 597	1 HST-MF	600 W	E 40	90 000	A^{++}-A^{+}	51/81°	520	550	230	**70 655**	**70 420**	**70 498***	**70 212**
88 589	1 HIT-DE	1000 W	K12s-36	90 000	A^{+}-A	39/81°	520	550	230	**70 655**	**70 420**	**70 391**	**70 207**
88 599	1 HIT-DE	2000 W	K12s-36	222 000	A^{+}-A	40/82°	520	550	230	**70 655**	**70 420**	**70 391**	**70 202**

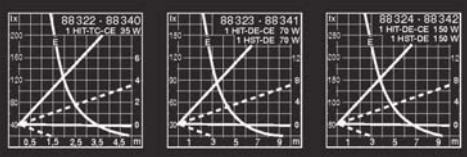
High-performance floodlights · flat beam

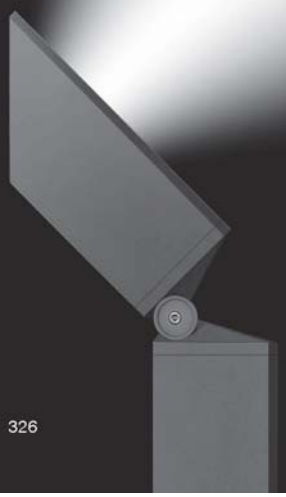
	Lamp		Base	Lumen	EEC	β	A	B	C	Accessories			
77 831	1 HIT-DE	250 W	Fc 2	22 000	A^{+}-A	25/72°	300	400	200	**70 617**	**70 333**	**70 391**	–
	1 HST-DE	250 W	Fc 2	28 000		26/67°	300	400	200	**70 617**	**70 333**	**70 391**	–
77 833	1 HIT-DE	400 W	Fc 2	36 000	A^{+}-A	17/82°	430	430	200	**70 653**	**70 419**	**70 391**	–
	1 HST-DE	400 W	Fc 2	49 000		16/78°	430	430	200	**70 653**	**70 419**	**70 391**	–
88 594	1 HST-MF	600 W	E 40	90 000	A^{++}-A^{+}	16/78°	520	550	230	**70 655**	**70 420**	**70 498***	**70 212**
88 588	1 HIT-DE	1000 W	K12s-36	90 000	A^{+}-A	25/79°	520	550	230	**70 655**	**70 420**	**70 391**	**70 207**
88 598	1 HIT-DE	2000 W	K12s-36	222 000	A^{+}-A	25/81°	520	550	230	**70 655**	**70 420**	**70 391**	**70 202**

Louvre · Shield · Cross beam · Control gear box · β = half beam angle · * Cross beam with operating device

Surface washers with different mounting heights for discharge lamps

Surface washers with asymmetrical light distribution for discharge lamps 35 · 70 · 150 watts.
For lighting and illuminating façades, parts of buildings or structural details. For all areas in which large-area light is needed and where conventional floodlights are not suitable. We can supply these luminaires in two sizes and in different heights for the differing dimensions of the installation site. Surface washers with heights of 400 mm and 550 mm are also suitable for installation on ceilings and walls. You can find bollards with the same design features but with different light distribution on Page 390.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



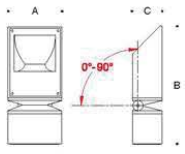


Surface washers for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Connection box with connection terminals 3 x 4²
88 341 · 88 342 door and connection box 70 632
88 322 · 88 340 with electronic ballast
Infinitely adjustable from 0° to 90°

These BEGA surface washers are bolted with a mounting plate onto a foundation provided by the customer or on an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaires.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Surface washers · **Height 400 · 550 mm**

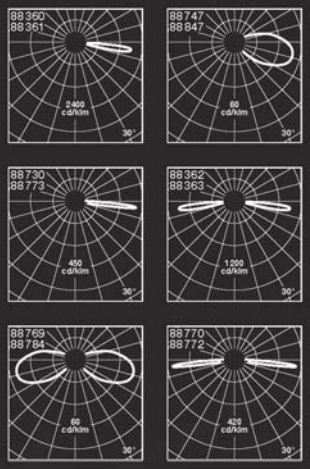
	Lamp	Base	Lumen	EEC	A	B	C	Anch. unit
88 322	1 HIT-TC-CE 35 W	G 8.5	4000	A+-A	160	400	110	**70 894**
88 323	1 HI/HST-DE 70 W	RX7s	7000	A+-A	250	550	140	**70 895**
88 324	1 HI/HST-DE 150 W	RX7s	15 000	A+-A	250	550	140	**70 895**

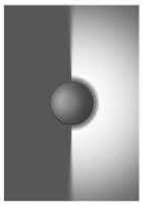
Surface washers · **Height 800 · 1100 mm**

	Lamp	Base	Lumen	EEC	A	B	C	Anch. unit
88 340	1 HIT-TC-CE 35 W	G 8.5	4000	A+-A	160	800	110	**70 894**
88 341	1 HI/HST-DE 70 W	RX7s	7000	A+-A	250	1100	140	**70 895**
88 342	1 HI/HST-DE 150 W	RX7s	15 000	A+-A	250	1100	140	**70 895**

On-ground luminaires with 180° or 360° light emission with LED or for fluorescent lamps, discharge lamps and halogen lamps

A group of luminaires for illuminating ground surfaces from an extremely low mounting height. These luminaires are particularly suitable for the wide-area illumination of ground surfaces or for orientation, marking and visual guidance in private and public areas.
Optionally available with 180° light emission on one side or with 360° rotationally symmetrical light emission.
Luminaires with LED or for halogen and discharge lamps have a narrow beam light distribution. Luminaires for fluorescent lamps have a uniform wide beam light distribution.
We can supply these luminaires in two sizes for the differing dimensions of the installation site.
In luminaires with halogen and discharge lamps, dichroic colour effect filters can be used to provide coloured light.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.





180°

360°

Dichroic colour effect filters optionally allow green or blue light.

On-ground luminaires with **180°** or **360°** light emission
with LED or for fluorescent lamps, discharge lamps and halogen lamps
Protection class IP67
Cast aluminium, aluminium and stainless steel
Optical cylindrical lens made of crystal glass
2 cable screw glands for Ø9-15mm connecting cable · 3x2.5□ connection terminal
Luminaires for fluorescent lamps with electronic ballast

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA on-ground luminaires are bolted with a mounting plate to a foundation provided by the customer or to an anchorage unit made of hot-dip galvanised steel. The mounting system can be used to align the luminaires.
Anchorage units are accessories and must be ordered separately. For technical data about anchorage units, see Page 528

LED colour temperature optionally 3000K or 4000K
3000K – Article number
4000K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

On-ground luminaires · **180°** light emission

	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit		
88360	LED	13.0 W	–	1415	A+	170	190	✔	**70895**		
88361	LED	25.3 W	–	2960	A++	230	230	–	**70896**		
88747	1 TC-TEL	13 W	GX24q-1	900	A-B	170	190	✔	**70895**		
88847	1 TC-TELI	26 W	GX24q-3	1800	A-B	230	230	✔	**70896**		
88730	1 QT 18	75 W	B15d	–	A-E	170	190	–	**70895**	**70269**	**70270**
88773	1 HIT-CE	35 W	G12	4000	A+-A	230	230	–	**70896**	**70269**	**70270**

On-ground luminaires · **360°** light emission

	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit		
88362	LED	13.0 W	–	1415	A+	170	190	✔	**70895**		
88363	LED	25.3 W	–	2960	A++	230	230	–	**70896**		
88769	1 TC-TEL	13 W	GX24q-1	900	A-B	170	190	✔	**70895**		
88784	1 TC-TELI	26 W	GX24q-3	1800	A-B	230	230	✔	**70896**		
88770	1 QT 18	75 W	B15d	–	A-E	170	190	–	**70895**	**70269**	**70270**
88772	1 HIT-CE	35 W	G12	4000	A+-A	230	230	–	**70896**	**70269**	**70270**

Colour effect filter

On-ground luminaires
optionally for the illumination of horizontal or vertical surfaces
with LED or for discharge lamps

On-ground luminaires for two different lighting situations.
These luminaires are optionally available for illuminating **horizontal** or **vertical** surfaces.

• Luminaires for illuminating horizontal surfaces

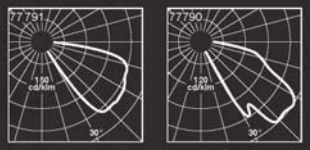
For the glare-free illumination of ground surfaces from an extremely low mounting height. The luminaires are characterised by a high degree of illuminance on the surface to be illuminated. The light distribution is particularly suitable for providing spatial illumination in squares, entrances and wide footpaths in private and public areas.

• Luminaires for illuminating vertical surfaces

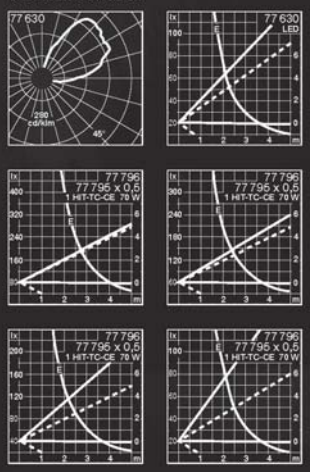
For the wide-area illumination of walls, façades and structures, or for use in garden architecture. Conventional floodlights are often not desired because of their design. Nor do such units always need to be installed in the ground, or need to be walkable or drive-over.
For these applications, we have developed an encapsulated surface washer.
With LED, these luminaires have an asymmetrical light distribution.
In the version for discharge lamps, the light distribution on the surface to be illuminated can be adjusted using an internal mechanical adjusting system.

These are robust and compact illumination devices for permanent installation on a foundation or on a BEGA anchorage unit.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

Horizontal surfaces

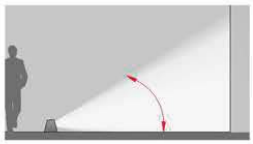


Vertical surfaces



On-ground luminaires 77 791 · 77 790
for **horizontal** surfaces

On-ground luminaire 77 630
for **vertical** surfaces



On-ground luminaires 77 795 · 77 796
4-level adjustable light distribution
for **vertical** surfaces

On-ground luminaires
for the illumination of **horizontal** or **vertical** surfaces
with LED or for discharge lamps

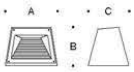
Protection class IP 67
Cast aluminium, aluminium and stainless steel · Safety glass
Reflector made of pure anodised aluminium
77 791 · 77 630 DALI controllable
Luminaires for discharge lamps with electronic ballast
2 cable screw glands for Ø 9 - 15 mm connecting cable
3 x 2.5□ connection terminal

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

These luminaires are bolted with a mounting plate onto a foundation provided
by the customer or onto an anchorage unit made of hot-dip galvanised steel.
The BEGA mounting system can be used to adjust the luminaire.
For technical data about anchorage units, see Page 528

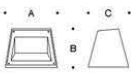
LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



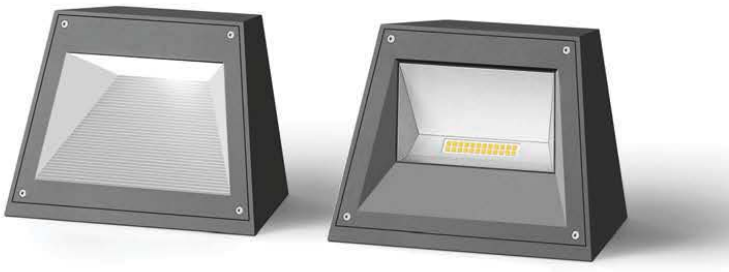
On-ground luminaires · for the illumination of **horizontal** surfaces

	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
77 791	LED	13.6 W	–	1080	A	230	170	180	✔	**70 894**
77 790	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	230	170	180	✔	**70 894**



On-ground luminaires · for the illumination of **vertical** surfaces

	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
77 630	LED	25.3 W	–	2950	A+	230	170	180	✔	**70 894**
77 795	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	230	170	180	–	**70 894**
77 796	1 HIT-TC-CE	70 W	G 8.5	7700	A+-A	230	170	180	–	**70 894**



BEGA light design elements with LED or for discharge lamps

Light design elements for structuring and dividing up areas and surfaces in private as well as in public areas. Up to now, the distinction between paths and squares was effected by using different materials, colours, paving dimensions and joint patterns. These design options can now grow into a third dimension. BEGA light design elements are like illuminated sculptures for the demanding design of open areas or for paths and roof terraces.
Unmistakable, robust luminaires made of aluminium and cast aluminium for the glare-free illumination of ground surfaces from a low mounting height.
Impressive light design elements that also invite guests to rest and relax – by day and by night.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

BEGA light design elements · **shielded** light
with LED or for discharge lamps

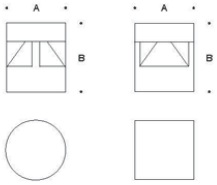
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Optical cylindrical lens made of crystal glass
Connection box with connection terminals 5 x 4□

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

With mounting plate made of hot-dip galvanised steel for bolting onto a foundation.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

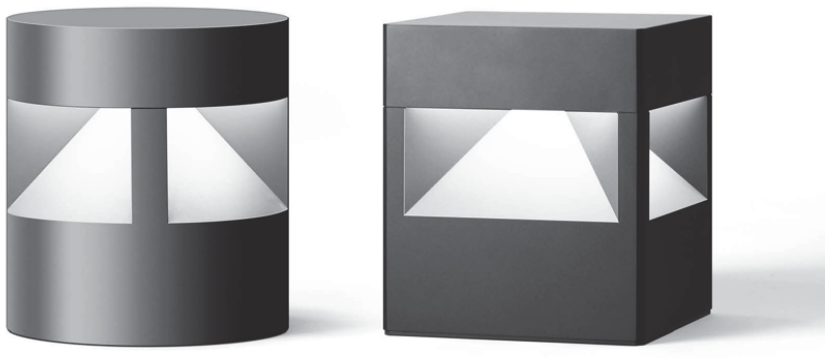


Light design elements · **round**

	Lamp		Base	Lumen	EEC	A	B	AC/DC
77 744	LED	25.2 W	–	2680	A+	400	450	✔
77 745	1 HIT-CE	35 W	G 12	4000	A+-A	400	450	–

Light design elements · **square**

	Lamp		Base	Lumen	EEC	A	B	AC/DC
77 786	LED	25.2 W	–	2680	A+	400	460	✔
77 785	1 HIT-CE	35 W	G 12	4000	A+-A	400	460	–



BEGA light design elements for unshielded light with LED or for fluorescent lamps

Unshielded light design elements for structuring and dividing up surfaced and non-surfaced open spaces. Equipping the luminaires with LED is new in this series.
Despite having the same lumen ratings, the luminous efficiency of LED is significantly higher than that of conventional lamps.
These light design elements are suitable for the demanding open space design of paths, terraces and roof terraces, mainly in private areas that are protected from vandalism.
Impressive light design elements that invite guests to rest and relax, like illuminated sculptures – by day and by night.
You can find matching wall luminaires on Page 112, and light design elements on Page 446.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

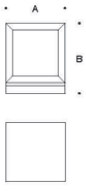
BEGA light design elements · **unshielded** light
with LED or for fluorescent lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Synthetic cover, white
77 764 dimmable 1-10 V
77 765 with electronic ballast for 26 · 32 · 42 watts
Connection box with connection terminals 5 x 4□

You can find luminaires for operating with alternating and direct current in the table under AC / DC.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



	Lamp		Base	Lumen	EEC	A	B	AC/DC
77 764	LED	16.8 W	–	1790	A+	400	460	✔
77 765	1 TC-TELI	42 W	GX 24q-3/4	3200	A - B	400	460	✔

LED on-ground luminaires with flat beam light distribution for illuminating ground surfaces

Luminaires for the flat beam illumination of ground surfaces on one side from a low mounting height. The light distribution is particularly suitable for illuminating paths, entrances and square-like surfaces in private and public areas.
Luminaires with a robust design made of cast aluminium, characterised by cost-effective and durable LED technology. On-ground luminaires with efficient lighting technology, offering many new options in the design of open spaces thanks to their low mounting height.
You can find luminaires with the same design features, but as light design elements, on Page 338. These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

Flat beam light distribution

LED on-ground luminaires
with **flat beam** light distribution

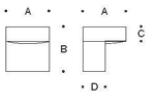
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Crystal glass with optical structure
Connection box with terminal block 3 x 4□

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA on-ground luminaires are bolted with a mounting plate to a foundation provided by the customer or to an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaires.
Anchorage units are accessories and must be ordered separately.
For the technical data of anchorage units, see Page 528.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



	Lamp		Lumen	EEC	A	B	C	D	AC/DC	Anch. unit
77 735	LED	15 W	1200	A	200	210	60	125	✔	**70 894**

BEGA light design elements with flat beam light distribution with LED or for discharge lamps

BEGA light design elements are luminaires for structuring and dividing up areas and surfaces in the public as well as private sectors. Up to now, paths and squares were differentiated through different materials, colours, stone dimensions and joint patterns. These design options can now grow into a third dimension.
Distinctive and robust luminaires made of cast aluminium and aluminium with flat beam light distribution on one side for illuminating surfaces or paths from their side boundaries. Impressive light design elements that also invite guests to rest and relax – by day and by night.
Equipping the luminaires with LED is new in this series. Despite having the same lumen ratings, the luminous efficiency of LED is significantly higher compared to conventional lamps.
You can find luminaires with the same design features, but as on-ground luminaires, on Page 336.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules.
Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

Flat beam light distribution

BEGA light design elements
with **flat beam** light distribution
with LED or for discharge lamps

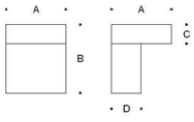
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
77 754 dimmable 1-10 V
Connection box with connection terminals 5 x 4□

You can find luminaires for operating with alternating and direct current in the table under AC / DC.

With mounting plate made of hot-dip galvanised steel for bolting onto a foundation.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
77 754	LED	16.8 W	–	1790	A+	400 x 400	460	120	240	✔
77 755	1 HIT-CE	35 W	G12	4000	A+-A	400 x 400	460	120	240	–

BEGA light design elements with LED or for fluorescent lamps

BEGA light design elements are luminaires for structuring and dividing up areas and surfaces in the public as well as private sectors. Up to now, paths and squares were differentiated through different materials, colours, stone dimensions and joint patterns. These design options can now grow into a third dimension. Light design elements for the demanding design of open areas or for paths and roof terraces.
We can supply the luminaires on this double page optionally in lengths of 1800 mm or 500 mm.
The light design elements distribute the light below the horizontal plane with symmetrical wide beam light distribution.
Unmistakable, robust luminaires made of aluminium and cast aluminium for the glare-free illumination of ground surfaces from a low mounting height.
Impressive light design elements that also invite guests to rest and relax – by day and by night.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules.
Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

77 731 · 77 751

77 730 · 77 750

BEGA light design elements
with LED or for fluorescent lamps

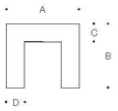
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass, frosted
Luminaires with LED · dimmable 1-10 V
Luminaires for fluorescent lamps with electronic ballast
Connection box with connection terminals 5 x 4□

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

With 2 mounting plates for bolting onto a foundation.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

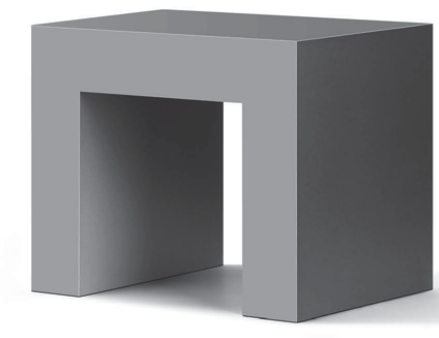


BEGA light design elements · "Stool"

	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
77 731	LED	8.4 W	—	820	A+	500 x 400	460	120	120	✔
77 751	1 TC-TELI	18 W	GX 24q-2	1200	A-B	500 x 400	460	120	120	✔

BEGA light design elements · "Bench"

	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
77 730	LED	16.8 W	—	1640	A+	1800 x 400	460	120	120	✔
77 750	2 TC-TELI	18 W	GX 24q-2	2400	A-B	1800 x 400	460	120	120	✔



BEGA LED system bollards

On Pages 342 to 351, you can find an innovative modular LED bollard concept in the form of the BEGA LED system bollards. Often it is desirable for a lighting system to have luminaires of the same type and lighting technology, but with different heights or diameters. Auxiliary components such as integral floodlights, motion sensors and sockets can be meaningful additions. Separate additional installations are not needed, thus lowering the costs.
BEGA LED system bollards can be equipped on request with emergency lighting batteries for one or three hours of emergency lighting operation.
Simply order the bollard head and also the required bollard tube. Both modules can be joined together easily and quickly during the installation.
BEGA LED system bollards will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

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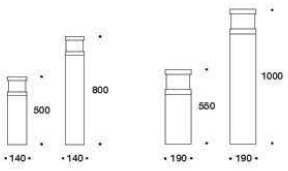
For BEGA system bollards, you must select the luminaire tube required for the bollard head. Both modules can be joined together easily and quickly during the installation.

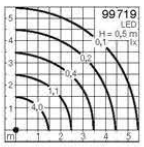
BEGA LED system bollards · unshielded
Light emission 360°

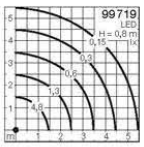
For this new modular luminaire concept, you must select the bollard tube required for the bollard head. Tubes of different diameters and heights and with integrated auxiliary components can be found in the table.
Tubes with the following components are available:

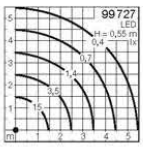
- With integrated adjustable LED floodlight
- With two integrated safety sockets
- With integrated passive infrared motion sensor
- With integrated single emergency lighting battery for one or three hours

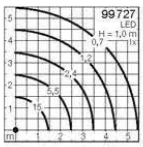
Simply order the bollard head and also the required bollard tube. Both modules can be joined together easily and quickly during the installation.
BEGA LED system bollards will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets at www.bega.com.











With adjustable LED floodlight 19.3 W · 2160 lm

With door, lockable, and 2 safety sockets

With door and passive infrared motion sensor

With door and emergency lighting 1 h · 3 h Single battery

BEGA LED system bollards · unshielded
Light emission 360°

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Synthetic cylinder, white

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

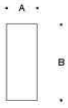
BEGA LED system bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data of the anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Bollard heads · unshielded · 360°

			Lumen	EEC	A	B	AC/DC
99 719	LED	9.0 W	915	A+	140	140	✔
99 727	LED	24.3 W	2525	A+	190	185	✔



Bollard tubes for luminaire heights 500 · 550 mm

	Integrated components	Connection	Door	A	B	Anch. unit
99 614	–	Terminals 3 x 4□	–	140	360	**70 894**
99 615	–	Terminals 3 x 4□	–	190	365	**70 895**

Bollard tubes for luminaire heights 800 · 1000 mm

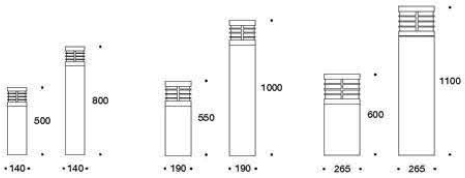
	Integrated components	With connection box	Door	A	B	Anch. unit
99 620	–	Terminals 3 x 4□	–	140	660	**70 894**
99 622	–	70 632	✔	190	815	**70 896**
99 644	1 LED floodlight 19.3 W · 2160 lm	70 632	✔	190	815	**70 896**
99 626	2 safety sockets	70 869	✔	190	815	**70 896**
99 658	Passive infrared motion sensor	70 632	✔	190	815	**70 896**
99 635	Single emergency lighting battery 4 W · 1 h	70 870	✔	190	815	**70 896**
99 663	Single emergency lighting battery 4 W · 3 h	70 871	✔	190	815	**70 896**

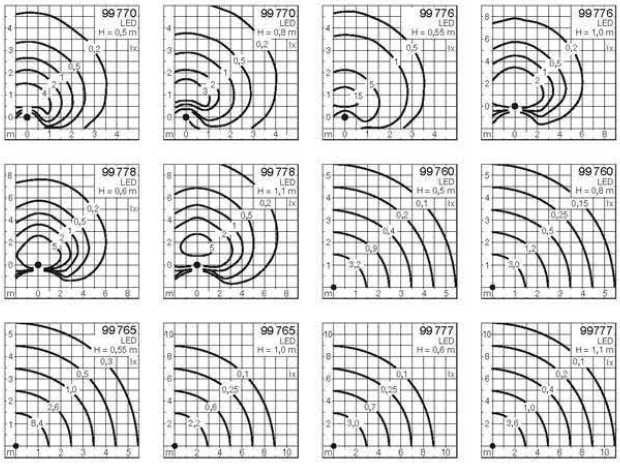
BEGA LED system bollards · unshielded with safety guard
Light emission 180° or 360°

For this new modular luminaire concept, you must select the bollard tube required for the bollard head. Tubes of different diameters and heights and with integrated auxiliary components can be found in the table.
Tubes with the following components are available:

- With integrated adjustable LED floodlight
- With two integrated safety sockets
- With integrated passive infrared motion sensor
- With integrated single emergency lighting battery for one or three hours

Simply order the bollard head and also the required bollard tube. Both modules can be joined together easily and quickly during the installation.
BEGA LED system bollards will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets at www.bega.com.





With adjustable LED floodlight 19.3 W · 2160 lm

With door, lockable, and 2 safety sockets

With door and passive infrared motion sensor

With door and emergency lighting 1 h · 3 h Single battery

BEGA LED system bollards
unshielded with safety guard
Light emission **180°** or **360°**

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Crystal glass, inside white

BEGA LED system bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire. Anchorage units are accessories and must be ordered separately. For technical data of the anchorage units and connection boxes, see Pages 528 and 529.

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

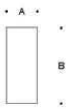
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Bollard heads · unshielded with safety guard · 180°

			Lumen	EEC	A	B	AC/DC
99 770	LED	9.0 W	915	A+	140	140	✔
99 776	LED	24.3 W	2525	A+	190	185	✔
99 778	LED	29.4 W	3950	A - B	265	225	✔

Bollard heads · unshielded with safety guard · 360°

			Lumen	EEC	A	B	AC/DC
99 760	LED	9.0 W	915	A+	140	140	✔
99 765	LED	24.3 W	2525	A+	190	185	✔
99 777	LED	29.4 W	3950	A - B	265	225	✔



Bollard tubes for luminaire heights 500 · 550 · 600 mm

	Integrated components	Connection	Door	A	B	Anch. unit
99 614	–	Terminals 3 x 4□	–	140	360	**70 894**
99 615	–	Terminals 3 x 4□	–	190	365	**70 895**
99 619	–	Terminals 3 x 4□	–	265	375	**70 896**

Bollard tubes for luminaire heights 800 · 1000 · 1100 mm

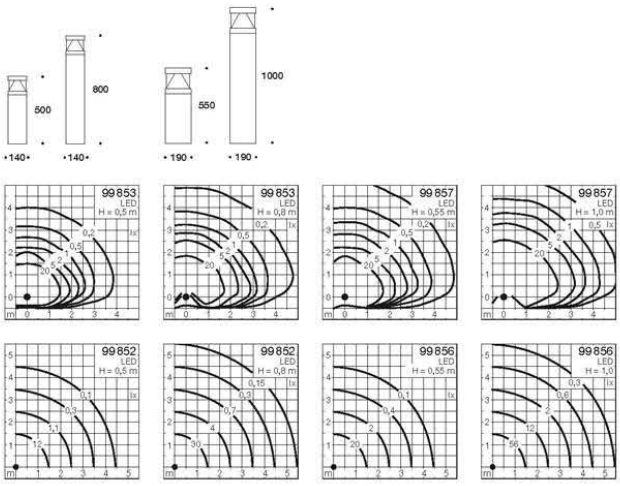
	Integrated components	With connection box	Door	A	B	Anch. unit
99 620	–	Terminals 3 x 4□	–	140	660	**70 894**
99 622	–	70 632	✔	190	815	**70 896**
99 624	–	70 632	✔	265	875	**70 896**
99 644	1 LED floodlight 19.3 W · 2160 lm	70 632	✔	190	815	**70 896**
99 626	2 safety sockets	70 869	✔	190	815	**70 896**
99 627	2 safety sockets	70 869	✔	265	875	**70 896**
99 658	Passive infrared motion sensor	70 632	✔	190	815	**70 896**
99 659	Passive infrared motion sensor	70 632	✔	265	875	**70 896**
99 635	Single emergency lighting battery 4 W · 1 h	70 870	✔	190	815	**70 896**
99 663	Single emergency lighting battery 4 W · 3 h	70 871	✔	190	815	**70 896**
99 636	Single emergency lighting battery 4 W · 1 h	70 870	✔	265	875	**70 896**
99 666	Single emergency lighting battery 4 W · 3 h	70 871	✔	265	875	**70 896**

BEGA LED system bollards · shielded with reflector
Light emission 180° or 360°

For this new modular luminaire concept, you must select the bollard tube required for the bollard head. Tubes of different diameters and heights and with integrated auxiliary components can be found in the table.
Tubes with the following components are available:

- With integrated adjustable LED floodlight
- With two integrated safety sockets
- With integrated passive infrared motion sensor
- With integrated single emergency lighting battery for one or three hours

Simply order the bollard head and also the required bollard tube. Both modules can be joined together easily and quickly during the installation.
BEGA LED system bollards will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets at www.bega.com.



With adjustable LED floodlight 19.3 W · 2160 lm

With door, lockable, and 2 safety sockets

With door and passive infrared motion sensor

With door and emergency lighting 1 h · 3 h Single battery

BEGA LED system bollards · shielded with reflector
Light emission **180°** or **360°**

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Borosilicate glass

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA LED system bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data of the anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

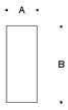
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Bollard heads · shielded with reflector · 180°

			Lumen	EEC	A	B	AC/DC
99 853	LED	9.0 W	915	A+	140	140	✔
99 857	LED	24.3 W	2525	A+	190	185	✔

Bollard heads · shielded with reflector · 360°

			Lumen	EEC	A	B	AC/DC
99 852	LED	9.0 W	915	A+	140	140	✔
99 856	LED	24.3 W	2525	A+	190	185	✔



Bollard tubes for luminaire heights 500 · 550 mm

	Integrated components	Connection	Door	A	B	Anch. unit
99 614	–	Terminals 3 x 4□	–	140	360	**70 894**
99 615	–	Terminals 3 x 4□	–	190	365	**70 895**

Bollard tubes for luminaire heights 800 · 1000 mm

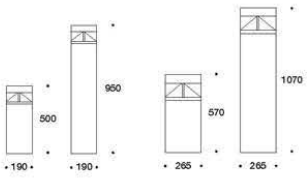
	Integrated components	With connection box	Door	A	B	Anch. unit
99 620	–	Terminals 3 x 4□	–	140	660	**70 894**
99 622	–	70 632	✔	190	815	**70 896**
99 644	1 LED floodlight 19.3 W · 2160 lm	70 632	✔	190	815	**70 896**
99 626	2 safety sockets	70 869	✔	190	815	**70 896**
99 658	Passive infrared motion sensor	70 632	✔	190	815	**70 896**
99 635	Single emergency lighting battery 4 W · 1 h	70 870	✔	190	815	**70 896**
99 663	Single emergency lighting battery 4 W · 3 h	70 871	✔	190	815	**70 896**

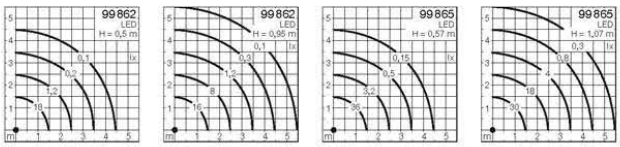
BEGA LED system bollards · shielded
Light emission 360°

For this new modular luminaire concept, you must select the bollard tube required for the bollard head. Tubes of different diameters and heights and with integrated auxiliary components can be found in the table.
Tubes with the following components are available:

- With integrated adjustable LED floodlight
- With two integrated safety sockets
- With integrated passive infrared motion sensor
- With integrated single emergency lighting battery for one or three hours

Simply order the bollard head and also the required bollard tube. Both modules can be joined together easily and quickly during the installation.
BEGA LED system bollards will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets at www.bega.com.





With adjustable LED floodlight 19.3 W · 2160 lm

With door, lockable, and 2 safety sockets

With door and passive infrared motion sensor

With door and emergency lighting 1 h · 3 h Single battery

BEGA LED system bollards · shielded
Light emission 360°

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA LED system bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data of the anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Bollard heads · shielded · 360°

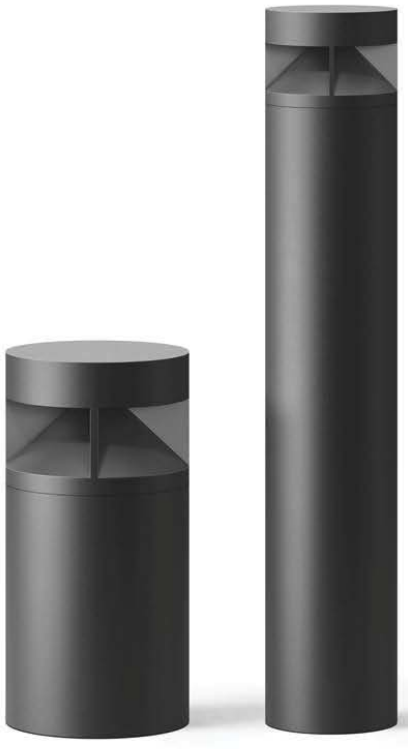
			Lumen	EEC	A	B	AC/DC
99 862	LED	24.3 W	2525	A+	190	135	✔
99 865	LED	29.4 W	3950	A++	265	195	✔

Bollard tubes for luminaire heights 500 · 625 mm

	Integrated components	Connection	Door	A	B	Anch. unit
99 615	–	With terminals 3 x 4□	–	190	365	**70 895**
99 619	–	With terminals 3 x 4□	–	265	375	**70 896**

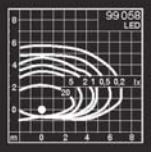
Bollard tubes for luminaire heights 950 · 1125 mm

	Integrated components	With connection box	Door	A	B	Anch. unit
99 622	–	70 632	✔	190	815	**70 896**
99 624	–	70 632	✔	265	875	**70 896**
99 644	1 LED floodlight 19.3 W · 2160 lm	70 632	✔	190	815	**70 896**
99 626	2 safety sockets	70 869	✔	190	815	**70 896**
99 627	2 safety sockets	70 869	✔	265	875	**70 896**
99 658	Passive infrared motion sensor	70 632	✔	190	815	**70 896**
99 659	Passive infrared motion sensor	70 632	✔	265	875	**70 896**
99 635	Single emergency lighting battery 4 W · 1 h	70 870	✔	190	815	**70 896**
99 663	Single emergency lighting battery 4 W · 3 h	70 871	✔	190	815	**70 896**
99 636	Single emergency lighting battery 4 W · 1 h	70 870	✔	265	875	**70 896**
99 666	Single emergency lighting battery 4 W · 3 h	70 871	✔	265	875	**70 896**



Shielded LED bollards
with flat beam light distribution on one side

Shielded LED bollards with flat beam light distribution on one side.
Luminaires that illuminate the ground surfaces directly in front of their installation site with a flat beam.
Their light distribution allows the luminaires to be spaced far apart and is particularly suitable for illuminating footpaths and squares.
We can supply these luminaires in different heights for the differing dimensions of the installation site.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



LED bollards

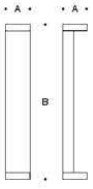
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Anti-glare safety glass · Reflector made of pure anodised aluminium
Connection box with connection terminals 5x2.5□

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For the technical data of anchorage units, see Page 528.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

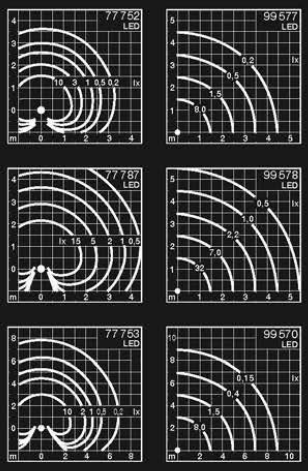
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

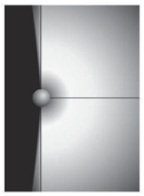


	Lamp		Lumen	EEC	A	B	AC/DC	Anch. unit
99 056	LED	19 W	2210	A+	Ø190	550	✔	**70 895**
99 058	LED	19 W	2210	A+	Ø190	1000	✔	**70 895**

LED bollards
with light emission 180° or 360°

Efficient and cost-effective LED bollards for the illumination of ground surfaces. The lighting concept of these luminaires is based on integral LED and a BEGA precision reflector module. Their product design and construction are the consistent implementation of a new technical development, resulting in luminaires of the highest lighting and structural quality that allow new illumination concepts. These luminaires are characterised by high luminous efficiency and uniform illuminance. We can supply these luminaires in three sizes for the differing dimensions of the installation site.
Their sturdy construction makes them especially suitable for areas in which considerable robustness is required.
For the illumination of footpaths, entrance areas and driveways. For private and public areas. These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.





Light emission 180°

Light emission 360°

LED bollards
with light emission **180°** or **360°**

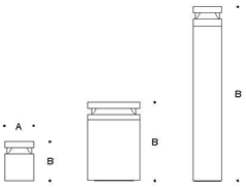
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Borosilicate glass · Reflector made of pure anodised aluminium
77 752 · 99 577 Connection box with terminal block 3 x 4□
77 787 · 77 753 · 99 578 · 99 570 Connection box 70 632

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data of the anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



LED bollards · Light emission **180°**

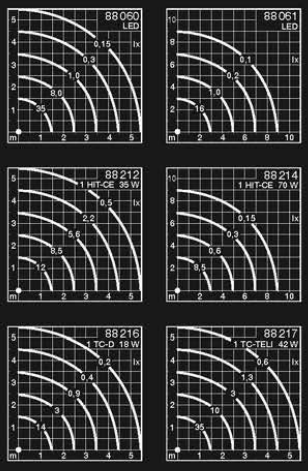
	Lamp		Lumen	EEC	A	B	AC/DC	Anch. unit
77 752	LED	9.2 W	1040	A++	165	220	✔	**70 895**
77 787	LED	8.8 W	900	A+	300	500	✔	**70 896**
77 753	LED	9.2 W	1040	A++	165	1000	✔	**70 895**

LED bollards · Light emission **360°**

	Lamp		Lumen	EEC	A	B	AC/DC	Anch. unit
99 577	LED	18.4 W	2080	A+	165	220	✔	**70 895**
99 578	LED	17.6 W	1800	A+	300	500	✔	**70 896**
99 570	LED	18.4 W	2080	A+	165	1000	✔	**70 895**

Shielded bollards made of stainless steel
with LED or for fluorescent lamps and discharge lamps

Shielded bollards with rotationally symmetrical light distribution.
Despite having the same lumen ratings, the luminous efficiency of the LED luminaires on this page is significantly higher compared to conventional lamps.
The light is directed by stainless steel reflectors onto the surface to be illuminated.
We can supply these luminaires in two sizes for the differing dimensions of the installation site. A group of bollards whose construction is determined by the material stainless steel. The enormous stability and durability of this material meet the highest standards. For the illumination of footpaths, entrance areas and driveways. For private and public areas.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



88 060 · 88 061

88 212 · 88 214

88 216 · 88 217

Bollards
with LED or for fluorescent lamps and discharge lamps

Protection class IP 65
Stainless steel · Borosilicate glass
Reflector made of stainless steel, sand-blasted
88 217 with electronic ballast for 26 · 32 · 42 watts
Connection box 70 632

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. Anchorage units are accessories and must be ordered separately. For technical data of the anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Bollards with **cone-shaped reflector**

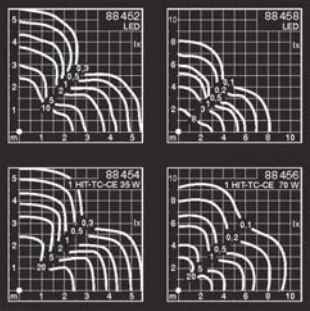
	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
88 060	LED	11.4 W	–	1320	A^+	155	950	240	✔	**70 896**
88 061	LED	24.3 W	–	2380	A^+	205	1100	300	✔	**70 897**
88 212	1 HIT-CE	35 W	G 12	4000	A^+-A	155	1000	240	–	**70 896**
88 214	1 HIT-CE	70 W	G 12	7800	A^+-A	205	1200	300	–	**70 897**

Bollards with **lamellar reflector**

	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
88 216	1 TC-D	18 W	G 24 d-2	1200	A-B	155	1000	240	–	**70 896**
88 217	1 TC-TEL	42 W	GX 24 q-3/4	3200	A-B	205	1200	300	✔	**70 897**

Shielded bollards
with LED or for discharge lamps

Shielded bollards with rotationally symmetrical wide beam light distribution.
The luminaires are operated using LED or discharge lamps. Despite having the same lumen ratings, the luminous efficiency of LED is significantly higher compared to conventional lamps.
The light of the lamps is directed straight at the surface to be illuminated by a reflector.
Luminaires with impressive light graphics and a high degree of illuminance on the ground surface.
For the illumination of squares, entrance areas and driveways. Robust luminaires that can divide up and structure outdoor spaces.
Light building elements with the same design features but with different dimensions – Page 450.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



Bollards
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires for discharge lamps with electronic ballast
Connection box 70 632

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data of the anchorage units and connection boxes, see Pages 528 and 529.

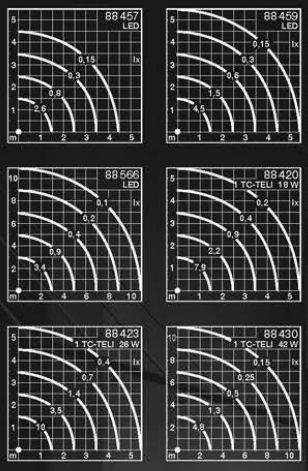
LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
88 452	LED	19.6 W	–	1550	A	165	1000	✔	**70 895**
88 458	LED	29.0 W	–	2170	A	220	1200	–	**70 896**
88 454	1 HIT-TC-CE	35 W	G8.5	4000	A^{+}-A	165	1000	–	**70 895**
88 456	1 HIT-TC-CE	70 W	G8.5	7700	A^{+}-A	220	1200	–	**70 896**

Unshielded bollards
with rotationally symmetrical light distribution
with LED or for fluorescent lamps

Unshielded bollards with rotationally symmetrical light distribution.
We can supply these luminaires in three sizes for the differing dimensions of the installation site. The luminaires are compact and feature a safety guard. Thick-walled crystal glasses with a light-diffusing texture ensure uniform light distribution. Their sturdy construction makes them particularly suitable for areas in which considerable robustness is required.
Luminaires for illuminating boundaries and providing visual guidance in private and public areas. For illumination of surfaces on all sides, for example, footpaths, driveways and squares.
Luminaires that can divide up and structure outdoor spaces.
You can find matching wall and pillar luminaires on Page 152.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



Page 152

Bollards
with LED or for fluorescent lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Crystal glass, inside white
Luminaires for fluorescent lamps with electronic ballast
88 430 for 26 · 32 · 42 watts
Connection box with connection terminals 3 x 4□

88 430 · 88 566 Door and connection box 70 632

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

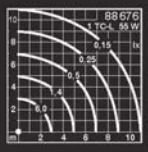
LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

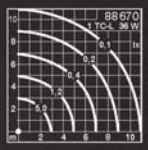
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
88 457	LED	4.2 W	–	445	A++	110	700	✔	**70 894**
88 459	LED	7.4 W	–	780	A+	140	900	✔	**70 895**
88 566	LED	25.3 W	–	2685	A+	190	1100	✔	**70 896**
88 420	1 TC-TELI	18 W	GX24q-2	1200	A-B	110	700	✔	**70 894**
88 423	1 TC-TELI	26 W	GX24q-3	1800	A-B	140	900	✔	**70 895**
88 430	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	190	1100	✔	**70 896**

Unshielded bollards
with rotationally symmetrical light distribution
for fluorescent lamps

Unshielded bollards with rotationally symmetrical light distribution. We can supply these luminaires in two sizes for the differing dimensions of the installation site.
The luminaires are operated with fluorescent lamps. An white synthetic impact-resistant cylinder ensures uniform distribution of the light.
Robust luminaires that can divide up and structure outdoor spaces. They have an orienting, guiding and demarcating function. For the illumination of footpaths, squares, gardens and driveways.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.





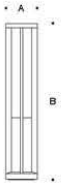
Bollards for fluorescent lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Synthetic cover, white
Electronic ballast
88 670 Connection box with connection terminals 3 x 4□
88 676 Connection box 70 632

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaires.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

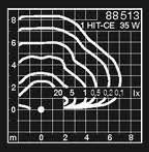
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

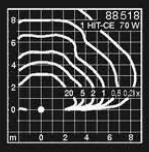


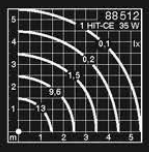
	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
88 670	1 TC-L	36 W	2 G 11	2900	A-B	160	850	✔	**70 895**
88 676	1 TC-L	55 W	2 G 11	4800	A-B	230	1100	✔	**70 896**

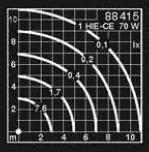
Shielded bollards with 180° or 360° light emission for discharge lamps and halogen lamps

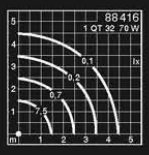
Shielded bollards with 180° light emission on one side or with 360° light emission on all sides. We can supply these luminaires in two sizes for the differing dimensions of the installation site. The luminaires are operated with discharge lamps or with halogen lamps, which are characterised by high luminous efficiency and good colour rendering.
The light of the lamp is deflected by a reflector and directed towards the surfaces to be illuminated at angles of 180° or 360°.
The sturdy construction of the luminaires makes them particularly suitable for areas in which considerable robustness is required. Luminaires for orientation and visual guidance in private and public areas.
For wide-area illumination of, for example, footpaths, driveways or squares.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

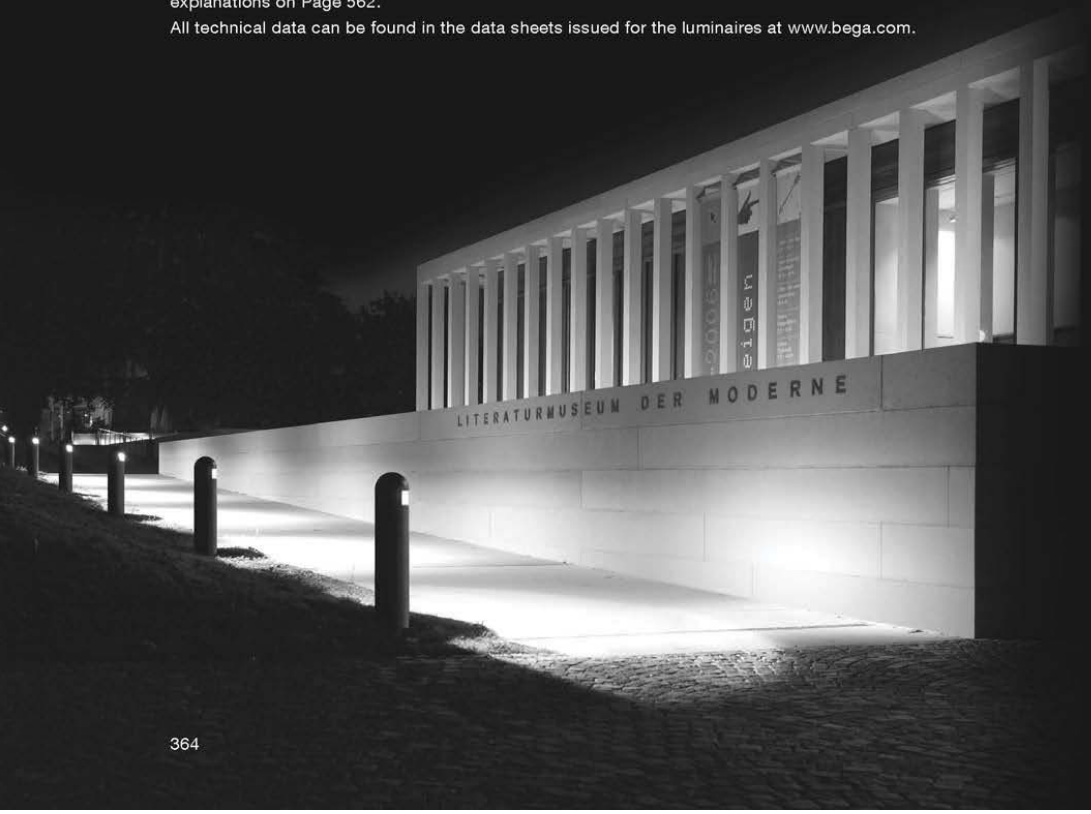




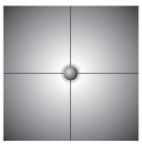








Light emission 180°



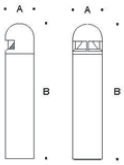
Light emission 360°

Bollards
for discharge lamps and halogen lamps

Protection class IP 55
Cast aluminium, aluminium and stainless steel
Borosilicate glass
Reflector made of pure anodised aluminium
88 513 · 88 512 · 88 416 Connection box 70 632
88 518 · 88 415 Door and connection box 70 632

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Bollards · Light emission **180°**

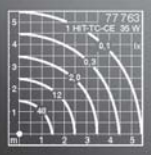
	Lamp		Base	Lumen	EEC	A	B	Anch. unit
88 513	1 HIT-CE	35 W	G 12	4000	A^{+}-A	165	800	**70 895**
88 518	1 HIT-CE	70 W	G 12	7800	A^{+}-A	220	1000	**70 896**

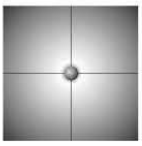
Bollards · Light emission **360°**

	Lamp		Base	Lumen	EEC	A	B	Anch. unit
88 512	1 HIT-CE	35 W	G 12	4000	A^{+}-A	165	800	**70 895**
88 415	1 HIE-CE	70 W	E 27	7200	A^{+}-A	220	1000	**70 896**
88 416	1 QT 32	70 W	E 27	1180	A^{++}-E	165	800	**70 895**

Shielded bollards
with LED or for discharge lamps

Shielded bollards with rotationally symmetrical light distribution.
The luminaires are operated using LED or discharge lamps.
Despite having the same lumen ratings, the luminous efficiency of LED is significantly higher than that of conventional lamps.
The light is deflected by a reflector and directed onto the surfaces to be illuminated in a rotationally symmetrical way.
The sturdy construction of the luminaires makes them particularly suitable for areas in which considerable robustness is required. Luminaires for wide-area illumination of, for example, footpaths, entrance areas or driveways in private and public areas.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.





Light emission 360°

Bollards
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Borosilicate glass · Reflector made of pure anodised aluminium
77 763 with electronic ballast
Connection box 70 632

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. The mounting system can be used to align the luminaire. Anchorage units are accessories and must be ordered separately. For technical data on anchorage units and connection boxes, see Pages 528 and 529.

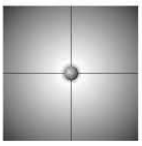
LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

	Lamp		Base	Lumen	EEC	A	B	C	Anch. unit
77 762	LED	17.4 W	—	2330	A++	165	860	220	**70 896**
77 763	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	165	860	220	**70 896**

Shielded LED bollard
with rotationally symmetrical light distribution

Shielded LED bollard with rotationally symmetrical light distribution. The LED light is deflected from above by a wide beam reflector and directed onto the ground surfaces to be illuminated in a rotationally symmetrical way.
Bollards for wide-area illumination of, for example, footpaths, entrance areas or driveways in private and public areas.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



Light emission 360°

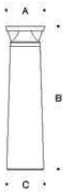
LED bollard

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Crystal glass · Reflector made of pure anodised aluminium
Connection box 70 632

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. Anchorage units are accessories and must be ordered separately. For technical data on anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

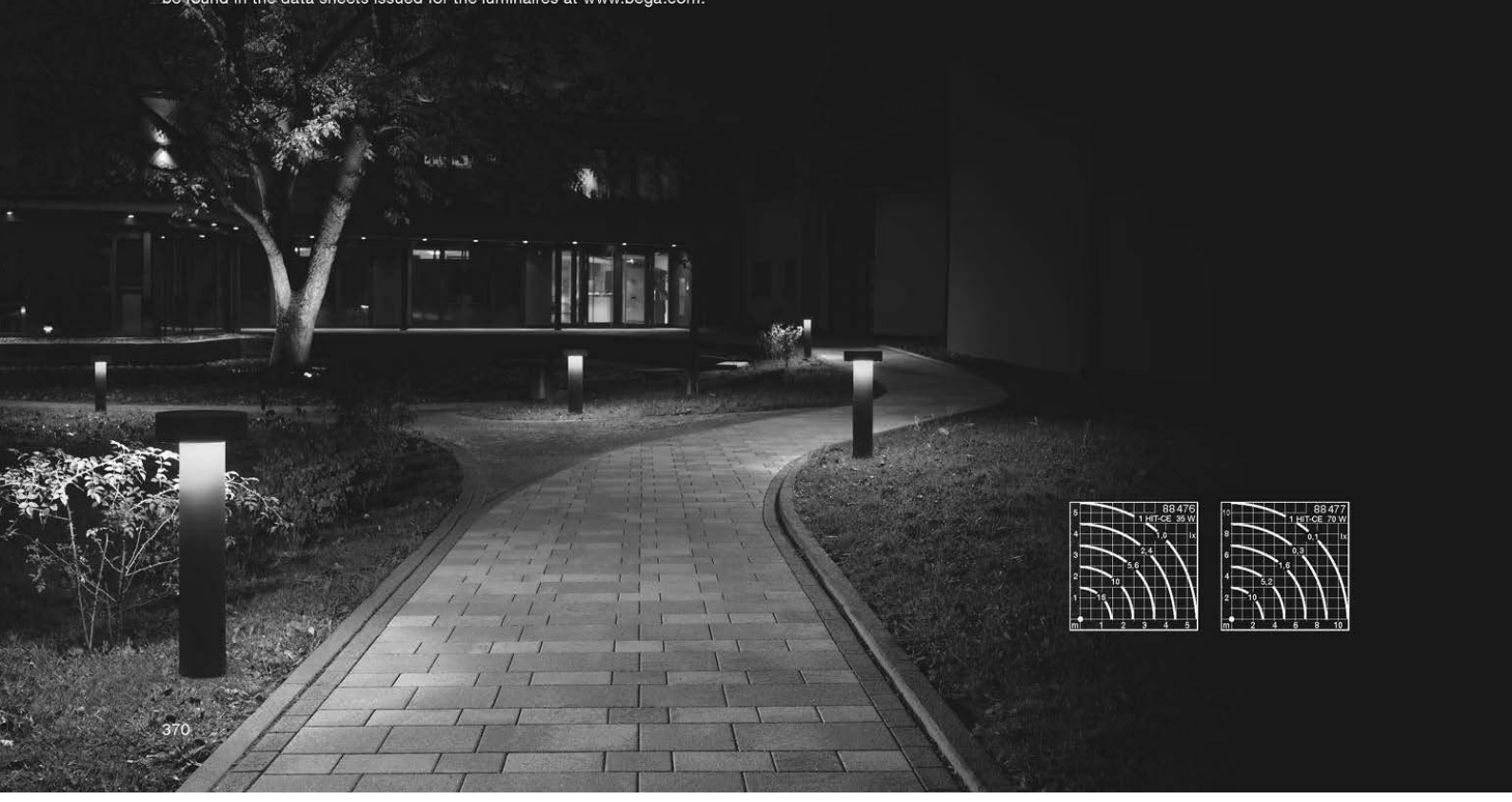
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

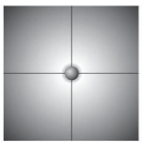


	Lamp		Lumen	EEC	A	B	C	Anch. unit
77 792	LED	26.4 W	2750	A^+	220	810	220	**70 896**

Shielded bollards
indirect light directed downwards
for discharge lamps

Robust bollards characterised by a particularly high degree of visual comfort. The light of the energy-saving discharge lamps is deflected onto the surface to be illuminated by a reflector. The ground surfaces are uniformly illuminated with a high degree of illuminance. At the same time, these luminaires are glare-free, making them perfect for illuminating driveways, squares, footpaths and entrance areas.
For optimum coordination with the lighting situation in question, we can supply the luminaires in different sizes.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.





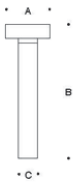
Light emission 360°

Bollards for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Crystal glass · Reflector made of pure anodised aluminium
88 476 Connection box with connection terminals 3 x 4□
88 477 Connection box 70 632

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

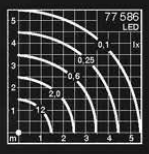
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

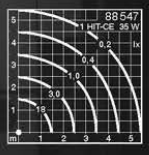


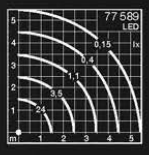
	Lamp	Base	Lumen	EEC	A	B	C	Anch. unit
88 476	1 HIT-CE 35 W	G 12	4000	A^{+}-A	260	800	140	**70 895**
88 477	1 HIT-CE 70 W	G 12	7800	A^{+}-A	400	1100	165	**70 895**

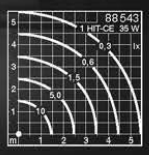
Bollards for indirect light with LED or for discharge lamps

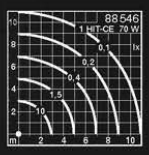
Bollards with rotationally symmetrical light distribution.
We can supply these luminaires in two sizes and in different heights for the differing dimensions of the installation site. Depending on the type, the luminaires are operated using LED or discharge lamps.
The light is deflected by the top reflector onto the surface to be illuminated. For the glare-free, wide-area illumination of driveways, squares, footpaths and entrance areas.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.











Bollards
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Crystal glass · Reflector made of pure anodised aluminium
Connection box with connection terminals 3 x 4 □
88 546 Connection box 70 632

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Bollards · Height **600 mm**

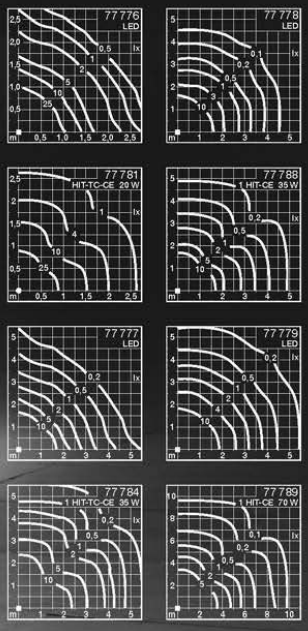
	Lamp		Base	Lumen	EEC	A	B	C	Anch. unit
77 586	LED	28.6 W	—	2170	A	260	600	140	**70 894**
88 547	1 HIT-CE	35 W	G 12	4000	A+-A	260	600	140	**70 894**

Bollards · Height **800 · 1100 mm**

	Lamp		Base	Lumen	EEC	A	B	C	Anch. unit
77 589	LED	28.6 W	—	2170	A	260	800	140	**70 895**
88 543	1 HIT-CE	35 W	G 12	4000	A+-A	260	800	140	**70 895**
88 546	1 HIT-CE	70 W	G 12	7800	A+-A	340	1100	165	**70 895**

Shielded bollards with light emission on four sides with LED or for discharge lamps

Shielded bollards with light emission on four sides and wide beam light distribution.
The luminaires are operated using LED or discharge lamps.
We can supply these luminaires in different heights for the differing dimensions of the installation site.
The sturdy construction of the luminaires makes them particularly suitable for areas in which considerable robustness is required.
Shielded luminaires for orientation and visual guidance in private and public areas. For wide-area illumination of, for example, footpaths, driveways or squares.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



Bollards
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel · Borosilicate glass
Luminaires for discharge lamps with electronic ballast
Luminaires with height = 460 mm · Connection box with connection terminals 3 x 4□
Luminaires with height = 900 mm · Connection box 70 632

You can find luminaires for operating with alternating
and direct current in the table under AC / DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided
by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

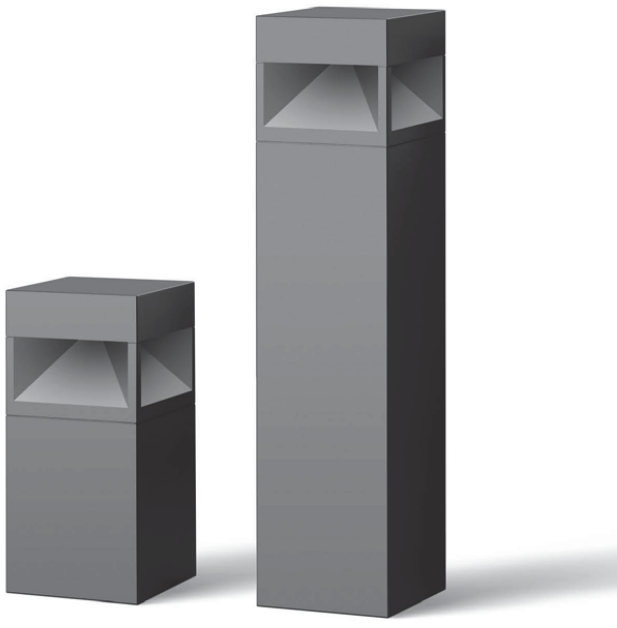
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Bollards · Height **460 mm**

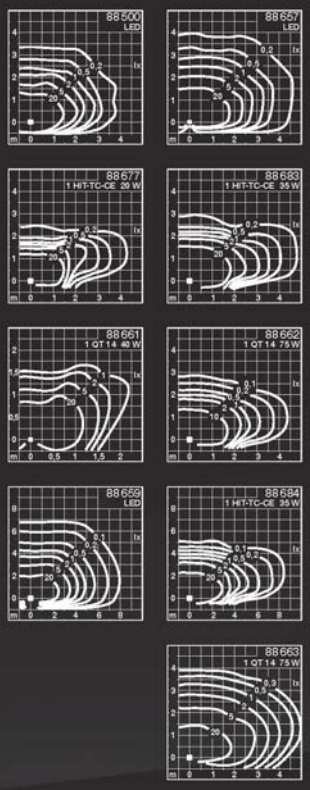
	Lamp		Base	Lumen	EEC	A	B	AC / DC	Anch. unit
77 776	LED	12.0 W	–	1240	A+	160 × 160	460	✔	**70 895**
77 778	LED	17.6 W	–	2020	A++	220 × 220	460	✔	**70 896**
77 781	1 HIT-TC-CE	20 W	GU 6.5	1700	A+-A	160 × 160	460	–	**70 895**
77 788	1 HIT-CE	35 W	G 12	4000	A+-A	220 × 220	460	–	**70 896**

Bollards · Height **900 mm**

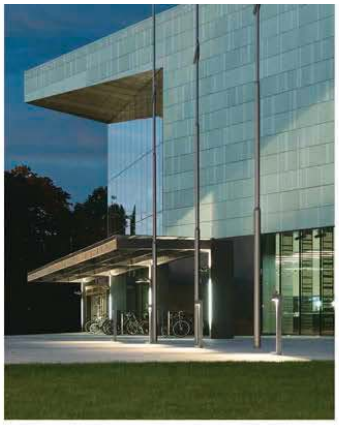
	Lamp		Base	Lumen	EEC	A	B	AC / DC	Anch. unit
77 777	LED	12.0 W	–	1240	A+	160 × 160	900	✔	**70 895**
77 779	LED	17.6 W	–	2020	A++	220 × 220	900	✔	**70 896**
77 784	1 HIT-TC-CE	35 W	GU 6.5	3600	A+-A	160 × 160	900	–	**70 895**
77 789	1 HIT-CE	70 W	G 12	7800	A+-A	220 × 220	900	–	**70 896**



Shielded bollards with flat beam light distribution on one side with LED or for discharge lamps and halogen lamps



Shielded bollards with flat beam light distribution on one side. Luminaires which illuminate the ground surfaces directly in front of their installation site with a flat beam.
Their light distribution allows the luminaires to be spaced far apart and is particularly suitable for illuminating footpaths and squares.
The luminaires are operated with LED or with discharge lamps and halogen lamps.
Despite having the same lumen ratings, the luminous efficiency of LED is significantly higher than that of conventional lamps.
We can supply these luminaires in two sizes and in different heights for the differing dimensions of the installation site.
Luminaires with the same design features but with different dimensions – Page 442.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules.
Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



Bollards
with LED or for discharge lamps and halogen lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires for discharge lamps with electronic ballast
Connection box with connection terminals 5 x 2.5□
88 500 · 88 677 · 88 661 Line connector 3 x 2.5□

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. The mounting system can be used to align the luminaire. Anchorage units are accessories and must be ordered separately. For technical data about anchorage units, see Page 528

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Bollards · Height **500 · 550 mm**

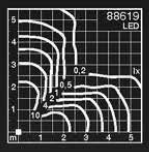
	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
88 500	LED	7.2 W	–	540	A+	110 x 110	500	✔	**70 894**
88 657	LED	13.6 W	–	1080	A	160 x 160	550	✔	**70 895**
88 677	1 HIT-TC-CE	20 W	GU 6.5	1700	A+-A	110 x 110	500	–	**70 894**
88 683	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	160 x 160	550	–	**70 895**
88 661	1 QT 14	40 W	G 9	–	C-E	110 x 110	500	–	**70 894**
88 662	1 QT 14	75 W	G 9	–	C-E	160 x 160	550	–	**70 895**

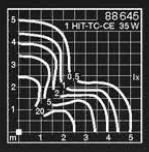
Bollards · Height **1000 mm**

	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
88 659	LED	13.6 W	–	1080	A	160 x 160	1000	✔	**70 895**
88 684	1 HIT-TC-CE	35 W	G 8.5	4000	A+-A	160 x 160	1000	–	**70 895**
88 663	1 QT 14	75 W	G 9	–	C-E	160 x 160	1000	–	**70 895**

Shielded bollards
with LED or for discharge lamps

Shielded bollards with wide beam light distribution. The luminaires are operated with LED or discharge lamps which are characterised by their low connected wattage and high luminous efficiency. The light is deflected by means of a reflector and directed straight at the surface to be illuminated. Luminaires with impressive light graphics and a high degree of illuminance on the ground surface.
Robust and striking luminaires that can divide up and structure outdoor spaces. They have an orienting, guiding and demarcating function.
For illuminating squares, driveways and entrance areas.
Luminaires with the same design features but with different dimensions – Page 448.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.





Bollards
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
88 645 with electronic ballast
Connection box 70 632

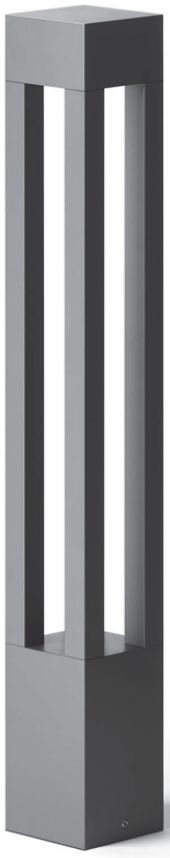
You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided
by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

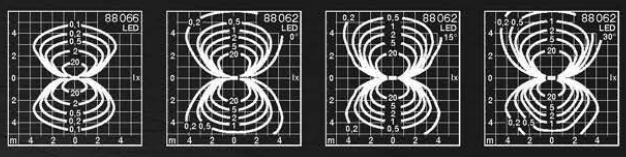
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
88 619	LED	19.6 W	—	1550	A	160 × 160	1000	✔	**70 895**
88 645	1 HIT-TC-CE	35 W	G 8.5	4000	A^{+}-A	160 × 160	1000	—	**70 895**



Shielded LED bollards

LED bollards with preset symmetrical or adjustable light distribution.
The 88 062 luminaire has an internal adjusting device, which allows the light distribution to be adjusted on either side of the luminaire. In this way, symmetrical light distribution can be achieved with the same proportions of light or with different, asymmetrical light distributions.
The 88 066 luminaire features fixed symmetrical light distribution.
Robust and striking luminaires that can divide up and structure outdoor spaces. We can supply these luminaires in different heights for the differing dimensions of the installation site.
Luminaires with the same design features but with different dimensions – Page 440.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



88 062 with adjustable light distribution

88 066 with preset, symmetrical light distribution

LED bollards
with preset symmetrical light distribution or
with adjustable light distribution

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
Reflector made of pure anodised aluminium
With luminaire 88 062, the optical system can be adjusted to 0°, 15° or 30°.
2 cable entries for connecting cable up to Ø 16 mm
5 x 4□ connection terminal

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data about anchorage units, see Page 528

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

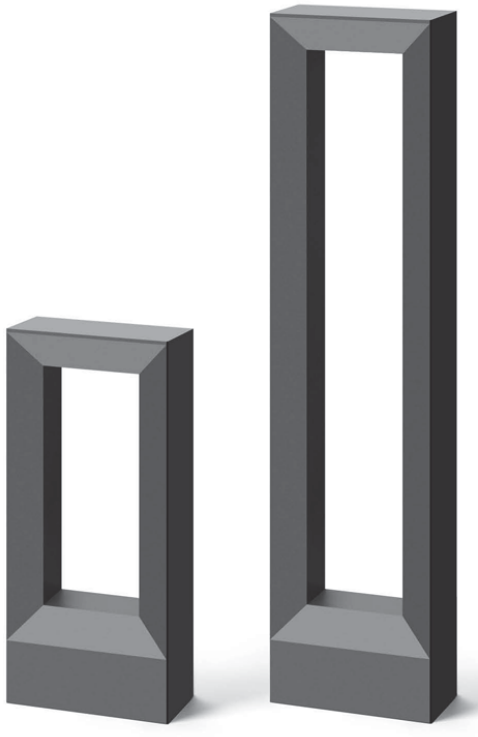
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Bollard with **symmetrical** light distribution

	Lamp		Lumen	EEC	A	B	C	Anch. unit
88 066	LED	10.5 W	1120	A+	270	600	140	**70 895**

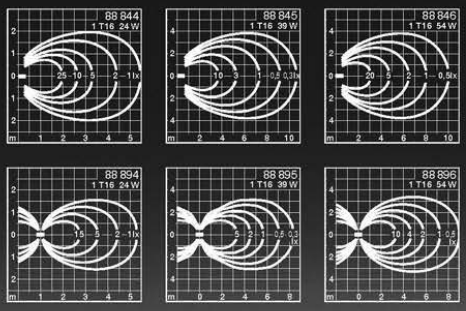
Bollard with **adjustable** light distribution

	Lamp		Lumen	EEC	A	B	C	Anch. unit
88 062	LED	25.3 W	2685	A+	270	1100	140	**70 895**



Bollards
with light emission on one side or on two sides for fluorescent lamps

Shielded bollards with light emission on one side or on two sides. With internal louvres and wide beam light distribution. The luminaires are operated with T 16 fluorescent lamps and are fitted with electronic ballasts.
Lamps of the same length can be operated with two different light outputs.
We can supply these luminaires in three heights to match the lamp lengths. In this way, solutions can be found for different design tasks and the luminaires installed in accordance with the dimensions of the installation location.
Luminaires for illuminating boundaries and providing visual guidance in private and public areas. They are particularly suitable for guiding, marking or structuring illumination.
You can find luminaires with the same design features but with different dimensions on Page 438.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



On one side On two sides

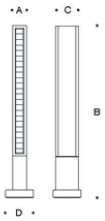
Bollards
with light emission **on one side** or **on two sides**
for fluorescent lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
Reflector made of pure anodised aluminium
Electronic ballast
Connection box 70 632

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided
by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

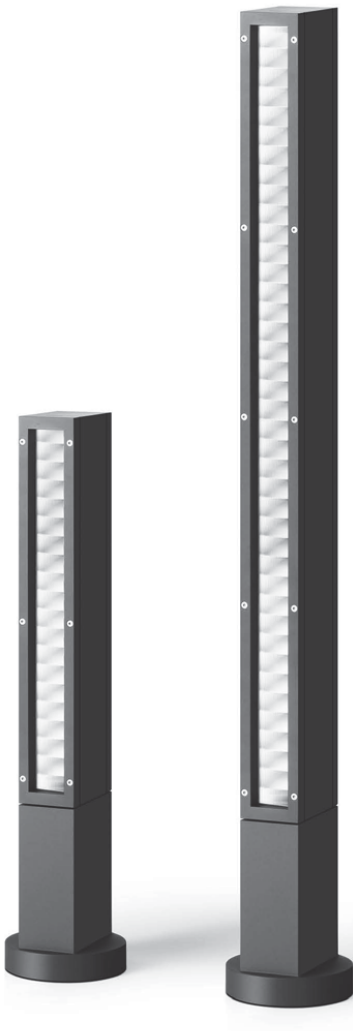


Light emission **on one side**

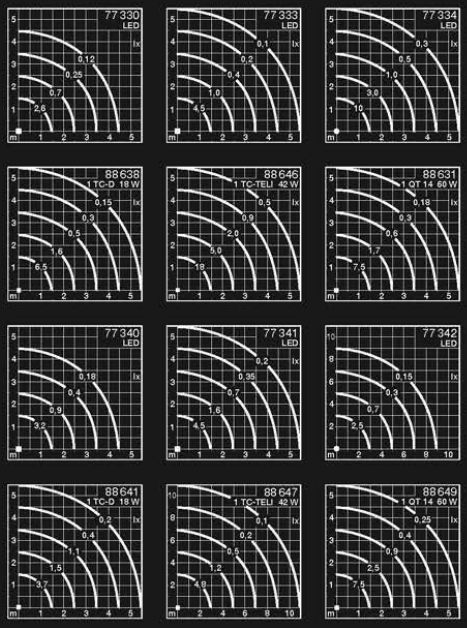
	Lamp	Base	Lumen	EEC	A	B	C	D	AC/DC	Anch. unit
88 844	1 T16 14-24 W	G 5	1750	A+-B	95	900	155	190	✔	**70 896**
88 845	1 T16 21-39 W	G 5	3100	A+-B	95	1200	155	190	✔	**70 896**
88 846	1 T16 28-54 W	G 5	4450	A+-B	95	1500	155	190	✔	**70 896**

Light emission **on two sides**

	Lamp	Base	Lumen	EEC	A	B	C	D	AC/DC	Anch. unit
88 894	1 T16 14-24 W	G 5	1750	A+-B	95	900	155	190	✔	**70 896**
88 895	1 T16 21-39 W	G 5	3100	A+-B	95	1200	155	190	✔	**70 896**
88 896	1 T16 28-54 W	G 5	4450	A+-B	95	1500	155	190	✔	**70 896**



Unshielded bollards
with different mounting heights
with LED or for fluorescent lamps, halogen lamps
and lamps with screw base E27



Unshielded bollards with light emission on all sides.
We can supply these luminaires in three sizes and in different heights for the differing dimensions of the installation site. The luminaires are operated with LED or fluorescent lamps, halogen lamps or lamps with screw base E27.
Compact luminaires with safety guard and square layout. Thick-walled crystal glasses with a light-diffusing texture ensure uniform light distribution.
The sturdy construction of the luminaires makes them particularly suitable for areas in which considerable robustness is required.
Luminaires for illuminating boundaries and providing visual guidance in private and public areas. For illumination of ground surfaces on all sides, for example, footpaths, driveways and squares.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

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Bollards with different mounting heights
with LED or for fluorescent lamps, halogen lamps
and lamps with screw base E 27

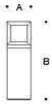
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Crystal glass, inside white
88 646 · 88 647 with electronic ballast for 26 · 32 · 42 watts
Connection box with connection terminals 3 x 4²
77 341 · 88 641 · 88 640 Connection box 70 632
77 342 · 88 647 Door and connection box 70 632

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided
by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Bollards · Height 400 - 650 mm

	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
77 330	LED	4.2 W	–	445	A++	120 × 120	400	✔	**70 894**
77 333	LED	6.3 W	–	670	A++	160 × 160	550	✔	**70 895**
77 334	LED	19.0 W	–	2015	A+	220 × 220	650	✔	**70 896**
88 638	1 TC-D	18 W	G 24 d-2	1200	A - B	160 × 160	550	–	**70 895**
88 646	1 TC-TELI	42 W	GX 24 q-3/4	3200	A - B	220 × 220	650	✔	**70 896**
88 631	1 QT 14	60 W	G 9	–	C - E	120 × 120	400	–	**70 894**
88 637	1 lamp	100 W	E 27	–	A++ - E	160 × 160	550	–	**70 895**

Bollards · Height 800 - 1200 mm

	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
77 340	LED	4.2 W	–	445	A++	120 × 120	800	✔	**70 894**
77 341	LED	6.3 W	–	670	A++	160 × 160	1100	✔	**70 895**
77 342	LED	19.0 W	–	2015	A+	220 × 220	1200	✔	**70 896**
88 641	1 TC-D	18 W	G 24 d-2	1200	A - B	160 × 160	1100	–	**70 895**
88 647	1 TC-TELI	42 W	GX 24 q-3/4	3200	A - B	220 × 220	1200	✔	**70 896**
88 649	1 QT 14	60 W	G 9	–	C - E	120 × 120	800	–	**70 894**
88 640	1 lamp	100 W	E 27	–	A++ - E	160 × 160	1100	–	**70 895**

Unshielded bollards
with rotationally symmetrical light distribution for fluorescent lamps

Unshielded bollards with light emission on four sides. Luminaires with safety guard and square layout.
These are brilliant design elements for public areas. They are particularly suitable for dividing and structuring outdoor spaces.
For illumination of ground surfaces on all sides, for example, footpaths, driveways and squares.
We can supply these luminaires in three sizes for the differing dimensions of the installation site.
You can find wall luminaires whose shape and design match the luminaires on this double page on Page 146 – matching light building elements on Page 446.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

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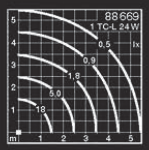
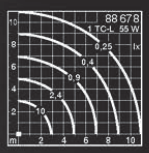
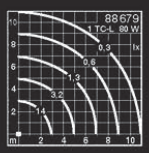






Light building elements Page 446

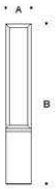
Bollards for fluorescent lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Synthetic cover, white
Electronic ballast
88 669 Connection box with connection terminals 3 x 4□
88 678 · 88 679 Connection box 70 632

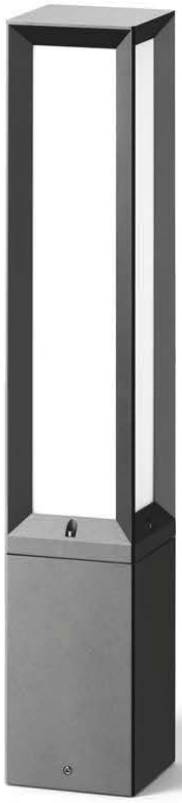
You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

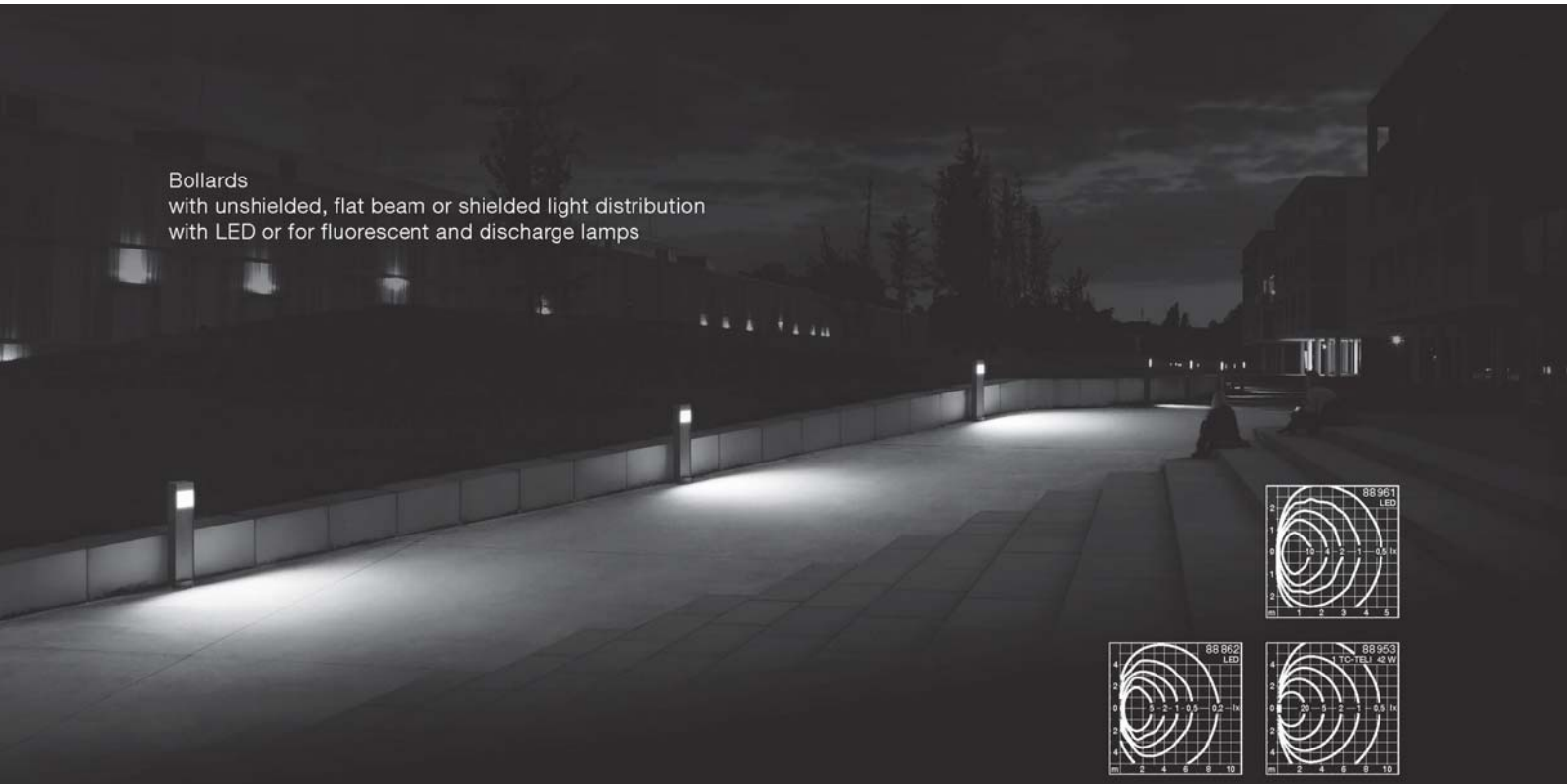
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

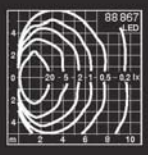


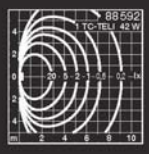
	Lamp		Base	Lumen	EEC	A	B	AC/DC	Anch. unit
88 669	1 TC-L	24 W	2 G 11	1800	A-B	120×120	800	✔	**70 894**
88 678	1 TC-L	55 W	2 G 11	4800	A-B	160×160	1100	✔	**70 895**
88 679	1 TC-L	80 W	2 G 11	6500	A-B	220×220	1200	✔	**70 896**

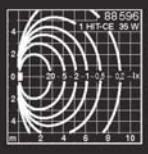


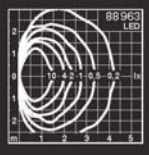
Bollards
with unshielded, flat beam or shielded light distribution
with LED or for fluorescent and discharge lamps

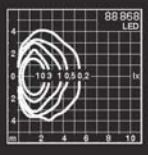


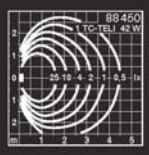


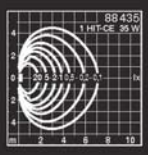












Bollards with the same design features but with different light distribution.

- Unshielded light distribution
  These luminaires distribute unshielded light into the room. At the same distance, they ensure uniform illumination of ground surfaces, persons as well as architectural elements. Luminaires with a high proportion of vertical illuminance.

- Flat beam light distribution
  These luminaires distribute their light into the width of the room. The light is directed downwards and is shielded above the horizontal. For the wide beam and uniform illumination of surfaces and footpaths near the luminaires.

- Shielded light distribution
  The light from these luminaires is directed downwards and is fully shielded above the horizontal. The highest degree of illuminance is achieved in the immediate vicinity of the luminaire. Luminaires with a high level of visual comfort for the uniform illumination of footpaths and surfaces with maximum glare suppression.

The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

Bollards
with LED or for fluorescent and discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires for fluorescent lamps with electronic ballast
for 26 · 32 · 42 watts · 88 435 · 88 596 with electronic ballast
Door and connection box 70 632
88 961 · 88 962 · 88 963 Connection box with connection terminals 3 x 4□

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. The mounting system can be used to align the luminaire. Anchorage units are accessories and must be ordered separately. For technical data on anchorage units and connection boxes, see Pages 528 and 529.

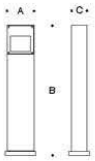
LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour graphite

Unshielded light

Flat beam light

Shielded light



Unshielded · Safety glass, white

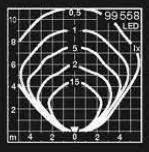
	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
88 961	LED	4 W	–	520	A^{+}	160	800	110	✔	**70 894**
88 862	LED	9.8 W	–	1330	A^{++}	270	1000	120	✔	**70 895**
88 953	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	270	1000	120	✔	**70 895**

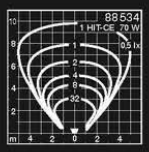
Flat beam · Safety glass with optical texture

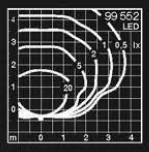
	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
88 962	LED	6.3 W	–	670	A^{++}	160	800	110	✔	**70 894**
88 867	LED	25.3 W	–	2685	A^{+}	270	1000	120	✔	**70 895**
88 592	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	270	1000	120	✔	**70 895**
88 596	1 HIT-CE	35 W	G12	4000	A^{+}-A	270	1000	120	–	**70 895**

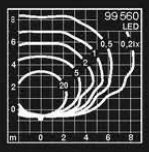
Shielded · Safety glass, clear

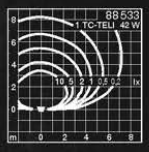
	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
88 963	LED	6.3 W	–	670	A^{++}	160	800	110	✔	**70 894**
88 868	LED	25.3 W	–	2685	A^{+}	270	1000	120	✔	**70 895**
88 450	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	270	1000	120	✔	**70 895**
88 435	1 HIT-CE	35 W	G12	4000	A^{+}-A	270	1000	120	–	**70 895**

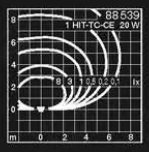












Bollards for illuminating horizontal surfaces or with flat beam light distribution with LED or for fluorescent and discharge lamps

Bollards for the glare-free illumination of ground surfaces.
The luminaires are characterised by a high degree of illuminance on the surface to be illuminated.
The asymmetrical light distribution is particularly suitable for providing spatial illumination in squares, entrances and wide footpaths in private and public areas.
We can supply these luminaires in two sizes for the differing dimensions of the installation site.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

for illuminating
horizontal surfaces

Luminaires with flat beam
light distribution

Bollards for illuminating horizontal surfaces
or with flat beam light distribution
with LED or for fluorescent and discharge lamps

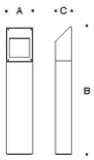
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass clear or with optical texture
Reflector made of pure anodised aluminium
88 549 · 88 539 with electronic ballast
88 533 with electronic ballast for 26 · 32 · 42 watts
Door and connection box 70 632
99 554 · 88 549 · 99 552 · 88 539 Connection box with connection terminals 3 x 4□

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided
by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaire.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Bollards for illuminating **horizontal surfaces**

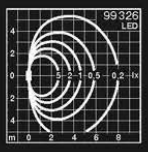
	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
99 554	LED	4.2 W	–	445	A^{++}	160	800	110	✔	**70 894**
99 558	LED	16.9 W	–	1790	A^{+}	250	1100	140	✔	**70 895**
88 549	1 HIT-TC-CE	20 W	GU 6.5	1700	A^{+}-A	160	800	110	–	**70 894**
88 534	1 HIT-CE	70 W	G 12	7400	A^{+}-A	250	1100	140	–	**70 895**

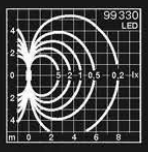
Bollards with **flat beam** light distribution

	Lamp		Base	Lumen	EEC	A	B	C	AC/DC	Anch. unit
99 552	LED	8.4 W	–	895	A^{++}	160	800	110	✔	**70 894**
99 560	LED	25.3 W	–	2685	A^{+}	250	1100	140	✔	**70 895**
88 533	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	250	1100	140	✔	**70 895**
88 539	1 HIT-TC-CE	20 W	GU 6.5	1700	A^{+}-A	160	800	110	–	**70 894**

LED garden and pathway luminaires with unshielded light

Unshielded luminaires for illuminating footpaths and entrance areas in garden and residential areas.
In order to meet the various requirements of the situation to be illuminated, we can supply these luminaires with light emission on one side or on two sides. Luminaires that are impressive at night with their vertical light surfaces and convincing during the day with their high-contrast design. Suitable for private and public areas in which there is no risk of vandalism.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well. The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.





On one side On two sides

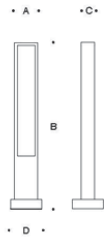
LED garden and pathway luminaires · unshielded
with light emission **on one side** or **on two sides**

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass, white
Connection box with connection terminals 3 x 4□

BEGA garden luminaires are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaires.
Anchorage units are accessories and must be ordered separately.
For technical data about anchorage units, see Page 528

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Light emission **on one side**

	Lamp		Lumen	EEC	A	B	C	D	Anch. unit
99 326	LED	16.6 W	1930	A+	120	1000	80	160	**70 895**

Light emission **on two sides**

	Lamp		Lumen	EEC	A	B	C	D	Anch. unit
99 330	LED	33.2 W	3860	A+	120	1000	80	160	**70 895**

Double

LED garden and pathway luminaires with shielded, directed light

LED garden and pathway luminaires for single and double configuration. Luminaires for illuminating entrances, footpaths and many areas of garden and landscape architecture. These are glare-free luminaires with a high degree of visual comfort for the uniform illumination of ground surfaces.
You can find luminaires with the same design features but with different dimensions on Page 482.
The flat beam, wide beam light distribution is particularly suitable for illuminating paths and entrance areas. These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

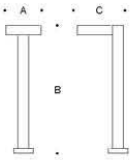
Single and **double** LED garden and pathway luminaires with shielded, directed light

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Light deflection through polycarbonate cover with optical texture
Cylindrical pole Ø 82 mm with base plate Ø 140 mm
Connection box with connection terminals 3 x 1.5□

BEGA garden luminaires are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaires.
Anchorage units are accessories and must be ordered separately.
For technical data about anchorage units, see Page 528

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Single garden and pathway luminaire

	Lamp		Lumen	EEC	A	B	C	Anch. unit
77 221	LED	12.6 W	1340	A^{+}	190	1000	275	**70 895**

Double garden and pathway luminaire

	Lamp		Lumen	EEC	A	B	C	Anch. unit
77 321	2 LED	12.6 W	2680	A^{++}	190	1000	475	**70 895**

Surface washers
with LED or for fluorescent lamps
with shielded, directed light

Surface washers for single and double configuration for the uniform illumination of ground surfaces. Luminaires for illuminating entrances, footpaths and many areas of garden and landscape architecture. These are glare-free luminaires with a high degree of visual comfort for the uniform illumination of ground surfaces. You can find luminaires with the same design features but with different dimensions on Page 480.
The flat beam, wide beam light distribution is particularly suitable for illuminating paths and entrance areas.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

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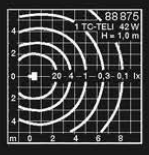
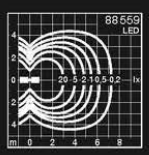




Double

Single and **double** surface washers
with LED or for fluorescent lamps

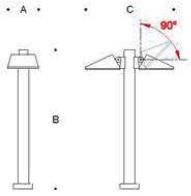
Protection class IP 65
Cast aluminium, aluminium and stainless steel · Safety glass
Reflector made of pure anodised aluminium
Cylindrical pole Ø 82 mm with base plate Ø140 mm
Connection box with connection terminals 3 x 4²
Luminaires with LED · dimmable 1-10 V
Luminaires for fluorescent lamps with electronic ballast for 26 · 32 · 42 watts
Attack angle infinitely adjustable from 0° to 90°

BEGA surface washers are bolted with a mounting plate onto a foundation provided by the customer or on an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the luminaires.
Anchorage units are accessories and must be ordered separately.
For technical data about anchorage units, see Page 528

You can find luminaires for operating with alternating and direct current in the table under AC / DC.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Single surface washers

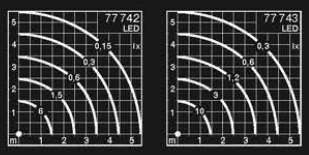
	Lamp		Base	Lumen	EEC	A	B	C	AC / DC	Anch. unit
88 556	LED	25.3 W	–	2685	A+	260	1200	360	–	**70 895**
88 875	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	260	1200	360	✔	**70 895**

Double surface washers

	Lamp		Base	Lumen	EEC	A	B	C	AC / DC	Anch. unit
88 559	2 LED	25.3 W	–	5370	A+	260	1200	640	–	**70 895**
88 876	2 TC-TELI	42 W	GX24q-3/4	6400	A-B	260	1200	640	✔	**70 895**

Unshielded garden and pathway luminaires with LED or for lamps with screw base E 27

Garden and pathway luminaires for unshielded light, optionally with LED or for lamps with screw base E 27.
Luminaires with hand-blown, three-ply opal glass and pleasantly uniform light effects. Suitable for private and public areas in which there is no risk of vandalism.
The luminaires are available in two sizes.
Many different lamps are available today for screw base E 27, e.g. LED lamps, halogen lamps and fluorescent lamps.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



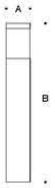
Garden and pathway luminaires · unshielded
with LED or for lamps with screw base E 27

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Opal glass with thread
Connection box with connection terminals 3 x 4²

BEGA garden and pathway luminaires are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
Anchorage units are accessories and must be ordered separately.
For technical data about anchorage units, see Page 528

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour graphite



	Lamp		Base	Lumen	EEC	A	B	Anch. unit
77 742	LED	6.3 W	–	670	A^{++}	110	730	**70 894**
77 743	LED	10.5 W	–	1120	A^{+}	140	900	**70 895**
77 746	1 lamp	60 W	E 27	–	A^{++}-E	110	730	**70 894**
77 747	1 lamp	100 W	E 27	–	A^{++}-E	140	900	**70 895**

Shielded LED garden and pathway luminaires
indirect light directed downwards

LED garden and pathway luminaires characterised by a high degree of visual comfort. These luminaires offer glare-free illumination of ground surfaces with a very uniform degree of illuminance. These are perfect luminaires for illuminating entrances, footpaths as well as many areas of garden and landscape architecture. Suitable for private and public areas in which there is no risk of vandalism.
For optimum coordination with the lighting situation in question, we can supply the luminaires with different mounting heights. These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well. The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

Light emission 360°

LED garden and pathway luminaires
with rotationally symmetrical light distribution

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
Reflector made of pure anodised aluminium
88 262 Connection box with connection terminals 3 x 4□
88 261 Connection box 70 632

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

BEGA bollards are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel. Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

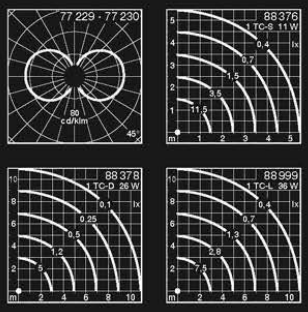
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

	Lamp		Lumen	EEC	A	B	C	AC/DC	Anch. unit
88 262	LED	26.4 W	2690	A+	250	550	110	✔	**70 894**
88 261	LED	26.4 W	2690	A+	250	950	110	✔	**70 894**

Garden luminaires and light building elements made of stainless steel for fluorescent lamps

Page 150

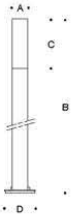
Unshielded luminaires made of stainless steel and hand-blown opal glass. Optionally available as garden luminaires in the heights 470 mm to 1200 mm or as light building elements in the height 2400 mm.
Stainless steel is a high-quality material that proves convincing thanks to its enormous stability and practically unlimited durability. As a durable and valuable material, opal glass also meets these standards with its incomparable lighting properties.
Luminaires that can divide up and structure outdoor spaces. They have an orienting, guiding and demarcating function. They are good design elements in lighting architecture.
On request, the luminaires are also available with a white synthetic cylinder.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.



Garden luminaires and light building elements made of stainless steel for fluorescent lamps

Protection class IP 65
Stainless steel · Opal glass with thread
77 229 · 77 230 3 x 1.5□ connection terminals
88 376 · 88 378 Connection box with connection terminals 3 x 4□
88 999 Connection box 70 632

BEGA garden luminaires and BEGA light building elements are bolted with a mounting plate onto a foundation provided by the customer or an anchorage unit made of hot-dip galvanised steel.
Anchorage units are accessories and must be ordered separately.
For technical data on anchorage units and connection boxes, see Pages 528 and 529.



Garden luminaires · Heights **470 - 1200 mm**

	Lamp		Base	Lumen	EEC	A	B	C	D	Anch. unit
77 229	1 TC-S	11 W	G 23	900	A - B	80	470	270	135	**70 894**
77 230	1 TC-L	36 W	2 G 11	2900	A - B	110	700	440	175	**70 895**
88 376	1 TC-S	11 W	G 23	900	A - B	80	1000	260	175	**70 895**
88 378	1 TC-D	26 W	G 24 d-3	1800	A - B	110	1200	290	225	**70 896**

Light building element · Height **2400 mm**

	Lamp		Base	Lumen	EEC	A	B	C	D	Anch. unit
88 999	1 TC-L	36 W	2 G 11	2900	A - B	110	2400	430	225	**70 896**

LED pathway and indication luminaires

These new pathway and indication luminaires are available in two versions. Optionally as pathway luminaires, as design alternatives to bollards, to illuminate pathways, entrances and driveways or as indication luminaires. Indication luminaires are additionally fitted with a sign. We can supply the luminaires with signs complete with individual lettering, symbols and logos. Indication luminaires allow fast and reliable orientation, and make it possible to find an address by day and by night.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found in the data sheets issued for the luminaires at www.bega.com.

99 061 LED pathway luminaire

99 069 LED indication luminaire
with externally illuminated sign

LED pathway luminaire · Indication luminaire with externally illuminated sign

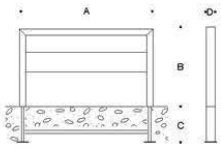
Protection class IP 65
Cast aluminium, aluminium and stainless steel · Safety glass, white

99 069
Height of the lettered sign, depending on lettering size and
number of lines 150 to 350 mm · Lettering on one side or on two sides

Door and connection box 70 632
With anchorage unit for installation in soil
For technical data about connection boxes, see Page 529

LED colour temperature optionally 3000 K or 4000 K
3000 K – Article number
4000 K – Article number + **K4**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



LED pathway luminaire

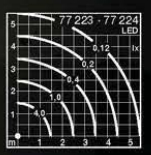
	Lamp		Lumen	EEC	A	B	C	D
99 061	LED	50.4 W	7280	A++	1755	1000	600	180×80

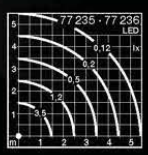
LED indication luminaire · **with externally illuminated sign**

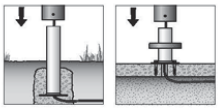
	Lamp		Lumen	EEC	A	B	C	D
99 069	LED	50.4 W	7280	A++	1755	1000	600	180×80

Light for the house and the garden
LED garden and pathway luminaires with unshielded light

On footpaths, terraces and flowerbeds, as well as in house entrance areas, these unshielded luminaires create a pleasant light effect.
The glass unit made of high-quality three-ply opal glass is optionally available as a cylinder or as a sphere.
Cost-effective and durable luminaires thanks to modern LED technology with a warm white 3000 K light colour.
You can order the luminaires optionally with an anchorage unit to set it in concrete in the soil, or with a screw-on base for installation on foundations or on a paved surface. You can find portable luminaires with the same form language on Page 428.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.







Anchorage unit Screw-on base

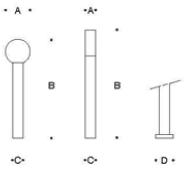
LED garden and pathway luminaires for the private sector
with unshielded light

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Opal glass with thread
LED colour temperature 3000 K
Line connector 3 x 2.5□

We can supply the luminaires optionally:
• With anchorage unit made of hot-dip galvanised steel, or
• With screw-on base for mounting on foundations
For the technical data of anchorage units and screw-on bases, see Page 530.

If through-wiring to a further luminaire is required,
we recommend using distribution box 70 730.
For technical data of the distribution box, see Page 530.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Garden luminaires · **Sphere**

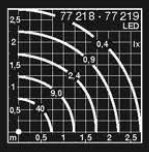
		Lamp		Lumen	EEC	A	B	C	D
77 223	with anchorage unit	LED	6.5 W	400	A	150	800	70	–
77 224	with screw-on base	LED	6.5 W	400	A	150	800	70	110

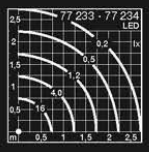
Garden luminaires · **Cylinder**

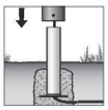
		Lamp		Lumen	EEC	A	B	C	D
77 235	with anchorage unit	LED	6.5 W	400	A	70	900	70	–
77 236	with screw-on base	LED	6.5 W	400	A	70	900	70	110

Light for the house and the garden
LED garden and pathway luminaires with shielded, directed light

LED garden and pathway luminaires with rotationally symmetrical wide beam light distribution. Luminaires that offer glare-free and uniform illumination of the surfaces to be illuminated. Ideal luminaires for many situations in footpaths and terraces in private gardens and house entrances. Cost-effective and efficient LED technology makes them low-maintenance and modern luminaires for your garden architecture. The light colour of the LED corresponds to 3000 K warm white. You can order the luminaires optionally with an anchorage unit to set it in concrete in the soil, or with a screw-on base for installation on foundations or on a paved surface.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found in the data sheets issued for the luminaires at www.bega.com.







Anchorage unit Screw-on base

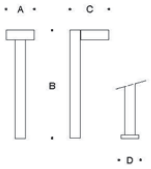
LED garden and pathway luminaires for the private sector
shielded light, directed downwards

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Light deflection through polycarbonate cover with optical texture
LED colour temperature 3000 K
Line connector 3 x 2.5□

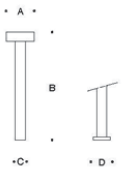
We can supply the luminaires optionally:
• With anchorage unit made of hot-dip galvanised steel, or
• With screw-on base for mounting on foundations
For technical data of the anchorage units and screw-on bases, see Page 530.

If through-wiring to a further luminaire is required,
we recommend using distribution box 70 730.
For technical data of the distribution box, see Page 530.

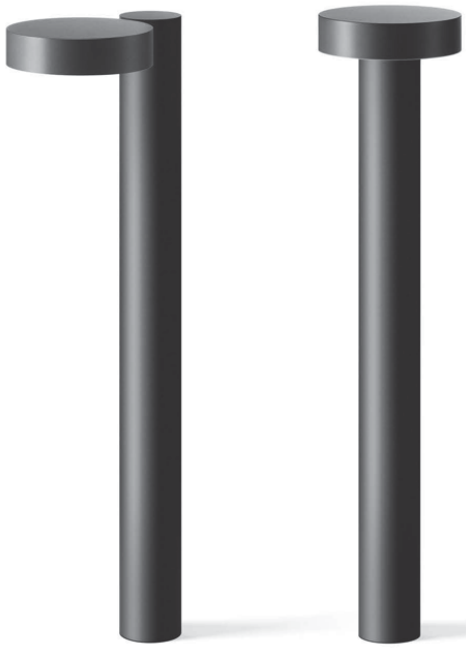
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



		Lamp		Lumen	EEC	A	B	C	D
77 218	With anchorage unit	LED	6.4 W	670	A++	160	700	230	–
77 219	With screw-on base	LED	6.4 W	670	A++	160	700	230	110

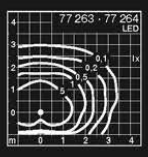


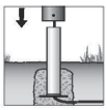
		Lamp		Lumen	EEC	A	B	C	D
77 233	With anchorage unit	LED	6.5 W	400	A	160	700	70	–
77 234	With screw-on base	LED	6.5 W	400	A	160	700	70	110



Light for the house and the garden
LED garden and pathway luminaires with shielded, directed light

LED garden and pathway luminaires with light directed downwards for illuminating paths, terraces and house entrances. Luminaires for the uniform, glare-free illumination of ground surfaces.
Cost-effective and efficient LED technology makes them low-maintenance and modern luminaires for your garden architecture. The light colour of the LED corresponds to 3000 K warm white. You can order the luminaires optionally with an anchorage unit to set it in concrete in the soil, or with a screw-on base for installation on a foundation or a paved surface.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.





Anchorage unit Screw-on base

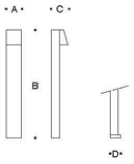
LED garden and pathway luminaires for the private sector
shielded, flat beam light, directed downwards

Protection class IP 64
77 263 · 77 264 Protection class IP 65
Cast aluminium, aluminium and stainless steel · Safety glass
77 239 · 77 249 reflector made of pure anodised aluminium
LED colour temperature 3000 K
Line connector 3 x 2.5□

We can supply the luminaires optionally:
• With anchorage unit made of hot-dip galvanised steel, or
• With screw-on base for mounting on foundations
For technical data of the anchorage units and screw-on bases, see Page 530.

If through-wiring to a further luminaire is required,
we recommend using distribution box 70 730.
For technical data of the distribution box, see Page 530.

Luminaire colour optionally graphite or silver
Graphite – Article number
White – Article number + **W**
Silver – Article number + **A**



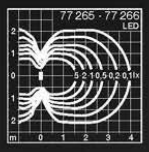
		Lamp		Lumen	EEC	A	B	C	D
77 237	With anchorage unit	LED	3.6 W	270	A+	90	700	105	–
77 238	With screw-on base	LED	3.6 W	270	A+	90	700	105	65

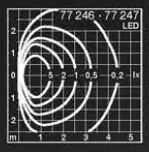
		Lamp		Lumen	EEC	A	B	C	D
77 239	With anchorage unit	LED	3.2 W	245	A+	75	700	125	–
77 249	With screw-on base	LED	3.2 W	245	A+	75	700	125	65

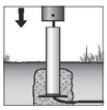
		Lamp		Lumen	EEC	A	B	C	D
77 263	With anchorage unit	LED	3.6 W	270	A+	110	700	110	–
77 264	With screw-on base	LED	3.6 W	270	A+	110	700	110	110

Light for the house and the garden
LED garden and pathway luminaires

Two LED garden and pathway luminaires for the private garden, house entrance and for many situations on paths and terraces. The luminaires 77 265 and 77 266 generate interesting light graphics on both sides of the luminaire depending on the ambient brightness.
The unshielded luminaires 77 246 and 77 247 are particularly suitable for lighting situations with low ambient brightness requiring light on one side only.
Cost-effective and durable luminaires thanks to modern LED technology with a warm white 3000 K light colour.
You can order the luminaires optionally with an anchorage unit to set it in concrete in the soil, or with a screw-on base for installation on a foundation or a paved surface.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.







Anchorage unit Screw-on base

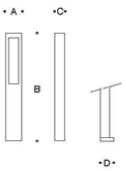
LED garden and pathway luminaires for the private sector
with directed light or light emission on one side

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass, clear or white
LED colour temperature 3000 K
Line connector 3 x 2.5□

We can supply the luminaires optionally:
• With anchorage unit made of hot-dip galvanised steel, or
• With screw-on base for mounting on foundations
For technical data of the anchorage units and screw-on bases, see Page 530.

If through-wiring to a further luminaire is required,
we recommend using distribution box 70730.
For technical data of the distribution box, see Page 530.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

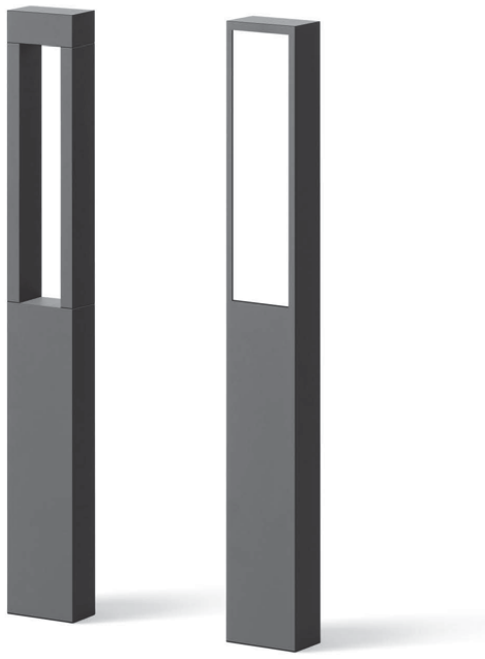


Directed light · Safety glass, clear

		Lamp		Lumen	EEC	A	B	C	D
77 265	With anchorage unit	LED	7.2 W	540	A+	90	700	50	–
77 266	With screw-on base	LED	7.2 W	540	A+	90	700	50	80

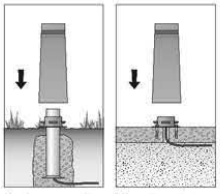
Light emission **on one side** · Safety glass, white

		Lamp		Lumen	EEC	A	B	C	D
77 246	With anchorage unit	LED	4.3 W	360	A+	90	700	55	–
77 247	With screw-on base	LED	4.3 W	360	A+	90	700	55	65



Light for the house and the garden
LED garden and pathway luminaires with shielded, directed light

LED garden and pathway luminaires for light from a low mounting height. A new highly compact luminaire for many situations on footpaths and terraces, in private gardens and house entrances. It illuminates ground surfaces glare-free and uniformly from a low height. Cost-effective and efficient LED technology makes them low-maintenance and modern luminaires for your garden architecture. The light colour of the LED corresponds to 3000 K warm white. You can order the luminaires optionally with an anchorage unit to set it in concrete in the soil, or with a mounting plate for installation on a foundation or a paved surface.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



Anchorage unit Mounting plate

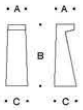
LED garden and pathway luminaires for the private sector
shielded light, directed downwards

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
LED colour temperature 3000 K
Line connector 3 x 2.5□

We can supply the luminaires optionally:
• With anchorage unit made of hot-dip galvanised steel, or
• With mounting plate for mounting on foundations
For technical data of the anchorage units, see Page 530.

If through-wiring to a further luminaire is required,
we recommend using distribution box 70 730.
For technical data of the distribution box, see Page 530.

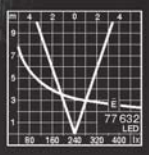
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

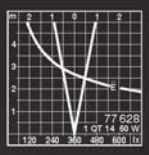


		Lamp		Lumen	EEC	A	B	C
77 276	With anchorage unit	LED	6.3 W	670	A++	70	250	90
77 277	With mounting plate	LED	6.3 W	670	A++	70	250	90

Light for the house and the garden
Portable on-ground floodlights with LED or for halogen lamps

The garden thrives on seasonal change, varying growth and different types of use. Portable BEGA floodlights provide an effective lighting atmosphere and can easily be moved to a different location if necessary – allowing a multitude of different light effects to be achieved.
The luminaires on this page can be placed on lawn areas, on soil and also on paths and terraces.
They are ready for connecting with a 5 m cable and mains plug. The cable length that is not required is rolled up simply and safely in the base of the luminaire.
You can find luminaires with this design, but for permanent installation, on Page 284.
The LED luminaires from this range of products will impress you through the minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.





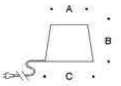
A practical cable winder makes it possible to wind up the unused connecting cable in the base of the luminaire housing.

On-ground floodlights for the private sector · **portable**
with LED or for halogen lamps

Protection class IP 67
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires with LED · Colour temperature 3000 K
Ready for connection with 5 m cable and mains plug

For the electrical connection, we recommend
BEGA connecting pillars with safety sockets.
For technical data of the connecting pillars, see Page 432.

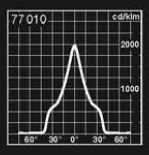
Luminaire colour graphite

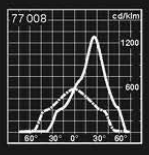


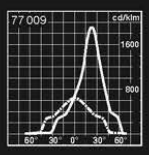
	Lamp		Base	Lumen	EEC	A	B	C
77625	1 LED	13.0 W	–	945	A	140	140	175
77632	1 LED	25.3 W	–	2685	A+	165	150	205
77628	1 QT 14	60 W	G9	–	A++-E	140	140	175

Light for the house and the garden
LED in-ground luminaires resistant to foot traffic with symmetrical or asymmetrical light distribution

LED in-ground luminaires resistant to foot traffic, optionally available with symmetrical or asymmetrical light distribution.
The luminaire housing made of glass fibre reinforced polyamide with trim ring made of stainless steel can be installed easily in the earth without drainage or foundation.
Our cost-effective and efficient LED modules offer high luminous efficiency and a long service life with a low connected wattage. Light colour 3000 K warm white.
These are luminaires that emphasise and accentuate small trees, shrubs and objects in private gardens.
Luminaires which allow you to experience the beauty of the garden, even when it is dark.
You can find our extensive range of in-ground luminaires for use in public areas with drive-over luminaires on Pages 240 to 241.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.







Symmetrical

Asymmetrical

LED in-ground luminaires · resistant to foot traffic
with **symmetrical** or **asymmetrical** light distribution

Protection class IP 67
Housing made of glass fibre reinforced polyamide
Trim ring made of stainless steel and safety glass
lie flat in a single plane.
Reflector made of pure anodised aluminium
LED colour temperature 3000 K
1.8 m connecting cable 3 x 1.5□ with water stop
1.2 m protective conduit for connecting cable up to
the connecting sleeve

For the electrical connection of the luminaires and for
through-wiring to a further luminaire, we recommend
using distribution box 70 730.
For technical data of the distribution box, see Page 530.

Floodlights · **symmetrical**

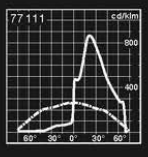
	Lamp		Lumen	EEC	A	B	C
77 010	LED	4.2 W	450	A^{++}	110	70	120
77 011	LED	7.4 W	780	A^{+}	155	95	170

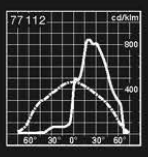
Floodlights · **asymmetrical**

	Lamp		Lumen	EEC	A	B	C
77 008	LED	4.2 W	450	A^{++}	110	70	120
77 009	LED	7.4 W	780	A^{+}	155	95	170

Light for the house and the garden
LED in-ground luminaires resistant to foot traffic with asymmetrical light distribution

LED in-ground luminaires resistant to foot traffic, with asymmetrical large-area light distribution.
The luminaire housing made of glass fibre reinforced polyamide with cover frame made of stainless steel can be installed easily in the earth without drainage or foundations.
These luminaires highlight and accentuate façades, wall surfaces and objects in gardens with 3000 K warm white light.
These luminaires allow you to experience the beauty of the garden and its architectural details, even when it is dark.
The low connected wattage and long service life of the LED make these luminaires cost-effective devices with long service intervals.
You can find our extensive range of in-ground luminaires for use in public areas with drive-over luminaires on Pages 240 to 241.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



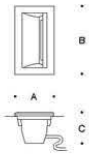


Asymmetrical

LED in-ground luminaires · resistant to foot traffic
with **asymmetrical** light distribution

Protection class IP 67
Housing made of glass fibre reinforced polyamide
Trim ring made of stainless steel and safety glass
lie flat in a single plane.
Reflector made of pure anodised aluminium
LED colour temperature 3000 K
1.8 m connecting cable 3 x 1.5□ with water stop
1.2 m protective conduit for connecting cable up to
the connecting sleeve

For the electrical connection of the luminaires and for
through-wiring to a further luminaire, we recommend
using distribution box 70 730.
For technical data of the distribution box, see Page 530.

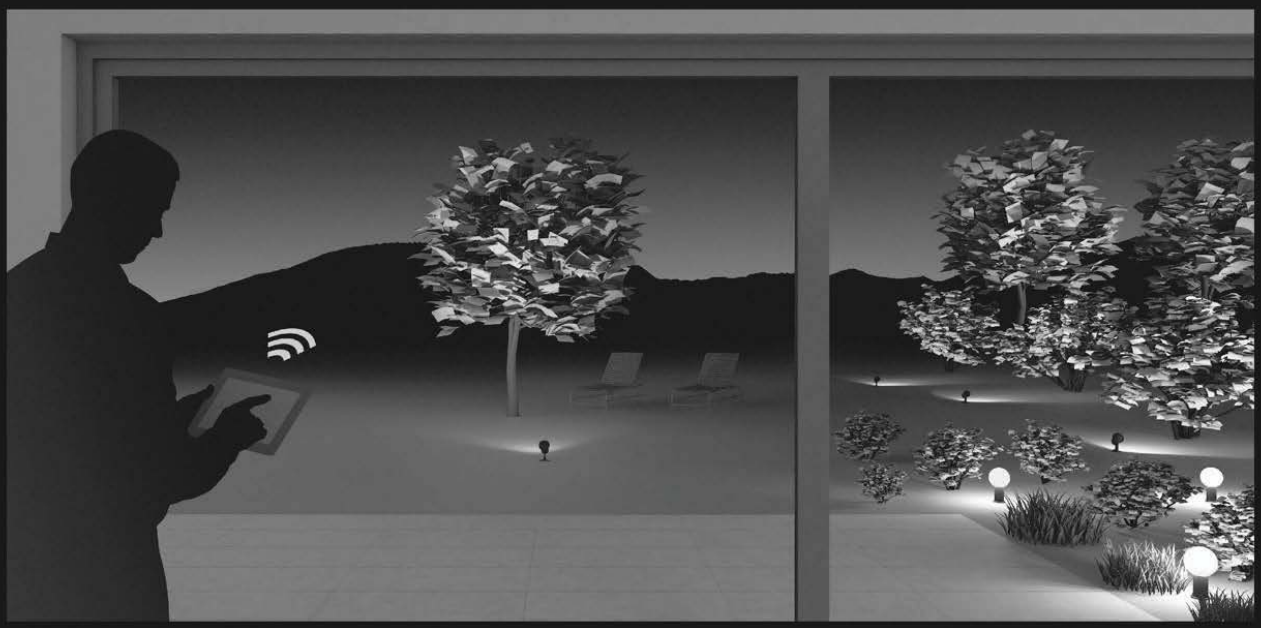


Floodlights · **asymmetrical**

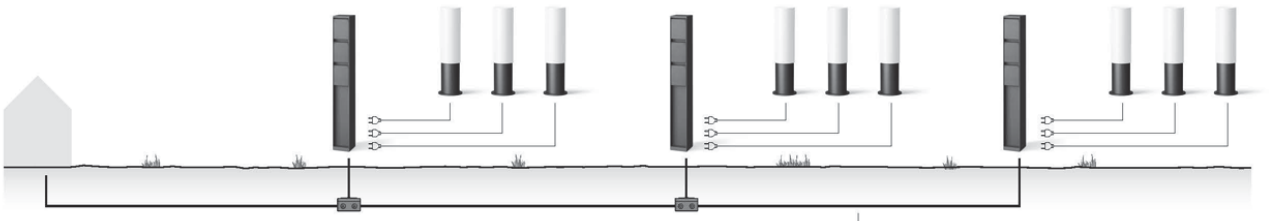
	Lamp		Lumen	EEC	A	B	C
77 111	LED	5.5 W	575	A^{++}	80	160	60
77 112	LED	8.8 W	920	A^{+}	115	240	75

BEGA Plug & Play
Portable LED light system for private gardens

BEGA Plug & Play is a portable LED light system for private gardens. Simply connect the transformer to 230 V by means of a socket or permanent connection and that is all there is to it.
Using simple plug-in connectors, you can now connect up the required luminaires in your new, safe 48 V system. Intermediate distribution boxes and additional extension cables enable you to create your individual lighting system quickly and flexibly. The work-intensive laying of underground cables is unnecessary.
You can connect up to 10 luminaires per transformer and add practically any number of extension cables.
With your choice of transformer you can decide whether to switch and control your system in conventional manner using already existing switches, by means of the BEGA remote control, or with an app installed on your smartphone or tablet.
BEGA Plug & Play – the user-friendly and quick solution for creating your individual lighting system.
A technical description of all the system components can be found on Pages 424 and 425.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on the following double page for output und luminous flux are nominal values. To make it easier for you to check the maximum transformer output, we also quote the luminaire connected wattage in brackets – for explanations see Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

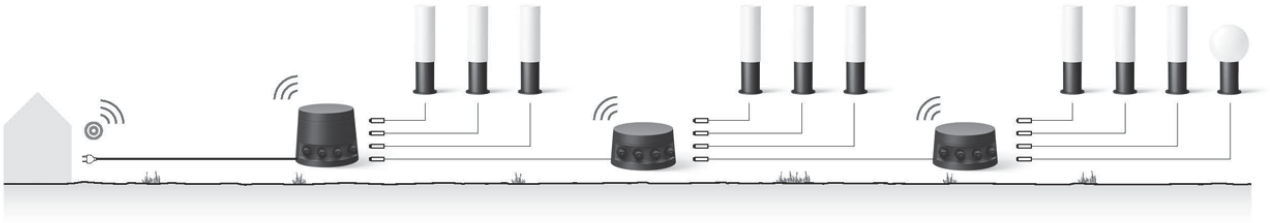


A BEGA Smart Home Gateway 70 588 for controlling your BEGA Plug & Play lighting system by app from a smartphone or tablet can be found on Page 555.



Conventional installation **with underground cable** and permanent 230 V garden sockets

230 V underground cable



BEGA Plug & Play **with freely layable 48 V cables** · optionally with remote control

Transformer 230 V/48 V

Distribution box

Remote control

Unshielded LED luminaires with earth spike

LED floodlight with earth spike

LED floodlight with ring base

BEGA Plug & Play · System components

On this double page, you will find all the system components of BEGA Plug & Play – the LED light system for private gardens. With your choice of transformer you can decide how you want to switch your Plug & Play system. With the transformers 10 532 · 10 552, you can switch the connected luminaires jointly with the switches already existing in your domestic installation system. The transformers 10 533 · 10 553 have an integral ZigBee light controller – this allows you to dim and switch each luminaire separately. In this case, you need the remote control 10 526. If you want to control the system using an app on your smartphone or tablet, you will also need the BEGA Smart Home Gateway 70 588.
BEGA Plug & Play can be extended quickly and easily. Up to 10 luminaires of your choice (connected wattage max. 50 W) can be connected to one transformer. Each of the LED luminaires is ready for connection and has a 5 m long connecting cable with a 48 V plug. Matching extension cables make it easy to reach luminaire locations that are further away.
BEGA Plug & Play – the user-friendly and quick solution for creating your individual lighting system.
All technical data of the system components can be found on the Internet in the data sheets at www.bega.com.

BEGA Plug & Play **transformers and distribution boxes**

Two versions are available for the power supply:
- Transformers 10 532 · 10 552
  each with 4 connection sockets, all outputs can be switched jointly using already existing switches
- Transformers 10 533 · 10 553
  each with 4 connection sockets and an integral ZigBee light controller.
  Each of the 4 outputs can be switched and dimmed individually, this requires e. g. the BEGA remote control 10 526

Protection class IP 65 · Housing made of glass fibre reinforced polyamide

Connected wattage of transformers max. 50 W
We can supply matching distribution boxes for the electrical connection of the transformers 10 552 · 10 553. For technical data of the distribution box 70 730, see Page 530.

Colour graphite

10 532	Transformer, **can be switched with existing switches,** with 5 m connecting cable and mains plug
10 552	Transformer, **can be switched with existing switches,** with 5 m cable and free end
10 569	Distribution box with 5 m cable and 48 V plug
10 533	Transformer with **ZigBee light controller**, with 5 m connecting cable and mains plug
10 553	Transformer with **ZigBee light controller**, with 5 m connecting cable and free end
10 570	Distribution box with **ZigBee light controller**, with 5 m cable and 48 V plug

BEGA Plug & Play **LED garden floodlights**

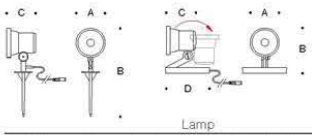
Portable LED garden floodlights 48 V DC, optionally with
- Earth spike
- Ring base

Protection class IP 65
Housing, earth spike and ring base made of glass fibre reinforced polyamide
Safety glass · Reflector made of pure anodised aluminium
The burning position can be adjusted and the floodlight opened without tools

Ready for connection with 5 m cable and 48 V plug

LED colour temperature 3000 K

Luminaire colour graphite



	Lamp			Lumen	EEC	A	B	C	D
55 078	with earth spike	LED	4.2 W (5.5 W)*	445	A++	105	390	110	–
55 079	with ring base	LED	4.2 W (5.5 W)*	445	A++	105	175	110	175

* Luminaire connected wattage



A BEGA Smart Home Gateway 70588 for controlling your BEGA Plug&Play lighting system by app from a smartphone or tablet can be found on Page 555.

BEGA Plug&Play **LED garden luminaires** with earth spike

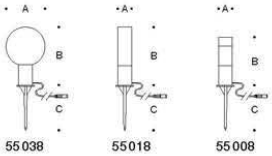
Portable LED garden luminaires 48V DC with earth spike for unshielded light

Protection class IP 65
Housing and earth spike made of glass fibre reinforced polyamide
Opal glass with thread

Ready for connection with 5m cable and 48V plug

LED colour temperature 3000K

Luminaire colour graphite



55038 55018 55008

	Lamp		Lumen	EEC	A	B	C
55038	LED	3.2W (4.0W)*	245	A+	150	260	190
55018	LED	3.2W (4.0W)*	245	A+	70	340	190
55008	LED	3.2W (4.0W)*	245	A+	65	270	190

* Luminaire connected wattage

BEGA Plug&Play **remote control**

ZigBee remote control, e.g. for transformers, **with ZigBee light controller.** 10 Plug&Play luminaires can be individually switched and dimmed.

	System accessories
10526	Remote control

BEGA Plug&Play **extension cables**

With socket and plug, optionally 5m or 10m

Protection class IP67

Colour graphite

	System accessories
10596	Extension cable 5m
10597	Extension cable 10m

Light for the house and the garden
Portable LED luminaire for adjustable directed light

This versatile LED luminaire is characterised especially by the option of adjusting the luminaire head.
It can be turned by +/-30°, and the height is also infinitely adjustable. A luminaire for many small lighting applications in the private garden and in the terrace area.
Shielded light with wide beam light distribution on the illuminated surface. A mobile luminaire which can simply be placed in lawns, flowerbeds or plants with an earth spike.
If required the luminaires can swiftly be moved to a different location. A 5 m connecting cable with mains plug is included in the scope of delivery.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

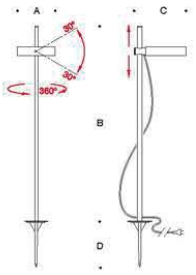
Portable luminaires are secured with an earth spike in the ground.

LED garden luminaire with earth spike · **portable**
for the private sector
shielded, directed light

Protection class IP 65
Cast aluminium and stainless steel
Vertical tube made of anodised aluminium
Light deflection through polycarbonate cover with optical texture
LED colour temperature 3000 K
Ready for connection with 5 m cable and mains plug

For the electrical connection, we recommend BEGA connecting pillars with safety sockets.
For technical data of the connecting pillars, see Page 432.

Luminaire colour graphite



	Lamp		Lumen	EEC	A	B	C	D
55 045	LED	6.4 W	670	A++	160	1000	225	290

Light for the house and the garden
Portable LED luminaires with unshielded light

A new group of portable LED luminaires for the private garden.
On paths, terraces and flowerbeds, these unshielded luminaires create a pleasant light effect. The glass unit made of high-quality three-ply opal glass is optionally available in three versions for illumination purposes: Spheres or cylinders act as unshielded light distributors. Flexible, portable design elements for domestic gardens.
A 5 m connecting cable with mains plug is included in the scope of delivery.
You can find portable luminaires with the same form language on Page 406.
These are luminaires which will impress you through a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 562 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 564.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

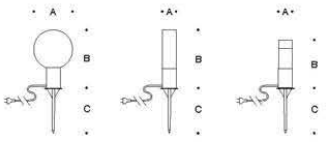
Portable luminaires are secured with an earth spike in the ground.

LED garden luminaires with earth spike · **portable**
with unshielded light

Protection class IP 65
Opal glass with thread
LED colour temperature 3000 K
Housing and earth spike made of glass fibre reinforced polyamide
Ready for connection with 5 m cable and mains plug

For the electrical connection, we recommend the BEGA connecting pillar with safety sockets.
For technical data of the connecting pillars, see Page 432.

Luminaire colour graphite



Garden luminaire · **Sphere**

	Lamp		Lumen	EEC	A	B	C
55 030	LED	3.2 W	245	A+	150	260	190

Garden luminaire · **Cylinder**

	Lamp		Lumen	EEC	A	B	C
55 010	LED	3.2 W	245	A+	70	340	190

Garden luminaire · **Cylinder**

	Lamp		Lumen	EEC	A	B	C
55 005	LED	3.2 W	245	A+	65	270	190

Light for the house and the garden
Portable luminaires with unshielded light
with LED or for lamps with screw base E14 · E27

Portable garden luminaires for atmospheric lighting in private or in larger gardens. Thanks to their portability, they can adapt to changing conditions in their environment.
Two versions of spherical luminaires are available: luminaires with earth spikes for mounting in the ground, or luminaires with base plates, which can stand on ground surfaces without anchorage. Luminaires with earth spikes have a greater distance between the sphere and the ground. They are particularly suitable for use in flowerbeds.
These luminaires develop their distinctive character as design elements in groups with different sphere diameters.
Many different lamps are available today for screw base E14 · E27, e.g. LED lamps, halogen lamps and fluorescent lamps. The LED luminaires from this range of products will impress you through the minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well. The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

Garden luminaires with **earth spike** or with **base plate**
with LED or for lamps with screw base E14 · E27

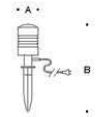
Protection class IP 65
Garden luminaires with earth spike · Safety class II
Earth spike made of glass fibre reinforced polyamide
Ready for connection with 5 m cable and mains plug
Synthetic sphere, white
55041 · 55040 Crystal glass, inside white
55046 Opal glass with thread

For the electrical connection, we recommend the
BEGA connecting pillars with safety sockets.
For technical data of the connecting pillars, see Page 432.

Luminaires with LED · Colour temperature 3000 K

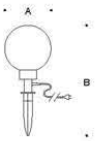
Luminaire colour graphite

Luminaires with base plate · Safety class I
Stainless steel base plate
Synthetic sphere, white



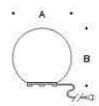
Garden luminaires with **earth spike**

	Lamp		Base	Lumen	EEC	A	B
55041	LED	5.2 W	—	350	A^{+}	95	440
55040	1 lamp	40 W	E14	—	A^{++}-E	95	440



Spheres with **earth spike**

	Lamp		Base	Lumen	EEC	A	B
55042	LED	5.2 W	—	350	A^{+}	250	570
55046	1 lamp	40 W	E14	—	A^{++}-E	150	470
55047	1 lamp	60 W	E27	—	A^{++}-E	250	570
55048	1 lamp	100 W	E27	—	A^{++}-E	350	670

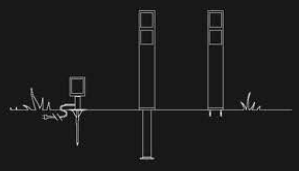


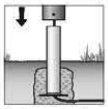
Sphere with **base plate**

	Lamp		Base	Lumen	EEC	A	B
55013	1 lamp	75 W	E27	—	A^{++}-E	350	345
55014	1 lamp	100 W	E27	—	A^{++}-E	450	445
55015	1 lamp	150 W	E27	—	A^{++}-E	550	525
55016	1 lamp	150 W	E27	—	A^{++}-E	630	615

Connecting pillar for the house and the garden

Private gardens also require many possible electrical connections for luminaires and other electrical equipment. For our luminaires for the house and the garden, we can offer you matching connecting pillars with safety sockets.
Three new mounting options are available for your planning: anchorage units and screw-on bases for permanent operation, earth spikes for portable use.
For technical data of the anchorage units and screw-on bases, see Page 530.
You can find connecting pillars for public areas on Page 434.
For the installation and operation of these connecting pillars, national safety regulations must be complied with. Earth fault circuit breakers and fuses must be connected on line side in the sub-main distribution circuit.
All technical data can be found on the Internet in the data sheets issued for the connecting pillars at www.bega.com.





Anchorage unit Screw-on base

Earth spike

Connecting pillars for the private sector
with 2 or 3 safety sockets,

optionally **permanent**
- With **anchorage unit** made of hot-dip galvanised steel
- With **screw-on base** for mounting on foundations

or **portable**
- With **earth spike**

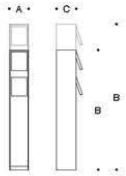
For the technical data of anchorage units and screw-on bases, see Page 530.

Protection class IP 44
Cast aluminium, aluminium, stainless steel and glass fibre reinforced polyamide
Line connector 3 x 2.5□

Portable connecting pillars
ready for connection with 5 m cable and mains plug

If through-wiring to a further connecting pillar is required,
we recommend using distribution box 70 730.
For technical data of the distribution box, see Page 530.

Colour graphite

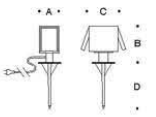


Permanent with **2** safety sockets

		A	B	C
70 704	with anchorage unit	75	500	75
70 706	with screw-on base	75	500	75

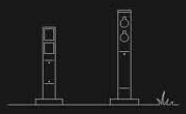
Permanent with **3** safety sockets

		A	B	C
70 705	with anchorage unit	75	600	75
70 709	with screw-on base	75	600	75



Portable with **2** safety sockets

		A	B	C	D
10 713	With earth spike	75	160	125	190



Connecting pillars for electrical power supply

Connecting pillars for the electrical power supply of portable garden luminaires, electrically operated garden equipment and for the electricity supply in public and industrial areas.

- Connecting pillars with installation inserts are factory-wired ready for connection.
- Connecting pillars without installation inserts offer you the option of choosing the type and number of installation inserts for your particular requirements. These pillars are then supplied empty together with the inserts ordered.

Installation must be carried out by approved electrical dealers. For the installation and operation of this connecting pillar, national safety regulations must be complied with.
You can find connecting pillars for private gardens on Page 432.

All technical data can be found on the Internet in the data sheets issued for the connecting pillars at www.bega.com.

Installation inserts for connecting pillars 70382 · 70380

Device holder and cover
glass fibre reinforced synthetic material · Colour graphite

Installation inserts

70170	Safety socket	16 A · 250V ∿
70176	Safety socket B/F	16 A · 250V ∿
70177	Safety socket GB	13 A · 250V ∿
70178	Safety socket US	20 A · 125V ∿
70179	Safety socket CH	10 A · 250V ∿
70171	Two-way switch	10 A · 250V ∿
70172	Pushbutton NOC	10 A · 250V ∿
70173	Control two-way switch	10 A · 250V ∿
70174	Key-operated switch two-way	10 A · 250V ∿
70175	Key-operated switch pushbutton	10 A · 250V ∿
70180	Key cylinder for 70174 + 70175	

Connecting pillars · **permanent** · optionally
- For safety sockets and switches
- For CEE sockets

Cast aluminium, aluminium and stainless steel

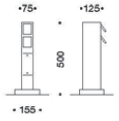
BEGA connecting pillars are bolted with a mounting plate onto a foundation provided by the customer or onto an anchorage unit made of hot-dip galvanised steel.
The mounting system can be used to align the connecting pillar.
Anchorage units are accessories and must be ordered separately.
For technical data about anchorage units, see Page 528

Colour graphite

Connecting pillars · **for safety sockets + switches**

- **With** installation inserts
- **Without** installation inserts

Protection class IP 44
Door and connection terminals 4 x 4 □
PE terminal
Single-phase mains connection

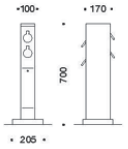


				Anchorage unit
70 375	Connecting pillar **with**	2 safety sockets		**70 895**
70 376	Connecting pillar **with**	1 socket + 1 switch		**70 895**
70 377	Connecting pillar **with**	4 safety sockets		**70 895**
70 378	Connecting pillar **with**	3 sockets + 1 switch		**70 895**
70 382	Connecting pillar **without**	install. inserts for a maximum of **2 inserts**		**70 895**
70 380	Connecting pillar **without**	install. inserts for a maximum of **4 inserts**		**70 895**

Connecting pillars · **for CEE sockets**

- **With** installation inserts

Protection class IP X4
Door and connection terminals 4 x 4 □
PE terminal
Three-phase mains connection



					Anchorage unit
70 383	Connecting pillar **with**	4 CEE sockets	16 A · 250 V ~		**70 895**
70 384	Connecting pillar **with**	2 CEE sockets and 2 CEE sockets	16 A · 250 V ~ 16 A · 400 V ~		**70 895**

Connecting pillars for electrical power supply

BEGA connecting pillars on this double page allow the connection of electrically operated equipment as well as the power supply in public and industrial areas.

- Connecting pillars with installation inserts are factory-wired ready for connection.
- Connecting pillars without installation inserts offer you the option of choosing the type and number of installation inserts for your particular requirements. These pillars are then supplied empty together with the inserts ordered.

Installation must be carried out by approved electrical dealers.
For the installation and operation of these devices, national safety regulations must be complied with.
We can supply the connecting pillars on this double page in versions with and without illumination.
All technical data can be found on the Internet in the data sheets issued for the connecting pillars at www.bega.com.

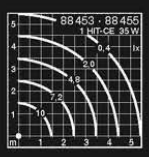
Installation inserts for fitting into the connecting pillars 70 338 and 88 455

Connection compartment for a maximum of 2 inserts

	• CEE sockets	16 A · 400 V ∿
or	• CEE sockets	32 A · 400 V ∿

and for a maximum of 6 inserts

	• CEE sockets	16 A · 250 V ∿
or	• Safety sockets	16 A · 250 V ∿



Installation inserts

70 190	Safety socket	16 A · 250 V ∿
70 191	CEE socket	16 A · 250 V ∿
70 192	CEE socket	16 A · 400 V ∿
70 193	CEE socket	32 A · 400 V ∿

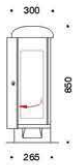
Lockable connecting pillars **without** illumination or **with** illumination, optionally
- **With** installation inserts
- **Without** installation inserts

Protection class IP X4
Cast aluminium, aluminium and stainless steel
88 453 · 88 455 Safety glass
Reflector made of pure anodised aluminium
Door and connection terminals 5 x 16□ or up to 25□ solid

Three-phase mains connection · suitable for through-wiring
Neutral and PE terminal
Safety lock with 2 keys

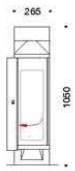
BEGA connecting pillars are bolted with a mounting plate onto a foundation provided by the customer or onto an anchorage unit made of hot-dip galvanised steel.
Anchorage units are accessories and must be ordered separately.
For technical data about anchorage units, see Page 528

Colour graphite



Connecting pillars **without** illumination

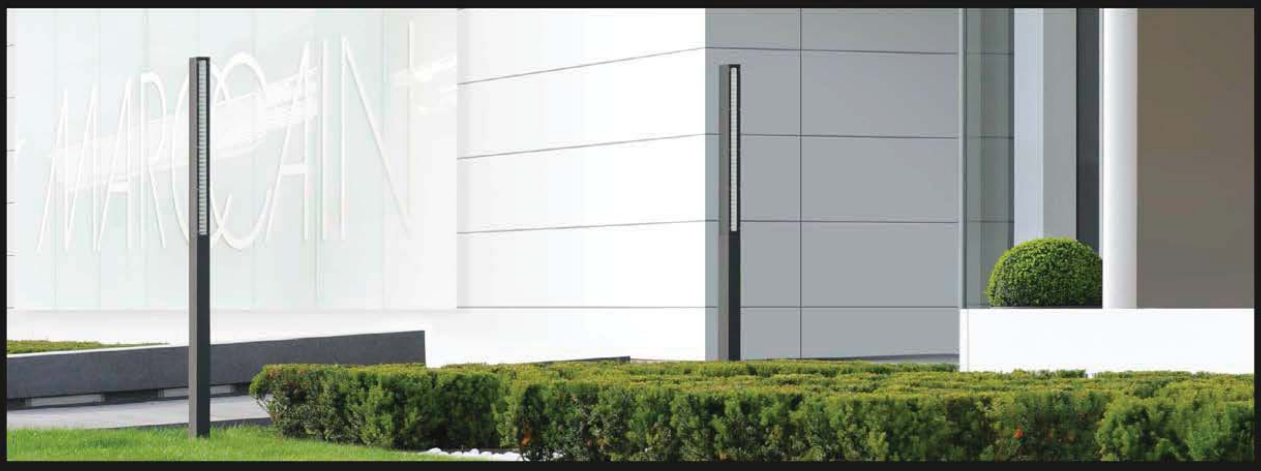
				Anchorage unit
70 238	Connecting pillar **with**	2 CEE sockets	16 A · 400 V ∿	**70 896**
		3 CEE sockets	16 A · 250 V ∿	
		3 safety sockets	16 A · 250 V ∿	
		1 residual current device	40 A · 30 mA	
		2 automatic cutouts	C-16 A 3 pol.	
		6 automatic cutouts	C-16 A 1 pol.	
70 338	Connecting pillar **without**	install. inserts with 2 fuse boxes, 8-part		**70 896**



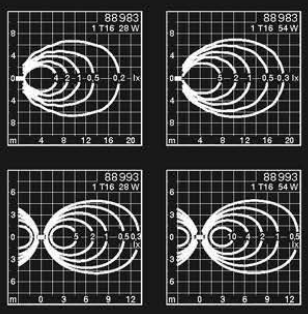
Connecting pillars **with** illumination for 1 HIT-CE 35 W · Base G 12 · 4000 Lumen

				EEC	Anch. unit
88 453	Connecting pillar **with**	2 CEE sockets	16 A · 400 V ∿	A^{+}-A	**70 896**
		3 CEE sockets	16 A · 250 V ∿		
		3 safety sockets	16 A · 250 V ∿		
		1 residual current device	40 A · 30 mA		
		2 automatic cutouts	C-16 A 3 pol.		
		6 automatic cutouts	C-16 A 1 pol.		
88 455	Connecting pillar **without**	install. inserts with 2 fuse boxes, 8-part		A^{+}-A	**70 896**

Light building elements with light emission on one or two sides
for fluorescent lamps



Light building elements are luminous design elements for public areas. They are particularly suitable for dividing and structuring outdoor spaces.
They can be used to guide or lead people and vehicles. Their attention-drawing power is considerably greater than that of pole-top luminaires. Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly.
The luminaires are operated with T 16 fluorescent lamps and are fitted with electronic ballasts. Lamps with two different light outputs can be used. We can also supply these luminaires in safety class II as custom-made products.
On Page 382, you can find bollards whose shape and design match the luminaires on this double page.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



On one side

On two sides

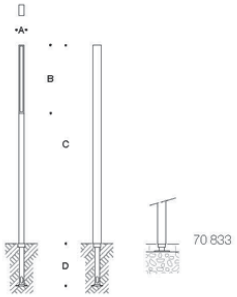
Light building elements with light emission **on one side** or **on two sides** for fluorescent lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
Reflector made of pure anodised aluminium
Electronic ballast for 28 · 54 watts
Door and connection box 70 632
For technical data about connection boxes, see Page 529

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

Please note:
Luminaires including anchorage unit made of hot-dip galvanised steel.
Optionally available for bolting onto a foundation:
mounting base 70 833.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Light emission **on one side**

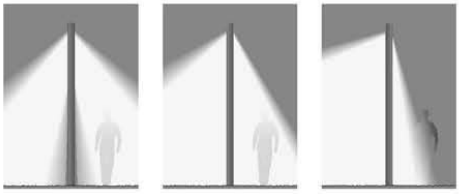
	Lamp	Base	Lumen	EEC	A	B	C	D	AC/DC
88 983	1 T16 54 W	G 5	4450	A^{+}-B	95×155	1200	3500	800	✔

Light emission **on two sides**

	Lamp	Base	Lumen	EEC	A	B	C	D	AC/DC
88 993	1 T16 54 W	G 5	4450	A^{+}-B	95×155	1200	3500	800	✔

LED light building element with adjustable light distribution

A new LED light building element with adjustable light distribution. An internal adjusting device allows you to adjust the optical system on both sides of the luminaire. In this way, symmetrical light distribution can be achieved with the same proportions of light or with different, asymmetrical light distribution.
Light building elements are luminous design elements for public areas.
They are particularly suitable for dividing and structuring outdoor spaces. They can be used to guide or lead people and vehicles. Their attention-drawing power is considerably greater than that of pole-top luminaires. Light building elements can be used to serve the architectonic structure or to highlight it spectacularly. On Page 380, you can find bollards whose shape and design match the luminaires on this double page.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



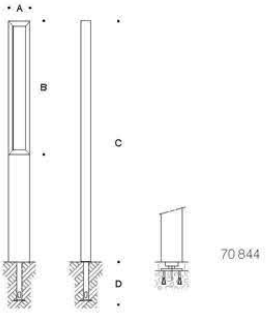
LED light building element
with adjustable light distribution

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
The optical system can be adjusted to 0°, 15° or 30°.
Door and connection box 70 629
For technical data about connection boxes, see Page 529

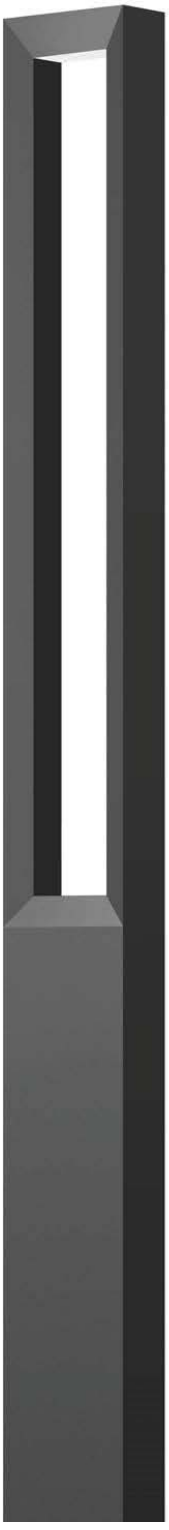
Please note:
Luminaires including anchorage unit made of hot-dip galvanised steel.
Optionally available for bolting onto a foundation: mounting base 70 844.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

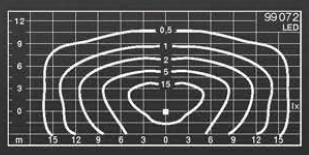


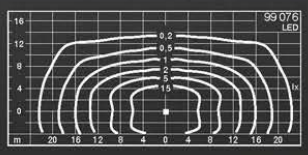
	Lamp		Lumen	EEC	A	B	C	D
99 075	LED	50.6 W	5760	A+	400×180	2500	4500	800



LED light building elements, single and double with asymmetrical flat beam light distribution

New LED light building elements with asymmetrical flat beam light distribution. Cost-effective luminaires with high level of operating efficiency. The luminous efficiency of LED is significantly higher than that of conventional lamps.
Light building elements are luminous design elements for public areas. They are particularly suitable for dividing and structuring outdoor spaces. They can be used to guide or lead people and vehicles. Their attention-drawing power is considerably greater than that of pole-top luminaires.
Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly.
We can also supply these luminaires in safety class II as custom-made products.
On Page 214, you can find wall luminaires whose shape and design match the luminaires on this double page.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.





Asymmetrical flat beam

LED light building elements, **single** and **double**
with asymmetrical flat beam light distribution

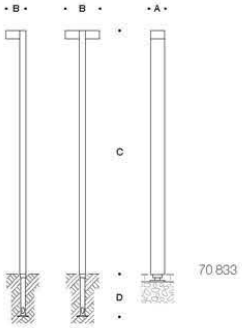
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.
Door and connection box 70 629
For technical data about connection boxes, see Page 529

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

Please note:
Luminaires including anchorage unit made of hot-dip galvanised steel.
Optionally available for bolting onto a foundation:
mounting base 70 833.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Single light building element

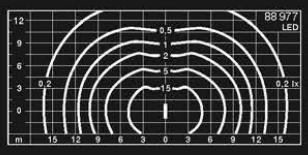
	Lamp		Lumen	EEC	A	B	C	D	AC/DC
99 072	LED	25.2 W	2880	A+	110×240	320	4500	800	✔

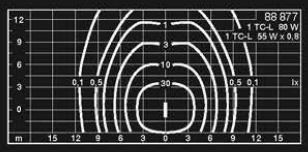
Double light building element

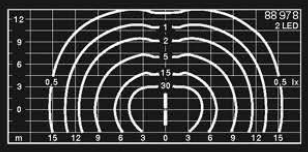
	Lamp		Lumen	EEC	A	B	C	D	AC/DC
99 076	2 LED	25.2 W	5760	A+	110×240	520	4500	800	✔

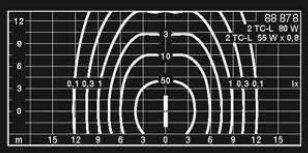
Light building elements with asymmetrical flat beam light distribution with LED or for fluorescent lamps

Light building elements are luminous design elements for public areas. They are particularly suitable for dividing and structuring outdoor spaces. They can be used to guide or lead people and vehicles. Their attention-drawing power is considerably greater than that of pole-top luminaires.
Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly.
We can supply the light building elements on this double page with LED or for energy-saving fluorescent lamps, optionally TC-L 55 watts or 80 watts.
Luminaires for cost-effective lamps with a high level of operating efficiency.
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

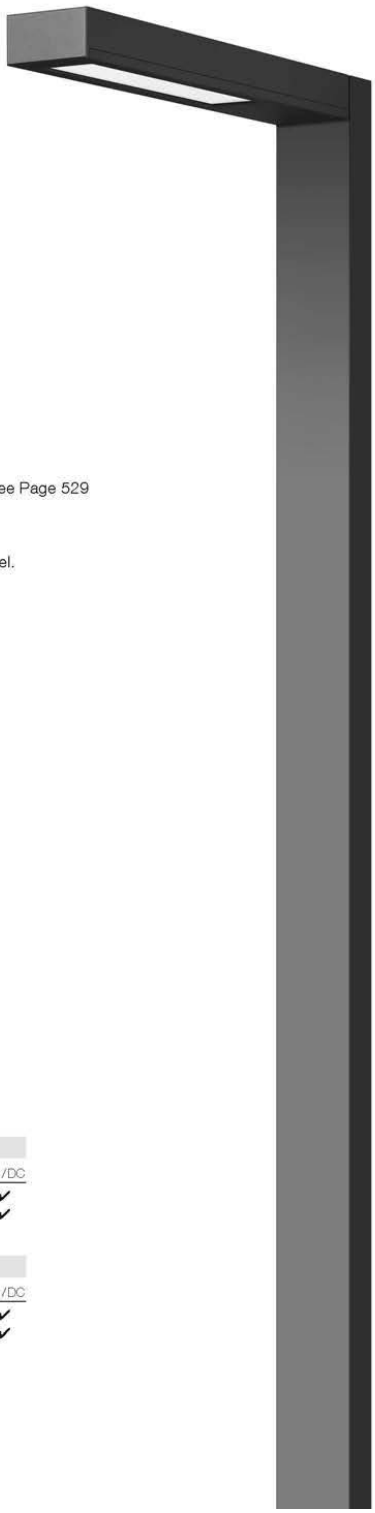








Asymmetrical flat beam



Light building elements, **single** and **double**
with asymmetrical flat beam light distribution
with LED or for fluorescent lamps

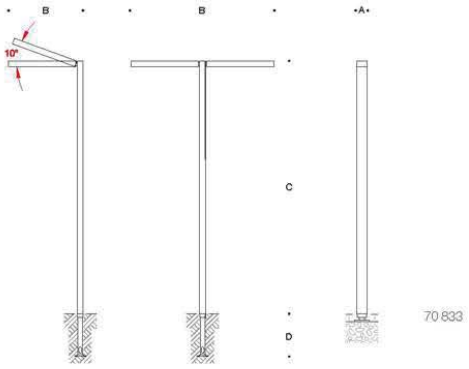
Protection class IP 65
Cast aluminium, aluminium and stainless steel · Safety glass
Reflector made of pure anodised aluminium
Attack angle adjustable to 0° or 10°
Luminaires with LED · dimmable 1-10 V
Luminaires for fluorescent lamps with electronic ballast for 55 · 80 Watts
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
Door and connection box 70 629 · For technical data about connection boxes, see Page 529

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

Please note: Luminaires including anchorage unit made of hot-dip galvanised steel.
Optionally available for bolting onto a foundation: mounting base 70 833.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Single light building elements

	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
88 977	LED	33.6 W	–	3360	A+	95×155	1100	4600	800	✔
88 877	1 TC-L	80.0 W	2 G 11	6500	A-B	95×155	1100	4600	800	✔

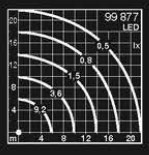
Double light building elements

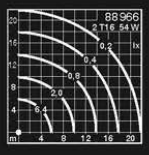
	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
88 978	2 LED	33.6 W	–	6720	A+	95×155	2100	4600	800	✔
88 878	2 TC-L	80.0 W	2 G 11	13000	A-B	95×155	2100	4600	800	✔

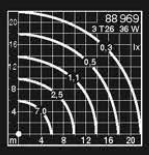
Light building elements
with LED or for fluorescent lamps

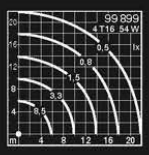
Page 146

Light building elements are luminous design elements for public areas. They are particularly suitable for dividing and structuring outdoor spaces. Their attention-drawing power is significantly greater than that of pole-top luminaires. Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly.
The luminaires on this double page are available in three sizes. They have a square layout and unshielded light emission on four sides. We can also supply these luminaires in safety class II as custom-made products.
You can find bollards whose shape and design match the luminaires on this double page on Page 386 – matching wall luminaires on Page 146.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.









Light building elements
with LED or for fluorescent lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel · White synthetic cover
99 877 dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
88 966 with electronic ballast for 28 · 54 watts
88 966 · 88 969 Door and connection box 70 632
99 877 · 99 899 Door and connection box 70 629
For technical data about connection boxes, see Page 529

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

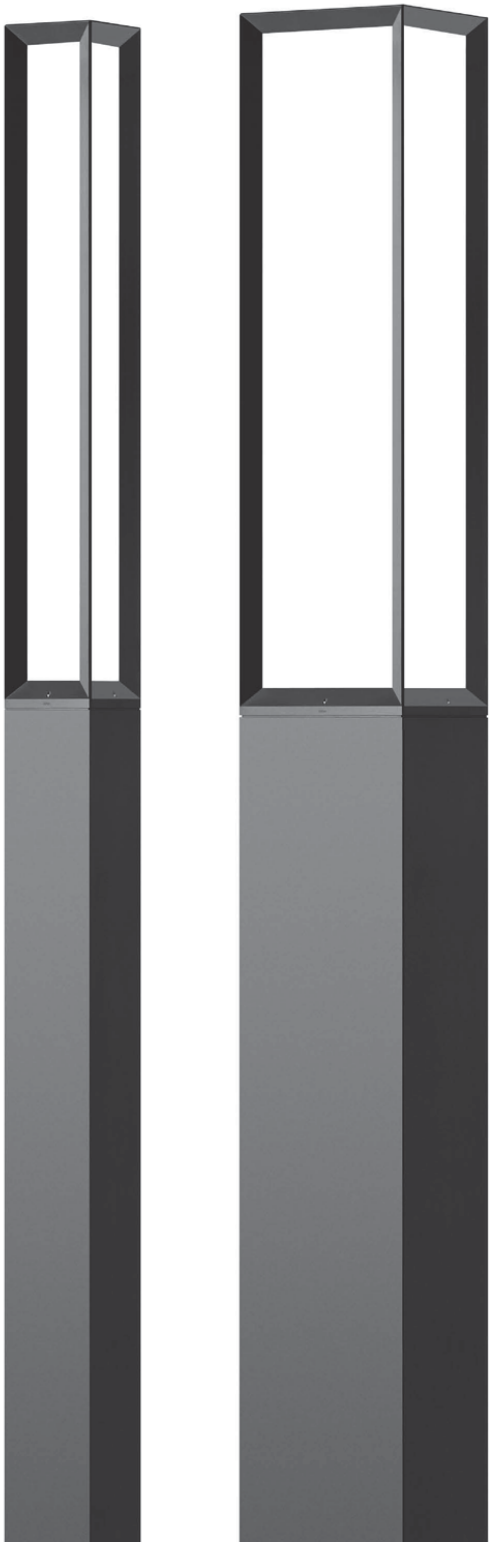
Please note:
Luminaires including anchorage unit made of hot-dip galvanised steel.
Optionally available for bolting onto a foundation:
Mounting base 70 819 for luminaire 88 966
Mounting base 70 829 for luminaire 88 969.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

70 819 · 70 829

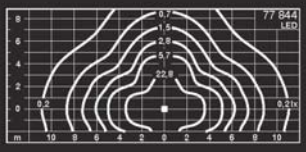
	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
99 877	LED 110.4 W		–	13 800	A^{++}	400×400	1350	5000	1200	–
88 966	2 T16	54 W	G 5	8900	A^{+}-B	160×160	1250	4000	800	✔
88 969	3 T26	36 W	G 13	10 050	A^{+}-B	220×220	1350	5000	800	–
99 899	4 T16	54 W	G 5	17 800	A^{+}-B	400×400	1350	5000	1200	✔

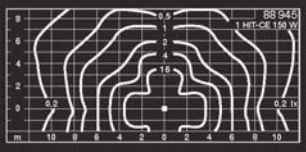


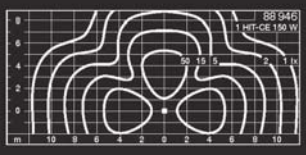
Light building elements with symmetrical light distribution with LED or for discharge lamps

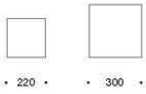
Page 378

Light building elements are luminous design elements for public areas. They are particularly suitable for dividing and structuring outdoor spaces. Their attention-drawing power is considerably greater than that of pole-top luminaires. Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly.
The luminaires on this double page have a square layout and wide beam light distribution on four sides. Safety glass visible in its entire material thickness increases the amount of vertical illuminance through the light emission to the side.
The luminaires are operated using LED or discharge lamps. We can also supply these luminaires in safety class II as custom-made products.
On Page 378, you can find bollards whose shape and design match the luminaires on this double page.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.









• 220 • • 300 •

Light building elements with **symmetrical** light distribution
with LED or for discharge lamps

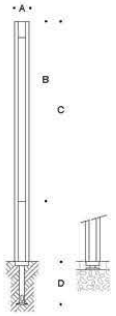
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
77 844 dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
77 844 · 88 945 Door and connection box 70 632
88 946 Door and connection box 70 629
For technical data about connection boxes, see Page 529

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

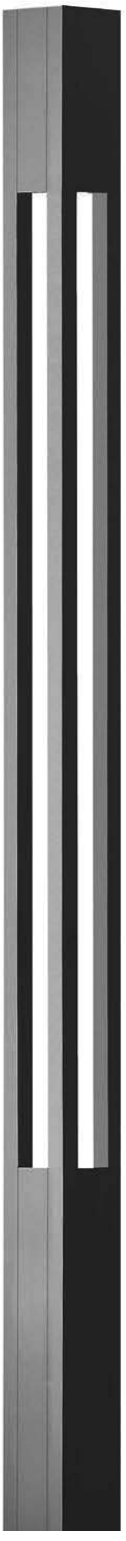
Please note:
Luminaires including anchorage unit made of hot-dip galvanised steel.
Optionally available for bolting onto a foundation:
Mounting base 70 829 for luminaire 77 844 · 88 945
Mounting base 70 848 for luminaire 88 946.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
77 844	LED	36.2 W	–	5165	A^{++}	220×220	3600	4500	800	✔
88 945	1 HIT-CE	150 W	G12	15 100	A^{+}-A	220×220	3600	4500	800	–
88 946	1 HIT-CE	150 W	G12	15 100	A^{+}-A	300×300	4800	6000	1000	–



Page 358

Light building elements with symmetrical light distribution with LED or for discharge lamps

Light building elements are luminous design elements for public areas. They can be used to guide or lead people and vehicles. Their attention-drawing power is considerably greater than that of pole-top luminaires. Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly.

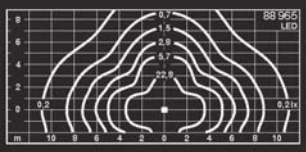
The luminaires on this double page have a round cross-section and wide beam light distribution on four sides. Safety glass visible in its entire material thickness increases the amount of vertical illuminance through the light emission to the side.

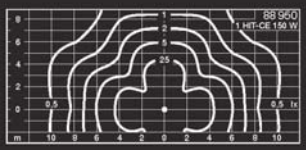
The luminaires are operated using LED or discharge lamps. We can also supply these luminaires in safety class II as custom-made products.

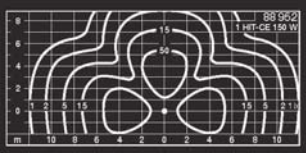
On Page 358, you can find bollards whose shape and design match the luminaires on this double page.

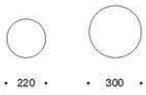
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.

The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.









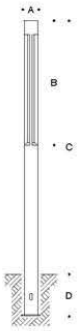
Light building elements with **symmetrical** light distribution
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
88 965 dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
88 965 · 88 950 Door and connection box 70 632
88 952 Door and connection box 70 629
For technical data about connection boxes, see Page 529
Luminaires including anchorage unit

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

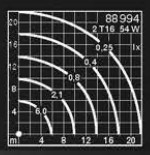
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

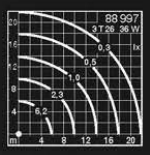


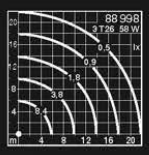
	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
88 965	LED	36.2 W	–	5165	A^{++}	⌀220	2300	4500	800	✔
88 950	1 HIT-CE	150 W	G12	15 100	A^{+}-A	⌀220	2300	4500	800	–
88 952	1 HIT-CE	150 W	G12	15 100	A^{+}-A	⌀300	3000	6000	1000	–

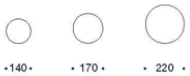
Unshielded light building elements for fluorescent lamps

Light building elements are luminous design elements for public areas. They are particularly suitable for dividing and structuring outdoor spaces.
They can be used to guide or lead people and vehicles. Their attention-drawing power is considerably greater than that of pole-top luminaires.
Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly.
The light building elements on this double page are unshielded with light emission on all sides.
These luminaires are available in three sizes for the differing dimensions of the installation site.
Luminaire 88 994 is operated with T 16 fluorescent lamps and is fitted with integral electronic ballasts. Lamps with optionally 28 watts or 54 watts can be used in this luminaire.
On request, the luminaires are also available with a base plate. We can also supply these luminaires in safety class II as custom-made products.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.









Light building elements for fluorescent lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
White synthetic cylinder
88 994 with electronic ballast for 28 · 54 watts
Door and connection box 70 632
For technical data about connection boxes, see Page 529
Luminaires including anchorage unit

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
88 994	2 T 16	54 W	G 5	8900	A+-B	Ø140	1400	4000	800	✔
88 997	3 T 26	36 W	G 13	10 050	A+-B	Ø170	1600	5000	1000	–
88 998	3 T 26	58 W	G 13	15 600	A+-B	Ø220	2000	6500	1000	–

Light building elements with symmetrical or asymmetrical flat beam light distribution with LED or for discharge lamps

Light building elements are luminous design elements for public areas. They can be used to guide or lead people and vehicles. Their attention-drawing power is considerably greater than that of pole-top luminaires. Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly. These light building elements are ideal for the energy-efficient illumination of streets, parking spaces and traffic-calmed areas.

These luminaires are available in two sizes for the differing dimensions of the installation site.

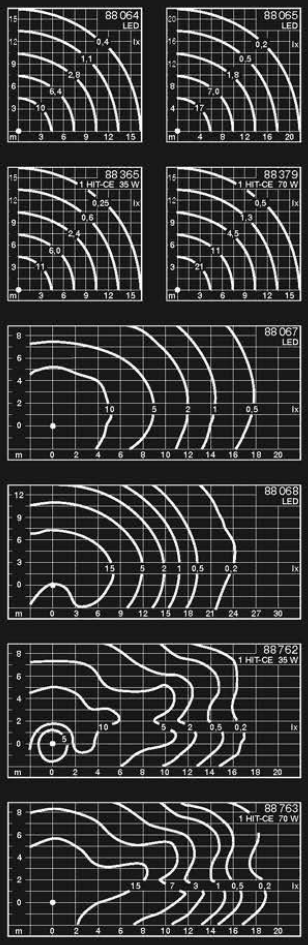
Optionally two light distributions are available. Luminaires with symmetrical or asymmetrical flat beam light distribution. Symmetrical light distribution is ideal for illuminating squares, while asymmetrical flat beam light distribution is particularly suitable for illuminating streets.

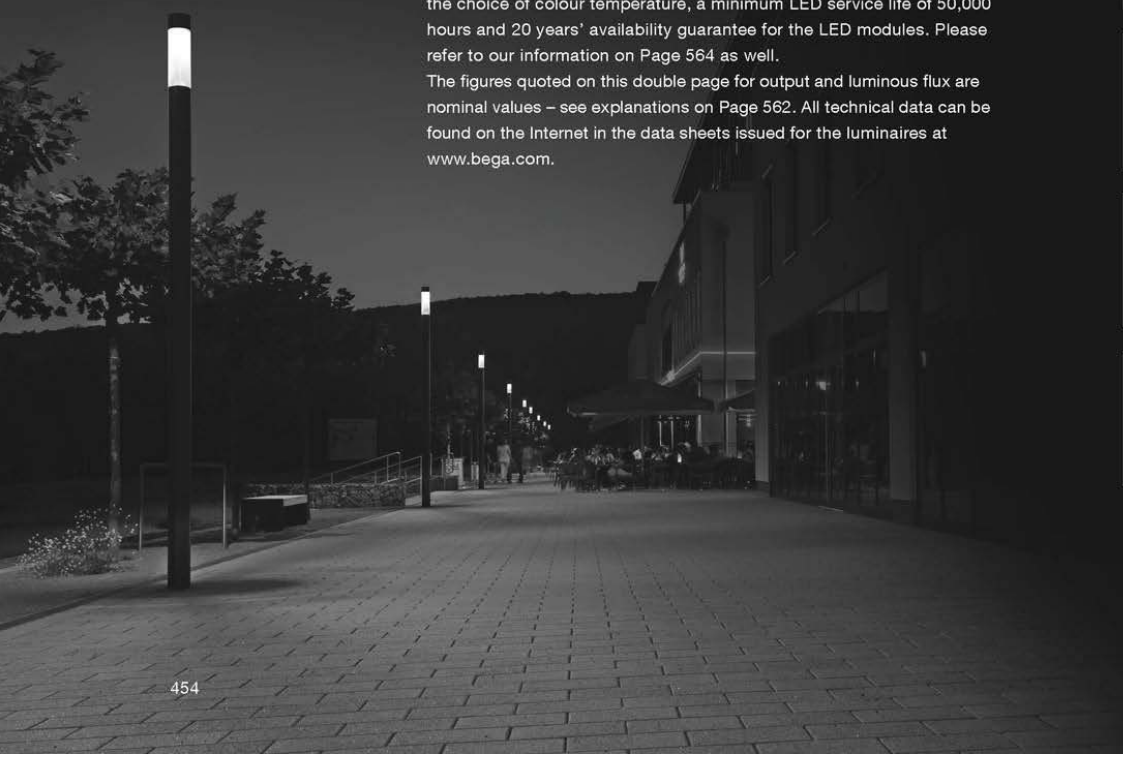
The luminaires are operated using LED or discharge lamps.

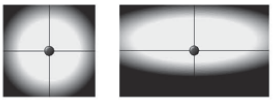
We can also supply these luminaires with a base plate and in safety class II as custom-made products.

The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.

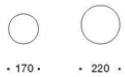
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.







Symmetrical Asymmetrical flat beam



Light building elements with **symmetrical**
or **asymmetrical flat beam** light distribution
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Synthetic cylinder made of polycarbonate
Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
Luminaires for discharge lamps with electronic ballast for 35 · 70 Watts
Door and connection box 70 632
For technical data about connection boxes, see Page 529
Luminaires including anchorage unit

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Light building elements · **symmetrical**

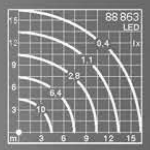
	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
88 064	LED	44.2 W	–	5040	A+	170	600	4500	800	✔
88 065	LED	71.6 W		8975	A++	220	600	5000	1000	✔
88 365	1 HIT-CE	35 W	G 12	4000	A+-A	170	600	4500	800	–
88 379	1 HIT-CE	70 W	G 12	7800	A+-A	170	600	4500	800	–

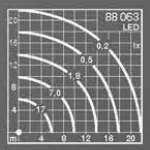
Light building elements · **asymmetrical flat beam**

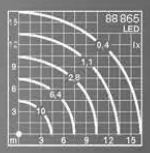
	Lamp		Base	Lumen	EEC	A	B	C	D	AC/DC
88 067	LED	44.2 W	–	5040	A+	170	600	4500	800	✔
88 068	LED	71.6 W		8975	A++	220	600	5000	1000	✔
88 762	1 HIT-CE	35 W	G 12	4000	A+-A	170	600	4500	800	–
88 763	1 HIT-CE	70 W	G 12	7800	A+-A	170	600	4500	800	–

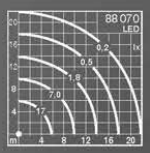
LED light building elements with symmetrical light distribution with 1 or 2 adjustable floodlights

Light building elements are luminous design elements for public areas. They can be used to guide or lead people and vehicles. Their attention-drawing power is considerably greater than that of pole-top luminaires.
Light building elements can be used to serve the architectonic structure or even to highlight it spectacularly. These new light building elements can be used for various lighting applications in your lighting plans.
They are ideal for the energy-efficient illumination of streets, parking spaces and traffic-calmed areas. On the other hand, they enable the illumination of architectonic details in the immediate vicinity of the luminaires.
Façade elements, trees and other design elements in public spaces can be impressively accentuated with the additional LED high-performance floodlights.
These luminaires are available in two sizes for the differing dimensions of the installation site. We can also supply these luminaires with a base plate and in safety class II as custom-made products.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



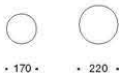







Adjustable floodlight

Symmetrical



LED light building elements with **symmetrical** light distribution
with **1** or **2 adjustable floodlights**

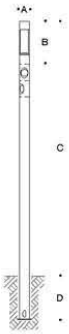
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Synthetic cylinder, clear
Reflector made of pure anodised aluminium
88 863 · 88 865 Luminaire head dimmable 1-10 V
88 063 · 88 070 Luminaire head and floodlight dimmable 1-10 V
The inclination angle of the individual floodlights is adjustable from 0° to 30°.
The individual floodlights can be rotated by 360° around the vertical
axis of the light building element.
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
Door and connection box 70 647 · For technical data about connection boxes, see Page 529
Luminaires including anchorage unit

Diffuser disks, either diffusing or flat beam, are available
for the floodlights of the light building elements.

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Light building elements · **1 floodlight**

	Lamp		Lumen	EEC	β	A	B	C	D	AC/DC		
88 863	LED	44.2 W	5040	A+	–	170	600	4500	800	✔	–	–
	LED	9.7 W	1080	A+	19°						**10 047**	**10 016**
88 063	LED	71.6 W	8975	A++	–	220	600	5000	1000	✔	–	–
	LED	19.3 W	2160	A+	19°						**10 043**	**10 014**

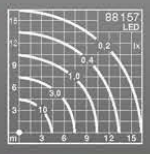
Light building elements · **2 floodlights**

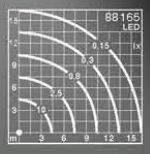
	Lamp		Lumen	EEC	β	A	B	C	D	AC/DC		
88 865	LED	44.2 W	5040	A+	–	170	600	4500	800	✔	–	–
	2 LED	9.7 W	2160	A+	19°						**10 047**	**10 016**
88 070	LED	71.6 W	8975	A++	–	220	600	5000	1000	✔	–	–
	2 LED	19.3 W	4320	A+	19°						**10 043**	**10 014**

Diffuser disks for floodlights diffusing flat beam β = half beam angle

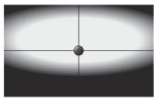
LED light building elements with unshielded, symmetrical or asymmetrical flat beam light distribution

Light building elements are luminous design elements for public areas. They are particularly suitable for dividing and structuring outdoor spaces. They can be used to guide or lead people and vehicles. Light building elements with different light distribution for energy-efficient illumination of residential streets, parking spaces and traffic-calmed areas.
The product design and construction of these luminaires stand for the implementation of our LED technology in line with market conditions. Luminaires with translucent white synthetic cover create an unshielded, symmetrical light distribution with pleasant visual comfort.
With a clear synthetic cover, they are available optionally with symmetrical or asymmetrical flat beam light distribution and a high degree of illuminance. These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.





Symmetrical



Asymmetrical flat beam

LED light building elements with **unshielded**, **symmetrical** or **asymmetrical flat beam** light distribution

Protection class IP 65 · Safety class II
Cast aluminium, aluminium and stainless steel
Synthetic cover, translucent white or clear
88 165 · 88 166 reflector made of pure anodised aluminium
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface can be found on Page 529
Door and connection box 70 632
For technical data about connection boxes, see Page 529
Cylindrical pole Ø 135 mm

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Unshielded · Synthetic cover, **translucent white**

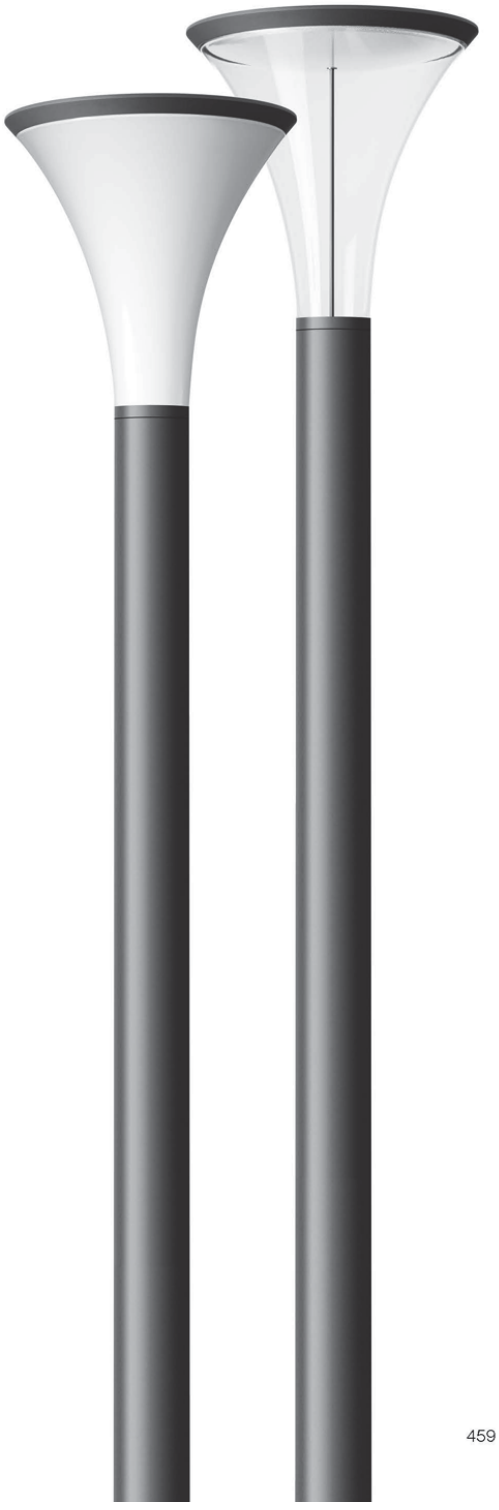
	Lamp		Lumen	EEC	A	B	C	D
88 157	LED	32 W	4400	A++	500	550	4000	800

Symmetrical · Synthetic cover, **clear**

	Lamp		Lumen	EEC	A	B	C	D
88 165	LED	32 W	4400	A++	500	550	4000	800

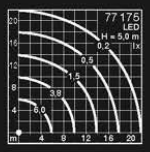
Asymmetrical flat beam · Synthetic cover, **clear**

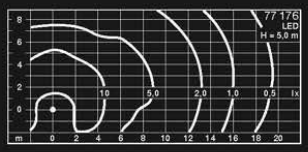
	Lamp		Lumen	EEC	A	B	C	D
88 166	LED	32 W	4400	A++	500	550	4000	800

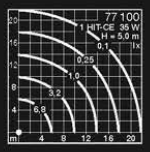


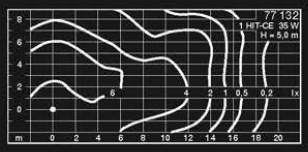
Pole-top luminaires
with symmetrical or asymmetrical flat beam light distribution with LED or for discharge lamps
Mounting heights 3500 - 6000 mm

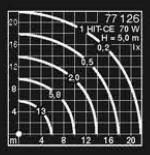
Pole-top luminaires with LED or for discharge lamps. Optionally with symmetrical or asymmetrical flat beam light distribution.
The asymmetrical light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
Luminaires for energy-efficient illumination of urban streets, parking spaces and traffic-calmed areas.
We can also supply these luminaires in safety class II as custom-made products.
On Page 462, you can find pole-top luminaires whose shape and design match the luminaires on this double page, light building elements: Page 454.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

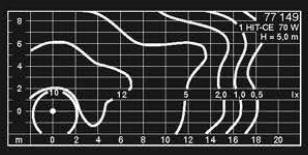












Symmetrical

Asymmetrical flat beam

Pole-top luminaires, optionally
• With **symmetrical** light distribution or
• With **asymmetrical flat beam** light distribution
with LED or for discharge lamps

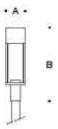
Protection class IP 65
Cast aluminium, aluminium and stainless steel · Synthetic cylinder, clear
Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.
Luminaires for discharge lamps with electronic ballast

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

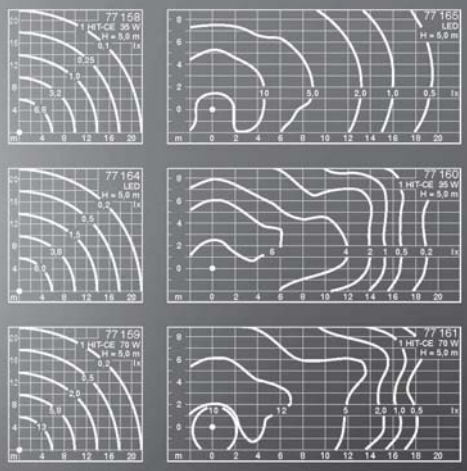


Pole-top luminaires · **symmetrical**											Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups
77 175	LED	44.2 W	–	5040	A+	✔	170	660	3500 - 6000	⌀76	34 · 14 · 33
77 100	1 HIT-CE	35 W	G 12	4000	A+ - A	–	170	660	3500 - 6000	⌀76	34 · 14 · 33
77 126	1 HIT-CE	70 W	G 12	7800	A+ - A	–	170	660	3500 - 6000	⌀76	34 · 14 · 33

Pole-top luminaires · **asymmetrical flat beam**											Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups
77 176	LED	44.2 W	–	5040	A+	✔	170	660	3500 - 6000	⌀76	34 · 14 · 33
77 132	1 HIT-CE	35 W	G 12	4000	A+ - A	–	170	660	3500 - 6000	⌀76	34 · 14 · 33
77 149	1 HIT-CE	70 W	G 12	7800	A+ - A	–	170	660	3500 - 6000	⌀76	34 · 14 · 33

Pole-top luminaires
with symmetrical or asymmetrical flat beam light distribution with LED or for discharge lamps
Mounting heights 3500 - 6000 mm

Pole-top luminaires with LED or for discharge lamps.
Optionally with symmetrical or asymmetrical flat beam light distribution.
The asymmetrical light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
Luminaires for energy-efficient illumination of urban streets, parking spaces and traffic-calmed areas.
We can also supply these luminaires in safety class II as custom-made products.
On Page 460, you can find pole-top luminaires whose shape and design match the luminaires on this double page.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



Symmetrical

Asymmetrical flat beam

Pole-top luminaires, optionally
• With **symmetrical** light distribution or
• With **asymmetrical flat beam** light distribution
with LED or for discharge lamps

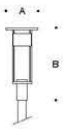
Protection class IP 65
Cast aluminium, aluminium and stainless steel · Synthetic cylinder, clear
Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.
Luminaires for discharge lamps with electronic ballast

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page.
You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

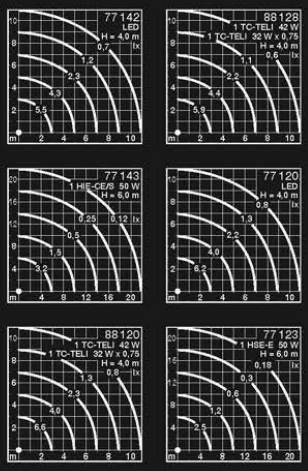


Pole-top luminaires · **symmetrical**											Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups
77164	LED	44.2 W	–	5040	A+	✔	260	660	3500 - 6000	⌀76	34 · 14 · 33
77158	1 HIT-CE	35 W	G 12	4000	A+ - A	–	260	660	3500 - 6000	⌀76	34 · 14 · 33
77159	1 HIT-CE	70 W	G 12	7800	A+ - A	–	260	660	3500 - 6000	⌀76	34 · 14 · 33

Pole-top luminaires · **asymmetrical flat beam**											Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups
77165	LED	44.2 W	–	5040	A+	✔	260	660	3500 - 6000	⌀76	34 · 14 · 33
77160	1 HIT-CE	35 W	G 12	4000	A+ - A	–	260	660	3500 - 6000	⌀76	34 · 14 · 33
77161	1 HIT-CE	70 W	G 12	7800	A+ - A	–	260	660	3500 - 6000	⌀76	34 · 14 · 33

Pole-top luminaires with symmetrical light distribution with LED or for fluorescent and discharge lamps Mounting heights 3500 - 6000 mm

Pole-top luminaires with symmetrical light distribution optionally with clear or white synthetic cover.
With clear synthetic cover and reflector for brilliant directed light or with white light-diffusing synthetic cover for uniform soft light. Luminaires for illuminating paths, streets, parking spaces and traffic-calmed areas.
We can also supply these luminaires in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



Symmetrical

Pole-top luminaires
with symmetrical light distribution
with LED or for fluorescent and discharge lamps

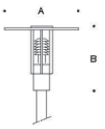
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Synthetic cylinder, clear with reflector or synthetic cylinder, white
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.
Luminaires for fluorescent lamps with electronic ballast for 26 · 32 · 42 watts

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour
as well as design and statics match the pole-top luminaires on this double page.
You can find the complete overview as well as the technical data of all BEGA
luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

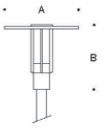
LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Synthetic cylinder, **clear** with reflector · Fig. left

	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Luminaire poles Groups	
77142	LED	37.8 W	–	4320	A+	✔	650	600	4000 - 6000	⌀76	34 · 14	32 · 12
88128	1 TC-TELI	42 W	GX24q-3/4	3200	A - B	✔	650	600	3500 - 5000	⌀76	34 · 14	32 · 12
77143	1 HSE-E	50 · 70 W	E 27	6600	A+ - A	–	800	740	4000 - 6000	⌀76	34 · 14	32 · 12
	1 HIE-CE/S	50 · 70 W	E 27	7900		–	800	740	4000 - 6000	⌀76	34 · 14	32 · 12

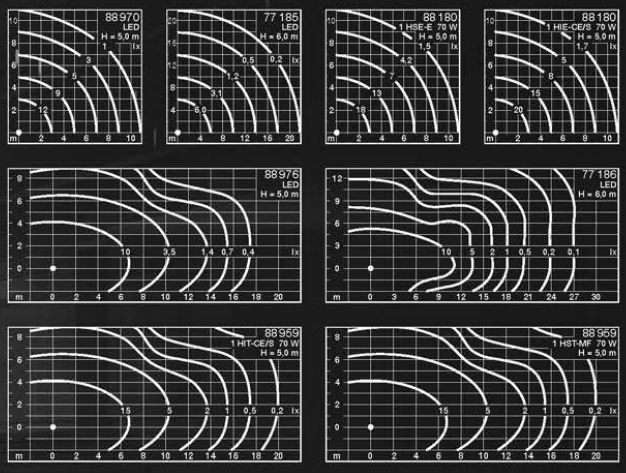


Synthetic cylinder, **white** · Fig. right

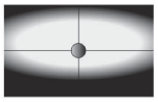
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Luminaire poles Groups	
77120	LED	37.8 W	–	4320	A+	✔	650	600	4000 - 6000	⌀76	34 · 14	32 · 12
88120	1 TC-TELI	42 W	GX24q-3/4	3200	A - B	✔	650	600	3500 - 5000	⌀76	34 · 14	32 · 12
77123	1 HSE-E	50 · 70 W	E 27	6600	A+ - A	–	800	740	4000 - 6000	⌀76	34 · 14	32 · 12
	1 HIE-CE/S	50 · 70 W	E 27	7900		–	800	740	4000 - 6000	⌀76	34 · 14	32 · 12

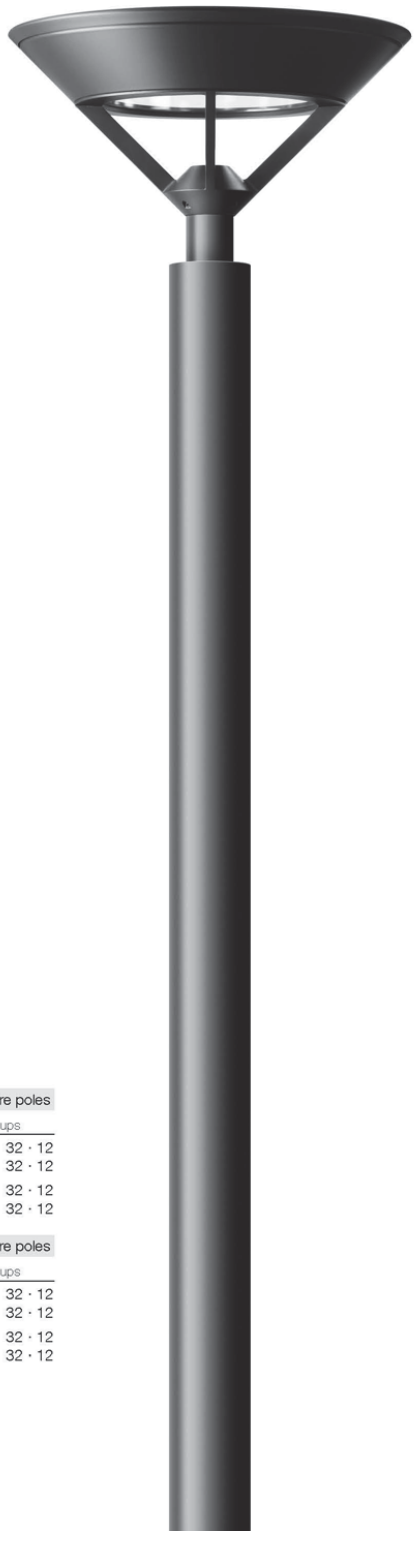
Pole-top luminaires with symmetrical or asymmetrical flat beam light distribution with LED or for discharge lamps Mounting heights 4000 - 6000 mm

Pole-top luminaires with LED or for discharge lamps, optionally with symmetrical or asymmetrical flat beam light distribution.
In different sizes and light outputs for illuminating paths, streets, parking spaces, driveways and traffic-calmed areas.
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.




Symmetrical


Asymmetrical flat beam



Pole-top luminaires with **symmetrical** or
asymmetrical flat beam light distribution
with LED or for discharge lamps

Protection class IP 54
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour
as well as design and statics match the pole-top luminaires on this double page.
For the luminaire poles on this double page, we recommend BEGA luminaire poles
with a top height of 130 mm.
You can find the complete overview as well as the technical data of all BEGA
luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

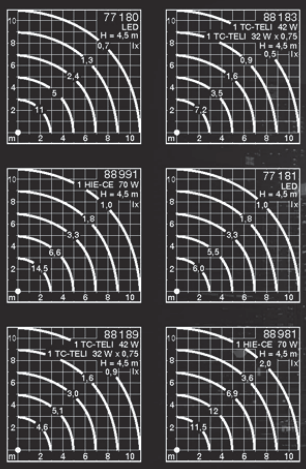
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

Pole-top luminaires · **symmetrical**											Luminaire poles	
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups	
88970	LED	39 W	–	3100	A	✔	710	360	4000 - 5000	Ø76	34 · 14	32 · 12
77185	LED	78 W	–	6180	A	✔	710	360	4000 - 6000	Ø76	34 · 14	32 · 12
88180	1 HSE-E	50-70 W	E 27	6600	A+-A	–	710	360	4000 - 6000	Ø76	34 · 14	32 · 12
	1 HIE-CE/S	50-70 W	E 27	7900		–	710	360	4000 - 6000	Ø76	34 · 14	32 · 12

Pole-top luminaires · **asymmetrical flat beam**											Luminaire poles	
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups	
88976	LED	39 W	–	3100	A	✔	710	360	4000 - 5000	Ø76	34 · 14	32 · 12
77186	LED	80 W	–	6600	A	✔	710	360	4000 - 6000	Ø76	34 · 14	32 · 12
88959	1 HST-MF	50-70 W	E 27	6600	A+-A	–	710	360	4000 - 6000	Ø76	34 · 14	32 · 12
	1 HIT-CE/S	50-70 W	E 27	7900		–	710	360	4000 - 6000	Ø76	34 · 14	32 · 12

Pole-top luminaires with symmetrical light distribution with LED or for fluorescent and discharge lamps Mounting heights 3500 - 6000 mm

Pole-top luminaires with symmetrical light distribution. Optionally with white light-diffusing synthetic cover for soft pleasantly uniform light, or with clear synthetic cover and internal lamellar reflector for brilliant directed light.
For illuminating paths, streets, parking spaces, driveways and traffic-calmed areas. We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



Symmetrical

Pole-top luminaires with symmetrical light distribution
with LED or for fluorescent and discharge lamps

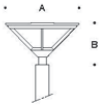
Protection class IP 54
Cast aluminium, aluminium and stainless steel
Synthetic cover, white or synthetic cover, clear with lamellar reflector
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
Luminaires for fluorescent lamps with electronic ballast for 26 · 32 · 42 watts

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

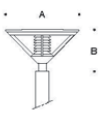
In the table, we recommend BEGA luminaire poles whose surface quality and colour
as well as design and statics match the pole-top luminaires on this double page.
For the luminaire poles on this double page, we recommend BEGA luminaire poles
with a top height of 130 mm.
You can find the complete overview as well as the technical data of all BEGA
luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

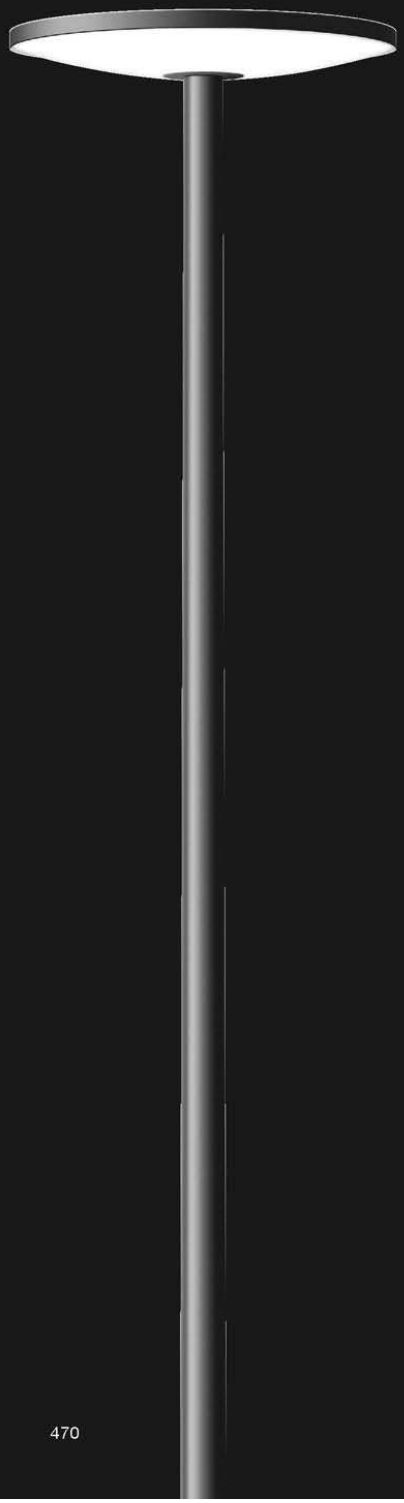
Luminaire colour graphite



Synthetic cover, **white** · Fig. left											Luminaire poles	
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups	
77 180	LED	37.8 W	–	4320	A+	✔	710	360	3500 - 5000	⌀76	34 · 14	32 · 12
88 183	1 TC-TELI	42 W	GX24q-3/4	3200	A - B	✔	710	360	3500 - 5000	⌀76	34 · 14	32 · 12
88 991	1 HIE-CE	70 W	E 27	7200	A+ - A	–	710	360	3500 - 6000	⌀76	34 · 14	32 · 12

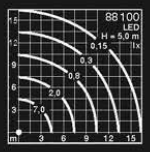


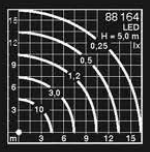
Synthetic cover, **clear** with lamellar reflector · Fig. right											Luminaire poles	
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups	
77 181	LED	37.8 W	–	4320	A+	✔	710	360	3500 - 5000	⌀76	34 · 14	32 · 12
88 189	1 TC-TELI	42 W	GX24q-3/4	3200	A - B	✔	710	360	3500 - 5000	⌀76	34 · 14	32 · 12
88 981	1 HIE-CE	70 W	E 27	7200	A+ - A	–	710	360	3500 - 6000	⌀76	34 · 14	32 · 12

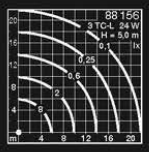


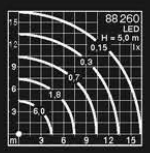
Pole-top luminaires with symmetrical light distribution with LED or for fluorescent lamps Mounting heights 4000 - 6000 mm

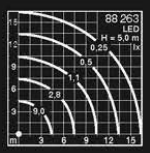
Two series of pole-top luminaires with symmetrical light distribution. Designed and produced for LED and TC-L energy-saving fluorescent lamps, 24 or 36 watts, these luminaires will convince you thanks to their high level of operating efficiency and their modern flat appearance. A luminaire concept whose light distribution, uniformity of light and energy efficiency are ideal for the illumination of residential streets, parking spaces and traffic-calmed areas.
We can also supply these luminaires with power reduction and in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

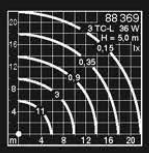


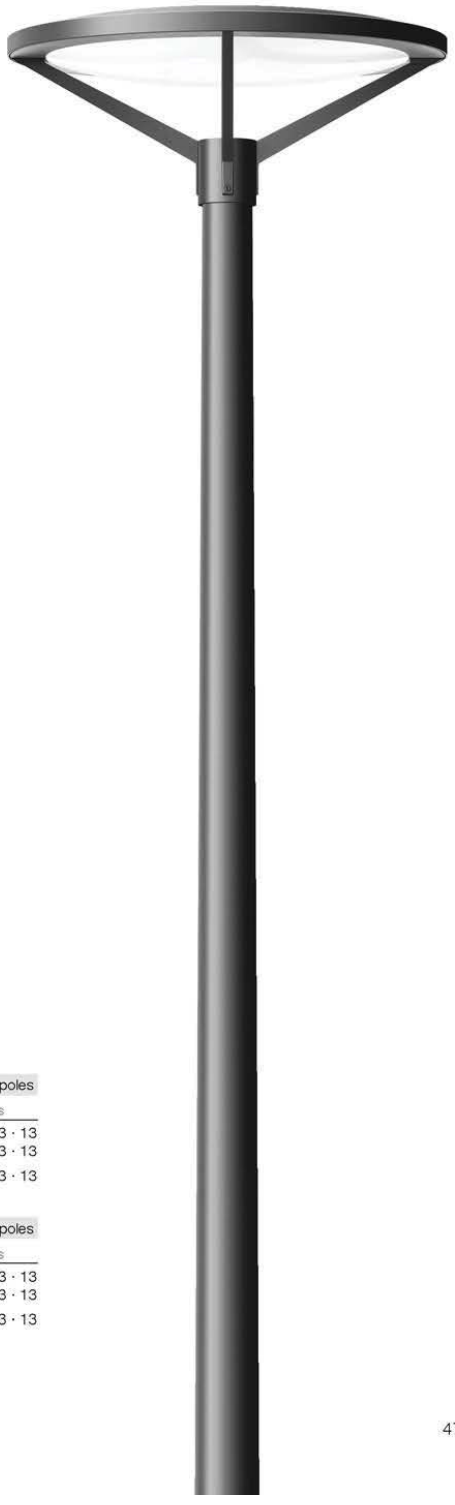












Symmetrical

Pole-top luminaires with symmetrical light distribution
with LED or for fluorescent lamps

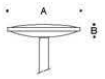
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Synthetic cover with white light-diffusing matt finish
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
Luminaires for fluorescent lamps with electronic ballast
88 156 with electronic ballast for 18 · 24 watts

You can find luminaires for operating with alternating
and direct current in the table under AC / DC.

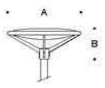
In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

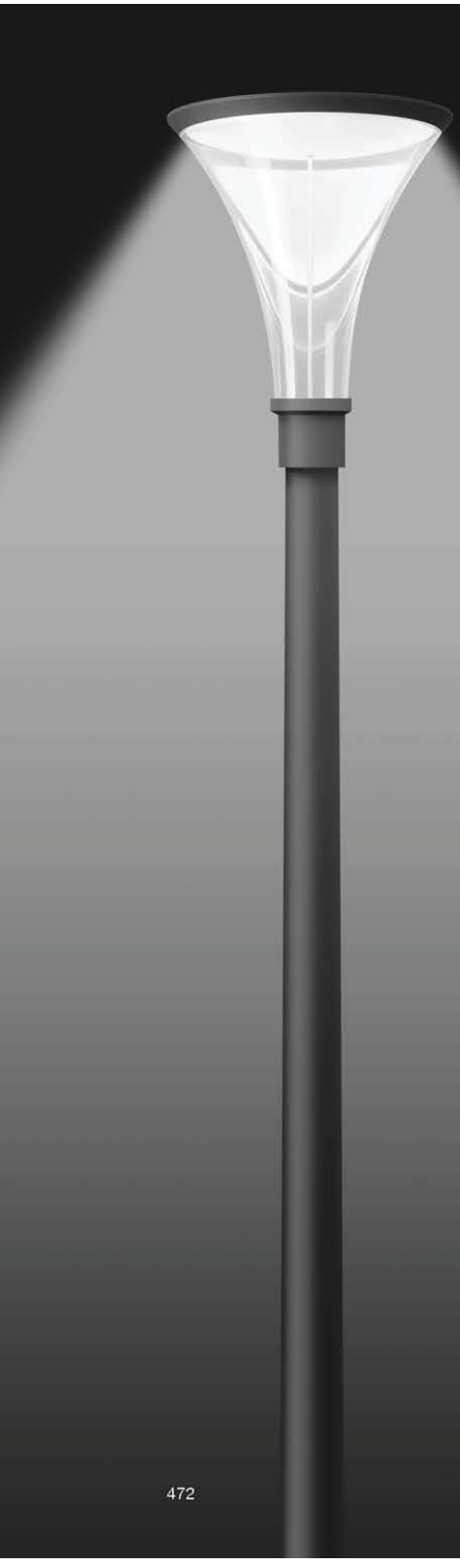
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Pole-top luminaires · Fig. left											Luminaire poles	
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups	
88 100	LED	16.8 W	–	2200	A++	✔	615	130	4000 - 5000	⌀76	34 · 14	33 · 13
88 164	LED	25.2 W	–	3700	A++	✔	615	130	4000 - 6000	⌀76	34 · 14	33 · 13
88 156	3 TC-L	24 W	2 G 11	5400	A - B	✔	615	130	4000 - 6000	⌀76	34 · 14	33 · 13

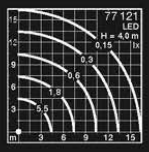


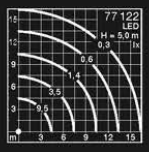
Pole-top luminaires · Fig. right											Luminaire poles	
	Lamp		Base	Lumen	EEC	AC/DC	A	B	For pole heights	Top	Groups	
88 260	LED	16.8 W	–	2200	A++	✔	700	320	4000 - 5000	⌀76	34 · 14	33 · 13
88 263	LED	25.2 W	–	3700	A++	✔	700	320	4000 - 6000	⌀76	34 · 14	33 · 13
88 369	3 TC-L	36 W	2 G 11	8700	A - B	✔	700	320	4000 - 6000	⌀76	34 · 14	33 · 13

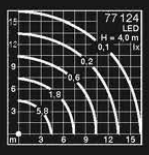


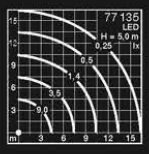
LED pole-top luminaires with unshielded, symmetrical or asymmetrical flat beam light distribution
Mounting heights 3500 - 6000 mm

LED pole-top luminaires with translucent white or clear synthetic cover. Luminaires with translucent white synthetic cover are characterised by a symmetrical and uniformly soft light distribution.
Luminaires with a clear synthetic cover are available optionally with symmetrical or asymmetrical flat beam light distribution. Luminaires for energy-efficient illumination of urban streets, parking spaces and traffic-calmed areas.
The product design and construction of the luminaires stand for the implementation of our LED technology in line with market conditions. These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



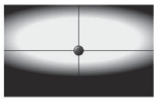


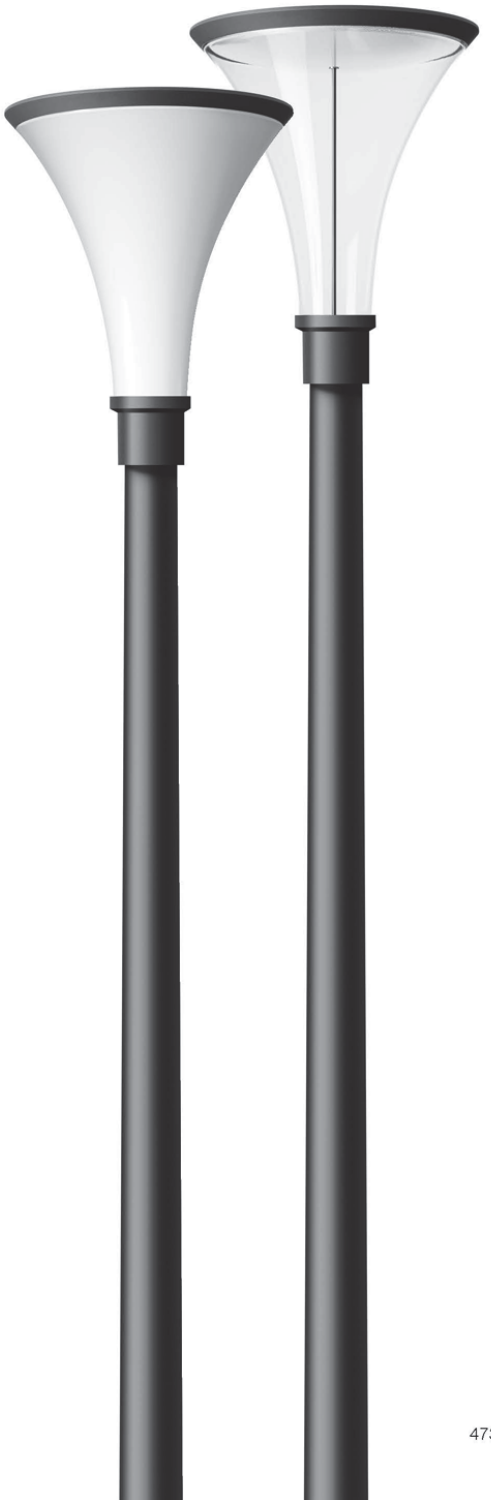




Light building element Page 458


Symmetrical


Asymmetrical flat beam



LED pole-top luminaires with **unshielded, symmetrical** or **asymmetrical flat beam** light distribution

Protection class IP 65 · Safety class II
Cast aluminium, aluminium and stainless steel
Synthetic cover, translucent white or clear
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface can be found on Page 529.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

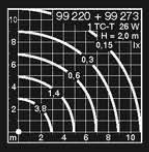
Unshielded · Synthetic cover, **translucent white**									Poles
	Lamp		Lumen	EEC	A	B	For pole heights	Top	Groups
77 121	LED	16.8 W	2520	A++	385	485	3500 - 5000	⌀76	34 · 14
77 122	LED	32.0 W	4400	A++	510	665	4000 - 6000	⌀76	34 · 14

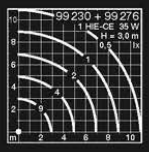
Symmetrical · Synthetic cover, **clear**									Poles
	Lamp		Lumen	EEC	A	B	For pole heights	Top	Groups
77 124	LED	16.8 W	2520	A++	385	485	3500 - 5000	⌀76	34 · 14
77 135	LED	32.0 W	4400	A++	510	665	4000 - 6000	⌀76	34 · 14

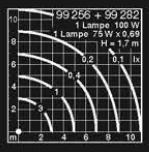
Asymmetrical flat beam · Synthetic cover, **clear**									Poles
	Lamp		Lumen	EEC	A	B	For pole heights	Top	Groups
77 150	LED	16.8 W	2520	A++	385	485	3500 - 5000	⌀76	34 · 14
77 151	LED	32.0 W	4400	A++	510	665	4000 - 6000	⌀76	34 · 14

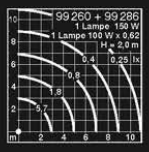
Pole-top luminaires for fluorescent lamps, discharge lamps
and lamps with screw base E 27
Mounting heights 1700 - 4000 mm

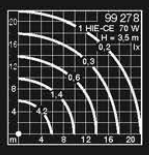
Pole-top luminaires in different sizes for different light outputs and mounting heights.
Luminaires with spheres, optionally made of hand-blown glass or of synthetic material. In the choice of glass or synthetic material, the advantages and disadvantages of the materials in question must be taken into account.
Glass has a high transparency level, is resistant to ageing, easy to clean and looks more brilliant. It can last indefinitely if it is not vandalised. Synthetic material is impact-resistant.
Its impact resistance and transparency diminish with ageing. It collects dirt more easily than glass. For this reason, we recommend glass in areas that are not particularly vulnerable.
Soft, uniformly distributed light for private and public areas. For illuminating gardens, parks, parking spaces and entrances.
Many different lamps are available today for screw base E 27, e.g. LED lamps, halogen lamps and fluorescent lamps.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

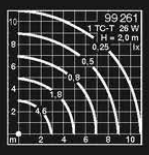


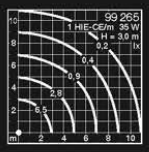


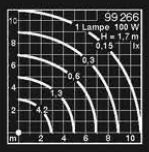


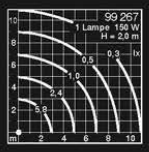




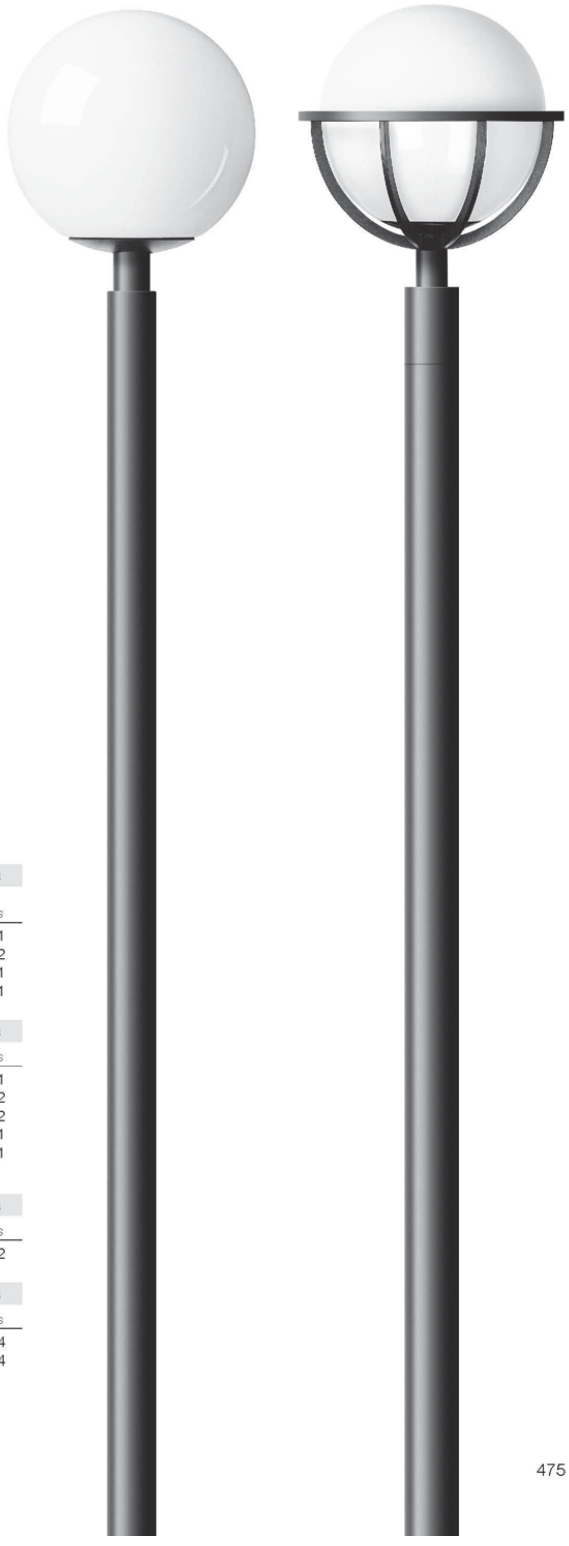








The luminaire 99 265 is fitted with a lamellar reflector in the colour silver.



Pole-top luminaires with unshielded light distribution
for fluorescent lamps, discharge lamps and lamps with screw base E 27

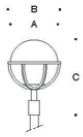
Protection class IP 44
Cast aluminium, aluminium and stainless steel
Optionally opal glass, crystal bubble glass or synthetic material white

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Luminaire colour graphite

Opal glass or crystal bubble glass										Poles
Opal glass	Crystal bubble glass	Lamp		Base	Lumen	EEC	A	For pole heights	Top	Groups
99 220	**99 261**	1 TC-T	26 W	GX24d-3	1800	A-B	⌀350	2000	⌀60	31 · 11
99 230	**99 265**	1 HIE-CE	35 W	E 27	3500	A^{+}-A	⌀450	3000	⌀60	32 · 12
99 256	**99 266**	1 lamp	100 W	E 27	—	A^{++}-E	⌀300	1700	⌀48	31 · 11
99 260	**99 267**	1 lamp	150 W	E 27	—	A^{++}-E	⌀350	2000	⌀60	31 · 11

Synthetic material, white								Poles
	Lamp		Base	Lumen	EEC	A	For pole heights	Top	Groups
99 273	1 TC-T	26 W	GX24d-3	1800	A-B	⌀350	2000	⌀60	31 · 11
99 276	1 HIE-CE	35 W	E 27	3500	A^{+}-A	⌀450	3000	⌀60	32 · 12
99 278	1 HIE-CE	70 W	E 27	7200	A^{+}-A	⌀550	4000	⌀76	32 · 12
99 282	1 lamp	75 W	E 27	—	A^{++}-E	⌀300	1700	⌀48	31 · 11
99 286	1 lamp	100 W	E 27	—	A^{++}-E	⌀350	2000	⌀60	31 · 11

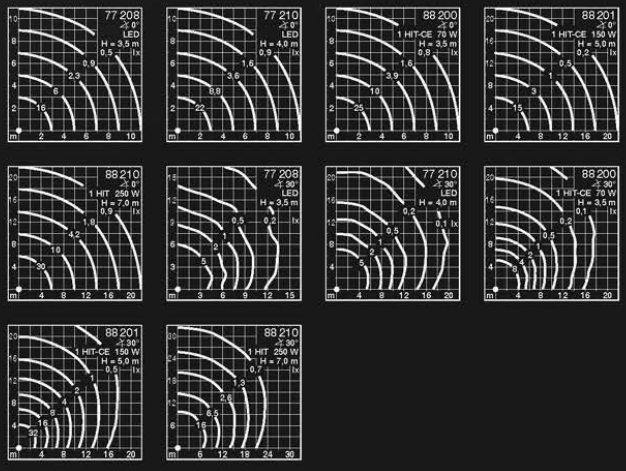


Opal glass										Poles
	Lamp		Base	Lumen	EEC	A	B	C	For pole heights	Top	Groups
99 150	1 lamp	100 W	E 27	—	A^{++}-E	300	350	490	2000	⌀60	32 · 12

Synthetic material, white										Poles
	Lamp		Base	Lumen	EEC	A	B	C	For pole heights	Top	Groups
99 214	1 HIE-CE	35 W	E 27	3500	A^{+}-A	400	450	590	3000	⌀60	34 · 14
99 361	1 HIE-CE	70 W	E 27	7200	A^{+}-A	500	550	720	3500	⌀76	34 · 14

Pole-top luminaires with adjustable light distribution with LED or for discharge lamps Mounting heights 3500 - 7000 mm

The light of the integral high-performance floodlight is deflected by the top reflector. This deflection has the effect of distributing the light in a very soft and uniform way, effectively removing glare.
The top reflector is adjustable from 0° to 30°. This means that the light distribution can be selected infinitely from 0° rotationally symmetrical to 30° asymmetrically. Luminaires for streets, open spaces and squares.
For lighting situations with the highest requirements in terms of light uniformity and freedom from glare.
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



Symmetrical

Asymmetrical

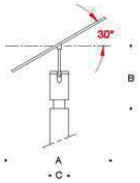
Pole-top luminaires with **adjustable** light distribution
with LED or for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass
Top reflector adjustable from 0° to 30°
77 208 dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour silver

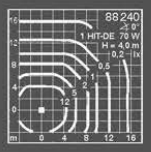


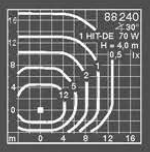
Pole-top luminaires											Poles
	Lamp		Base	Lumen	EEC	A	B	C	For pole heights	Top	Groups
77 208	LED	36.2 W	–	5165	A++	800	500	140	3500 - 4000	Ø76	32 · 12
77 210	LED	56.0 W	–	7530	A++	1000	575	170	4000 - 5000	Ø76	32* · 12*
88 200	1 HIT-CE	70 W	G12	7900	A+ - A	800	500	140	3500 - 4000	Ø76	32 · 12
88 201	1 HIT-CE	150 W	G12	15100	A+ - A	1000	575	170	4000 - 5000	Ø76	32* · 12*
88 210	1 HIT	250 W	E40	19000	A+ - A	1250	880	220	6000 - 7000	Ø89	32

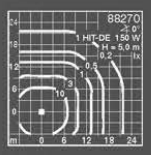
* for static reasons, it is only possible to use the poles 70 731 · 70 734 · 70 748 · 70 737 for these luminaires

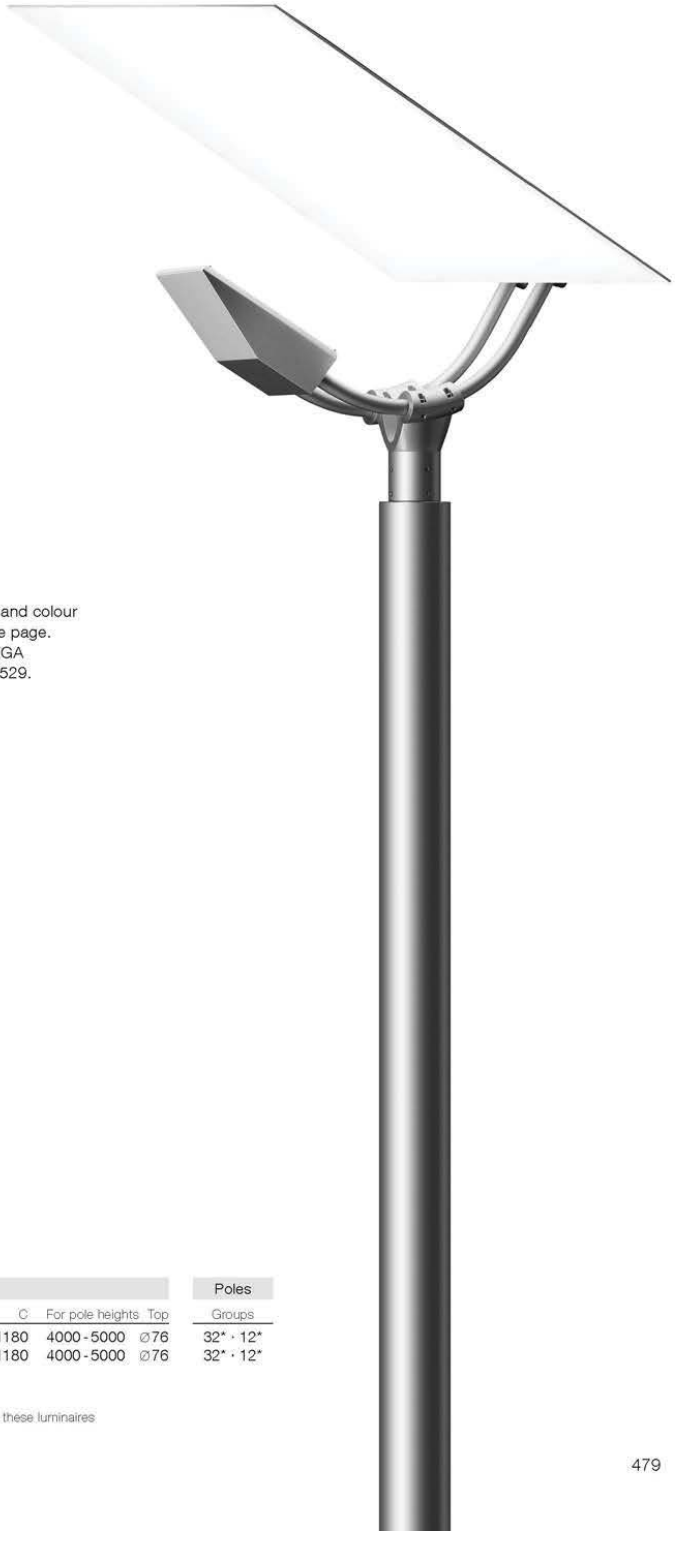
Pole-top luminaires
with adjustable light distribution
for discharge lamps
Mounting heights 4000 - 5000 mm

Adjustable system for wide-area indirect illumination.
The light of the high-performance floodlight is deflected by a square top reflector.
This deflection has the effect of distributing the light in an extremely soft and uniform way, effectively removing glare. The floodlight and the top reflector match each other exactly. The entire system is infinitely adjustable in the bearing shells of the pole cap.
Symmetrical light distribution when the top reflector is set horizontally and asymmetrical light distribution when the top reflector is swivelled between 0° and 65°.
For lighting situations with the highest requirements in terms of light uniformity and freedom from glare.
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.







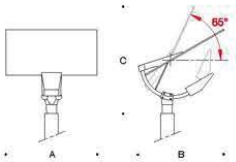


Pole-top luminaires with **adjustable** light distribution
for discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass
Reflector made of pure anodised aluminium
Infinitely adjustable from 0° to 65°

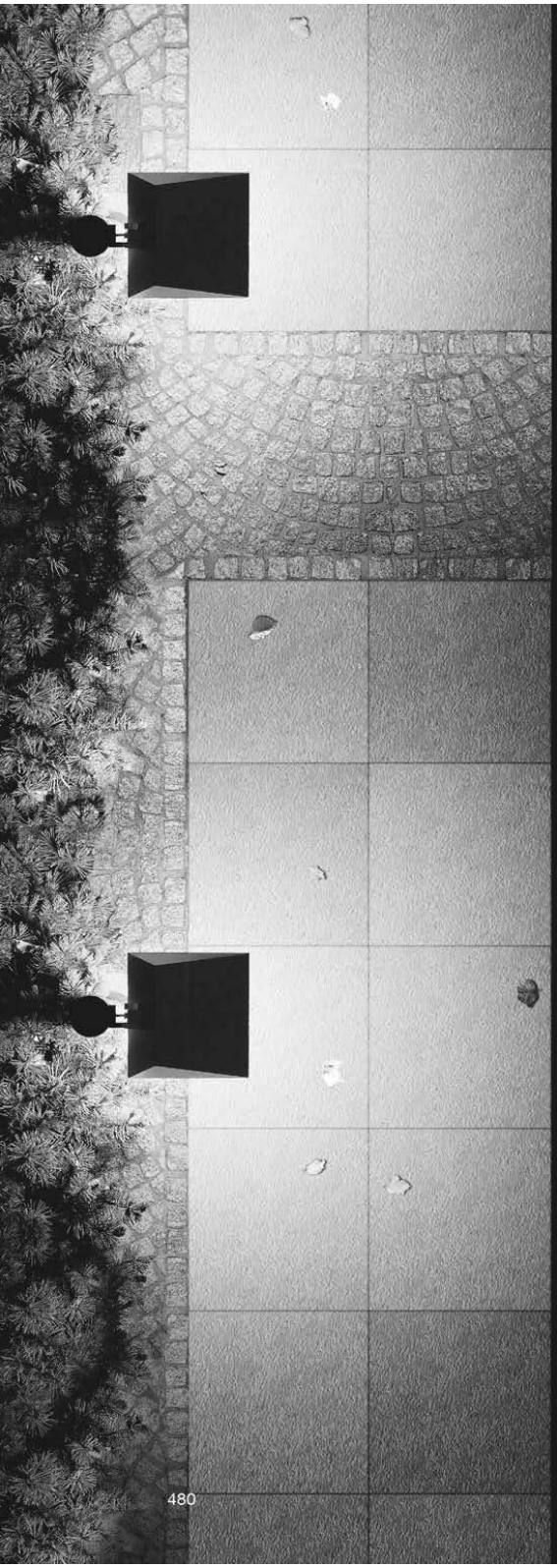
In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Luminaire colour silver



Pole-top luminaires										Poles
	Lamp		Base	Lumen	EEC	A	B	C	For pole heights	Top	Groups
88 240	1 HI/HST-DE	70 W	RX7s	7000	A+-A	1000	1055	650-1180	4000-5000	⌀76	32* · 12*
88 270	1 HI/HST-DE	150 W	RX7s	15000	A+-A	1000	1055	650-1180	4000-5000	⌀76	32* · 12*

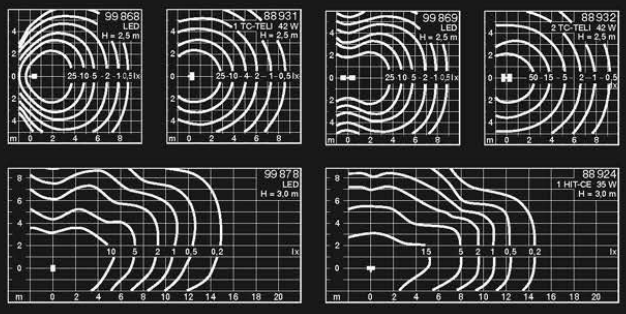
* for static reasons, it is only possible to use the poles 70 731 · 70 734 · 70 748 · 70 737 for these luminaires



Single and double pole-top luminaires with asymmetrical or asymmetrical flat beam light distribution with LED or for fluorescent and discharge lamps Mounting heights 2500 - 3000 mm

Pole-top luminaires with two different light distributions:
• With asymmetrical light distribution for providing spatial illumination of surfaces and smaller squares or
• With asymmetrical flat beam light distribution for providing illumination of smaller driveways and streets as well as path illumination
Using the adjustable attack angle of the luminaire housings, the light distribution can be adjusted exactly to the surface to be illuminated.

The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.



Asymmetrical

Asymmetrical flat beam

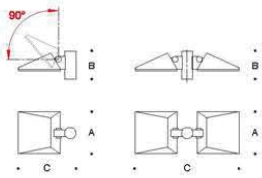
Single and **double** pole-top luminaires, optionally
• with **asymmetrical** light distribution or
• with **asymmetrical flat beam** light distribution
with LED or for fluorescent and discharge lamps

Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10 V
Luminaires for fluorescent lamps with electronic ballast for 26 · 32 · 42 watts
Infinitely adjustable joint from 0° to 90°

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Pole-top luminaires · **asymmetrical**

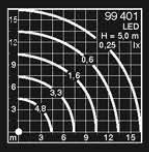
	Lamp		Base	Lumen	EEC		A	B	C	For pole heights	Pole top	Poles Groups
99 868	LED	25.3 W	—	2880	A+	**Single**	260	190	360	2500 - 3000	∅60	32 · 12
99 869	2 LED	25.3 W	—	5760	A+	**Double**	260	190	640	2500 - 3000	∅60	32 · 12
88 931	1 TC-TELI	42 W	GX24q-3/4	3200	A - B	**Single**	260	190	360	2500 - 3000	∅60	32 · 12
88 932	2 TC-TELI	42 W	GX24q-3/4	6400	A - B	**Double**	260	190	640	2500 - 3000	∅60	32 · 12

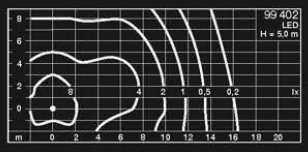
Pole-top luminaires · **asymmetrical flat beam**

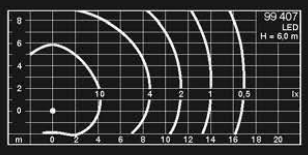
	Lamp		Base	Lumen	EEC		A	B	C	For pole heights	Pole top	Poles Groups
99 878	LED	25.3 W	—	2880	A+	**Single**	260	190	360	2500 - 3000	∅60	32 · 12
99 879	2 LED	25.3 W	—	5760	A+	**Double**	260	190	640	2500 - 3000	∅60	32 · 12
88 924	1 HIT-CE	35 W	G12	4000	A+ - A	**Single**	260	190	360	2500 - 3000	∅60	32 · 12
88 944	2 HIT-CE	35 W	G12	8000	A+ - A	**Double**	260	190	640	2500 - 3000	∅60	32 · 12

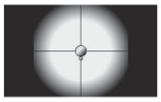
Single and double LED pole-top luminaires with symmetrical or asymmetrical flat beam light distribution
Mounting heights 4000 - 6000 mm

Compact and cost-efficient LED pole-top luminaires, optionally with symmetrical or asymmetrical flat beam light distribution.
Pole-top luminaires, ready for installation, for single or double configuration.
The product design and construction of the luminaires stand for the implementation of our LED technology in line with market conditions.
Luminaires of high lighting and structural quality.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

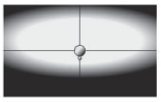








Symmetrical



Asymmetrical flat beam

Single and **double** LED pole-top luminaires, optionally
• with **symmetrical** light distribution or
• with **asymmetrical flat beam** light distribution

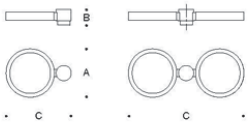
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
Reflector made of pure anodised aluminium
Connecting cable 3 x 1 □
99 407 · 99 408 Safety class II · dimmable 1-10 V

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



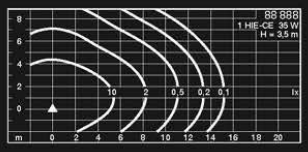
Pole-top luminaires · **symmetrical**

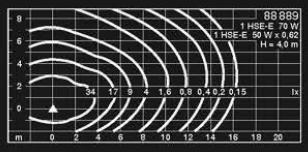
	Lamp		Lumen	EEC		AC/DC	A	B	C	For pole heights	Pole top	Luminaire poles Groups	
99 401	LED	21.0 W	2400	A+	**Single**	✔	300	100	410	4000 - 5000	⌀76	34 · 14	33 · 13
99 403	2 LED	21.0 W	4800	A+	**Double**	✔	300	100	720	4000 - 5000	⌀76	34 · 14	33 · 13

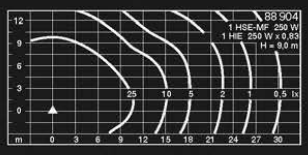
Pole-top luminaires · **asymmetrical flat beam**

	Lamp		Lumen	EEC		AC/DC	A	B	C	For pole heights	Pole top	Luminaire poles Groups	
99 402	LED	21.0 W	2400	A+	**Single**	✔	300	100	410	4000 - 5000	⌀76	34 · 14	33 · 13
99 407	LED	32.0 W	4400	A++	**Single**	–	470	60	610	4000 - 6000	⌀76	34 · 14	33 · 13
99 462	2 LED	21.0 W	4800	A+	**Double**	✔	300	100	720	4000 - 5000	⌀76	34 · 14	33 · 13
99 408	2 LED	32.0 W	8800	A++	**Double**	–	470	60	1125	4000 - 6000	⌀76	34 · 14	33 · 13

Single and double pole-top luminaires with asymmetrical flat beam light distribution for discharge lamps Mounting heights 3000 - 9000 mm



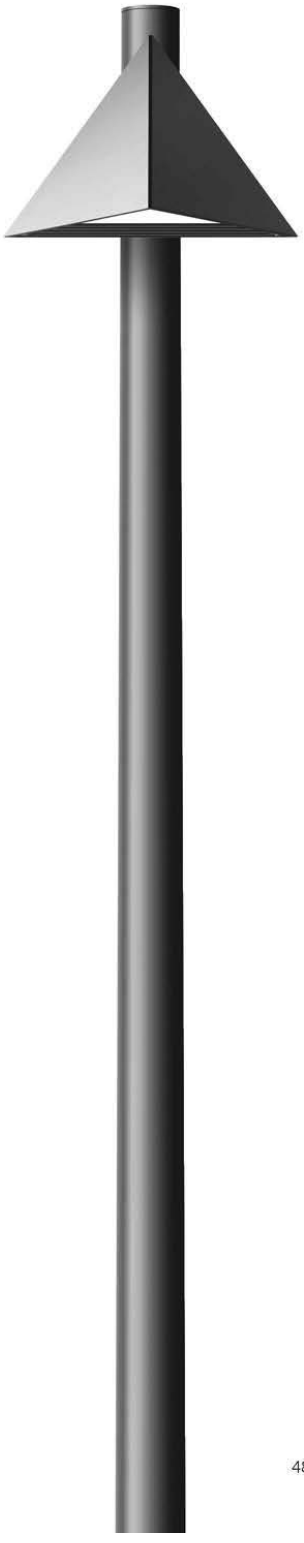




Luminaires with asymmetrical flat beam light distribution in three sizes for different light outputs. For the illumination of streets, squares, driveways and pedestrian zones. Pole-top luminaires, ready for installation, for single or double configuration. We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
On Page 196, you can find wall luminaires whose shape and design match the luminaires on this double page.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

Asymmetrical flat beam

Page 196

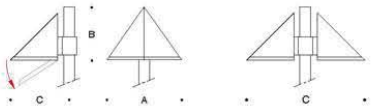


Single and **double** pole-top luminaires
with asymmetrical flat beam light distribution
for discharge lamps

Protection class IP 44
Cast aluminium, aluminium and stainless steel
Safety glass with optical texture
Reflector made of pure anodised aluminium

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

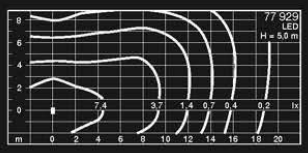


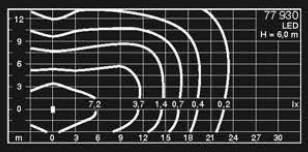
Single pole-top luminaires											Poles
	Lamp		Base	Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
88 888	1 HIE-CE	35 W	E 27	3500	A+-A	500	410	450	3000 - 3500	Ø100	31
88 889	1 HSE-E	50 - 70 W	E 27	6600	A+-A	620	495	550	3500 - 4500	Ø120	31
	1 HIE-CE/S	50 - 70 W	E 27	7900		620	495	550	3500 - 4500	Ø120	31
88 904	1 HSE-MF	250 W	E 40	31600	A+-A	740	630	650	6000 - 9000	Ø76	34 · 72 · 74
	1 HIE	250 W	E 40	18000		740	630	650	6000 - 9000	Ø76	34 · 72 · 74

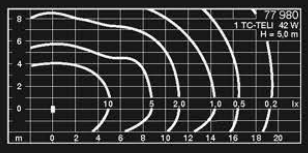
Double pole-top luminaires											Poles
	Lamp		Base	Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
88 947	2 HIE-CE	35 W	E 27	7000	A+-A	500	410	900	3000 - 3500	Ø100	31
88 890	2 HSE-E	50 - 70 W	E 27	13200	A+-A	620	495	1100	3500 - 4500	Ø120	31
	2 HIE-CE/S	50 - 70 W	E 27	15800		620	495	1100	3500 - 4500	Ø120	31
88 949	2 HSE-MF	250 W	E 40	63200	A+-A	740	630	1300	6000 - 9000	Ø76	34 · 72 · 74
	2 HIE	250 W	E 40	36000		740	630	1300	6000 - 9000	Ø76	34 · 72 · 74

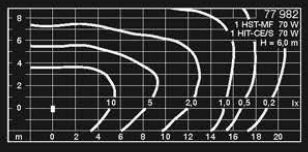
Single and double pole-top luminaires with asymmetrical flat beam light distribution with LED or for fluorescent and discharge lamps Mounting heights 3000 - 6000 mm

Pole-top luminaires with asymmetrical flat beam light distribution. Luminaires with LED or for fluorescent lamps and discharge lamps, which we have equipped for all current lighting and technical requirements. They can be installed as extensions in existing systems and not only feature a high protection class but also modern lighting technology.
The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
Luminaires for the energy-efficient illumination of driveways, residential and trunk roads.
Pole-top luminaires, ready for installation, for single or double configuration.
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules.
Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.









Asymmetrical flat beam

Single and **double** pole-top luminaires
with asymmetrical flat beam light distribution
with LED or for fluorescent and discharge lamps

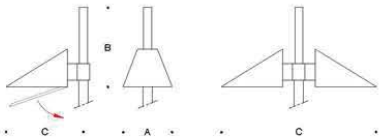
Protection class IP66
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
Luminaires for fluorescent lamps with electronic ballast for 26 · 32 · 42 watts
Luminaires can be opened without tools for maintenance and relamping

You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour
as well as design and statics match the pole-top luminaires on this double page.
You can find the complete overview as well as the technical data of all BEGA
luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Single pole-top luminaires												Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
77 929	LED	21.0 W	–	2400	A+	✔	350	585	600	3000 - 6000	⌀76	34
77 930	LED	33.8 W	–	3840	A+	✔	350	585	600	3000 - 6000	⌀76	34
77 980	1 TC-TELI	42 W	GX24q-3/4	3200	A - B	✔	350	585	600	3000 - 6000	⌀76	34
77 982	1 HST-MF	50 · 70 W	E 27	6600	A+ - A	–	350	585	600	3000 - 6000	⌀76	34
	1 HIT-CE/S	50 · 70 W	E 27	7900		–	350	585	600	3000 - 6000	⌀76	34

Double pole-top luminaires												Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
77 981	2 TC-TELI	42 W	GX24q-3/4	6400	A - B	✔	350	585	1200	3000 - 6000	⌀76	34 · 72 · 74
77 983	2 HST-MF	50 · 70 W	E 27	13200	A+ - A	–	350	585	1200	3000 - 6000	⌀76	34 · 72 · 74
	2 HIT-CE/S	50 · 70 W	E 27	15800		–	350	585	1200	3000 - 6000	⌀76	34 · 72 · 74

Single and double pole-top luminaires with asymmetrical flat beam light distribution with LED or for fluorescent and discharge lamps Mounting heights 4000 - 9000 mm

Pole-top luminaires with asymmetrical flat beam light distribution in three sizes for different light outputs. Luminaires with LED or for fluorescent lamps and discharge lamps for illuminating streets, squares, driveways and pedestrian zones. The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.

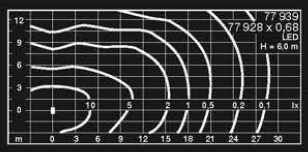
The attack angle of the luminaires can be adjusted to the surface to be illuminated.

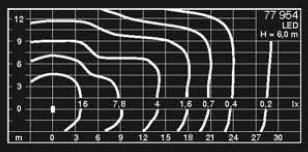
Pole-top luminaires, ready for installation, for single or double configuration. We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.

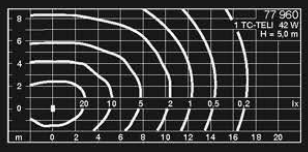
On Page 224, you can find wall luminaires whose shape and design match the luminaires on this double page.

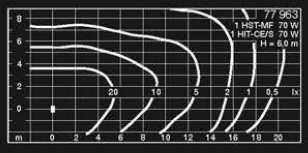
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.

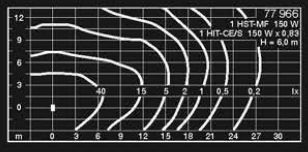
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

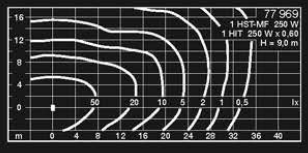


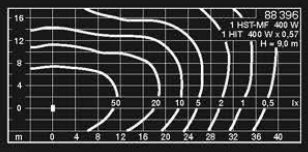












Asymmetrical flat beam

Single and **double** LED pole-top luminaires with asymmetrical flat beam light distribution
with LED or for fluorescent and discharge lamps

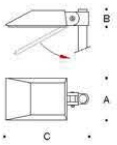
Protection class IP 66
Cast aluminium, aluminium and stainless steel · Safety glass · Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface can be found on Page 529.
Luminaires for fluorescent lamps with electronic ballast for 26 · 32 · 42 watts
Attack angle adjustable in steps of 10° from 0° to 90° · 77 954 · 77 969 · 88 396 · 77 970 · 88 399 to 0° or 15°
Luminaires can be opened without tools for maintenance and relamping

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

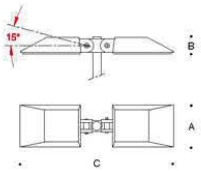
In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

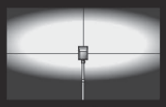
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Single pole-top luminaires												Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
77 928	LED	21.0 W	–	2400	A+	✔	290	110	650	4000 - 6000	Ø76	34 · 14
77 939	LED	33.8 W	–	3840	A+	✔	290	110	650	4000 - 6000	Ø76	34 · 14
77 954	LED	80.0 W	–	6600	A	✔	330	140	680	7000 - 9000	Ø76	34 · 72
77 960	1 TC-TELI	42 W	GX24q-3/4	3200	A - B	✔	290	110	650	4000 - 6000	Ø76	34 · 14
77 963	1 HST-MF	50 · 70 W	E 27	6600	A+ - A	–	290	110	650	4000 - 6000	Ø76	34 · 14
	1 HIT-CE/S	50 · 70 W	E 27	7900		–	290	110	650	4000 - 6000	Ø76	34 · 14
77 966	1 HIT-CE/S	150 W	E 40	15 700	A+ - A	–	290	110	650	4000 - 6000	Ø76	34 · 14
	1 HST-MF	150 W	E 40	17 500		–	290	110	650	4000 - 6000	Ø76	34 · 14
77 969	1 HIT	250 W	E 40	19 000	A+ - A	–	330	140	680	7000 - 9000	Ø76	34 · 72 · 74
	1 HST-MF	250 W	E 40	33 200		–	330	140	680	7000 - 9000	Ø76	34 · 72 · 74
88 396	1 HIT	400 W	E 40	40 000	A+ - A	–	410	165	760	7000 - 9000	Ø76	34 · 72 · 74
	1 HST-MF	400 W	E 40	56 500		–	410	165	760	7000 - 9000	Ø76	34 · 72 · 74



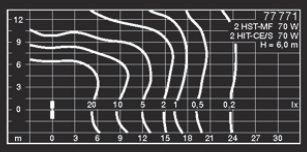
Double pole-top luminaires												Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
77 962	2 TC-TELI	42 W	GX24q-3/4	6400	A - B	✔	290	110	1200	4000 - 6000	Ø76	34 · 14
77 965	2 HST-MF	50 · 70 W	E 27	13 200	A+ - A	–	290	110	1200	4000 - 6000	Ø76	34 · 14
	2 HIT-CE/S	50 · 70 W	E 27	15 800		–	290	110	1200	4000 - 6000	Ø76	34 · 14
77 968	2 HIT-CE/S	150 W	E 40	31 400	A+ - A	–	290	110	1200	4000 - 6000	Ø76	34 · 14
	2 HST-MF	150 W	E 40	35 000		–	290	110	1200	4000 - 6000	Ø76	34 · 14
77 970	2 HIT	250 W	E 40	38 000	A+ - A	–	330	140	1260	7000 - 9000	Ø76	34 · 72 · 74
	2 HST-MF	250 W	E 40	66 400		–	330	140	1260	7000 - 9000	Ø76	34 · 72 · 74
88 399	2 HIT	400 W	E 40	80 000	A+ - A	–	410	165	1510	7000 - 9000	Ø76	34 · 72 · 74
	2 HST-MF	400 W	E 40	113 000		–	410	165	1510	7000 - 9000	Ø76	34 · 72 · 74

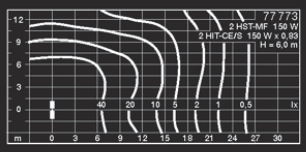


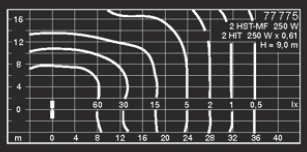
Asymmetrical flat beam

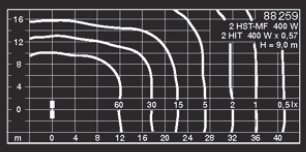
Single and double outrigger luminaires with asymmetrical flat beam light distribution for discharge lamps Mounting heights 5000 - 9000 mm

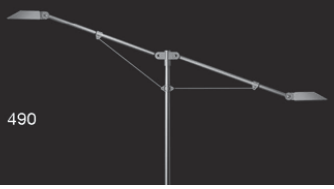
Outrigger system with infinitely adjustable mounting heights.
The mounting height can be adjusted by ± 1500 mm from the horizontal.
The light distribution can be adjusted exactly to the surface to be illuminated.
Luminaires with spherical reflectors and asymmetrical flat beam light distribution for illuminating streets, squares and driveways.
The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
Pole-top luminaires, ready for installation, for single or double configuration.
On request, we can also supply these luminaires with the asymmetrical light distribution of the pole-top luminaires on Page 492.
We can also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

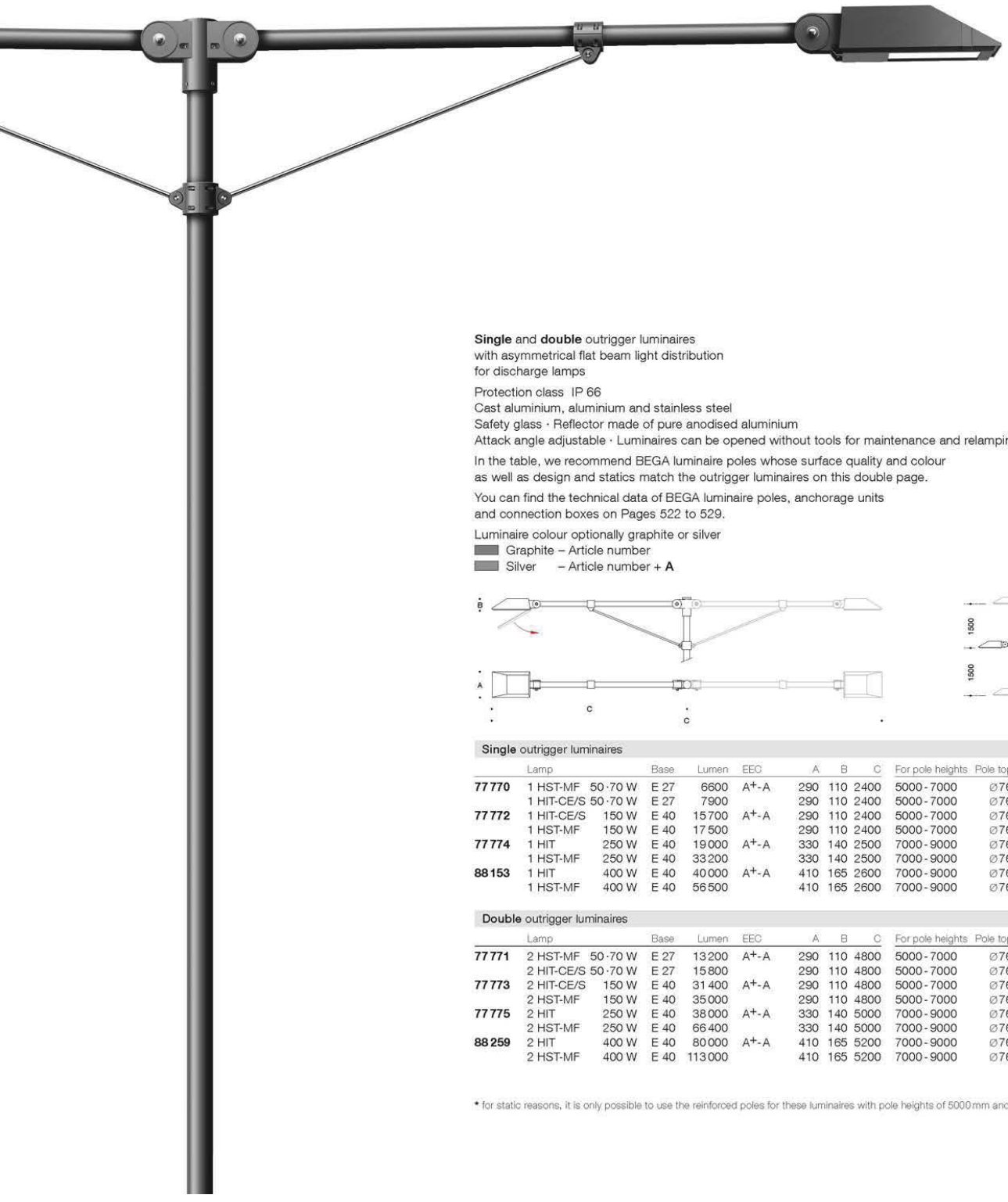












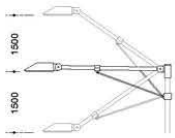
Single and **double** outrigger luminaires
with asymmetrical flat beam light distribution
for discharge lamps

Protection class IP 66
Cast aluminium, aluminium and stainless steel
Safety glass · Reflector made of pure anodised aluminium
Attack angle adjustable · Luminaires can be opened without tools for maintenance and relamping

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the outrigger luminaires on this double page.

You can find the technical data of BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Single outrigger luminaires										Poles
	Lamp	Base	Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
77 770	1 HST-MF 50 · 70 W	E 27	6600	A+-A	290	110	2400	5000 - 7000	Ø76	72* · 62*
	1 HIT-CE/S 50 · 70 W	E 27	7900		290	110	2400	5000 - 7000	Ø76	72* · 62*
77 772	1 HIT-CE/S 150 W	E 40	15 700	A+-A	290	110	2400	5000 - 7000	Ø76	72* · 62*
	1 HST-MF 150 W	E 40	17 500		290	110	2400	5000 - 7000	Ø76	72* · 62*
77 774	1 HIT 250 W	E 40	19 000	A+-A	330	140	2500	7000 - 9000	Ø76	72 · 62
	1 HST-MF 250 W	E 40	33 200		330	140	2500	7000 - 9000	Ø76	72 · 62
88 153	1 HIT 400 W	E 40	40 000	A+-A	410	165	2600	7000 - 9000	Ø76	72 · 62
	1 HST-MF 400 W	E 40	56 500		410	165	2600	7000 - 9000	Ø76	72 · 62

Double outrigger luminaires										Poles
	Lamp	Base	Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
77 771	2 HST-MF 50 · 70 W	E 27	13 200	A+-A	290	110	4800	5000 - 7000	Ø76	72* · 62*
	2 HIT-CE/S 50 · 70 W	E 27	15 800		290	110	4800	5000 - 7000	Ø76	72* · 62*
77 773	2 HIT-CE/S 150 W	E 40	31 400	A+-A	290	110	4800	5000 - 7000	Ø76	72* · 62*
	2 HST-MF 150 W	E 40	35 000		290	110	4800	5000 - 7000	Ø76	72* · 62*
77 775	2 HIT 250 W	E 40	38 000	A+-A	330	140	5000	7000 - 9000	Ø76	72 · 62
	2 HST-MF 250 W	E 40	66 400		330	140	5000	7000 - 9000	Ø76	72 · 62
88 259	2 HIT 400 W	E 40	80 000	A+-A	410	165	5200	7000 - 9000	Ø76	72 · 62
	2 HST-MF 400 W	E 40	113 000		410	165	5200	7000 - 9000	Ø76	72 · 62

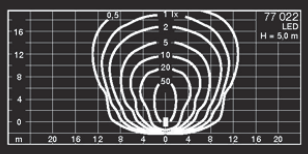
* for static reasons, it is only possible to use the reinforced poles for these luminaires with pole heights of 5000 mm and 6000 mm

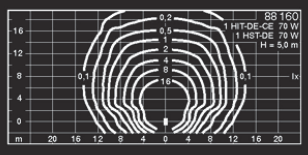
Pole-top luminaires with asymmetrical or asymmetrical flat beam light distribution with LED or for discharge lamps · Mounting heights 4000 - 18 000 mm

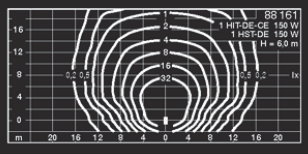
Pole-top luminaires with different light distributions.
Luminaires in four sizes and with different light outputs:

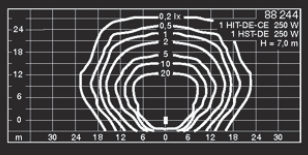
- with asymmetrical light distribution for providing spatial illumination of surfaces, squares and parking spaces, or
- with asymmetrical flat beam light distribution for providing illumination of driveways and streets, or
- with asymmetrical light distribution for illuminating playing fields from a great height

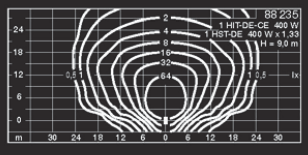
Using the adjustable attack angle of the luminaire housing, the light distribution can be adjusted exactly to the surface to be illuminated.
Pole-top luminaires, ready for installation, for single and double configuration.
On request, the luminaires of the type listed here are also available for 4-fold configuration.
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

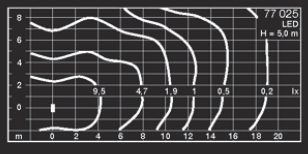


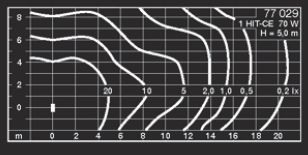


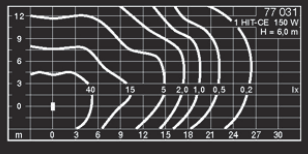








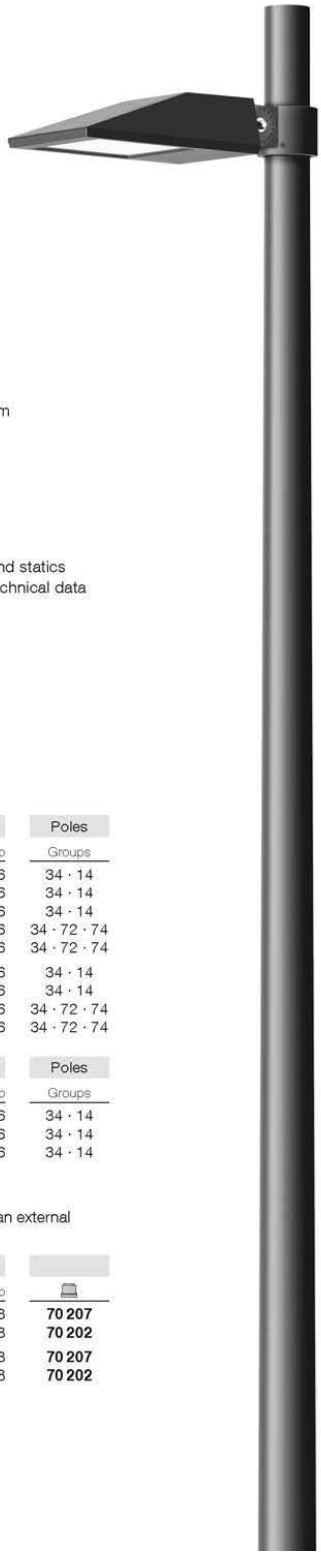





Asymmetrical


Asymmetrical flat beam


Page 228



Pole-top luminaires, optionally
- **Single** and **double** with **asymmetrical** light distribution or
- **Single** with **asymmetrical flat beam** light distribution

with LED or for discharge lamps

Protection class IP66
Cast aluminium, aluminium and stainless steel · Safety glass · Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10V
Power reduction accessories for LED luminaires with 1-10V interface can be found on Page 529.
88264 · 77894 · 88266 · 77847 without operating devices · Matching control gear boxes, see table

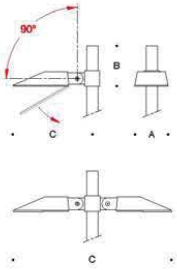
Attack angle adjustable in steps of 10° from 0° to 90°

77022 · 77025 are suitable for operating with alternating and direct current (AC/DC).

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000K or 3000K
4000K – Article number
3000K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Pole-top luminaires · **asymmetrical**												Poles
	Lamp		Base	Lumen	EEC		A	B	C	For pole heights	Pole top	Groups
77022	LED	50.4 W	—	6335	A^{++}	**Single**	225	290	500	4000 - 6000	Ø76	34 · 14
88160	1 HI/HST-DE	70 W	RX7s	7000	A^{+} - A	**Single**	225	290	500	4000 - 5000	Ø76	34 · 14
88161	1 HI/HST-DE	150 W	RX7s	15000	A^{+} - A	**Single**	225	290	500	5000 - 6000	Ø76	34 · 14
88244	1 HI/HST-DE	250 W	Fc 2	21500	A^{+} - A	**Single**	315	290	600	6000 - 7000	Ø76	34 · 72 · 74
88235	1 HI/HST-DE	400 W	Fc 2	36000	A^{+} - A	**Single**	420	420	800	7000 - 9000	Ø76	34 · 72 · 74
88162	2 HI/HST-DE	70 W	RX7s	14000	A^{+} - A	**Double**	225	290	1000	4000 - 5000	Ø76	34 · 14
88163	2 HI/HST-DE	150 W	RX7s	30000	A^{+} - A	**Double**	225	290	1000	5000 - 6000	Ø76	34 · 14
88246	2 HI/HST-DE	250 W	Fc 2	43000	A^{+} - A	**Double**	315	290	1200	6000 - 7000	Ø76	34 · 72 · 74
88236	2 HI/HST-DE	400 W	Fc 2	72000	A^{+} - A	**Double**	420	420	1600	7000 - 9000	Ø76	34 · 72 · 74

Pole-top luminaires · **asymmetrical flat beam**												Poles
	Lamp		Base	Lumen	EEC		A	B	C	For pole heights	Pole top	Groups
77025	LED	25.2 W	—	2880	A^{+}	**Single**	225	290	500	4000 - 5000	Ø76	34 · 14
77029	1 HIT-CE	70 W	G12	7800	A^{+} - A	**Single**	225	290	500	4000 - 5000	Ø76	34 · 14
77031	1 HIT-CE	150 W	G12	15100	A^{+} - A	**Single**	225	290	500	5000 - 6000	Ø76	34 · 14

Pole-top luminaires with asymmetrical light distribution for discharge lamps **1000 · 2000 watts**
These pole-top luminaires match the luminaires of the above group in technical and design terms, but require an external control gear box with operating device. For technical data for control gear boxes, see Page 537

Pole-top luminaires · **asymmetrical**												
	Lamp		Base	Lumen	EEC		A	B	C	For pole heights	Pole top	
88264	1 HIT-DE	1000 W	K12s-36	90000	A^{+} - A	**Single**	540	385	1075	14000 - 18000	Ø108	**70207**
77894	1 HIT-DE	2000 W	K12s-36	230000	A^{+} - A	**Single**	540	385	1075	14000 - 18000	Ø108	**70202**
88266	2 HIT-DE	1000 W	K12s-36	180000	A^{+} - A	**Double**	540	400	2000	14000 - 18000	Ø108	**70207**
77847	2 HIT-DE	2000 W	K12s-36	460000	A^{+} - A	**Double**	540	400	2000	14000 - 18000	Ø108	**70202**

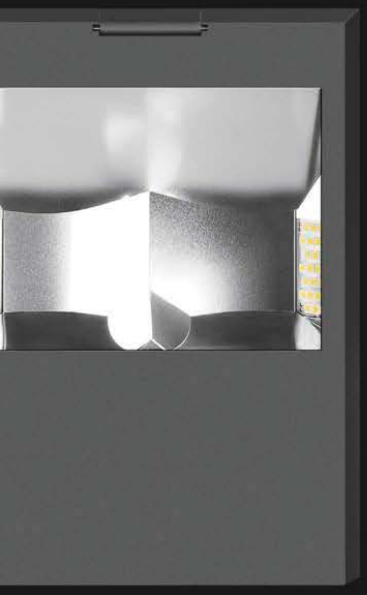
Control gear box

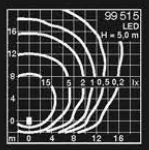
Single LED pole-top luminaires and
LED side-mounted pole-top luminaires for bracket poles
Luminaires with asymmetrical or
with asymmetrical flat beam light distribution
Mounting heights 3500 - 8000 mm

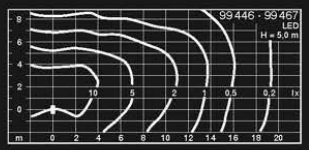
These luminaires belong to a group whose comprehensive performance spectrum allows them to be implemented for all lighting applications in street, square and city illumination.
Pole-top luminaires optionally with two light distributions:

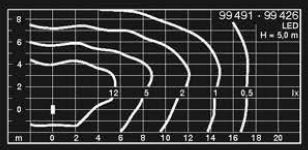
- with asymmetrical light distribution for providing spatial illumination of surfaces, squares and parking spaces, or
- with asymmetrical flat beam light distribution for providing illumination of streets. The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.

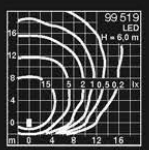
Pole-top luminaires, ready for installation, for single configuration and for bracket poles.
Pole-top luminaires for double configuration can be found on Page 496.
For lighting technology with optimised efficiency level, we use only system components in reliable materials.
Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
Luminaires with this construction are also available as wall luminaires – see Page 226.
The luminaires are also easy to integrate into BEGA light control systems.
For technical data of the BEGA Control, see Pages 542 to 561.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

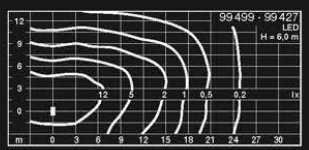


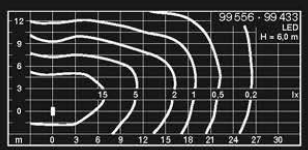












Asymmetrical

Asymmetrical flat beam

Single LED pole-top luminaires, optionally
• with **asymmetrical** light distribution or
• with **asymmetrical flat beam** light distribution

LED **side-mounted pole-top luminaires** for bracket poles
with **asymmetrical flat beam** light distribution

Protection class IP 66 · Safety class II
Cast aluminium, aluminium and stainless steel
Safety glass anti-glare · Reflector made of pure anodised aluminium
Side-mounted pole-top luminaires with attack angle adjustable to 0° or 15° · Opening without the use of tools
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.

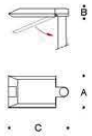
You can find luminaires for operating with alternating
and direct current in the table under AC / DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Pole-top luminaires for pole top ⌀ 76 mm · also available on request for pole top ⌀ 60 mm
Side-mounted pole-top luminaires for connection ⌀ 42 mm · also available on request for connection ⌀ 60 mm

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

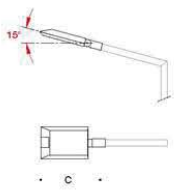


Pole-top luminaires · asymmetrical

	Lamp		Lumen	EEC	AC / DC	A	B	C	For pole heights	Pole top	Luminaire poles Groups	
99 515	LED	33.6 W	4220	A++	✔	255	60	440	4000 - 6000	⌀76	34 · 14	33 · 13
99 519	LED	46.2 W	5800	A++	✔	255	60	440	5000 - 8000	⌀76	34 · 72 · 74	33 · 13

Pole-top luminaires · asymmetrical flat beam

	Lamp		Lumen	EEC	AC / DC	A	B	C	For pole heights	Pole top	Luminaire poles Groups	
99 446	LED	14.0 W	1930	A++	✔	255	60	440	3500 - 5000	⌀76	34 · 14	33 · 13
99 491	LED	25.2 W	2880	A+	✔	255	60	440	4000 - 6000	⌀76	34 · 14	33 · 13
99 499	LED	38.0 W	4320	A+	✔	255	60	440	5000 - 7000	⌀76	34 · 72 · 74	33 · 13
99 556	LED	50.6 W	5760	A+	✔	255	60	440	5000 - 8000	⌀76	34 · 72 · 74	33 · 13



Side-mounted pole-top luminaires for bracket poles · **asymmetrical flat beam**

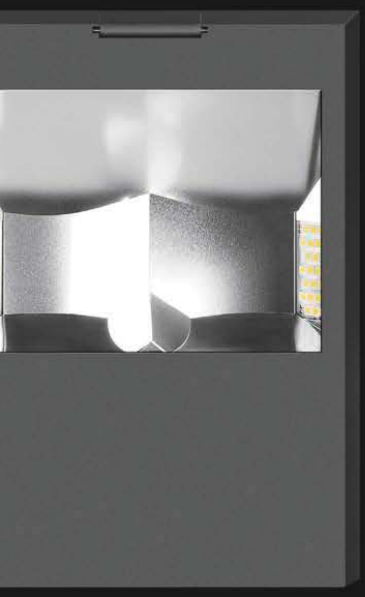
	Lamp		Lumen	EEC	AC / DC	A	B	C	For pole heights	Connection
99 467	LED	14.0 W	1930	A++	✔	255	60	440	3500 - 5000	⌀42
99 426	LED	25.2 W	2880	A+	✔	255	60	490	4000 - 6000	⌀42
99 427	LED	38.0 W	4320	A+	✔	255	60	490	5000 - 7000	⌀42
99 433	LED	50.6 W	5760	A+	✔	255	60	490	5000 - 8000	⌀42

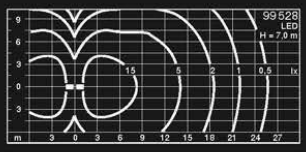
Double LED pole-top luminaires
Luminaires with asymmetrical or with asymmetrical flat beam light distribution
Mounting heights 3500 - 8000 mm

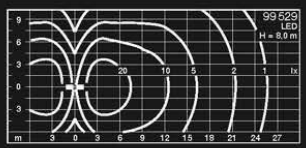
These luminaires belong to a group whose comprehensive performance spectrum allows them to be implemented for all lighting applications in street, square and city illumination.
Pole-top luminaires optionally with two light distributions:

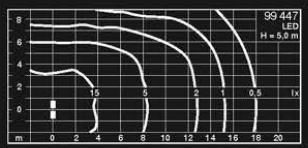
- with asymmetrical light distribution for providing spatial illumination of surfaces, squares and parking spaces, or
- with asymmetrical flat beam light distribution for providing illumination of streets.
  The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.

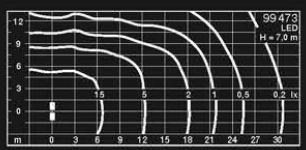
Pole-top luminaires, ready for installation, for double configuration.
Pole-top luminaires for single configuration and for bracket poles can be found on Page 494.
For lighting technology with optimised efficiency level, we use only system components in reliable materials.
Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
The luminaires are also easy to integrate into BEGA light control systems.
For technical data of the BEGA Control, see Pages 542 to 561.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

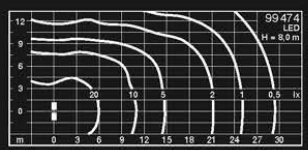













Asymmetrical


Asymmetrical flat beam

Double LED pole-top luminaires, optionally
- With **asymmetrical** light distribution or
- With **asymmetrical flat beam** light distribution

Protection class IP 66 · Safety class II
Cast aluminium, aluminium and stainless steel
Safety glass anti-glare · Reflector made of pure anodised aluminium
Attack angle adjustable to 0° or 15° · Opening without the use of tools
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.

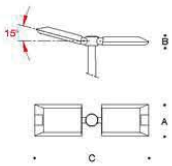
You can find luminaires for operating with alternating
and direct current in the table under AC/DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Pole top ⌀ 76 mm · also available on request for pole top ⌀ 60 mm

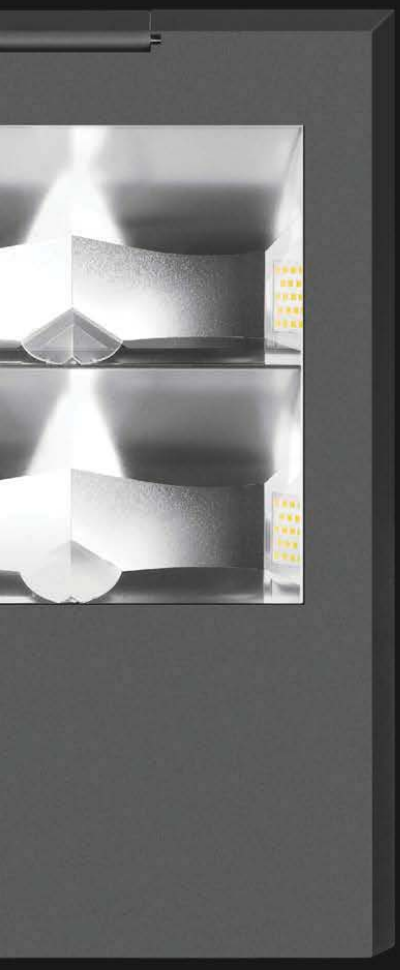
LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Pole-top luminaires · **asymmetrical**										Luminaire poles	
	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
99 528	2 LED	33.6 W	8440	A++	✔	255	60	815	4000 - 6000	⌀76	34 · 14 33 · 13
99 529	2 LED	46.2 W	11 600	A++	✔	255	60	815	5000 - 8000	⌀76	34 · 72 · 74 33 · 13

Pole-top luminaires · **asymmetrical flat beam**										Luminaire poles	
	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
99 447	2 LED	14.0 W	3860	A++	✔	255	60	815	3500 - 5000	⌀76	34 · 14 33 · 13
99 473	2 LED	38.0 W	8640	A++	✔	255	60	815	5000 - 7000	⌀76	34 · 72 · 74 33 · 13
99 474	2 LED	50.6 W	11 520	A++	✔	255	60	815	5000 - 8000	⌀76	34 · 72 · 74 33 · 13

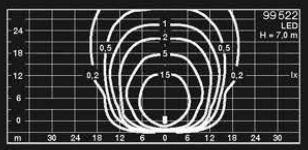


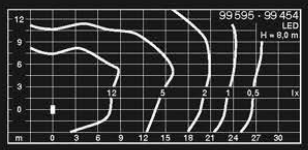
Single LED pole-top luminaires and
LED side-mounted pole-top luminaires for bracket poles
Luminaires with asymmetrical or
with asymmetrical flat beam light distribution
Mounting heights 7000 - 9000 mm

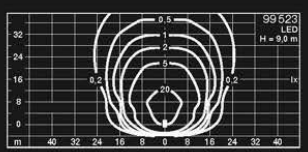
These luminaires belong to a group whose comprehensive performance spectrum allows them to be implemented for all lighting applications in street, square and city illumination.
Pole-top luminaires optionally with two light distributions:

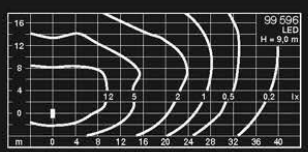
- with asymmetrical light distribution for providing spatial illumination of surfaces, squares and parking spaces, or
- with asymmetrical flat beam light distribution for providing illumination of streets. The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.

Pole-top luminaires, ready for installation, for single configuration and for bracket poles. Pole-top luminaires for double configuration can be found on Page 500.
For lighting technology with optimised efficiency level, we use only system components in reliable materials. Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
Luminaires with this construction are also available as wall luminaires – see Page 226.
The luminaires are also easy to integrate into BEGA light control systems. For technical data of the BEGA Control, see Pages 542 to 561.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.










Asymmetrical


Asymmetrical flat beam

Single LED pole-top luminaires, optionally
- with **asymmetrical** light distribution or
- with **asymmetrical flat beam** light distribution

LED **side-mounted pole-top luminaire** for bracket poles
with **asymmetrical flat beam** light distribution

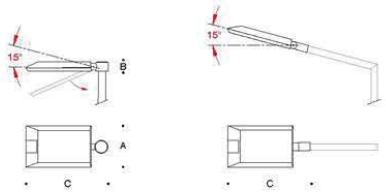
Protection class IP 66 · Safety class II
Cast aluminium, aluminium and stainless steel · Safety glass anti-glare
Reflector made of pure anodised aluminium
Attack angle adjustable to 0° or 15° · Opening without the use of tools
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Pole-top luminaires for pole top Ø 76 mm · also available on request for pole top Ø 60 mm
Side-mounted pole-top luminaires for connection Ø 60 mm · also available on request for connection Ø 42 mm

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

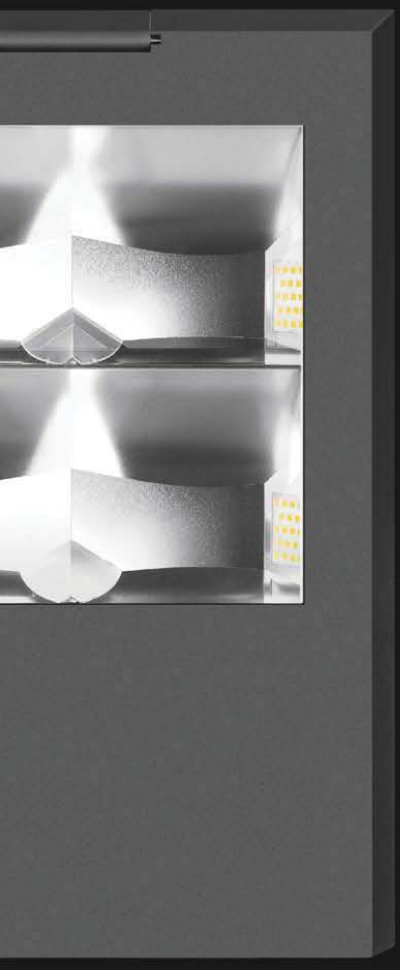
Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Pole-top luminaires · **asymmetrical**										Poles
	Lamp		Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
99 522	LED	67.2 W	8440	A++	340	75	660	7000 - 9000	Ø76	34 · 72 · 74
99 523	LED	92.4 W	11 600	A++	340	75	660	7000 - 9000	Ø76	34 · 72 · 74

Pole-top luminaires · **asymmetrical flat beam**										Poles
	Lamp		Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
99 595	LED	76.0 W	8640	A+	340	75	660	7000 - 9000	Ø76	34 · 72 · 74
99 596	LED	101.2 W	11 520	A+	340	75	660	7000 - 9000	Ø76	34 · 72 · 74

Side-mounted pole-top luminaire for bracket poles · **asymmetrical flat beam**									
	Lamp		Lumen	EEC	A	B	C	For pole heights	Connection
99 454	LED	76.0 W	8640	A+	340	75	695	7000 - 9000	Ø60



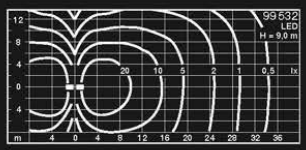
Double LED pole-top luminaires
Luminaires with asymmetrical flat beam or asymmetrical light distribution
Mounting heights 7000 - 9000 mm

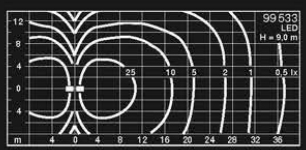
These luminaires belong to a group whose comprehensive performance spectrum allows them to be implemented for all lighting applications in street, square and city illumination.
Pole-top luminaires optionally with two light distributions:

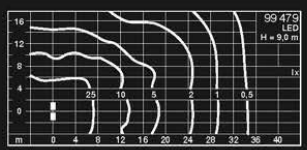
- with asymmetrical light distribution for providing spatial illumination of surfaces, squares and parking spaces, or
- with asymmetrical flat beam light distribution for providing illumination of streets.

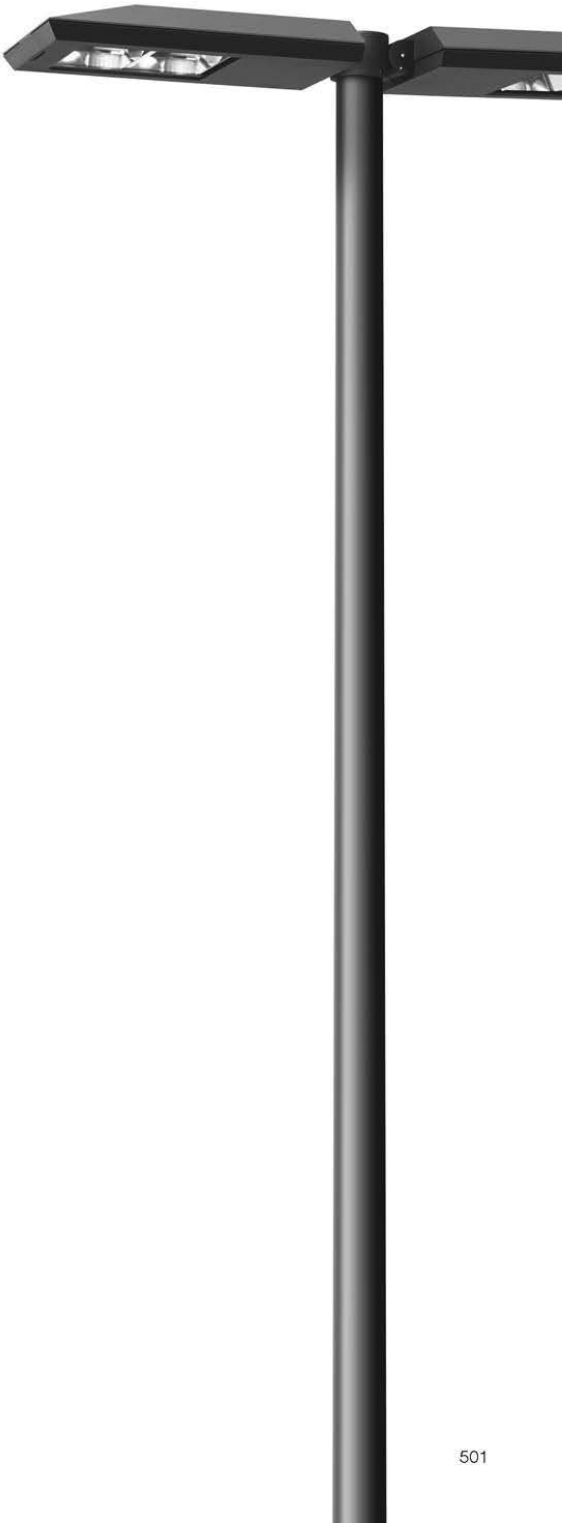
The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.

Pole-top luminaires, ready for installation, for double configuration.
Pole-top luminaires for single configuration and for bracket poles can be found on Page 498.
For lighting technology with optimised efficiency level, we use only system components in reliable materials. Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
Luminaires with this construction are also available as wall luminaires – see Page 226.
The luminaires are also easy to integrate into BEGA light control systems. For technical data of the BEGA Control, see Pages 542 to 561.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.










Asymmetrical


Asymmetrical flat beam

Double LED pole-top luminaires, optionally
- with **asymmetrical** light distribution or
- with **asymmetrical flat beam** light distribution

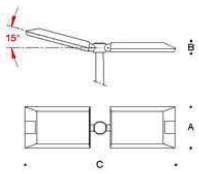
Protection class IP 66 · Safety class II
Cast aluminium, aluminium and stainless steel · Safety glass anti-glare
Reflector made of pure anodised aluminium
Attack angle adjustable to 0° or 15° · Opening without the use of tools
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Pole top ⌀ 76 mm · also available on request for pole top ⌀ 60 mm

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Pole-top luminaires · **asymmetrical**										Poles
	Lamp		Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
99 532	2 LED	67.2 W	16 880	A++	340	75	1215	7000 - 9000	⌀76	34 · 72 · 74
99 533	2 LED	92.4 W	23 200	A++	340	75	1215	7000 - 9000	⌀76	34 · 72 · 74

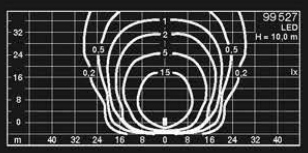
Pole-top luminaire · **asymmetrical flat beam**										Poles
	Lamp		Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
99 479	2 LED	101.2 W	23 040	A+	340	75	1215	7000 - 9000	⌀76	34 · 72 · 74

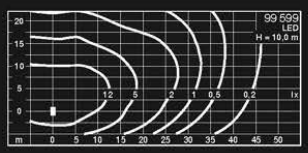
Single and double LED pole-top luminaires with asymmetrical or asymmetrical flat beam light distribution Mounting heights 8000 - 10 000 mm

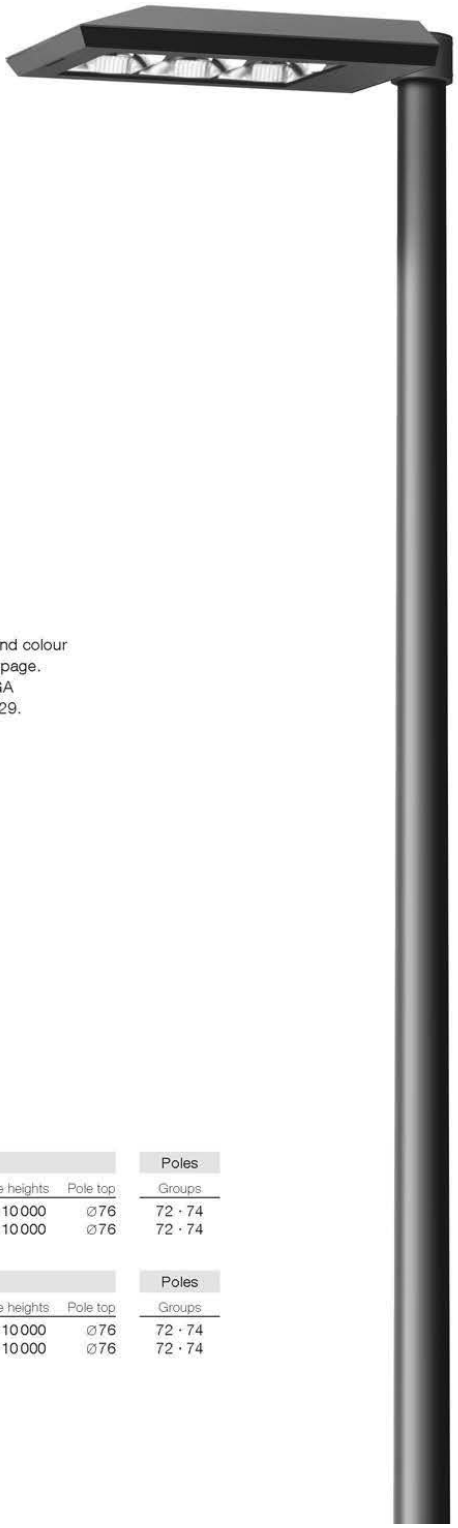
These luminaires belong to a group whose comprehensive performance spectrum allows them to be implemented for all lighting applications in street, square and city illumination.
Pole-top luminaires optionally with two light distributions:

- with asymmetrical light distribution for providing spatial illumination of surfaces, squares and parking spaces, or
- with asymmetrical flat beam light distribution for providing illumination of streets. The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.

Pole-top luminaires, ready for installation, for single or double configuration.
For lighting technology with optimised efficiency level, we use only system components in reliable materials.
Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
Luminaires with this construction are also available as wall luminaires – see Page 226. The luminaires are also easy to integrate into BEGA light control systems. For technical data of the BEGA Control, see Pages 542 to 561.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.







Asymmetrical

Asymmetrical flat beam

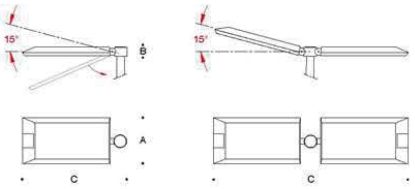
Single and **double** LED pole-top luminaires
with **symmetrical** or **asymmetrical flat beam** light distribution

Protection class IP 66 · Safety class II
Cast aluminium, aluminium and stainless steel · Safety glass anti-glare
Reflector made of pure anodised aluminium
Attack angle adjustable to 0° or 15° · Opening without the use of tools
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

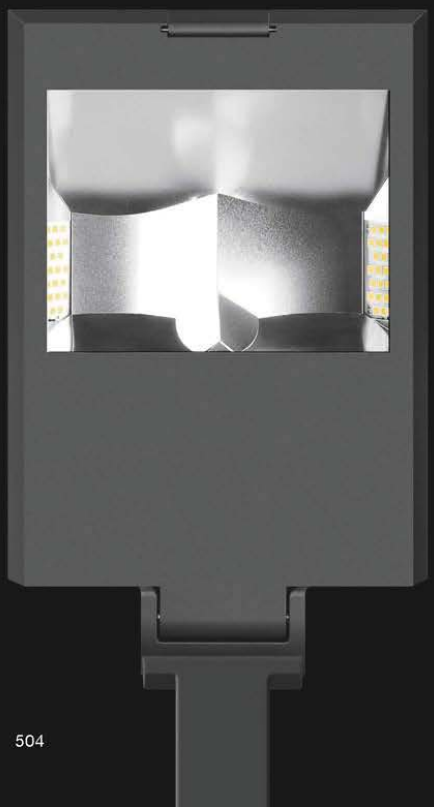


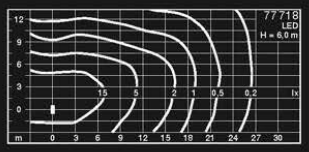
Pole-top luminaires · **asymmetrical**										Poles
	Lamp		Lumen	EEC		A	B	C	For pole heights	Pole top	Groups
99 527	LED	138.6 W	17 400	A++	**Single**	340	75	820	8000 - 10 000	ø76	72 · 74
99 534	2 LED	138.6 W	34 800	A++	**Double**	340	75	1535	8000 - 10 000	ø76	72 · 74

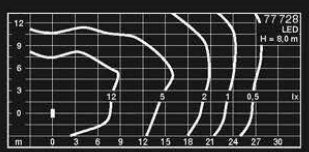
Pole-top luminaires · **asymmetrical flat beam**										Poles
	Lamp		Lumen	EEC		A	B	C	For pole heights	Pole top	Groups
99 599	LED	151.8 W	17 280	A+	**Single**	340	75	820	8000 - 10 000	ø76	72 · 74
99 481	2 LED	151.8 W	34 560	A+	**Double**	340	75	1535	8000 - 10 000	ø76	72 · 74

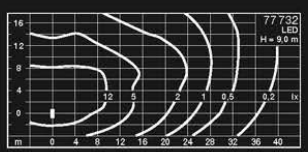
Single and double LED pole-top luminaires with outrigger arm with asymmetrical flat beam light distribution
Mounting heights 5000 - 10 000 mm

These luminaires belong to a group whose comprehensive performance spectrum allows them to be implemented for all lighting applications in street, square and city illumination.
For lighting technology with optimised efficiency level, we use only system components in reliable materials.
Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
The luminaires are also easy to integrate into BEGA light control systems. For technical data of the BEGA Control, see Pages 542 to 561.
The asymmetrical flat beam light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

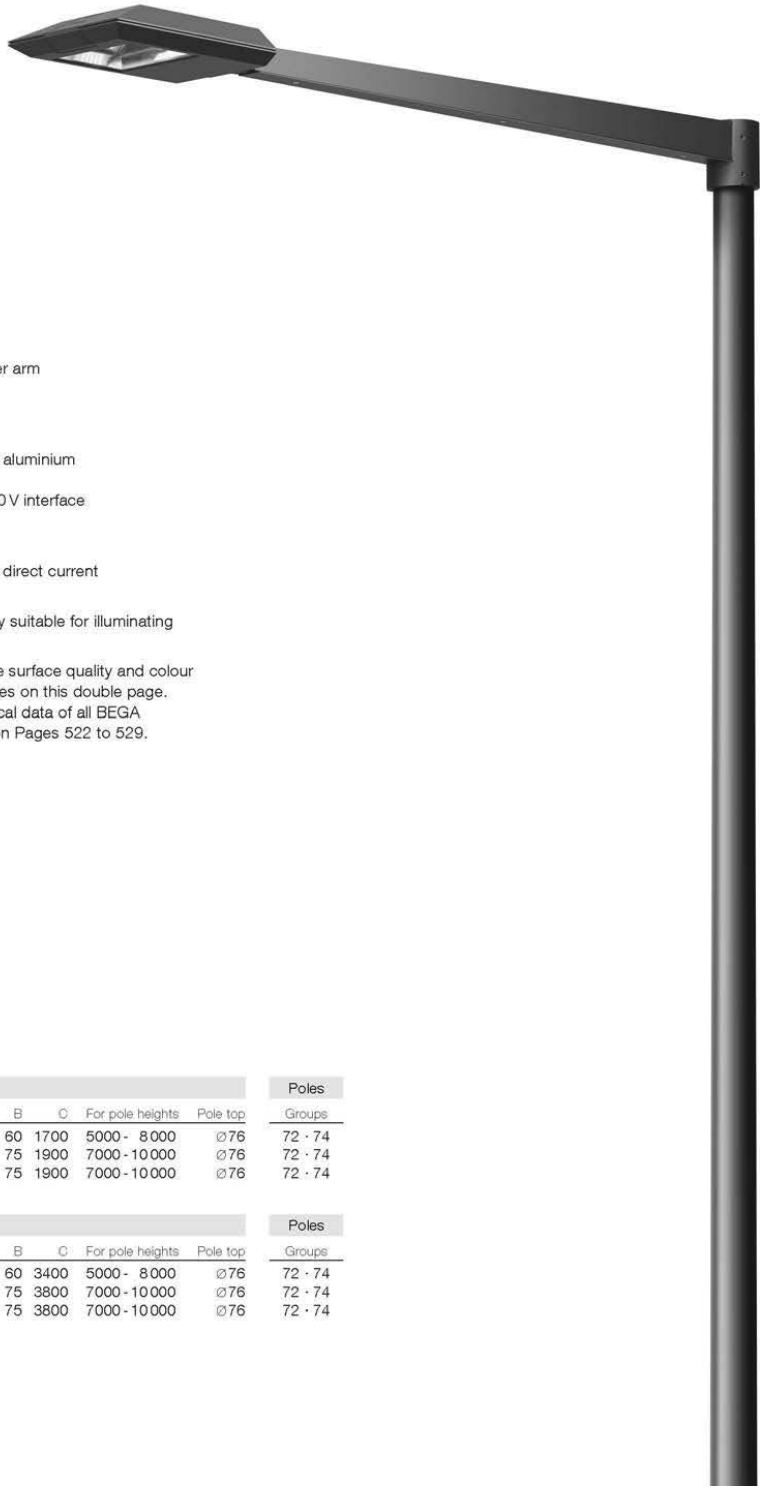








Asymmetrical flat beam



Single and **double** LED pole-top luminaires with outrigger arm
with asymmetrical flat beam light distribution

Protection class IP 66 · Safety class II
Cast aluminium, aluminium and stainless steel
Anti-glare safety glass · Reflector made of pure anodised aluminium
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
Can be opened without the use of tools

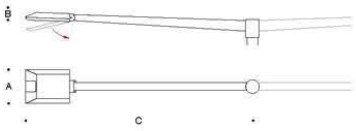
You can find luminaires for operating with alternating and direct current
in the table under AC/DC.

The asymmetrical flat beam light distribution is particularly suitable for illuminating
streets in accordance with EN 13201.

In the table, we recommend BEGA luminaire poles whose surface quality and colour
as well as design and statics match the pole-top luminaires on this double page.
You can find the complete overview as well as the technical data of all BEGA
luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

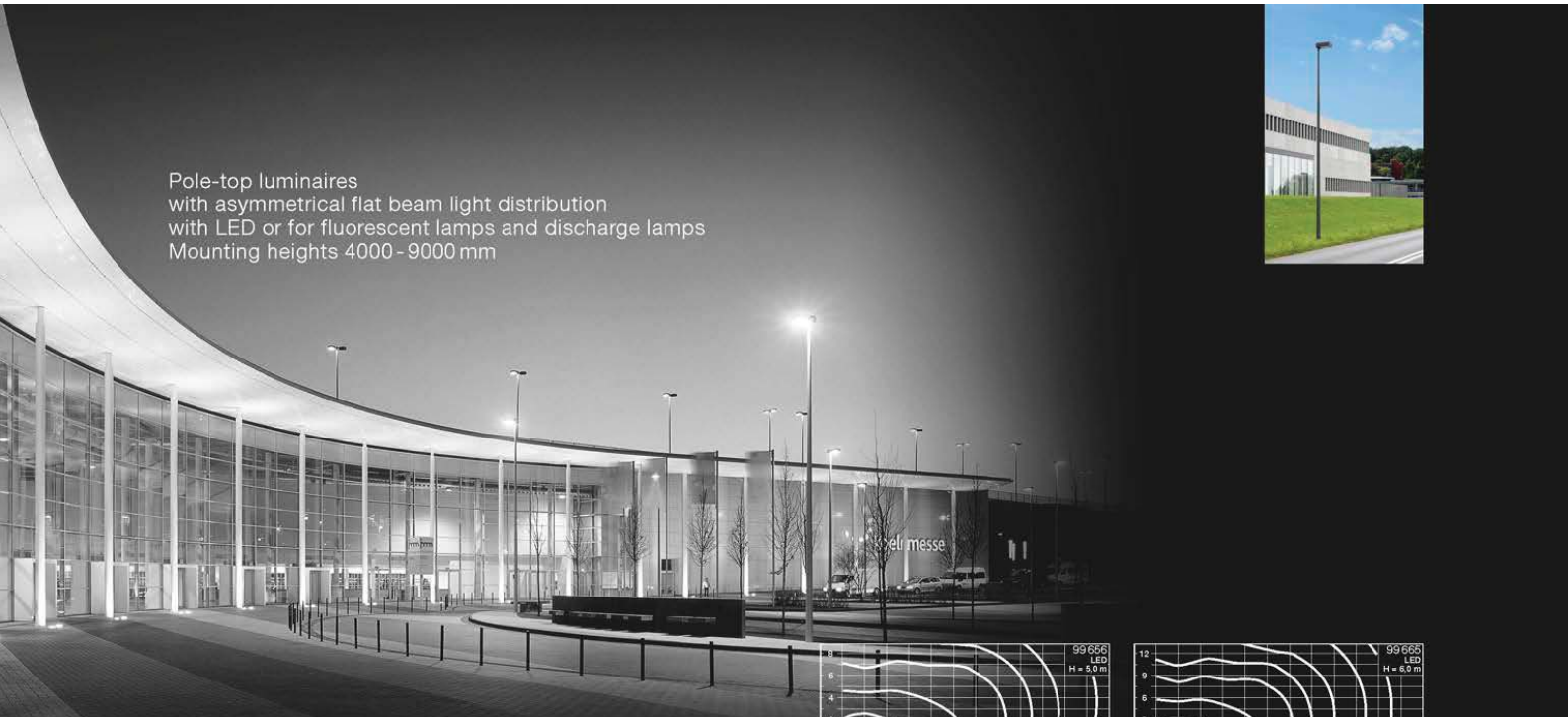


Single pole-top luminaires

	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Poles Groups
77718	LED	50.6 W	5760	A+	✔	255	60	1700	5000 - 8000	⌀76	72 · 74
77728	LED	76.0 W	8640	A+	–	340	75	1900	7000 - 10000	⌀76	72 · 74
77732	LED	101.2 W	11520	A+	–	340	75	1900	7000 - 10000	⌀76	72 · 74

Double pole-top luminaires

	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Poles Groups
77736	2 LED	50.6 W	11520	A+	✔	255	60	3400	5000 - 8000	⌀76	72 · 74
77758	2 LED	76.0 W	17280	A+	–	340	75	3800	7000 - 10000	⌀76	72 · 74
77759	2 LED	101.2 W	23040	A+	–	340	75	3800	7000 - 10000	⌀76	72 · 74



Pole-top luminaires
with asymmetrical flat beam light distribution
with LED or for fluorescent lamps and discharge lamps
Mounting heights 4000 - 9000 mm

BEGA Koffer luminaires (box luminaires) have been a tried and tested design element in public areas for over fifty years. The designation “Koffer luminaire” has become a generic term for all luminaires of this type, and not only for BEGA luminaires. Distinctive and recognised design in many parts of the world. A classic for good light.

The luminaires on this double page continue this timeless design.

With cautious changes in design, we have equipped these luminaires for all current lighting and technical requirements.

They can be installed as extensions in existing systems and feature not only a high protection class but also modern lighting technology.

The asymmetrical flat beam light distribution is particularly suitable for illumination in accordance with EN 13201. For the illumination of large areas, streets, squares and pedestrian zones.

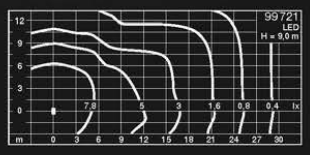
We can supply pole tops for the installation of 2 or 3 pole-top luminaires on one pole. If the pole-top luminaires on this double page are to be installed on walls, wooden poles or other structures, we can supply cross beams with different attack angles.

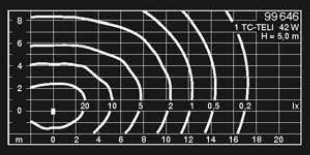
You can find cross beams and pole tops in the table on Page 507.

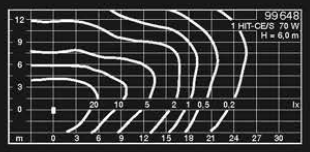
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.

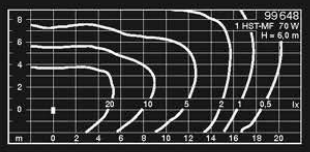
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years’ availability guarantee for the LED modules. Please refer to our information on Page 564 as well.

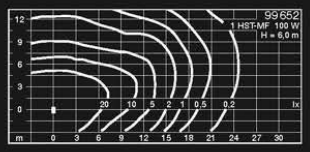
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

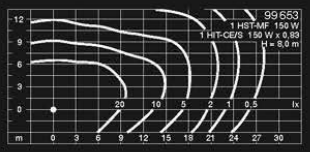


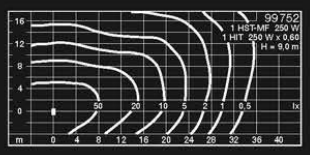


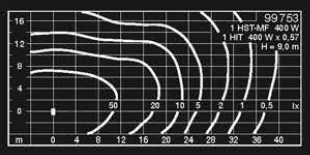




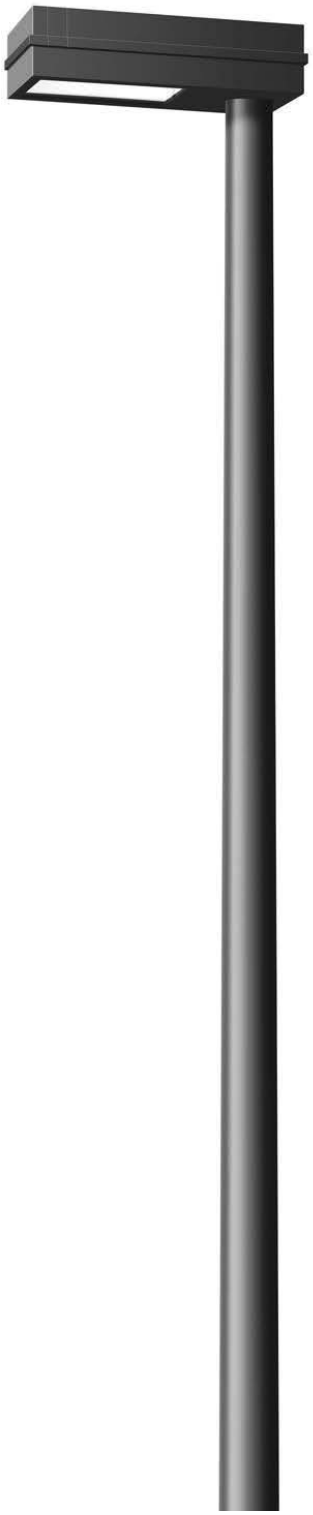








Asymmetrical flat beam



Pole-top luminaires with asymmetrical flat beam light distribution
with LED or for fluorescent lamps and discharge lamps

Protection class IP 66
Cast aluminium and stainless steel · Safety glass · Reflector made of pure anodised aluminium
Luminaires with LED · dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface can be found on Page 529.
99 646 with electronic ballast for 26 · 32 · 42 watts
Can be opened without the use of tools

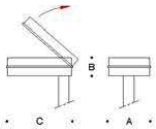
You can find luminaires for operating with alternating and direct current in the table under AC/DC.

The following accessories are available for these pole-top luminaires:
- Cross beams with attack angles of 3° or 12° for installing the luminaires on surfaces, the corners of buildings, pole-tops or other structures
- Pole tops for the installation of 2 or 3 luminaires from this double page on one luminaire pole

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour graphite



Pole-top luminaires											Poles
	Lamp		Base	Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
99 656	LED	21.0 W	–	2400	A+	✔	260	125	440	5000 - 7000	∅76	34 · 72 · 74
99 665	LED	33.8 W	–	3840	A+	✔	260	125	440	5000 - 7000	∅76	34 · 72 · 74
99 721	LED	80 W	–	6600	A	✔	315	135	570	6000 - 9000	∅76	34 · 72 · 74
99 646	1 TC-TELI	42 W	GX24q-3/4	3200	A - B	✔	260	125	440	4000 - 6000	∅76	34 · 14
99 648	1 HST-MF	50 - 70 W	E27	6600	A+ - A	–	260	125	440	4000 - 6000	∅76	34 · 14
	1 HIT-CE/S	50 - 70 W	E27	7900		–	260	125	440	4000 - 6000	∅76	34 · 14
99 652	1 HIT-CE/S	100 W	E40	10 000	A+ - A	–	260	125	440	4000 - 6000	∅76	34 · 14
	1 HST-MF	100 W	E40	10 700		–	260	125	440	4000 - 6000	∅76	34 · 14
99 653	1 HIT-CE/S	150 W	E40	15 700	A+ - A	–	260	125	440	6000 - 9000	∅76	34 · 72 · 74
	1 HST-MF	150 W	E40	17 500		–	260	125	440	6000 - 9000	∅76	34 · 72 · 74
99 752	1 HIT	250 W	E40	19 000	A+ - A	–	315	135	570	6000 - 9000	∅76	34 · 72 · 74
	1 HST-MF	250 W	E40	33 200		–	315	135	570	6000 - 9000	∅76	34 · 72 · 74
99 753	1 HIT	400 W	E40	40 000	A+ - A	–	315	135	570	6000 - 9000	∅76	34 · 72 · 74
	1 HST-MF	400 W	E40	56 500		–	315	135	570	6000 - 9000	∅76	34 · 72 · 74

70 700 

70 701 

70 702 

70 703 

Cross beams

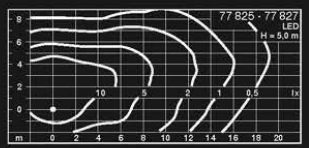
70 700 Cross beam attack angle 3°
70 701 Cross beam attack angle 12°

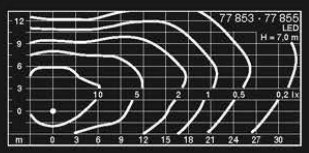
Pole tops · for pole top ∅76

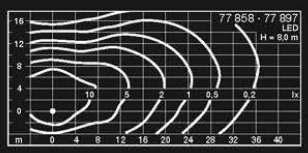
70 702 Pole top for 2 luminaires
70 703 Pole top for 3 luminaires

LED pole-top luminaires for single and double configuration and LED side-mounted pole-top luminaires for bracket poles Luminaires with asymmetrical flat beam light distribution Mounting heights 3500 - 8000 mm

New luminaires in a high protection class and safety class II whose comprehensive performance spectrum allows them to be implemented for numerous lighting applications in street, square and city illumination.
The asymmetrical flat beam light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
For lighting technology with optimised efficiency level, we use only system components in reliable materials.
Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
The luminaires are also easy to integrate into BEGA light control systems. For technical data of the BEGA Control, see Pages 542 to 561.
They are also available as wall luminaires.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.







Asymmetrical flat beam

LED luminaires with asymmetrical flat beam light distribution,
optionally as
- **Single** and **double pole-top luminaires**
- **Side-mounted pole-top luminaires**

Protection class IP 66 · Safety class II
Cast aluminium, aluminium and stainless steel
Anti-glare safety glass · Reflector made of pure anodised aluminium
Attack angle adjustable to 0° or 15° · Can be opened without the use of tools
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.

You can find luminaires for operating with alternating and direct current
in the table under AC/DC.

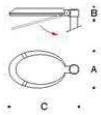
The asymmetrical flat beam light distribution is particularly suitable for illuminating
streets in accordance with EN 13201.

In the table, we recommend BEGA luminaire poles whose surface quality and colour
as well as design and statics match the pole-top luminaires on this double page.
You can find the complete overview as well as the technical data of all BEGA
luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Pole-top luminaires for pole top Ø 76 mm · also available on request for pole top Ø 60 mm
Side-mounted pole-top luminaires for connection Ø 42 mm · also available on request for Ø 60 mm

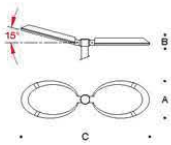
LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



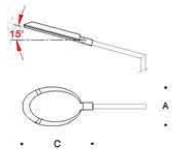
Single pole-top luminaires

	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Luminaire poles Groups	
77 825	LED	16.0 W	2200	A++	✔	260	55	520	3500 - 5000	Ø76	34 · 14	33 · 13
77 853	LED	38.0 W	4320	A+	✔	260	55	520	5000 - 7000	Ø76	72 · 74 · 14	33 · 13
77 858	LED	50.6 W	5760	A+	✔	260	55	520	5000 - 8000	Ø76	72 · 74 · 14	33 · 13



Double pole-top luminaires

	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Luminaire poles Groups	
77 826	2 LED	16.0 W	4400	A++	✔	260	55	945	3500 - 5000	Ø76	34 · 14	33 · 13
77 854	2 LED	38.0 W	8640	A+	✔	260	55	945	5000 - 7000	Ø76	72 · 74 · 14	33 · 13
77 859	2 LED	50.6 W	11 520	A+	✔	260	55	945	5000 - 8000	Ø76	72 · 74 · 14	33 · 13

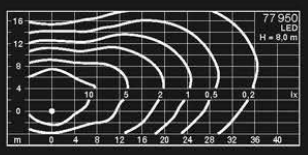


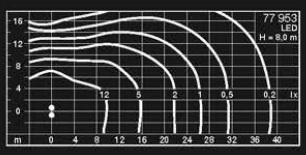
Side-mounted pole-top luminaires for bracket poles

	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Connec.
77 827	LED	16.0 W	2200	A++	✔	260	55	560	3500 - 5000	Ø42
77 855	LED	38.0 W	4320	A+	✔	260	55	560	5000 - 7000	Ø42
77 897	LED	50.6 W	5760	A+	✔	260	55	560	5000 - 8000	Ø42

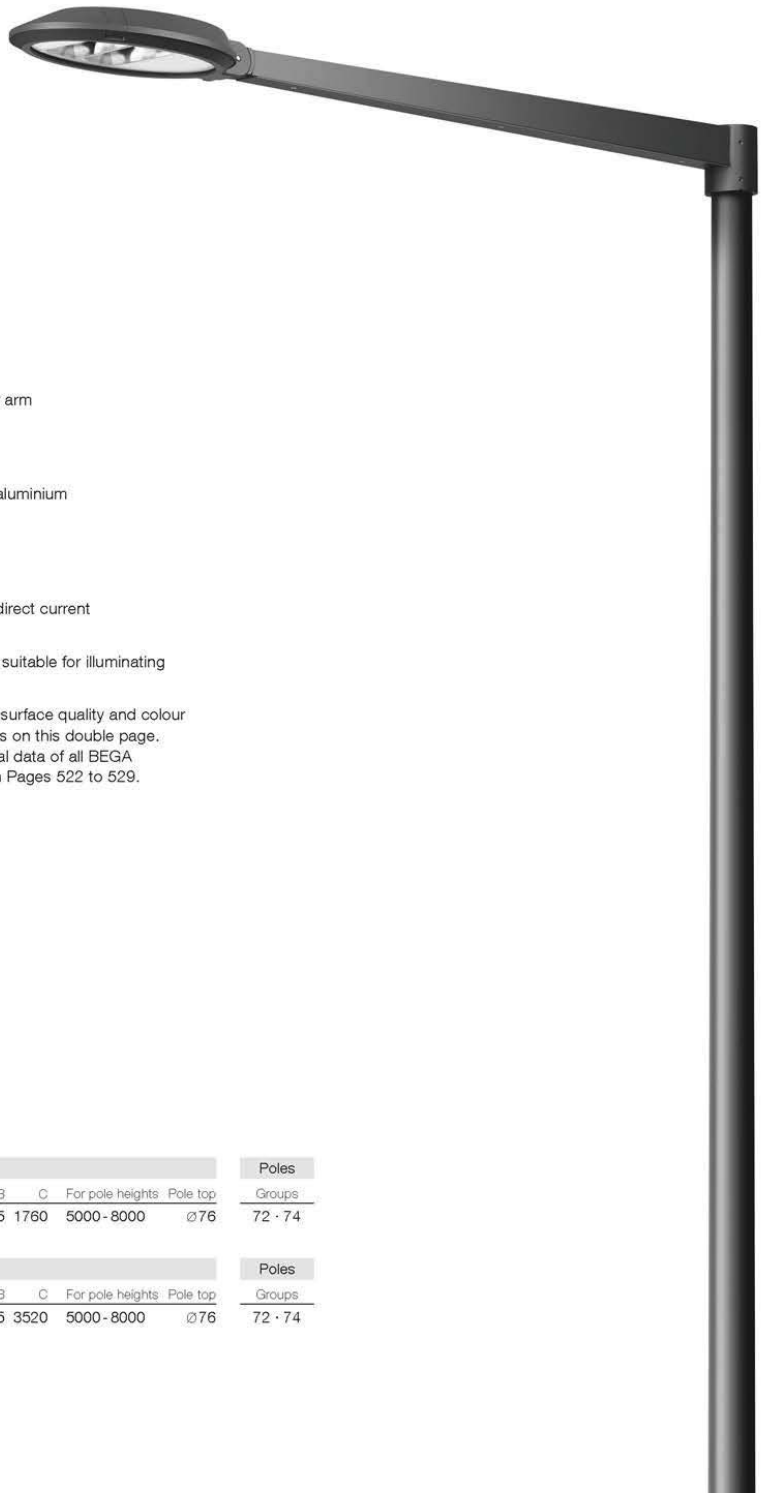
Single and double LED pole-top luminaires with outrigger arm with asymmetrical flat beam light distribution
Mounting heights 5000 - 8000 mm

The outrigger luminaires on this page have the same technical characteristics as the luminaires on Page 496. These are luminaires in a high protection class and safety class II whose comprehensive performance spectrum allows them to be implemented for numerous lighting applications in street, square and city illumination. The asymmetrical flat beam light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
For lighting technology with optimised efficiency level, we use only system components in reliable materials.
Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
The luminaires are also easy to integrate into BEGA light control systems. For technical data of the BEGA Control, see Pages 542 to 561.
They are also available as wall luminaires.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.





Asymmetrical flat beam



Single and **double** LED pole-top luminaires with outrigger arm
with asymmetrical flat beam light distribution

Protection class IP 66 · Safety class II
Cast aluminium, aluminium and stainless steel
Anti-glare safety glass · Reflector made of pure anodised aluminium
Can be opened without the use of tools
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.

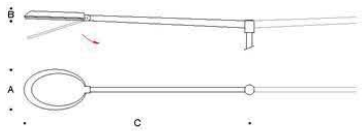
You can find luminaires for operating with alternating and direct current
in the table under AC/DC.

The asymmetrical flat beam light distribution is particularly suitable for illuminating
streets in accordance with EN 13201.

In the table, we recommend BEGA luminaire poles whose surface quality and colour
as well as design and statics match the pole-top luminaires on this double page.
You can find the complete overview as well as the technical data of all BEGA
luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**

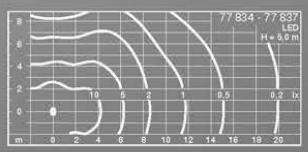


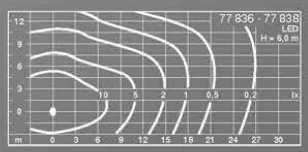
Single pole-top luminaire with outrigger arm											Poles
	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
77 950	LED	50.6 W	5760	A+	✔	260	55	1760	5000 - 8000	⌀76	72 · 74

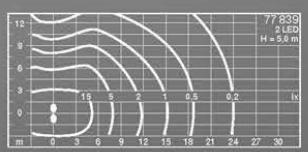
Double pole-top luminaire with outrigger arm											Poles
	Lamp		Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Groups
77 953	2 LED	50.6 W	11 520	A+	✔	260	55	3520	5000 - 8000	⌀76	72 · 74

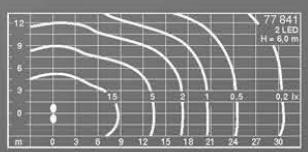
LED pole-top luminaires for single and double configuration and LED side-mounted pole-top luminaires for bracket poles Luminaires with asymmetrical flat beam light distribution Mounting heights 4000 - 8000 mm

Pole-top luminaires with asymmetrical flat beam light distribution, optionally in single or double configuration on one pole or for installation on bracket poles.
Luminaires with LED with two light outputs or for fluorescent lamps.
For mounting heights of 4000 to 8000 mm. The attack angle of the luminaires is adjustable to 0° or 15° and can thus be adjusted to the surface to be illuminated.
On request, these luminaires are also available as wall luminaires.
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

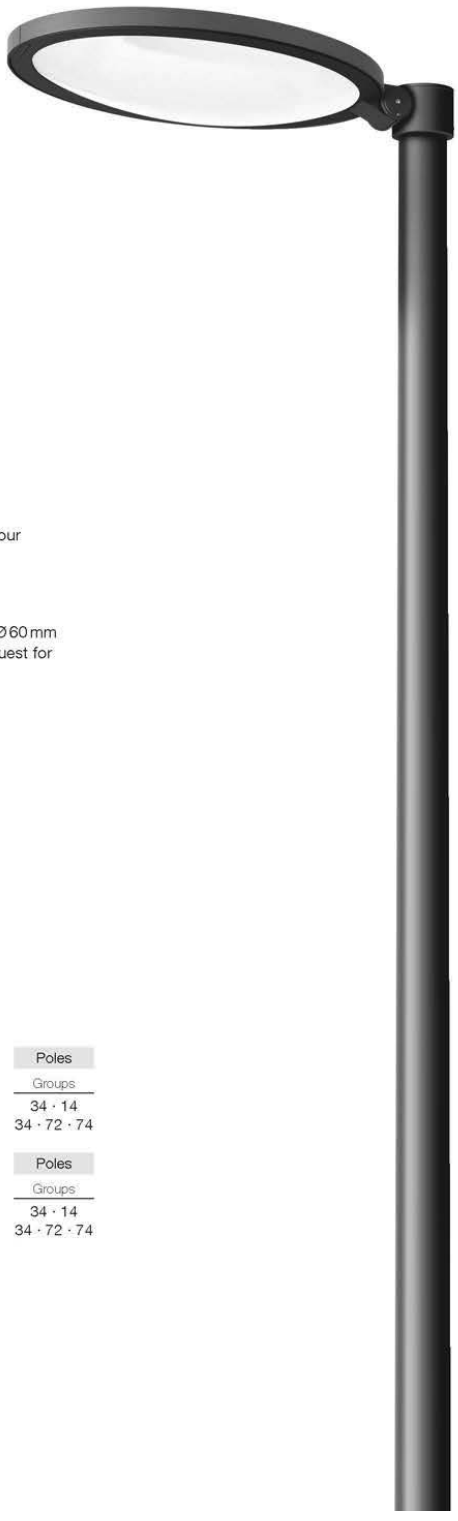








Asymmetrical flat beam



LED luminaires with asymmetrical flat beam light distribution,
optionally as
- **Single** and **double pole-top luminaires**
- **Side-mounted pole-top luminaires**

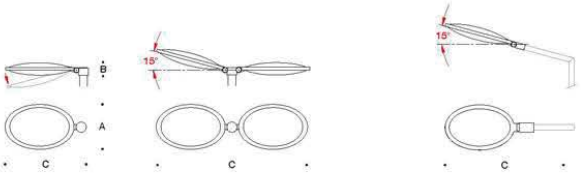
Protection class IP 66
Cast aluminium, aluminium and stainless steel
Synthetic cover with optical texture
Attack angle adjustable to 0° or 15°
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.
Can be opened without the use of tools

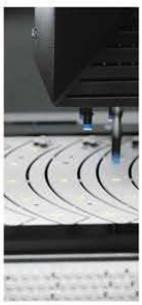
In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

Pole-top luminaires for pole top Ø 76 mm · also available on request for pole top Ø 60 mm
Side-mounted pole-top luminaires for connection Ø 60 mm · also available on request for connection Ø 42 mm

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**





Single pole-top luminaires

	Lamp		Lumen	EEC	A	B	C	For pole heights	Pole top	Poles Groups
77834	LED	23.2 W	2310	A+	400	135	760	4000 - 5000	Ø76	34 · 14
77836	LED	50.6 W	5760	A+	400	135	760	5000 - 8000	Ø76	34 · 72 · 74

Double pole-top luminaires

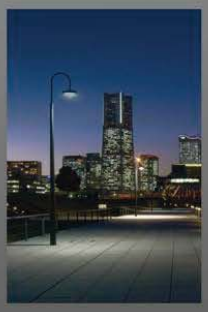
	Lamp		Lumen	EEC	A	B	C	For pole heights	Pole top	Poles Groups
77839	2 LED	23.2 W	4620	A+	400	135	1400	4000 - 5000	Ø76	34 · 14
77841	2 LED	50.6 W	11 520	A+	400	135	1400	5000 - 8000	Ø76	34 · 72 · 74

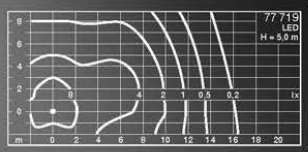
Side-mounted pole-top luminaires for bracket poles

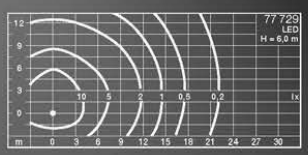
	Lamp		Lumen	EEC	A	B	C	For pole heights	Connec.
77837	LED	23.2 W	2310	A+	400	135	785	4000 - 5000	Ø60
77838	LED	50.6 W	5760	A+	400	135	785	5000 - 8000	Ø60

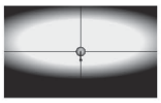
Single and double LED pole-top luminaires with asymmetrical flat beam light distribution Mounting heights 4000 - 6000 mm

This luminaire series completes the line of BEGA tube-bow pole-top luminaires that we have been producing for 30 years now. In many places, tube-bow pole-top luminaires have lost none of their relevance with respect to our streetscape.
Our LED technology allows us to create a contemporary interpretation of this luminaire design. Luminaires with a high protection class and safety class II. The asymmetrical flat beam light distribution is particularly suitable for illuminating streets in accordance with EN 13201. The optical system allows precise orientation of the asymmetrical flat beam light distribution towards the surface to be illuminated.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.









Asymmetrical flat beam

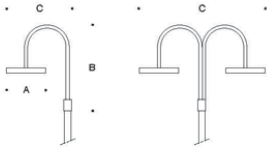
Single and **double** LED pole-top luminaires
with asymmetrical flat beam light distribution

Protection class IP 65 · Safety class II
Cast aluminium, aluminium and stainless steel
Safety glass
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this page.
You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour graphite

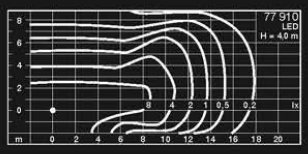


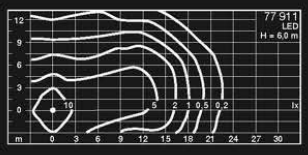
Single pole-top luminaires										Poles
	Lamp		Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
77 719	LED	21 W	2400	A^{+}	300	885	520	4000 - 5000	⌀76	34 · 14
77 729	LED	32 W	4400	A^{++}	470	1000	700	4000 - 6000	⌀76	34 · 14

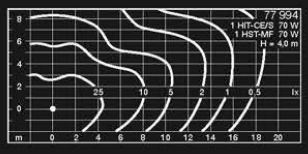
Double pole-top luminaires										Poles
	Lamp		Lumen	EEC	A	B	C	For pole heights	Pole top	Groups
77 733	2 LED	21 W	4800	A^{+}	300	885	985	4000 - 5000	⌀76	34 · 14
77 737	2 LED	32 W	8800	A^{++}	470	1000	1350	4000 - 6000	⌀76	34 · 14

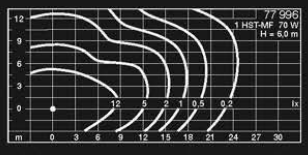
Single and double pole-top luminaires with asymmetrical flat beam light distribution with LED or for discharge lamps Mounting heights 3500 - 6000 mm

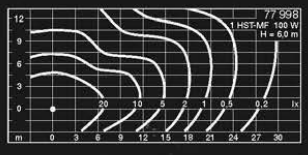
This luminaire series continues a line that we have been producing for more than 30 years.
With cautious changes in design, we have equipped these luminaires for all current lighting and technical requirements of the present day. They can be installed as extensions in existing systems and are characterised not only by a high protection class but also by modern lighting technology. The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
Luminaires with LED or for discharge lamps for the energy-efficient illumination of driveways, residential roads and trunk roads.
The new optical system allows precise orientation of the asymmetrical flat beam light distribution towards the surface to be illuminated.
We also supply these luminaires with other electrical equipment and in safety class II as custom-made products.
The LED luminaires from this range of products will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.





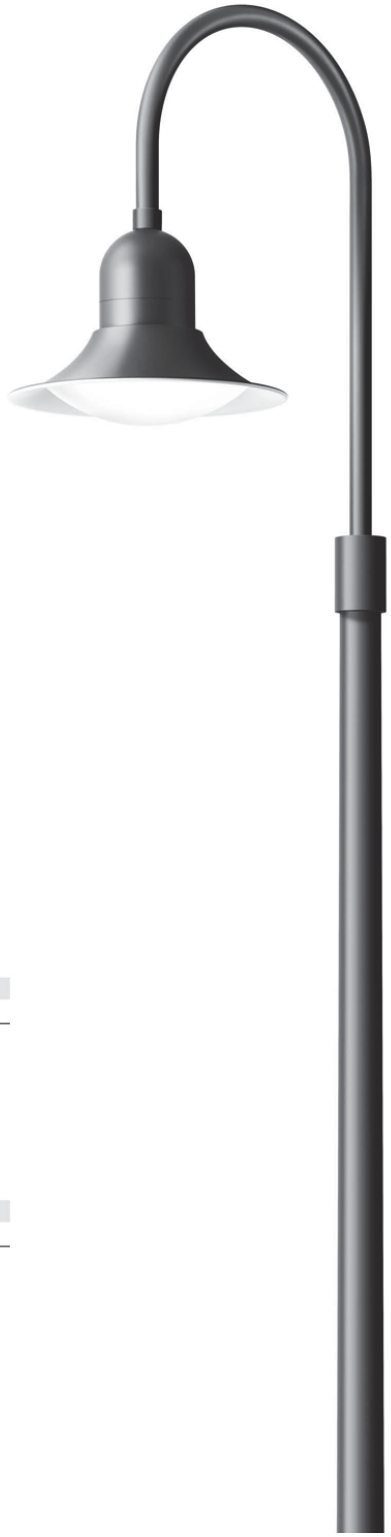






0° 7.5° 15°

The asymmetrical flat beam light distribution can be adjusted in three stages and thus oriented towards the surface to be illuminated.



Single and **double** pole-top luminaires
with asymmetrical flat beam light distribution
with LED or for discharge lamps

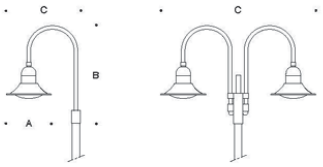
Protection class IP 65
Cast aluminium, aluminium and stainless steel · Polycarbonate cover with optical texture
Reflector made of pure anodised aluminium
The optical system can be rotated around the vertical axis of the luminaire by ± 90° and is adjustable horizontally to 0° · 7.5° or 15°.
77 910 · 77 911 can be rotated around the vertical axis by ± 90° · dimmable 1-10 V
Power reduction accessories for LED luminaires with 1-10 V interface
can be found on Page 529.

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

In the table, we recommend BEGA luminaire poles whose surface quality and colour as well as design and statics match the pole-top luminaires on this double page. You can find the complete overview as well as the technical data of all BEGA luminaire poles, anchorage units and connection boxes on Pages 522 to 529.

LED colour temperature optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour graphite

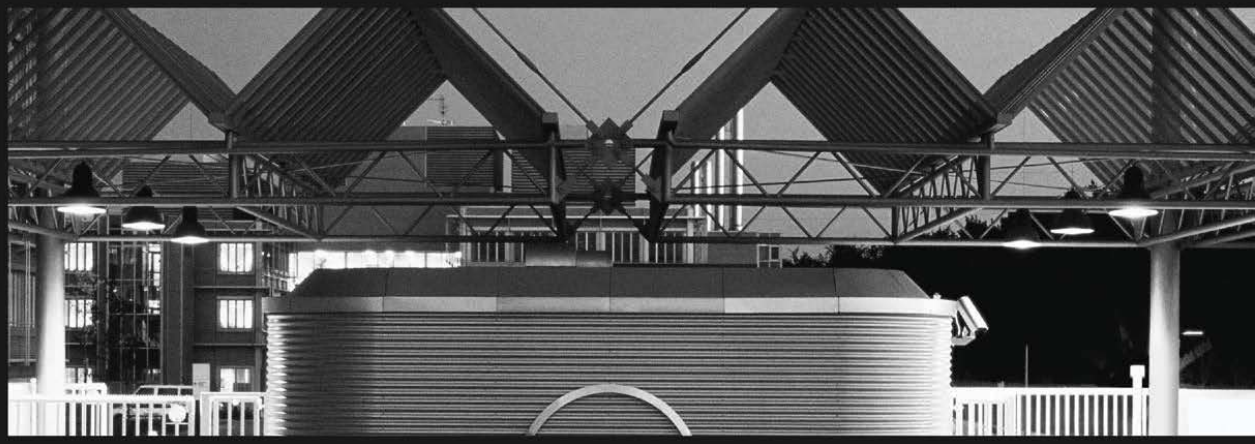


Single pole-top luminaires

	Lamp		Base	Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Poles Groups
77 910	LED	25.2 W	–	2880	A+	✔	500	1050	830	4000 - 6000	Ø76	34 · 15
77 911	LED	38.0 W	–	4320	A+	✔	675	1180	1020	4000 - 6000	Ø76	34 · 15
77 994	1 HST-MF	50 - 70 W	E27	6600	A+ - A	–	500	1050	830	3500 - 4000	Ø76	34 · 15
	1 HIT-CE/S	50 - 70 W	E27	7900		–	500	1050	830	3500 - 4000	Ø76	34 · 15
77 996	1 HST-MF	50 - 70 W	E27	6600	A+ - A	–	675	1180	1020	4500 - 6000	Ø76	34 · 15
	1 HIT-CE/S	50 - 70 W	E27	7000		–	675	1180	1020	4500 - 6000	Ø76	34 · 15
77 998	1 HST-MF	100 W	E40	10 700	A+ - A	–	675	1180	1020	4500 - 6000	Ø76	34 · 15
	1 HIT-CE/S	100 W	E40	10 000		–	675	1180	1020	4500 - 6000	Ø76	34 · 15

Double pole-top luminaires

	Lamp		Base	Lumen	EEC	AC/DC	A	B	C	For pole heights	Pole top	Poles Groups
77 995	2 HST-MF	50 - 70 W	E27	13 200	A+ - A	–	500	1150	1500	3500 - 4000	Ø76	34 · 15
	2 HIT-CE/S	50 - 70 W	E27	14 000		–	500	1150	1500	3500 - 4000	Ø76	34 · 15
77 997	2 HST-MF	50 - 70 W	E27	13 200	A+ - A	–	675	1280	1880	4500 - 6000	Ø76	34 · 15
	2 HIT-CE/S	50 - 70 W	E27	15 800		–	675	1280	1880	4500 - 6000	Ø76	34 · 15
77 999	2 HST-MF	100 W	E40	21 400	A+ - A	–	675	1280	1880	4500 - 6000	Ø76	34 · 15
	2 HIT-CE/S	100 W	E40	20 000		–	675	1280	1880	4500 - 6000	Ø76	34 · 15



Side-mounted pole-top luminaires with connecting thread G ½ · ISO 228 for fluorescent lamps and discharge lamps Mounting heights 3500 - 6000 mm

The side-mounted pole-top luminaires on this double page have a G½ connecting thread complying with ISO 228 for mounting purposes.

This connection allows them to be used in different application situations:

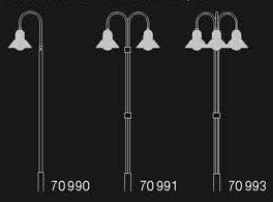
- In constructions with existing threaded holes G ½ · ISO 228
- As pendant luminaires for catenary systems using BEGA cable hanger 70 477 on Page 531
- With the BEGA tube-bow poles shown on Page 524

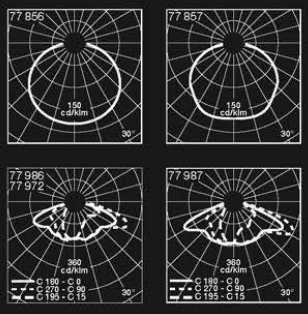
Side-mounted pole-top luminaires are available in different sizes and light outputs. With symmetrical or asymmetrical flat beam light distribution.
The luminaires are factory-fitted with opal glass, but can also be supplied with a white synthetic cover on request.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562.
All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.

Use in building constructions

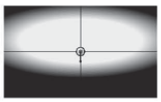
Use with the BEGA cable hanger 70 477

Use with the BEGA tube-bow pole





symmetrical



Asymmetrical flat beam

Side-mounted pole-top luminaires with connecting thread G ½ · ISO 228
with **symmetrical** or **asymmetrical flat beam** light distribution
for fluorescent lamps and discharge lamps

Protection class IP 65
77 972 Protection class IP 54
Cast aluminium, aluminium and stainless steel
77 856 · 77 857 Opal glass with thread
77 986 · 77 987 · 77 972 Polycarbonate cover with optical texture
Reflector made of pure anodised aluminium
The optical system can be rotated around the vertical axis of the luminaire by ± 90° and is adjustable horizontally to 0° · 7.5° or 15°.
Luminaires for fluorescent lamps with electronic ballast for 26 · 32 · 42 watts

You can find luminaires for operating with alternating and direct current in the table under AC/DC.

Luminaire colour graphite

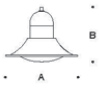
77 856
77 857

77 986
77 987

77 972

Symmetrical light distribution

	Lamp		Base	Lumen	EEC	A	B	AC/DC
77 856	1 TC-TELI	42 W	GX24q-3/4	3200	A-B	450	375	✔
77 857	2 TC-TELI	42 W	GX24q-3/4	6400	A-B	600	500	✔



Asymmetrical flat beam light distribution

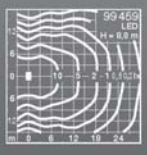
	Lamp		Base	Lumen	EEC	A	B	AC/DC
77 986	1 HST-MF	50 · 70 W	E27	6600	A^{+}-A	500	355	–
	1 HIT-CE/S	50 · 70 W	E27	7900		500	355	–
77 987	1 HST-MF	100 W	E40	10 700	A^{+}-A	675	490	–
	1 HIT-CE/S	100 W	E40	10 000		675	490	–

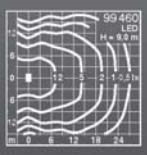
Asymmetrical flat beam light distribution

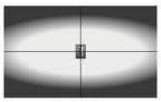
	Lamp		Base	Lumen	EEC	A	B	AC/DC
77 972	1 HST-MF	50 · 70 W	E27	6600	A^{+}-A	550	430	–
	1 HIT-CE/S	50 · 70 W	E27	7900		550	430	–

LED pendant luminaires for catenary systems with symmetrical flat beam light distribution

An LED pendant luminaire with symmetrical flat beam light distribution for use with catenary systems.
The light distribution is particularly suitable for illuminating streets in accordance with EN 13201.
Three LED outputs are available.
The cable hanger system of the luminaires is suitable for transverse suspension systems and longitudinal chain systems.
For lighting technology with optimised efficiency level, we use only system components in reliable materials. Miro® reflectors in reflection-intensive pure aluminium, anti-glare safety glass and BEGA LED modules, combined with excellent heat management, create the basis for age-resistant lighting technology.
Luminaires with this design are easy to integrate into the BEGA Control light control system. If requested, we can also supply these luminaires in safety class II.
These are luminaires which will impress you through the choice of colour temperature, a minimum LED service life of 50,000 hours and 20 years' availability guarantee for the LED modules. Please refer to our information on Page 564 as well.
The figures quoted on this double page for output and luminous flux are nominal values – see explanations on Page 562. All technical data can be found on the Internet in the data sheets issued for the luminaires at www.bega.com.







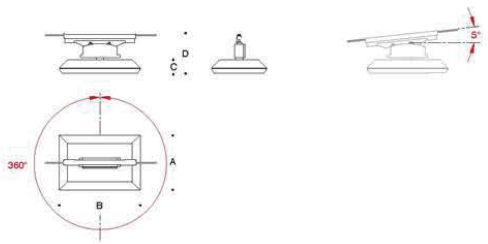
Symmetrical flat beam

LED pendant luminaires for catenary systems
for cables with Ø 5 - 12 mm
with symmetrical flat beam light distribution

Protection class IP 66
Cast aluminium, aluminium and stainless steel
Safety glass, anti-glare
Reflector made of pure anodised aluminium
Luminaires dimmable 1-10 V
Power reduction accessories for LED luminaires
with 1-10 V interface can be found on Page 529.
Connection box for through-wiring
with connection terminal 5 x 2.5□
Infinitely adjustable ± 5° horizontally
Infinitely adjustable 360° vertically

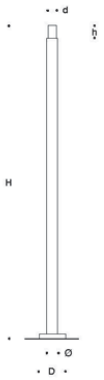
LED colour temperature
optionally 4000 K or 3000 K
4000 K – Article number
3000 K – Article number + **K3**

Luminaire colour graphite



	Lamp		Lumen	EEC	A	B	C	D
99 458	LED	50.4 W	5760	A+	310	460	75	230
99 459	LED	76.0 W	8640	A+	310	460	75	230
99 460	LED	101.2 W	11 520	A+	310	460	75	230

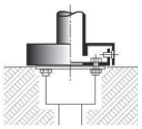
Aluminium luminaire pole **with base plate** · EN 40
Surface lacquered



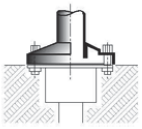
Luminaire poles with base plate for installing on an anchorage unit or on a foundation.
Corrosion-resistant poles made of aluminium and cast aluminium with static strength in accordance with EN 40.
The luminaire poles are pretreated and have a high-quality powder-coating. They are fitted with a die-cast aluminium door, a c-clamp and sliding nuts for holding a connection box, as well as a PE conductor connection.
You can find matching connection boxes and anchorage units in the table. For technical data, see Pages 528 to 529.
Matching groups of BEGA luminaire poles for our pole-top luminaires are recommended on the pages of this catalogue. The luminaire poles in these groups match the luminaires on the catalogue pages in terms of surface quality, colour and design. We supply luminaire poles in the same colour as the ordered luminaires. Poles in RAL and DB colours can be supplied at the catalogue price.
The system installer is responsible for the stability of the luminaire, luminaire pole and foundation.

Aluminium luminaire poles with base plate · lacquered

Illustration	Pole	H	d	h	Ø	D	System	kg	Connection box	Anch. unit
Group 11	**70 790**	1000	48	–	48	165	1	3.0	Without door	70 895
	70 997	1000	60	–	60	165	1	3.5	Without door	70 895
	70 793	1500	60	–	60	165	1	4.0	Without door	70 895
	70 992	1700	48	–	48	165	1	4.0	Without door	70 895
	70 994	2000	60	–	60	165	1	7.0	Without door	70 895
Group 12	**70 907**	2000	60	90	82	220	1	10.0	A	70 896
	70 908	2000	60	100	100	220	1	11.0	A	70 896
	70 722	2500	60	90	82	220	1	12.0	A	70 896
	70 723	3000	60	90	82	220	1	14.0	A	70 896
	70 930	3000	60	45	120	300	1	18.0	B · C · D · E	70 897
	70 732	3500	76	130	135	340	2	22.0	B · C · D · E	70 899
	70 729	3500	76	80	135	340	2	22.0	B · C · D · E	70 899
	70 733	4000	76	130	135	340	2	25.0	B · C · D · E	70 899
	70 728	4000	76	80	135	340	2	25.0	B · C · D · E	70 899
	70 731	4000	76	100	170	360	2	49.0	B · C · D · E	70 899
	70 734	5000	76	100	170	360	2	55.0	B · C · D · E	70 899
Group 13	**70 900**	4000	76	–	135	340	2	24.0	B · C · D · E	70 899
	70 902	5000	76	–	135	340	2	30.0	B · C · D · E	70 899
	70 904	6000	76	–	135	340	2	35.0	B · C · D · E	70 899
Group 14	**70 985**	2500	60	–	115	300	1	12.0	A · B · C	70 897
	70 986	3000	60	–	115	300	1	14.0	A · B · C	70 897
	70 788	3000	76	–	135	340	2	15.0	B · C · D · E	70 899
	70 786	3500	60	–	135	340	2	16.0	B · C · D · E	70 899
	70 789	3500	76	–	135	340	2	16.0	B · C · D · E	70 899
	70 787	4000	60	–	135	340	2	17.0	B · C · D · E	70 899
	70 791	4000	76	–	135	340	2	17.0	B · C · D · E	70 899
	70 792	4500	76	–	135	340	2	19.0	B · C · D · E	70 899
	70 794	5000	76	–	135	340	2	23.0	B · C · D · E	70 899
Group 15	**70 927**	3700	76	–	135	400	1	26.0	B · C · D · E	70 898
	70 928	4200	76	–	135	400	1	27.0	B · C · D · E	70 898
	70 926	5000	76	–	135	400	1	29.0	B · C · D · E	70 898



System 1
A mounting plate is bolted onto an anchorage unit or onto a foundation. The luminaire pole with base plate is placed on the mounting plate and bolted in horizontal position with lateral stainless steel bolts.



System 2
The luminaire pole with its base plate is bolted **directly** onto a foundation or anchorage unit.
For installation on a foundation, the fastening bolts must be provided by the customer.

Group 11 | Group 12 | Group 13 | Group 14 | Group 15

Aluminium luminaire poles **with anchorage section** · EN 40
Surface lacquered

Luminaire poles with anchorage unit. Corrosion-resistant poles made of aluminium with static strength in accordance with EN 40.
The luminaire poles are pretreated and have a high-quality powder-coating. They are fitted with a die-cast aluminium door, a c-clamp and sliding nuts for holding a connection box, as well as a PE conductor connection. Matching connection boxes are listed in the table.
For technical data, see Page 529.
Matching groups of BEGA luminaire poles for our pole-top luminaires are recommended on the pages of this catalogue. The luminaire poles in these groups match the luminaires on the catalogue pages in terms of surface quality, colour and design. We supply luminaire poles in the same colour as the ordered luminaires. Poles in RAL and DB colours can be supplied at the catalogue price.
The system installer is responsible for the stability of the luminaire, luminaire pole and foundation.

Aluminium luminaire poles with anchorage section · lacquered

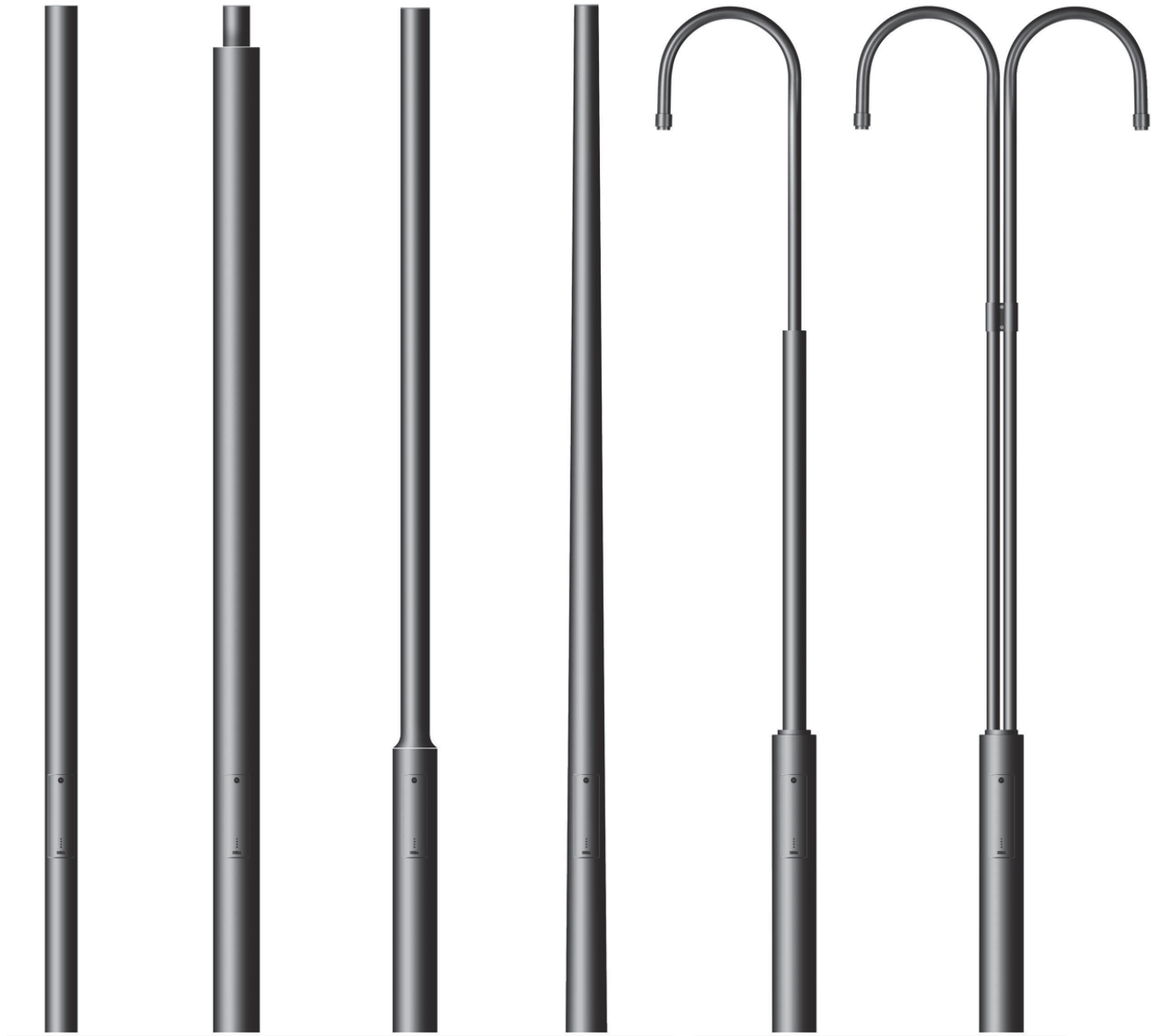
Illustration	Pole	H	d	h	Ø	E	kg	Connection box
Group 31	**70 934**	600	48	–	48	400	1.8	Without door
	70 941	1000	60	–	60	400	3.0	Without door
	70 938	1700	48	–	48	400	4.0	Without door
	70 943	2000	60	–	60	500	6.0	Without door
	70 945	2000	82	–	82	500	7.0	A
	70 954	2500	82	–	82	500	8.0	A
	70 958	3000	100	–	100	500	12.0	A
	70 957	3000	120	–	120	500	15.0	B · C · D · E
	70 959	3500	100	–	100	600	15.0	A
	70 965	3500	120	–	120	600	18.0	B · C · D · E
	70 960	4000	100	–	100	600	15.0	A
	70 974	4000	120	–	120	600	20.0	B · C · D · E
	70 989	4500	120	–	120	800	22.0	B · C · D · E
Group 32	**70 740**	2000	60	90	82	500	7.0	A
	70 741	2500	60	90	82	500	9.0	A
	70 752	3000	60	90	82	500	9.0	A
	70 909	3000	82	120	100	500	13.0	A
	70 906	3500	76	130	135	800	20.0	B · C · D · E
	70 739	3500	76	80	135	800	22.0	B · C · D · E
	70 742	4000	76	130	135	800	23.0	B · C · D · E
	70 738	4000	76	80	135	800	23.0	B · C · D · E
	70 737	4000	76	100	170	800	33.0	B · C · D · E
	70 743	4500	76	130	135	800	27.0	B · C · D · E
	70 736	4500	76	80	135	800	27.0	B · C · D · E
	70 744	5000	76	130	135	800	30.0	B · C · D · E
	70 727	5000	76	80	135	800	31.0	B · C · D · E
	70 748	5000	76	100	170	1000	40.0	B · C · D · E
	70 749	6000	89	120	220	1000	64.0	B · C · D · E
	70 750	7000	89	120	220	1000	75.0	B · C · D · E

Aluminium luminaire poles with anchorage section · lacquered

Illustration	Pole	H	d	h	Ø	E	kg	Connection box
Group 33	**70 901**	4000	76	–	135	800	28.0	B · C · D · E
	70 903	5000	76	–	135	800	35.0	B · C · D · E
	70 905	6000	76	–	135	1000	40.0	B · C · D · E
Group 34	**70 910**	2500	60	–	115	500	9.0	A · B
	70 911	3000	60	–	115	500	10.0	A · B
	70 918	3000	76	–	135	600	11.0	B · C · D · E
	70 912	3500	60	–	115	600	12.0	A · B
	70 913	3500	76	–	135	600	13.0	B · C · D · E
	70 724	4000	60	–	135	600	14.0	B · C · D · E
	70 914	4000	76	–	135	600	15.0	B · C · D · E
	70 725	4500	76	–	135	800	18.0	B · C · D · E
	70 915	5000	76	–	135	800	22.0	B · C · D · E
	70 916	6000	76	–	145	1000	26.0	B · C · D · E
	70 917	7000	76	–	145	1200	33.0	B · C · D · E
	70 726	8000	76	–	145	1200	54.0	B · C · D · E

Aluminium tube-bow poles with anchorage section · lacquered

Illustration	Pole	H	d	h	Ø	E	kg	Connection box
Group 51	**70 990**	4300	G½	–	120	800	19.0	B · C · D For **1** luminaire
	70 991	4300	G½	–	120	800	23.0	B · C · D For **2** luminaires
	70 993	4300	G½	–	135	800	23.0	B · C · D For **3** luminaires



Group 31 | Group 32 | Group 33 | Group 34 | Group 51

Steel luminaire poles **with anchorage section** · EN 40
conical · surface hot-dip galvanised or
hot-dip galvanised + lacquered

Hot-dip galvanised conical steel luminaire poles with static strength values in accordance with EN 40.
Optionally without visible welding seam in the groups 62 · 72 or with longitudinal seam weld in the groups 64 · 74.
The poles in group 72 · 74 are not only hot-dip galvanised but also have a high-quality powder coating.
All steel poles are fitted with a die-cast aluminium door, a c-clamp and sliding nuts for holding a connection box, as well as a PE conductor connection.
Matching connection boxes are listed in the table. For technical data, see Page 529.
Luminaire poles made of hot-dip galvanised steel in the sizes 12,000 · 14,000 · 16,000 · 18,000 mm on request.
If required, we can also produce special pole designs.
Matching groups of BEGA luminaire poles for our pole-top luminaires are recommended on the pages of this catalogue. The luminaire poles in these groups match the luminaires on the catalogue pages in terms of surface quality, colour and design. We supply luminaire poles in the same colour as the ordered luminaires. Poles in RAL and DB colours can be supplied at the catalogue price.
The system installer is responsible for the stability of the luminaire, luminaire pole and foundation.

Steel luminaire poles with anchorage section · **without visible welding seam**
optionally hot-dip galvanised or hot-dip galvanised + lacquered

Group 62 Hot-dip galvanised Pole	**Group 72** Hot-dip galvan. and lacquered Pole	H	d	Ø	E	kg	Connection box
70 800	**70 880**	2500	60	115	800	25.0	A · B · C
70 801	**70 881**	3000	60	115	800	28.0	A · B · C
70 811	**70 888**	3000	76	115	800	31.0	A · B · C
70 802	**70 882**	3500	60	115	800	35.0	A · B · C
70 815	**70 885**	3500	76	115	800	36.0	A · B · C
70 803	**70 883**	4000	60	115	800	38.0	A · B · C
70 804	**70 884**	4000	76	135	800	42.0	B · C · D · E
70 817	**70 887**	4500	76	135	800	46.0	B · C · D · E
70 805	**70 886**	5000	76	135	800	52.0	B · C · D · E
70 814*	**70 878***	5000	76	135	800	56.0	B · C · D · E
70 806	**70 834**	6000	76	140	1000	68.0	B · C · D · E
70 816*	**70 879***	6000	76	140	1000	70.0	B · C · D · E
70 807	**70 835**	7000	76	160	1200	96.0	B · C · D · E
70 808	**70 836**	8000	76	170	1200	119.0	B · C · D · E
70 809	**70 837**	9000	76	195	1500	151.0	B · C · D · E

* Reinforced version

Steel luminaire poles with anchorage section · **with longitudinal welding seam**
optionally hot-dip galvanised or hot-dip galvanised + lacquered

Group 64 Hot-dip galvanised Pole	**Group 74** Hot-dip galvan. and lacquered Pole	H	d	Ø	E	kg	Connection box
71 001	**71 002**	6000	76	174	1000	64.0	B · C · D · E
71 003	**71 004**	7000	76	191	1200	80.0	B · C · D · E
71 005	**71 006**	8000	76	205	1200	95.0	B · C · D · E
71 007	**71 008**	9000	76	223	1500	116.0	B · C · D · E
71 009	**71 010**	10000	76	202	1500	155.0	B · C · D · E
71 011	**71 012**	10000	89	216	1500	171.0	B · C · D · E

Group 62 · 64 **Group 72 · 74**

Stainless steel luminaire poles **with anchorage section** · EN 40
cylindrical or conical

Luminaire poles made of stainless steel with anchorage section.
Corrosion-resistant poles made of stainless steel with static strength in accordance with EN 40.
The luminaire poles are fitted with a door, a c-clamp and sliding nuts for holding a connection box, as well as a PE conductor connection.
Matching connection boxes are listed in the table. For technical data, see Page 529.
We can also supply these poles with a base plate as custom-made products.
Other dimensions and heights on request.
The system installer is responsible for the stability of the luminaire, luminaire pole and foundation.

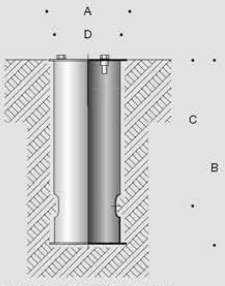
Group 60 Group 70

Stainless steel luminaire poles with anchorage section

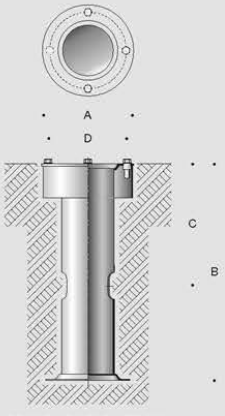
Illustration	Pole	H	d	h	Ø	E	kg	Connection box
Group 60	**70 822**	1000	60	–	60	400	5.0	Without door
	70 823	2000	60	100	85	500	11.0	A
	70 825	3000	60	110	105	500	20.0	A · B
	70 826	3500	60	110	105	600	24.0	A · B
Group 70	**70 872**	3000	60	–	115	800	29.0	A · B · C
	70 874	3500	60	–	115	800	34.0	A · B · C
	70 875	3500	76	–	115	800	35.0	A · B · C
	70 876	4000	60	–	115	800	37.0	A · B · C
	70 877	4000	76	–	135	800	43.0	B · C · D · E

BEGA anchorage units, connection boxes as well as power reduction accessories for LED luminaires

On this double page, you can find accessories for the installation and connection of BEGA bollards and luminaire poles.
Our bollards and luminaire poles with base plate are optionally bolted to a foundation or secured in the soil using a BEGA anchorage unit. You can find information about matching anchorage units on the pages in the catalogue or in the pole overview tables. Page 529 gives information about the technical data of all BEGA connection boxes as well as the accessories for reducing the power of LED luminaires.
You can find further information and instructions for use on the Internet at www.bega.com.



70 894 · 70 895 · 70 896



70 897 · 70 898 · 70 899

Anchorage units

Hot-dip galvanised welded construction made of steel, comprising a base plate, tube unit and flange plate with threaded inserts made of stainless steel.
Fastening bolts made of stainless steel for connecting the luminaires or luminaire poles to the anchorage unit are included in the scope of delivery.
Details of matching anchorage units are presented in the table for the respective luminaires or luminaire poles.

		Screws	A	B	C	D
70 894	Anchorage unit	3 x 120° M 6	95	400	330	70
70 895	Anchorage unit	3 x 120° M 8	135	400	330	100
70 896	Anchorage unit	3 x 120° M 8	165	500	350	132
70 897	Anchorage unit	4 x 90° M 10	235	600	450	200
70 898	Anchorage unit	4 x 90° M 12	310	800	450	265
70 899	Anchorage unit	4 x 90° M 16	335	800	450	283

Connection boxes **for installation in bollards or luminaire poles**

Housing made from impact-resistant synthetic material · Connec. boxes according to DIN 43628/VDE 0660 · Part 505
Details of the connection box type are presented in the table for the respective luminaires or luminaire poles.

Type		Pole Ø	Fuses	Inputs	Outputs	Protec. class	A	B
A	**70623**	≥ 60 mm	1 Micro 6.3 A	2 · 3x2.5□	1 · 3x1.5□	IP 55	45	160
	70632	≥ 82 mm	1 Neozed 16 A	2 · 5x 4□	1 · 3x1.5□	IP 55	55	160
B	**70629**	≥ 110 mm	2 Neozed 16 A	3 · 5x10□	2 · 3x1.5□	IP 54	65	240
C	**70644**	≥ 110 mm	2 Neozed 16 A	2 · 5x10□	2 · 3x2.5□	IP 44	70	230
D	**70647**	≥ 120 mm	3 Neozed 16 A	3 · 5x16□	2 · 5x2.5□	IP 54	80	255
	70650	≥ 120 mm	6 Micro 10 A	2 · 5x 4□	6 · 3x1.5□	IP 54	80	255

Connection boxes **with power changeover switch** for installation in luminaire poles

Power changeover switches for LED luminaires with 1-10 V interface enable luminaire connection and power reduction. Housing made from impact-resistant synthetic material · Connection boxes according to DIN 43628/VDE 0660 · Part 505
70635 Power reduction **with** control phase · with control phase switched off Reduction to 50%
70636 Power reduction **without** control phase · Reduction to 50% through an intelligent, self-learning system

Type		Pole Ø	Fuses	Inputs	Outputs	Protec. class	A	B
E	**70635**	≥ 120 mm	2 Neozed 6 A	3 · 5x16□	2 · 4x2.5□	IP 54	84	290
	70636	≥ 120 mm	2 Neozed 6 A	3 · 5x16□	2 · 4x2.5□	IP 54	84	290

Connection boxes for **BEGA LED system bollards**

Connection box with **2 safety sockets** 16 A · 250 V · 1 RCD 25 A · 30 mA
2 automatic cutouts C-16 A 1 pole
Housing made from impact-resistant synthetic material according to DIN 43628/VDE 0660 · Part 505

Type		Tube Ø	Fuses	Inputs	Outputs	Protec. class	A	B
F	**70869**	≥ 190 mm	1 Neozed 6 A	3 · 5x16□	4 · 5x2.5□	IP 54	370	100

Connection box with **single emergency lighting battery 4 W · 1 h**
Housing made from impact-resistant synthetic material according to DIN 43628/VDE 0660 · Part 505

Type		Tube Ø	Fuses	Inputs	Outputs	Protec. class	A	B
G	**70870**	≥ 190 mm	2 Micro 5 A	3 · 5x16□	Cable 7x1□	IP 54	370	100

Connection box with **single emergency lighting battery 4 W · 3 h**
Housing made from impact-resistant synthetic material according to DIN 43628/VDE 0660 · Part 505

Type		Tube Ø	Fuses	Inputs	Outputs	Protec. class	A	B
H	**70871**	≥ 190 mm	2 Micro 5 A	3 · 5x16□	Cable 7x1□	IP 54	370	100

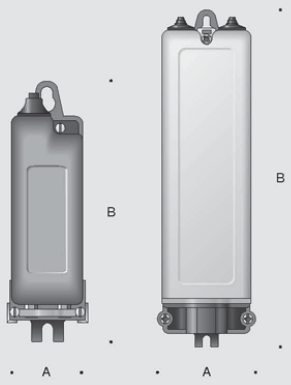
Power changeover switches for retrofitting

Power changeover switches for LED luminaires with 1-10 V interface
The power changeover switches are ready-to-connect components that can be installed in existing systems or connection boxes
Housing made of glass fibre reinforced polyamide
1 cable entry for Ø5-10 mm cables · Connection terminals 5x2.5□
1 cable entry with 1 m connecting cable
Colour graphite

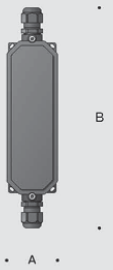
70863 with control phase switched off Power reduction to 50%
70868 Power reduction to 50% through an intelligent, self-learning system

		Protec. class	A	B
70863	Power changeover switches for retrofitting **with** control phase	IP 65	58	190
70868	Power changeover switchesfor retrofitting **without** control phase	IP 65	58	190

Type A - D **Type E**

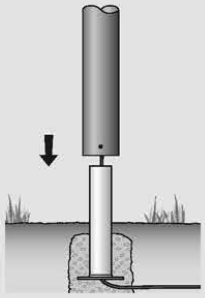


Type F **Type G + H**



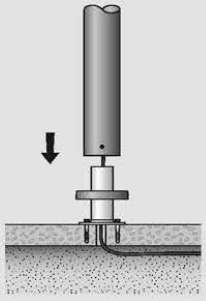
Mounting options for BEGA garden and pathway luminaires

The luminaires shown on Pages 406 to 433 are particularly suitable for illuminating private outdoor spaces. We supply these garden and pathway luminaires optionally for two different mounting systems.
With an anchorage unit made of hot-dip galvanised steel for mounting the luminaires in a flowerbed or on an uncompacted surface, for example.
With a screw-on base for mounting the luminaires on foundations provided by the customer or on another paved surface, for example. The anchorage unit, screw-on base and line connector are supplied with the luminaire and are included in the price.
At the bottom of this page, you will find a distribution box for connecting two to six luminaires.



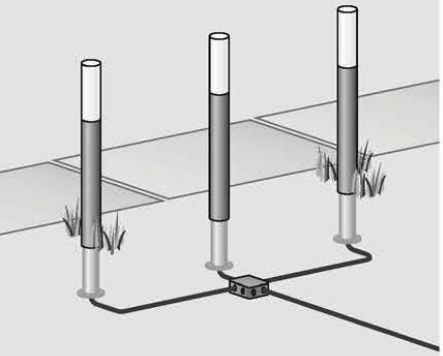
Anchorage unit · included with the luminaires on Pages 406 to 433

For mounting the luminaires in a flowerbed or an unpaved surface, for example.
The anchorage unit made of hot-dip galvanised steel is included in the scope of delivery of the luminaire.
With this type of installation, an underground cable NYY-J3x 2.5□ is passed into the anchorage unit from below.
The underground cable and anchorage unit are set in concrete. The luminaire is then connected with a line connector, placed on the anchorage unit and bolted in position.
If through-wiring to a further luminaire is required, we recommend the use of the 70730 distribution box (see below).



Screw-on base · included with the luminaires on Pages 406 to 433

For mounting the luminaires on foundations provided by the customer or on another paved surface, for example. The screw-on base made of hot-dip galvanised steel is included in the scope of delivery of the luminaire. With this type of installation, an underground cable NYY-J3x2.5□ is passed into the screw-on base from below.
The base and the mounting surface are bolted to each other. The luminaire is then connected with a line connector and fixed to the screw-on base.
The supplied cover plate between the vertical luminaire tube and the screw-on base covers the fastening bolts.
If through-wiring to a further luminaire is required, we recommend the use of the 70730 distribution box (see below).



Distribution box for installation in soil

Protection class IP68 · Safety class II

Housing made of synthetic material

7 cable entries · Connection terminal 5x4□
Sealing compound: cartridge with gel filling

After installation, the distribution box must be sealed.

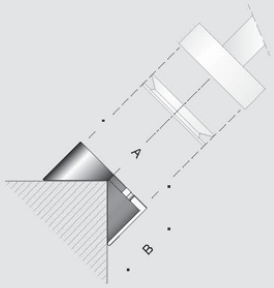
		A	B
70730	Distribution box	95x95	55

Corner blocks

For mounting luminaires on the corner of a building
You can find the relevant instructions on the pages of the catalogue.

Cast aluminium and stainless steel

Colour optionally graphite, white or silver
Graphite – Article number
White – Article number + **W**
Silver – Article number + **A**



		A	B
10 408	Corner block	∅ 90	50
10 409	Corner block	∅ 110	60
10 410	Corner block	∅ 130	70
10 412	Corner block	∅ 150	80
10 413	Corner block	∅ 170	95

Cable hangers

For side-mounted pole-top luminaires with connecting thread G ½ · ISO 228

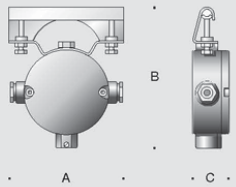
Protection class IP 54

Cast aluminium and stainless steel

2 cable entries · Connection terminals 4 x 2.5□

Suitable for cables with ∅ 5 -12 mm
Adjustable to ± 10° outside the horizontal

Colour graphite



		A	B	C
70 477	Cable hanger	160	180	50

Installation housing with **sockets** or **switches**

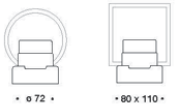
For installation in BEGA luminaire poles or garden and bollard tubes with
• diameter ≥ 82 mm or • cross-section ≥ 80 x 80 mm

Protection class IP 44

Installation housing made of cast aluminium and stainless steel
Cover made of glass fibre reinforced polyamide · Colour graphite

The installation in the luminaire poles is factory-prepared, but must be effected on the customer's premises on account of the risk of damage in transit.
Installation in garden luminaires and bollards is effected in the factory.

Colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



70 160

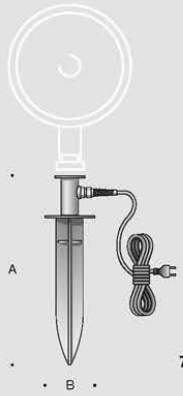
70 161 · 70 162

70 163

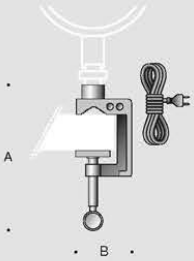
70 164 · 70 165

	Installation housing		
70 160	With safety socket	G	16 A · 250 V~
70 166	With safety socket	B/F	16 A · 250 V~
70 167	With safety socket	GB	13 A · 250 V~
70 168	With safety socket	US	20 A · 125 V~
70 161	With rocker switch	Off/two-way	10 A · 250 V~
70 162	With rocker pushbutton	NOC	10 A · 250 V~
70 163	With control switch	Off/two-way	10 A · 250 V~
70 164	With key-operated switch	Two-way	10 A · 250 V~
70 165	With key-operated switch	Pushbutton	10 A · 250 V~
70 180	Key cylinder for 10 164 +10 165		3 keys, sorted

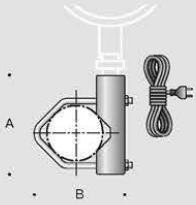
The illustrations show the devices when they have been opened.



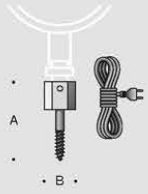
70 204



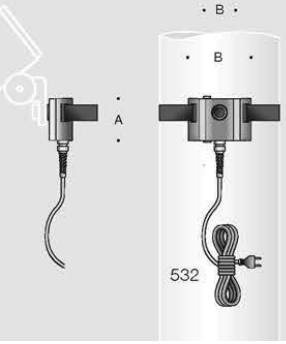
70 283



70 280



70 252



70 889

Accessories for BEGA floodlights with connecting thread G ½

There are a large number of different installation situations for floodlights.
For most applications, we can offer devices ready for connection.
For all other situations, you can find accessories on this double page which you can bolt in position individually with BEGA floodlights with connecting thread G ½ · ISO 228.
We can supply LED floodlights in combination with the accessories 70 204 · 70 283 · 70 280 · 70 252 · 70 889 factory-mounted and ready for connection.

Colour optionally graphite, white or silver
Graphite – Article number
White – Article number + **W**
Silver – Article number + **A**

Earth spike 70 204 colour graphite
Wood screw 70 252 stainless steel
Lashing strap 70 889 cast aluminium optionally graphite or silver

Lashing strap 70 889

Earth spike

Glass fibre reinforced polyamide · 5 m connecting cable with safety socket
Insert depth 250 mm

		A	B
70 204	Earth spike with connecting thread G ½	390	100

Screw clamp

Cast aluminium and glass fibre reinforced synthetic material
5 m connecting cable with safety socket · Clamping range 1 - 55 mm

		A	B
70 283	Screw clamp with connecting thread G ½	200	80

Tube clamp

Cast aluminium and stainless steel
5 m connecting cable with safety socket · Clamping range 30 - 80 mm

		A	B
70 280	Tube clamp with connecting thread G ½	140	140

Wood screw

Stainless steel
5 m connecting cable with safety socket · Screw-in depth 30 mm

		A	B
70 252	Wood screw with connecting thread G ½	80	27

Lashing strap

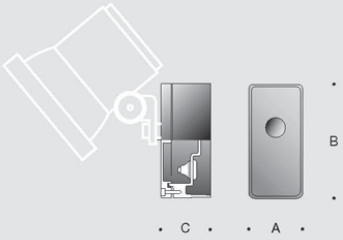
Cast aluminium · Black polyester strap · Clamping range ø 150 - 600 mm
10 m connecting cable with safety socket

		A	B
70 889	Lashing strap with connecting thread G ½	90	120

Mounting box · rectangular

For mounting a floodlight on pillars, on walls or under ceilings
Protection class IP 65
Cast aluminium and stainless steel
2 cable entries
Connection terminal 3 x 2.5□

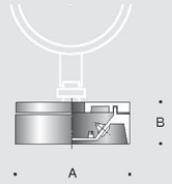
		A	B	C
70 245	Mounting box with connecting thread G ½	60	125	55



Mounting box · round

For mounting a floodlight on pillars, on walls or under ceilings
Protection class IP 65
Cast aluminium and stainless steel
2 cable entries
Connection terminal 3 x 2.5□

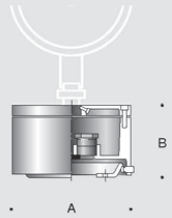
		A	B
70 217	Mounting box with connecting thread G ½	∅ 110	45
70 294	Mounting box with connecting thread G ½	∅ 130	50
70 284	Mounting box with connecting thread G ½	∅ 150	55



Mounting box for foundation or anchorage unit

For mounting a floodlight on a foundation or on the anchorage unit 70 894
Protection class IP 65
Cast aluminium and stainless steel
2 screw cable glands for connecting cable ∅ 9 - 15 mm
Connection terminal 3 x 4□
Anchorage units are accessories and must be ordered separately.
For the technical data of anchorage units, see Page 528.

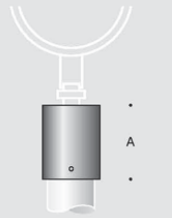
		A	B
70 221	Mounting box with connecting thread G ½	∅ 130	80
70 894	Anchorage unit for mounting box 70 221		



Pole caps for luminaire poles

For mounting a floodlight on a luminaire pole
Cast aluminium and stainless steel

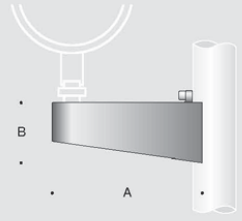
		Pole top	A
70 214	Pole cap with connecting thread G ½	∅ 48	60
70 248	Pole cap with connecting thread G ½	∅ 60	90
70 249	Pole cap with connecting thread G ½	∅ 76	105
70 229	Pole cap with connecting thread G ½	∅ 82	110



Cross beam

For mounting a floodlight on a luminaire pole ∅ ≥ 60 mm or on wall surfaces
Cast aluminium, aluminium and stainless steel
Connection terminal 3 x 2.5□

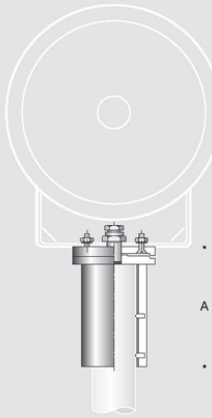
		A	B
70 379	Cross beam with connecting thread G ½	190	80



Accessories for BEGA high-performance floodlights with mounting bracket with 1 central hole Ø 22 mm and 2 holes Ø 9 mm · Distance apart 80 mm

Accessories for the permanent operation of BEGA high-performance floodlights. The floodlights on Pages 304 to 307 and 324 of the catalogue can be bolted onto the accessories shown on this double page for various applications.

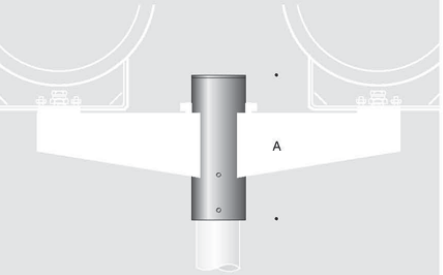
Colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Pole caps

For mounting a floodlight on a luminaire pole
Cast aluminium and stainless steel
1 screw cable gland

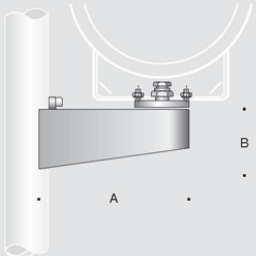
		Pole top	Insert depth	A
70 341	Pole cap	Ø 60	150	175
70 342	Pole cap	Ø 76	150	175
70 343	Pole cap	Ø 89	150	175



Pole caps

For mounting 1 or 2 cross beams 70 391 · 70 498 on a luminaire pole
Protection class IP 44
Cast aluminium, aluminium and stainless steel
Connection terminals 3 x 2.5□

		Pole top	Insert depth	A
70 386	Pole cap for 1 or 2 cross beams	Ø 60	120	320
70 387	Pole cap for 1 or 2 cross beams	Ø 76	120	340
70 388	Pole cap for 1 or 2 cross beams	Ø 89	120	340



Cross beams without or **with** operating device

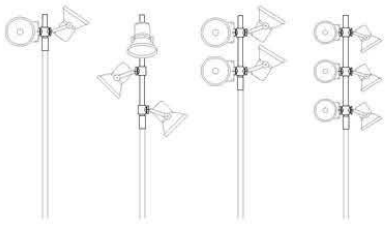
For mounting a floodlight on a luminaire pole Ø ≥ 76 mm,
on the pole caps 70 386 · 70 387 · 70 388 or on wall surfaces
Protection class IP 44
Cast aluminium, aluminium and stainless steel
Connection terminals 3 x 2.5□
1 screw cable gland

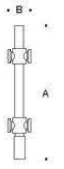
		A	B
70 391	Cross beam without operating device	380	165
70 498	Cross beam with operating device for HST 600 W	380	165

Pole tops

For multiple configuration of floodlights on a BEGA steel luminaire pole of groups 62 or 72. For the technical data of poles, see Page 526.
Pole tops ready to install for 2, 3, 4 or 6 floodlights.
However, the 6-floodlight top 70766 can be used on a standard pole only for floodlights up to Ø350 mm. For floodlights with Ø460 mm, a reinforced steel pole is required; on request, we can supply this as a custom-made product.
For structural reasons, shields must not be used.
For suitable connection boxes, see Page 529.
All technical data are given in the instructions for use for these pole tops.
Cast aluminium, aluminium and stainless steel

Colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



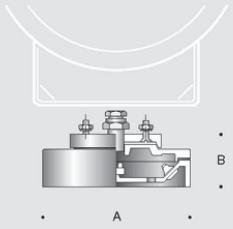


		Pole top	Insert depth	A	B
70762	Pole top for **2** floodlights	Ø76	150	565	195
70763	Pole top for **3** floodlights	Ø76	150	1765	195
70764	Pole top for **4** floodlights	Ø76	150	1165	195
70766	Pole top for **6** floodlights	Ø76	150	1765	195

Accessories for BEGA high-performance floodlights with mounting bracket with 1 central hole Ø 22 mm and 2 holes Ø 9 mm · Distance apart 80 mm

Accessories for the permanent operation of BEGA high-performance floodlights. The floodlights on Pages 304 to 307 and 324 of the catalogue can be bolted onto the accessories shown on this double page for various applications.

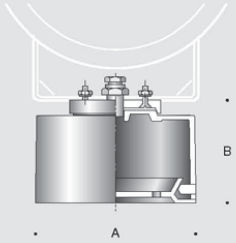
Colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



Mounting box

For mounting a floodlight on pillars, walls, foundations or under ceilings
Protection class IP 55
Cast aluminium and stainless steel
2 cable entries · Connection terminals 5 x 4□

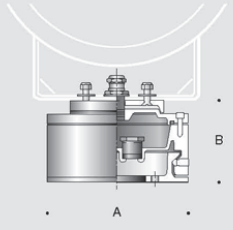
		A	B
70 348	Mounting box	Ø 180	80



Mounting base for holding a junction box

For mounting a floodlight on pillars, walls, foundations or on the anchorage unit 70 895
Cast aluminium and stainless steel · Mounting plate made of steel, galvanised
Anchorage units are accessories and must be ordered separately.
For the technical data of anchorage units, see Page 528.

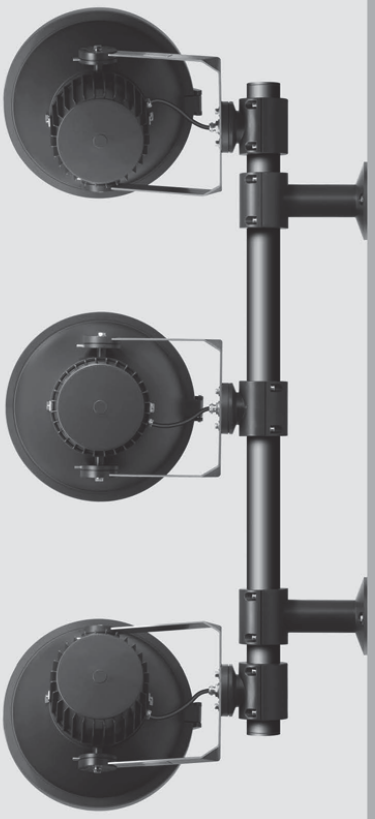
		A	B
70 208	Mounting base	Ø 200	120
70 895	Anchorage unit for mounting base 70 208		



Mounting box for foundation or anchorage unit

For mounting a floodlight on a foundation or optionally on the anchorage unit 70 895 or 70 896
Protection class IP 65
Cast aluminium and stainless steel
2 screw cable glands for connecting cable Ø 9 - 15 mm
Connection terminal 3 x 4□
Anchorage units are accessories and must be ordered separately.
For the technical data of anchorage units, see Page 528.

		A	B
70 225	Mounting box	Ø 180	110
70 895	Anchorage unit for mounting box 70 225		
70 896	Anchorage unit for mounting box 70 225		



Cross beams

For the multiple configuration of floodlights on Pages 304 to 307

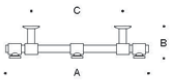
Cross beams can be mounted on wall surfaces, on supporting structures and under ceilings.
For mounting on ground surfaces, they can optionally be mounted on a foundation or on an anchorage unit. You can find matching anchorage units in the table.
Anchorage units are accessories and must be ordered separately.
For the technical data of anchorage units, see Page 528.

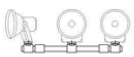
The individual installation nodes of the floodlights can be rotated in 90° steps.
Delivery includes a connection box made of cast aluminium.

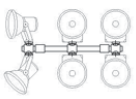
All important technical data are given in the instructions for use for these cross beams.

Cast aluminium, aluminium and stainless steel

Colour optionally graphite or silver
Graphite – Article number
Silver – Article number + **A**



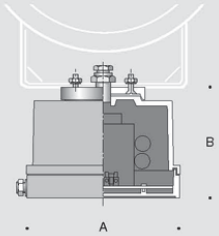




		A	B	C
70761	Cross beam for **3** floodlights	1510	300	960
70765	Cross beam for **6** floodlights	1510	300	960
70896	Anchorage unit for 70761 · 70765			

Control gear box with operating devices

For floodlights with discharge lamps
Protection class IP 54
Cast aluminium, aluminium and stainless steel
2 screw cable glands · Connection terminals 4□



			A	B
70414	Control gear box for HI/HS	250 W	240 × 180	150
70212	Control gear box for HST	600 W	240 × 180	160
70207	Control gear box for HIT	1000 W	360 × 260	210
70202	Control gear box for HIT	400 V · 2000 W	360 × 260	210

Power supply units for LED luminaires

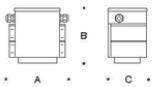
Safety transformers in accordance with EN 61558/VDE 0570 Parts 2 - 6

Input voltage: 230 V · 50 - 60 Hz
Output voltage: 24 V DC

Version encapsulated in cast resin · Safety class II · Protection class IP 65

BEGA power supply units are also suitable for operating several LED luminaires. It must be ensured that the maximum output of the power supply unit is not exceeded.

		Output	A	B	C
70 564	Power supply unit for LED luminaires 24 V DC	0 - 15 W	55	215	50
70 465	Power supply unit for LED luminaires 24 V DC	0 - 25 W	55	215	50
70 565	Power supply unit for LED luminaires 24 V DC	0 - 35 W	55	215	50

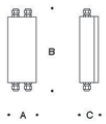


		Output	A	B	C
70 566	Power supply unit for LED luminaires 24 V DC	0 - 50 W	155	125	90
70 567	Power supply unit for LED luminaires 24 V DC	0 - 75 W	155	125	90
70 169	Power supply unit for LED luminaires 24 V DC	0 - 150 W	180	175	110

Power supply unit for LED luminaires

Alternating current range AC: 198 - 254 V ∿ 50 - 60 Hz
Direct current range DC: 200 - 240 V
Protection class IP 65
Cast aluminium, aluminium and stainless steel
Colour graphite

BEGA power supply units are also suitable for operating several LED luminaires. It must be ensured that the maximum output of the power supply unit is not exceeded. Maximum cable lengths can be found in the instructions for use.



		Output	A	B	C
70 114	Power supply unit for LED luminaires 24 V DC	0 - 25 W	105	240	70

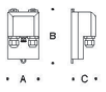
Power supply units for LED luminaires, **dimmable 1-10 V or DALI**

Dimmable power supply units for installation in suspended ceilings for BEGA LED compact downlights on Pages 10 to 19.

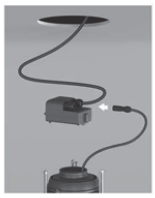
The power supply units can also be used together with a luminaire in the BEGA installation housing.
Alternating current range AC: 220 - 240 V ∿ 50-60 Hz

Plug connector for connecting the luminaire

Protection class IP 65
Housing made of glass fibre reinforced polyamide and stainless steel
Colour graphite



		Current	Output	A	B	C
10 510	Power supply unit · dimmable 1-10 V	350 mA	7 - 20 W	76	134	73
10 527	Power supply unit · dimmable 1-10 V	500 mA	10 - 28.5 W	76	134	73
10 529	Power supply unit · dimmable 1-10 V	700 mA	14 - 40 W	76	134	73
10 531	Power supply unit · dimmable 1-10 V	1 050 mA	11.5 - 33 W	76	134	73
10 520	Power supply unit · DALI	350 mA	3.5 - 21 W	76	134	73
10 528	Power supply unit · DALI	500 mA	5 - 30 W	76	134	73
10 530	Power supply unit · DALI	700 mA	15 - 37 W	76	134	73
10 554	Power supply unit · DALI	1 050 mA	16 - 34.5 W	76	134	73



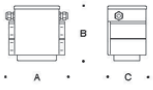
The luminaire and the power supply unit can be connected using a simple plug-in connector.
The power supply unit has two cable entries for through-wiring.

Transformers and accessories

Transformers

Safety transformers in accordance with EN 61558/VDE 0570 Parts 2-6
Version encapsulated in cast resin · Safety class II · Protection class IP 65
When choosing the transformer, make sure that the connected load does not exceed the specified output in VA. The connected load results from the luminaire type, number of units and power losses.
Transformers may only be operated outside the water.

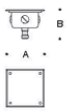
		Output	Secondary	A	B	C
70 427	Transformer 230/11.5 V	· 50 VA	1 × 50 VA	55	155	50
70 478	Transformer 230/11.5 V	· 105 VA	1 × 100 VA	55	215	50



		Output	Secondary	A	B	C
70 479	Transformer 230/11.5 V	· 200 VA	2 × 100 VA	135	125	90
70 484	Transformer 230/11.5 V	· 300 VA	1 × 300 VA	135	140	90
70 488	Transformer 230/11.5 V	· 400 VA	2 × 200 VA	180	155	110
70 497	Transformer 230/11.5 V	· 600 VA	2 × 300 VA	180	175	110

Distribution box for installation in floors or walls

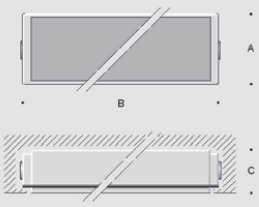
Protection class IP 67 · Safety class III
Stainless steel · Material No. 1.4301 · electropolished
4 screw cable glands
1 hose connection for soft PVC protective sheath Ø 28 × 3.5 mm
After installation, the distribution box must be sealed with a sealing compound!



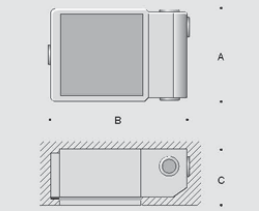
		A	B
70 223	Distribution box	120 × 120	95

Installation housings and plaster frames

When making the recessed opening, it might be practical to use an installation housing.
This overview shows the form and dimensions of our installation housings.
They are specially adapted to BEGA luminaires and allow technically perfect installation in ceilings, walls or floors.
Plaster frames should be used when luminaires are installed in brickwork or concrete walls that will later be plastered. The tables on this double page show the matching plaster frames. You can find instructions for use with all dimensions as well as material descriptions for all installation housings and plaster frames on the Internet at www.bega.com.



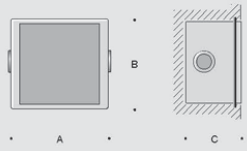
		A	B	C
10 767	Installation housing	125	680	110
10 768	Installation housing	125	1280	110
10 769	Installation housing	125	1580	110



		A	B	C
10 416	Installation housing	205	305	125
10 483	Installation housing	260	405	125
10 493	Installation housing	305	455	125

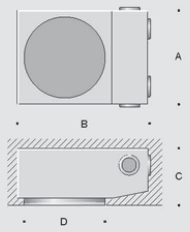
		A	B	C
10 633	Installation housing	100	35	70
10 634	Installation housing	200	35	70
10 639	Installation housing	400	35	70
10 561	Installation housing	400	51	100
10 795	Installation housing	1000	51	100

		A	B	C				
10 454	Installation housing	260	60	100	**10 054**	Plaster frame	**10 074**	Flush-mounted plaster frame
10 455	Installation housing	360	60	100	**10 059**	Plaster frame	**10 079**	Flush-mounted plaster frame
10 421	Installation housing	230	90	110	**10 021**	Plaster frame		
10 422	Installation housing	300	90	110	**10 022**	Plaster frame		
10 423	Installation housing	360	90	110	**10 023**	Plaster frame		
10 424	Installation housing	220	80	90	**10 024**	Plaster frame		
10 425	Installation housing	310	80	90	**10 025**	Plaster frame		
10 426	Installation housing	370	80	90	**10 026**	Plaster frame		
10 436	Installation housing	365	130	125	**10 036**	Plaster frame		
10 437	Installation housing	455	130	125	**10 037**	Plaster frame		
10 438	Installation housing	555	130	125	**10 038**	Plaster frame		

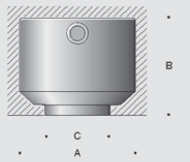


		A	B	C				
10 406	Installation housing	120	90	110	**10 006**	Plaster frame	**10 070**	Flush-mounted plaster frame
10 782	Installation housing	140	120	125	**10 082**	Plaster frame	**10 071**	Flush-mounted plaster frame
10 463	Installation housing	190	165	125	**10 063**	Plaster frame	**10 072**	Flush-mounted plaster frame
10 489	Installation housing	225	200	125	**10 089**	Plaster frame	**10 073**	Flush-mounted plaster frame
10 490	Installation housing	280	255	125	**10 090**	Plaster frame		
10 492	Installation housing	330	305	125	**10 092**	Plaster frame		

		A	B	C	D
10 776	Installation housing	215	325	130	175
10 777	Installation housing	260	385	135	230

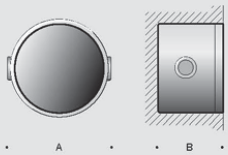


		A	B	C
10 407	Installation housing	∅170	127	∅ 71
10 873	Installation housing	∅200	90	∅ 93
10 440	Installation housing	∅200	170	∅ 97
10 441	Installation housing	∅240	200	∅128
10 442	Installation housing	∅280	220	∅160
10 443	Installation housing	∅320	250	∅202
10 444	Installation housing	∅360	270	∅240

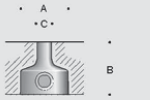


		A	B
10 415	Installation housing	∅ 80	105
10 781	Installation housing	∅130	145
10 428	Installation housing	∅145	150
10 429	Installation housing	∅205	150
10 486	Installation housing	∅185	135
10 487	Installation housing	∅245	135
10 491	Installation housing	∅295	135

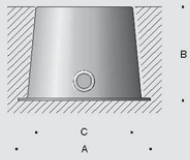
10 015	Plaster frame
10 081	Plaster frame
10 028	Plaster frame
10 029	Plaster frame
10 086	Plaster frame
10 087	Plaster frame
10 091	Plaster frame



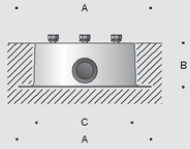
		A	B	C
10 464	Installation housing for **recessed wall** luminaires	∅120	100	∅27
10 435	Installation housing for **recessed wall** luminaires	∅120	100	∅41
10 471	Installation housing for **recessed wall** luminaires	∅150	100	∅66
70 778	Installation housing for **in-ground** luminaires	∅120	100	∅27
70 779	Installation housing for **in-ground** luminaires	∅120	100	∅41
70 745	Installation housing for **in-ground** luminaires	∅150	100	∅66



		A	B	C
70 693	Installation housing for in-ground luminaires	∅270	170	∅140
70 680	Installation housing for in-ground luminaires	∅280	191	∅200
70 687	Installation housing for in-ground luminaires	∅310	210	∅235
70 694	Installation housing for in-ground luminaires	∅350	210	∅270
70 688	Installation housing for in-ground luminaires	∅395	255	∅315
70 699	Installation housing for in-ground luminaires	∅495	340	∅395



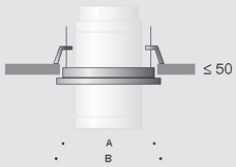
		A	B	C
70 751	Connection housing for on-ground luminaires	∅110	80	150
70 753	Connection housing for on-ground luminaires	∅180	80	240



Mounting rings

For semi-recessed install. of the luminaires on Page 68 in suspended ceilings
Cast aluminium and stainless steel
Colour optionally graphite or white
Graphite – Article number
White – Article number + **W**
A = Ø recessed opening

		A	B
10 468	Mounting ring for surface-mounted ceiling lumin. ∅150	180	195
10 473	Mounting ring for surface-mounted ceiling lumin. ∅190	220	235
10 474	Mounting ring for surface-mounted ceiling lumin. ∅220	250	265



BEGA Control · Das intelligente Licht

BEGA Control is a decentrally organised network suitable for controlling the illumination of private houses and their grounds, but also public parks, individual streets or whole blocks of streets and extensive grounds.
Thanks to its high degree of compatibility, BEGA Control can connect up practically all areas of building automation.
BEGA Control works with the three information technologies LCN · ZigBee · DALI.

BEGA Control · **LCN**

Together with our system partner, we have succeeded in further developing the tried-and-tested technology of the LCN bus for our needs.
BEGA Control · LCN is characterised by the very small amount of installation work required. Only one free wire in the electrical installation is required for communication. BEGA Control does not need any complex systems requiring a central bus master. Each of our bus modules has its own "intelligence" in the form of a highly-developed microprocessor. We are talking about a decentralised control system in which the modules behave cooperatively and are decentrally organised.
Other decisive advantages of BEGA Control · LCN are the wide range, the very short response times and also the means to implement extensive projects.
Many applications can be reliably implemented with BEGA Control · LCN – from a simple field bus to the "Internet of things".
For the technical data of BEGA Control · LCN and the system components, see Pages 544 to 553.

BEGA Control · **ZigBee**

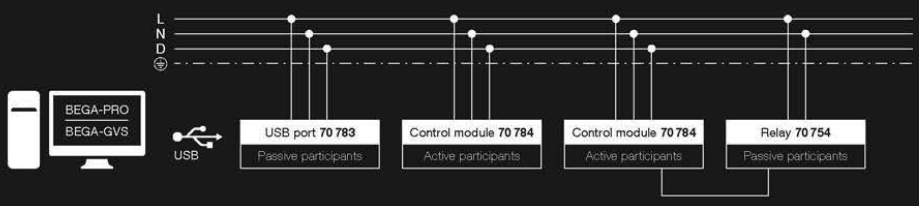
ZigBee radio control is used together with BEGA Control in control systems where there is no additional data or control cable. ZigBee radio networks are based on the IEEE 802.15.4 standard.
BEGA Control · ZigBee radio control is compatible with the ZigBee Home Automation Profile, which allows easy integration of third-party systems that comply with this standard. This guarantees that actuators, switches, pushbuttons and sensors of other manufacturers can be integrated into the system.
The system allows radio contact between devices over distances of up to 100 metres.
For the technical data of BEGA Control · ZigBee and the system components, see Pages 554 to 557.

BEGA Control · **DALI**

BEGA Control · DALI system components and configuration software round off BEGA Control in many areas. DALI was designed specially for the space-related control of building automation systems. A priority is the user-friendly control of light. DALI products are based on the standard EN 62386.
BEGA Control · DALI is compatible with DALI products commonly found on the market. This guarantees that actuators and sensors from other manufacturers can also be integrated into the system.
For the technical data of BEGA Control · DALI and the system components, see Pages 558 to 561.

The established control systems were unable to meet our high standards with respect to intelligence, flexibility, range, immunity to interference and installation friendliness. Together with our system partner, the company ISSENDORFF KG, we therefore further developed the tried-and-tested technology of the LCN bus for our special needs.
The LCN bus has been used in projects of all magnitudes at home and abroad since 1992, and has proved to be a sophisticated and reliable control technology. BEGA Control · LCN is based on these many years of experience and has been optimised even further in cooperation with ISSENDORFF KG. The simple planning, installation, configuration and handling of this product are just as convincing as the wide range of functions and the high level of intelligence of the modules.
BEGA Control · LCN is characterised by the very small amount of installation work required. Only one free wire in the electrical installation is required for communication; this can also easily be routed with live wires in one cable. Furthermore, the type of cable, for example earth cable or rubber cable,
as well as the age of the cable are not important for correct functioning. BEGA Control · LCN does not need any complex, expensive systems requiring a central bus master. Each of our bus modules has its own “intelligence” in the form of a highly-developed microprocessor.

We are talking about a decentralised control system in which the modules behave cooperatively and are decentrally organised. Each module can be parameterised individually and permanently for control tasks.
Even after a power failure, our modules are immediately ready for service again.
The comprehensive range of equipment will convince you. For example, even the smallest BEGA module can switch luminaires up to 200 VA, and dim them by means of 0-10 V, DSI or DALI. In existing DALI systems, the BEGA module is even suitable for use as a DALI bus master. This for example allows the control of coloured LED luminaires in four-channel mode according to the RGBW principle.
Other decisive advantages of BEGA Control · LCN are the wide range, the very short response times and also the possibility to implement extensive projects. In a standard bus segment length of at least 1,000 metres, signals are transmitted faultlessly in only a few milliseconds.
More than 30,000 individual modules can be integrated on one system. The modules are also characterised by exceedingly robust and surge-proof electronics. Fault-free operation is guaranteed by the communication protocol used. Many applications can be reliably implemented with BEGA Control · LCN – from a simple field bus to the “Internet of things”.



To program and configure your system, you can download our programming software **BEGA-PRO** free of charge. On the BEGA website, you will always find the latest version which is compatible with the latest module generation.
Numerous options for the individual graphic presentation and management of your lighting system are provided by our visualisation software **BEGA-GVS** . Please see the table on this page for the technical description and article numbers.

BEGA-PRO · free programming software

BEGA-PRO is the user-friendly programming software from BEGA Control · LCN which makes it easy for you to program and configure your system regardless of equipment or scope. BEGA-PRO is available as a free download from the BEGA website and guarantees full compatibility with the current generation of modules. After the software has been installed on a Windows PC, the connection to the system can be established via the USB port.
BEGA-PRO then automatically recognises the modules connected to the bus and makes them available for programming.
One module can perform about 480 commands and appear as a user in 12 groups. Already programmed illumination parameters can be saved and adapted to other systems with an identical or similar configuration. Lighting scenarios and function sequences, for example staircase lighting, can easily be transferred therefore to other system control units.
The modules can then be programmed with or without a direct connection to the bus system. If programming is performed offline, subsequent transmission to the system is again possible via the USB port. When the PC is disconnected, the BEGA control modules will continue to work autonomously. To modify the lighting scenarios, you must access the BEGA-PRO software again. It is also possible to use BEGA-PRO and the visualisation software BEGA-GVS in the network. In this case, a PC with coupling software acts as an interface between the control modules and computers with the configuration and visualisation software. Two parallel connections are provided, thus enabling user-friendly access to a lighting system's configuration without impairing its operation.

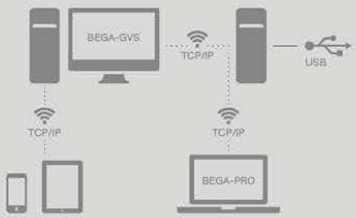
BEGA-GVS · Global Visualisation Software

BEGA-GVS enables the graphic representation and management of the lighting system. The user interface can be designed according to your wishes. For example, the ground plan of an installation can be combined with icons and customized texts as wallpaper. There are numerous icons in the software library to make it easier to visualise the system which is to be controlled. Besides the many standard functions, the software includes macros, a time switch and an event messenger, which among other things can also send messages by e-mail. BEGA-GVS can control and manage any number of control systems worldwide.
This software can be installed on a central Windows server and is then accessible worldwide via the Internet. Software setup, administration and operation are effected using the browser on stationary PCs, tablet PCs or smartphones. This means that all functions can also be controlled manually, regardless of the programming status.
In real time and without having to be present directly on site. BEGA-GVS should be installed on a Windows PC or Windows Server. A precondition is the Windows 7 Professional or Windows 8 Professional operating system or a Windows Server Version 2003 or later. With the BEGA-GVS, any number of users can access the functions of one control system simultaneously.
A password and security system regulates the rights individually approved for the user.
The BEGA-GVS visualisation software is available in English, German, Spanish, Catalan and Russian.
With the BEGA-GVS 70 002 licence, 30 modules can be managed, and 10 tableaux, 10 events and 10 time switching points can be created.
For additional licences, see the table. Updates are continuously available free of charge on the BEGA website.

70 002	BEGA-GVS	on a USB stick

Additional licences:

70 004	BEGA-GVS M	for 10 additional modules
70 005	BEGA-GVS T	for 10 additional tableaux
70 009	BEGA-GVS E	for 10 additional events
70 010	BEGA-GVS Z	for 10 additional timer events
70 012	BEGA-GVS K	for coupling with BACnet, OPC or MODBUS



BEGA Control · **LCN**
System components for DIN rail mounting

BEGA Control · LCN consists of various system components. These include a control module, relays, USB port, buffer amplifier, light sensor and motion sensor.
All components are compatible and can be configured individually. The control module forms the basis of the overall control system. Listed on this double page are the system components which can be mounted on a DIN rail in control cabinets.
System components for other installation situations, e.g. with protection class IP 54/65 for use outdoors, can be found on Pages 548 and 549. System components with protection class IP 20 for indoors can be found on Pages 550 and 551.

70784

Control module

The control module is equipped with an independent intelligence system and requires no central controller. It automatically regulates the data traffic with other bus modules, analyses sensors, triggers actuators, processes information and passes this information on.

Control module for DIN rail mounting · Control output for 1-10 V/DSI/DALI
Output for operating devices with a switching capacity of 200 VA
I connection and P connection · Voltage 220 - 240 V, 50/60 Hz

		A	B	C
70784	Control module	40	90	65

70754

Relays for DIN rail mounting

Relays for DIN rail mounting are available optionally with 2 or 8 contacts.

The double relay is fitted with 2 contacts that can be addressed individually.
The potential-free switching contacts (changeover contacts) can take a load of 230 V/16 A each.
A double relay can be extended by a second 2-fold relay to form a block with 4 contacts.

The 8-fold relay has 8 contacts that can be addressed individually.
The potential-free switching contacts (changeover contacts) can take a load of 230 V/12.5 A each.

The relay block is connected to the control module 10 784 via the P connection (for peripheral equipment).

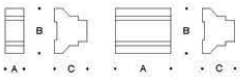
70754 double relay

2 x changeover contacts: Break contacts and make contacts
Switching capacity max. 3600 VA per relay contact
Starting current max. 70 A per relay contact
Supply voltage 220 - 240 V, 50/60 Hz
2 x P connections

70759 8-fold relay

8 x changeover contacts: Break contacts and make contacts
Switching capacity max. 2875 VA per relay contact
Starting current max. 70 A per relay contact
Supply voltage 220 - 240 V, 50/60 Hz
1 x P connection

70759



		A	B	C
70754	Double relay	40	90	65
70759	8-fold relay	115	90	65

Pushbutton/binary adapter for DIN rail mounting

The 4-fold pushbutton/binary adapter is fitted with 4 input contacts that can be addressed individually.
The input contacts can be used optionally for external pushbuttons or external binary contacts.
The operating mode is set at the pushbutton/binary adapter via a DIP switch. In the pushbutton adapter function, it is possible to evaluate conventional pushbuttons; in the binary adapter function, it is possible to evaluate permanent contacts from e. g. timers.
Up to 4 pushbutton/binary adapters can be connected to one 70 784 control module, whereby 2 pushbutton/binary adapters can be set in the function as pushbutton adapters and 2 pushbutton/binary adapters in the function as binary adapters.

4 x input contacts for 220 - 240 V, 50 / 60 Hz

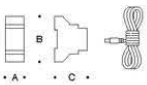
		A	B	C
70 735	4-fold push button/binary adapter	40	90	65

70 735

USB port for DIN rail mounting

The USB port allows the configuration of all BEGA light control modules via a connection to a PC.
The necessary software BEGA-PRO is available as a free download on the BEGA homepage.
The USB port also allows a connection to the BEGA-GVS visualisation software.

Voltage 220 - 240 V, 50 / 60 Hz



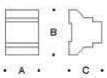
		A	B	C
70 783	USB port for DIN rail mounting	40	90	65

70 783

Buffer amplifier for DIN rail mounting

The buffer amplifier allows the separation of data lines and prevents accidental energisation in distribution networks. It prevents the triggering of an RCD due to data current. In large systems, many thousands of metres of lines can be generated with the buffer amplifier.
In distribution networks with several RCDs, each RCD must be equipped with its own buffer amplifier in order to separate the data line. The buffer amplifiers are connected to each other via a 2-core shielded line, whereby no more than a total of 15 buffer amplifiers can be connected. If buffer amplifiers are used in several distribution networks, the connection of the nodes is effected by means of segment couplers (LCN-LLG or LCN-LLK).

LCN-LLG – Local Control Network for fibre optic cables
LCN-LLK – Local Control Network for synthetic cables
Voltage 220 - 240 V, 50 / 60 Hz
Shielded 2-core cable max. 50 m



		A	B	C
70 780	Buffer amplifier for DIN rail mounting	70	90	65

70 780

BEGA Control · **LCN**
System components protection class IP 54 / 65

Some system components require a higher protection class because they are used and mounted outdoors. On this double page, you can find components such as control modules for different types of installation, as well as light and motion sensors for applications with a high protection class. They are compatible with all BEGA Control · LCN components and can be individually configured. System components with protection class IP 20 for indoors can be found on Pages 550 and 551. System components for DIN rail mounting can be found on Pages 546 and 547.

70 854

70 862 **70 864**

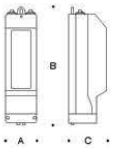
Control modules for different types of installation

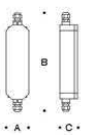
The control module is equipped with an independent intelligence system and requires no central controller. It automatically regulates the data traffic with other bus modules, analyses sensors, triggers actuators, processes information and passes this information on.

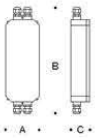
70 854 Control module in a connection box · Protection class IP 54 for installation on the c-clamp of BEGA luminaire poles
Control output for 1-10 V / DSI / DALI
Output for operating devices with a switching capacity of 200 VA
I connection and P connection
Input 3 · 5 x 16□ · Output 2 · 5 x 1.5□
Voltage 230 V / 400 V, 50 / 60 Hz · Data connection
Housings made of impact-resistant synthetic material
Connection boxes in accordance with DIN 43 628 / VDE 0660 Part 505
for microfuse up to max. 5 A

70 862 Control module in a housing · Protection class IP 65 for installation in luminaire poles, bollards and for example in suspended ceilings, as well as all types of installation outside a luminaire
Control output for 1-10 V / DSI / DALI
Output for operating devices with a switching capacity of 200 VA
I connection and P connection
Input 5 x 1.5□ · Output max. 5 x 1.5□
Voltage 220 - 240 V, 50 / 60 Hz · Data connection
Housing made of glass fibre reinforced polyamide and stainless steel

70 864 2 control modules in one housing · Protection class IP 65 for installation
e. g. in suspended ceilings, as well as all types of installation outside a luminaire
Control output for 1-10 V each / DSI / DALI
Output for operating devices with a switching capacity of 200 VA each
I connection and P connection
Input 2 · 5 x 1.5□ · Output 2 · 5 x 1.5□
Voltage 220 - 240 V, 50 / 60 Hz · Data connection
Housing made of glass fibre reinforced polyamide and stainless steel







		A	B	C
70 854	In connection box for installation in luminaire poles	85	290	90
70 862	For use outside the luminaire	55	250	45
70 864	Like 70 862 · With 2 control modules	90	270	45

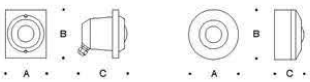
Light sensor for installation in BEGA luminaire poles or for surface mounting

The light sensor measures the degree of illuminance of the ambient light. The measured brightness values can be individually processed by the BEGA-PRO software. Efficient control of the lighting system can thus be guaranteed.

70 860 For installation in BEGA luminaire poles or bollards with
diameter > 82 mm · Cross-section > 80 x 80 mm
Installation diameter 72 mm · Factory-fitted supply line 4 m · 4 x 1 □

70 820 For surface mounting, e. g. on walls

Measuring range 1-100 000 lx
Cast aluminium, stainless steel, glass
Integrated sensor module (70 707)
Voltage 220 - 240 V, 50 / 60 Hz
Protection class IP 65



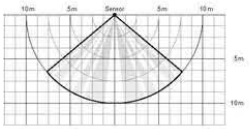
		A	B	C
70 860	Light sensor for installation	90	105	105
70 820	Light sensor for surface mounting	110	110	50

70 860

70 820

Motion sensor for installation in BEGA luminaire poles or for surface mounting

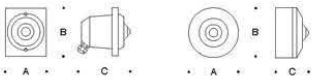
The motion sensor reacts to temperature differences caused by the heat radiating from the human body. In the event of a change, the sensor sends a signal to the bus. The detected movement values can be individually processed by the BEGA-PRO software.



70 861 For installation in BEGA luminaire poles or bollards with
diameter > 82 mm · Cross-section > 80 x 80 mm
Installation diameter 72 mm · Factory-fitted supply line 4 m · 4 x 1 □

70 821 For surface mounting, e. g. on walls

Function via PIR (Passive InfraRed)
Cast aluminium, stainless steel, synthetic material
Integrated sensor module (70 707)
Voltage 220 - 240 V, 50 / 60 Hz
35° adjustable in all directions
Range max. 10 m · Protection class IP 65



		A	B	C
70 861	Motion sensor for recessed installation	90	105	115
70 821	Motion sensor for surface mounting	110	110	75

70 861

70 821

BEGA Control · **LCN**
System components protection class IP 20

Your system planning may require system components which are used indoors.
On this double page, you can find components such as light sensors, motion sensors and various adapters which enable e.g. switches and pushbuttons which are commonly found on the market to be integrated in the control system.
They are compatible with all BEGA Control · LCN components and can be individually configured. System components for other installation situations, e.g. with protection class IP 54/65 for use outdoors, can be found on Pages 548 and 549. System components for DIN rail mounting can be found on Pages 546 and 547.

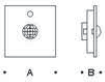
70711

Motion and light sensor for wall mounting

The motion sensor reacts to temperature differences caused by the heat radiating from the human body. In the event of a change, the sensor sends a signal to the bus. The light sensor measures the degree of illuminance of the ambient light. The measured motion and light values can be individually processed by the BEGA-PRO software. The sensor module 70707 is required for installation.

The scope of delivery includes an adapter frame for installation in flush-mounted or cavity wall boxes.

Function via PIR (Passive InfraRed)
Measuring range 1-100000lx
Synthetic material, glass
Range max. 10m · Protection class IP 20



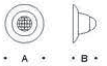
		A	B
70711	Motion and light sensor	60 □	28

70710

Motion sensor for ceiling installation

The motion sensor reacts to temperature differences caused by the heat radiating from the human body. In the event of a change, a signal is sent to the bus. The sensor module 70707 is required for installation.

Function via PIR (Passive InfraRed)
Synthetic material
Range max. 10m · Protection class IP 20



		A	B
70710	Motion sensor	∅45	25

Sensor module for installation in switching and cavity boxes

With this sensor module, motion and light sensors as well as pushbuttons can be integrated in the BEGA Control · LCN system. This is equipped with an independent intelligence system and requires no central controller. It independently controls the data traffic with other bus modules. For installation in switching and cavity boxes.

I connection and T connection
Voltage 220 - 240 V, 50 / 60 Hz
Protection class IP 20

		A	B
70 707	Sensor module	50	18

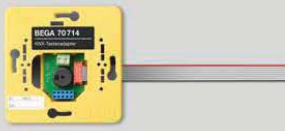
70 707

KNX pushbutton adapter for installation in switching and cavity boxes

With the KNX pushbutton adapter, KNX pushbuttons can be integrated in the BEGA Control · LCN system. For installation in switching and cavity boxes. You can find suitable pushbutton brands in the instructions for use. The sensor module 70 707 is required for installation

Protection class IP 20

70 714	KNX pushbutton adapters for 3 and 4-fold pushbutton sensor
70 715	KNX pushbutton adapters for single and double pushbutton sensor
70 716	KNX pushbutton adapters for single pushb. sensor in combi. with 3-fold or 4-fold pushb.n sensor (70 714)



70 714 · 70 715 · 70 716

Pushbutton adapters 8-fold for installation in switching and cavity boxes

With this pushbutton adapter, conventional pushbuttons can be connected to the sensor module 70 707. In this way, up to 8 pushbuttons can be integrated in the BEGA Control · LCN system. For installation in switching and cavity boxes. The sensor module 70 707 is required for installation.

Protection class IP 20

70 717	Pushbutton adapters 8-fold

70 717

Power supply unit for KNX pushbutton adapters for installation in switching and cavity boxes

Some KNX pushbutton brands require an additional power supply. The power supply unit 70 708 supplies the KNX pushbutton adapters 70 714, 70 715 and 70 716 with the required power. For installation in switching and cavity boxes.

Input voltage: 220 - 240 V, 50 / 60 Hz
Output voltage: 16 - 32 V DC
Protection class IP 20

		A	B
70 708	Power supply unit for KNX pushbutton adapter	50	22

70 708

BEGA Control · **LCN**
System units

To make the installation of the bus system as easy as possible for our customers, we have already combined several practical components and are offering these as preassembled system units. Two sizes of bus suppliers and three sizes of preassembled switch actuators cover a large number of requirements.

70 858

Bus suppliers

Depending on the size of the system, the consumers are operated with one or three phases. For small systems, the 1-phase bus supplier is sufficient. To guarantee a uniform load on the mains even with large systems, the 3-phase bus supplier is required. Both bus suppliers contain an automatic cutout, an earth fault circuit breaker and a USB port.

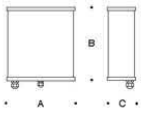
70 858 (1 phase)
220 - 240 V, 50 / 60 Hz
2-pole earth fault circuit breaker 40 A / 30 mA
Automatic cutout + N (1 x 16 A) with auxiliary contact for data wire

Cast aluminium, aluminium, stainless steel, synthetic material
Tripping characteristic B 16 A · USB port (70 783)
Connection terminal input 2 · 5 x 16 □ · Connection terminal output 2 · 5 x 2.5 □

70 859 (3 phase)
400 V, 50 Hz
4-pole earth fault circuit breaker 40 A / 30 mA
Automatic cutout + N (3 x 16 A) with auxiliary contact for data wire

Cast aluminium, aluminium, stainless steel, synthetic material
Tripping characteristic B 16 A · USB port (70 783)
Connection terminal input 2 · 5 x 16 □ · Connection terminal output 2 · 7 x 2.5 □

Protection class IP 65
70 818 Empty housing without installation inserts, with DIN rail



		A	B	C
70 858	1-phase bus suppliers	320	350	140
70 859	3-phase bus suppliers	320	500	140
70 818	Empty housing with DIN rail	320	500	140

70 832

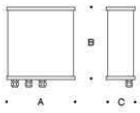
Switch actuators

The switch actuators consist of a control module (70 784) and a relay.
Depending on the number of loads to be switched, the switch actuators are available with 2-fold, 4-fold or 8-fold relays.
An analogue interface, a DSI interface or a DALI interface can be used in addition for dimming. The make contact is factory-prewired.

Input 230-400 V, 50 / 60 Hz · Data connection (2 · 7 x 2.5 □)
Output 230 V, 50 / 60 Hz

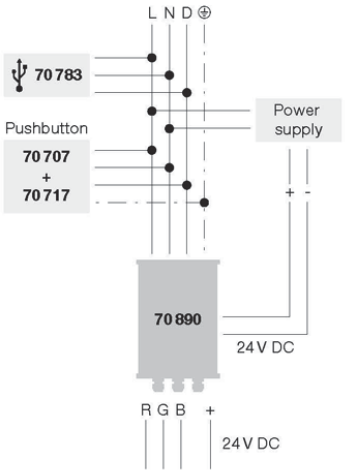
70 830 2 x 230 V 3600 VA 2.5 □ · 0-10 V 2.5 □ · DSI / DALI
70 831 4 x 230 V 3600 VA 2.5 □ · 0-10 V 2.5 □ · DSI / DALI
70 832 8 x 230 V 2875 VA 2.5 □ · 0-10 V 2.5 □ · DSI / DALI

Cast aluminium, aluminium, stainless steel, synthetic material
Protection class IP 65

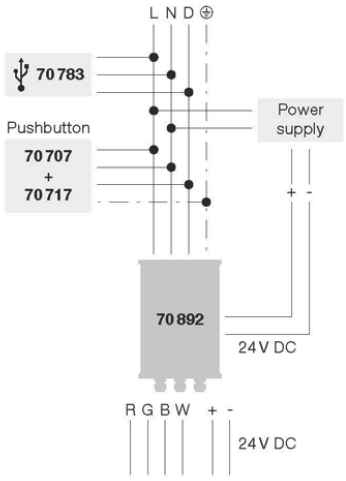


		A	B	C
70 830	Switch actuator 2-fold	320	350	140
70 831	Switch actuator 4-fold	320	350	140
70 832	Switch actuator 8-fold	320	350	140

Using the operating devices 70 890 and 70 892, it is possible to integrate RGB in-ground luminaires or RGB W swimming pool luminaires in BEGA Control · LCN systems.



RGB in-ground luminaires



RGB W swimming pool luminaires

70 890 · 70 892

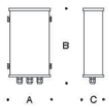
Operating devices

Operating devices for
- RGB in-ground luminaires 24 V DC
  for max. 15 luminaires 33 291 · 88 897 or 6 luminaires 33 292 · 88 898 or 2 luminaires 33 293 · 88 899
- RGB W swimming pool luminaires 24 V DC
  for max. 5 luminaires 99 815

Without power supply unit with integrated control module
Protection class IP 65 · Safety class I

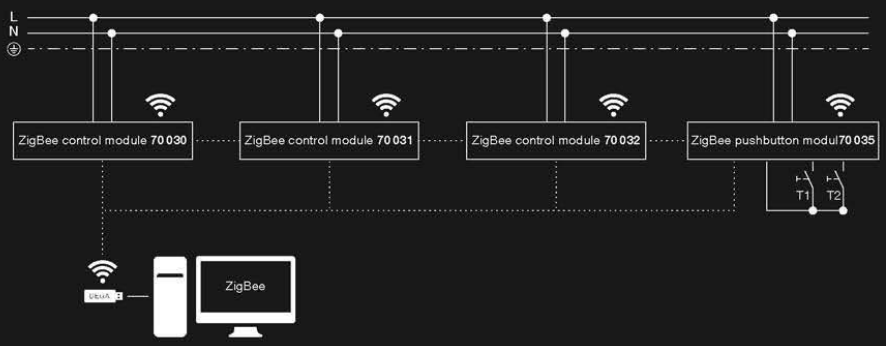
For integration in LCN systems

A separate power supply unit is required for operation. For the technical data of power supply units, see Page 538.
The programming software BEGA-PRO 70 001 and a USB port 70 783 are required for programming and configuration. For technical data, see Page 545.



		A	B	C
70 890	Operating devices for RGB in-ground luminaires 24 V DC	215	310	65
70 892	Operating devices for RGB W swimming pool luminaires 24 V DC	215	310	65

ZigBee radio control is used in control systems where there is no additional data or control cable. This simple and comfortable option of allowing a system to be controlled by means of a radio network represents an ideal supplement to BEGA Control. ZigBee radio networks are based on the IEEE 802.15.4 standard.
BEGA Control · ZigBee radio control is compatible with the ZigBee Home Automation Profile, which allows easy integration of third-party systems that comply with this standard. This guarantees that actuators, switches, pushbuttons and sensors of other manufacturers can be integrated into the system.
The system allows radio contact between devices over distances of up to 100 metres, and this range can be increased significantly if the radio signal is transmitted unhindered from device to device. The system can be programmed and parameterised optionally using two pushbuttons on the control module or comfortably using our ZigBee programming software.
Each module can be individually and permanently programmed for control tasks, and is also immediately ready for use even after a power failure.
We shall be pleased to help you in the project planning of your system, or you can familiarise yourself with the benefits of BEGA Control · ZigBee radio control in our showrooms.



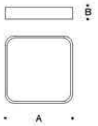
ZigBee · Programming software

ZigBee programming software makes it easy and comfortable to program and parameterise a ZigBee system.
Like the system components, the software is compatible with the ZigBee Home Automation Profile. This guarantees that actuators, switches, pushbuttons and sensors of other manufacturers can be integrated into the system.
The software is installed on a standard Windows PC. The connection to the system can then be established using the ZigBee USB stick.
The software makes it possible to control and manage ZigBee networks. It allows not only the search for existing ZigBee networks but also the creation of your own networks. This makes it possible to implement the identification, control, switching, dimming and firmware updates of ZigBee control modules. Relationships between the ZigBee control modules can easily be established using drag and drop.
New versions of the software are available free of charge on the BEGA website. Our update service guarantees full compatibility with the current generation of modules.

70 011 ZigBee programming software with ZigBee USB stick www.bega.com

ZigBee · Smart Home Gateway

ZigBee Gateway with integrated 2.4 GHz aerial and plug-in power supply unit for use indoors.
The ZigBee Gateway can be connected to any Internet router commonly available on the market.
It creates a connection between the installed ZigBee components and the home network or Internet.
In this way, your ZigBee system can be controlled via compatible terminals using the Smart Home app.
Administration, management and use control functions are performed via the web interface of the ZigBee Smart Home Gateway.
Protection class IP 20 · with plug-in power supply unit 100-240 V · 50/60 Hz · Ethernet connection · USB 2.0
All technical data can be found on the Internet at www.bega.com.



	A	B
70 588 ZigBee Smart Home Gateway	110	30

BEGA Control · **ZigBee**
System components

ZigBee system components are an easy and user-friendly way to expand the range of application of BEGA Control when no free data wire is available. The ZigBee control module is equipped with an independent intelligence system and requires no central controller. It automatically regulates the data traffic with other bus modules, processes information and passes this information on. On this double page, you can find system components such as ZigBee control modules for different types of installation, as well as aerials and pushbutton modules.

70 032

ZigBee control modules for different types of installation

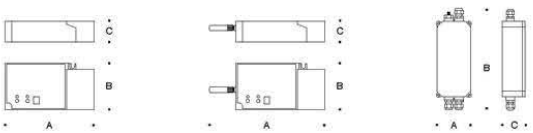
70 032 ZigBee control module · Protection class IP 20 · with integrated 2.4 GHz aerial
for use indoors and wherever a higher protection class is not required.
Control output 1-10 V for addressing dimmable operating devices.
Relay contact with switching capacity of 1150 VA.
Can be used as a router or coordinator in ZigBee networks.
Voltage 220-240 V, 50/60 Hz

70 030 ZigBee control module · Protection class IP 20 · with 2.4 GHz aerial
for use indoors and wherever a higher protection class is not required.
Control output 1-10 V for addressing dimmable operating devices.
Relay contact with switching capacity of 3600 VA.
Input for potential-free pushbutton or binary contact.
Can be used as a router or coordinator in ZigBee networks.
Aerial connection: SMA jack for 50 Ω.
Voltage 100-240 V, 50/60 Hz

70 030

70 031 ZigBee control module in an IP 65 housing with aerial connection for use in luminaire poles or in suspended ceilings and wherever a higher protection class is required.
Housing made of glass fibre reinforced polyamide and stainless steel
Control output 1-10 V for addressing dimmable operating devices.
Relay contact with switching capacity of 3600 VA.
Input for potential-free pushbutton or binary contact.
Can be used as a router or coordinator in ZigBee networks.
Aerial connection: SMA jack for 50 Ω.
Input 2 · 5 x 1.5 □ · Output 5 x 1.5 □
Voltage 100-240 V, 50/60 Hz

70 031



		A	B	C
70 032	ZigBee control module with strain relief · integrated aerial	130	60	30
70 030	ZigBee control module with strain relief · external aerial	165	70	30
70 031	ZigBee control module in one housing · external aerial	95	270	45

ZigBee pushbutton module for installation in switching and cavity boxes

ZigBee pushbutton module IP 20 with integrated 2.4 GHz aerial
for use indoors and wherever a higher protection class is not required.
2 or 4 inputs for potential-free pushbuttons.
Can be used as a router or coordinator in ZigBee networks.
Voltage 100-240 V, 50/60 Hz

		A	B
70 035	ZigBee pushbutton module for flush installation 2 pushbutton contacts	∅50	25
70 027	ZigBee pushbutton module for flush installation 4 pushbutton contacts	∅50	35

70 035 · 70 027

ZigBee control module for installation in switching and cavity boxes

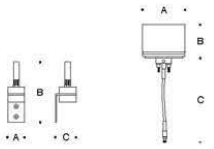
ZigBee control module IP 20 with integrated 2.4 GHz aerial and DALI interface
for use indoors and wherever a higher protection class is not required.
Control output DALI for joint switching and dimming of 5 DALI operating devices.
Output for operating devices with a switching capacity of 230 VA.
Can be used as a router or coordinator in ZigBee networks.
Voltage 100-240 V, 50/60 Hz

		A	B
70 049	ZigBee control module for flush installation	∅50	35

70 049

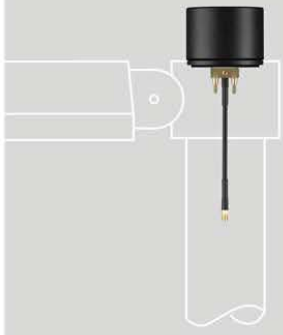
Aerials

2.4 GHz aerials with SMA jack, for two types of installation · Protection class IP 66
You can find suitable aerial cables with SMA plugs for connection to a control module in the table below.



		A	B	C
70 039	Aerial with wall mounting bracket for installation outside a luminaire	30	90	30
70 040	Aerial unit for mounting on the pole-top luminaires 99 446 · 99 491 · 99 499 · 99 556	76	60	250
70 041	Aerial unit for mounting on the pole-top luminaires 77 825 · 77 826 · 77 834 · 77 835 · 77 836 · 77 839 · 77 840 · 77 841 · 77 853 · 77 854 77 858 · 77 859 · 99 001 · 99 002 · 99 050 · 99 055 · 99 057 · 99 100 · 99 118 · 99 122 99 407 · 99 408 · 99 447 · 99 473 · 99 474 · 99 479 · 99 481 · 99 595 · 99 596 · 99 599	76	60	250

70 039

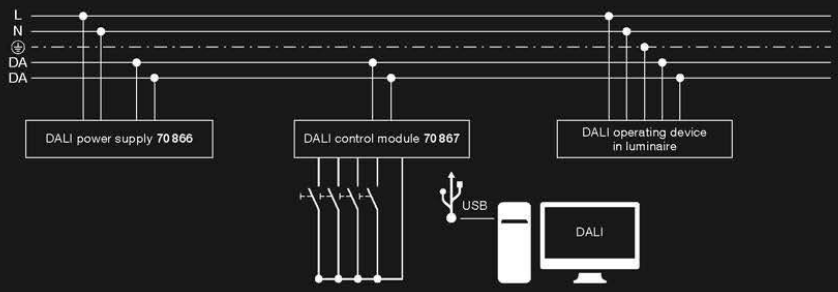


70 040 · 70 041

Aerial cable for connecting control module and aerial

70 044 Aerial cable 4 m
70 045 Aerial cable 5 m
70 046 Aerial cable 6 m

DALI was designed specially for the space-related control of building automation systems. A priority is the user-friendly control of light.
DALI systems can be easily integrated in the building management system.
DALI products are based on the standard EN 62386.
BEGA Control · DALI is compatible with DALI third-party products, which means that it is easy to integrate third-party systems. This guarantees that actuators and sensors from other manufacturers can also be integrated into the system.
64 DALI addresses can be issued on a DALI line so that 16 groups and 16 lighting scenarios are available. A DALI line needs a power supply for the DALI bus, with a permitted bus segment length of 300 metres. Each module can be individually and permanently programmed for control tasks, and is also immediately ready for use even after a power failure.



DALI · configuration software

With the free DALI software and the DALI control module, you can set up the DALI installation. Luminaires with DALI operating device can be addressed and grouped graphically. Existing lighting scenarios in the DALI operating devices of the luminaires can be assigned with the DALI software to a button. The DALI software is available as a free download from the BEGA website. Our update service guarantees full compatibility with the current generation of modules.

70 020 DALI software for DALI control module www.bega.com

BEGA Control · **DALI**
System components

DALI system components are an easy and user-friendly way to expand the range of application of BEGA Control.The DALI control module is equipped with an independent intelligence system and requires no central controller.

70 867

DALI control module for installation in switching and cavity boxes

DALI control module for installation in switching and cavity boxes, with 4 inputs for the connection of potential-free pushbuttons. Integral rotary coding switch for the configuration of existing groups or lighting scenarios on a button.
Micro USB port for configuration using DALI configuration software.
Protection class IP 20

		A	B	C
70 867	DALI control module for flush installation	44	34	13

70 866

DALI power supply for DIN rail mounting

The DALI power supply for DIN rail mounting supplies power to DALI operating devices which do not have their own integral power supply.
Integral relay contact with adjustable overshoot time for switching off the connected DALI operating devices via an external contactor.
Voltage 220-240 V, 50/60 Hz
DALI output voltage 16 V ± 5% - DALI output current 240 mA
Protection class IP 20

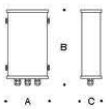
		A	B	C
70 866	DALI power supply for DIN rail mounting	40	90	65

70 104

DALI converter for LED luminaires RGB W with 1-10 V interface

DALI converter DALI/DMX to 4 x 0-10 V with power supply unit 220-240 V, 50/60 Hz
Protection class IP 65 · Safety class I

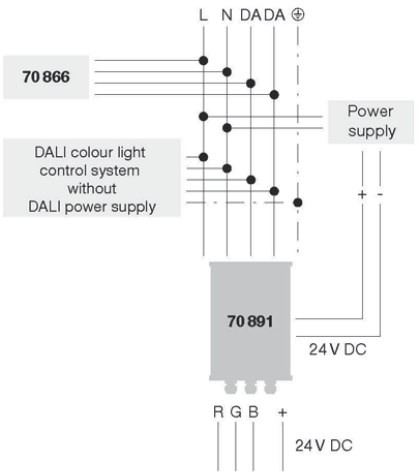
For smaller projects with a maximum of 5 luminaires, a fixed sequence can be started in the converter with 4 adjustable cycle times or one fixed adjustable lighting scenario.
Furthermore, the converter can be connected to any commercially available DALI or DMX colour light controller. Please note: The converter 70 104 is not suitable for operating RGB W swimming pool luminaires.



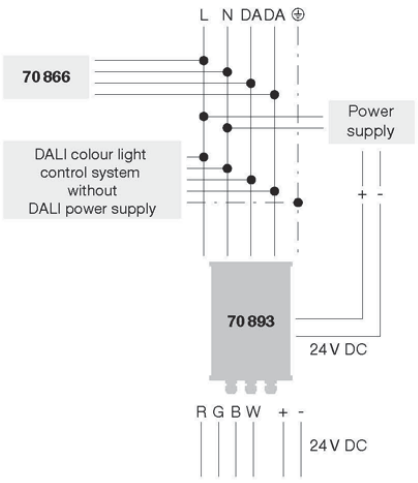
		A	B	C
70 104	DALI converter for LED luminaires RGB W with 0-10 V interface	215	310	65

BEGA Control · **DALI**
Operating devices

Using the operating devices 70 891 and 70 893 it is possible to integrate RGB in-ground luminaires or RGB W swimming pool luminaires in BEGA Control · DALI systems.



RGB in-ground luminaires



RGB W swimming pool luminaires

70 891 · 70 893

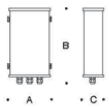
DALI operating devices

DALI operating devices for
- RGB in-ground luminaires 24 V DC
  for max. 15 luminaires 33 291 · 88 897 or 6 luminaires 33 292 · 88 898 or 2 luminaires 33 293 · 88 899
- RGB W swimming pool luminaires 24 V DC
  for max. 5 luminaires 99 815

Without power supply unit with integrated DALI module
Protection class IP 65 · Safety class I

For integration in DALI systems

Additive colour mixing can be performed using any commercially available DALI colour light control system. If there is no internal DALI in the DALI colour light control system, the DALI power supply 70 866 can be used. A separate power supply unit is required for operation. For the technical data of power supply units, see Page 538.



		A	B	C
70 891	DALI operating devices for RGB in-ground luminaires 24 V DC	215	310	65
70 893	DALI operating devices for RGB W swimming pool luminaires 24 V DC	215	310	65

Technical parameters of LED luminaires

The International Electrotechnical Commission (IEC) is currently drawing up IEC and EN standards for the assessment and comparability of technical parameters issued for LED luminaires. In this regard, the Lighting Division of the German Electrical and Electronic Manufacturers' Association (ZVEI) published its "Guide to Reliable Planning with LED Lighting" in November 2013.

The terms and explanations used in this catalogue and in our data sheets and instructions for use are based on this ZVEI publication.
The most important parameters are described below. Sometimes, we use other terms where they improve understanding. The corresponding terms used in the "Guide to Reliable Planning with LED Lighting" are then placed in brackets.

ZVEI
"Guide to Reliable Planning with LED Lighting"

Module luminous flux (nominal value)
The luminous flux (Φ) of an LED module measured in lumen (lm).
This value defines the luminous flux which is created by an LED module at an ambient temperature of 25 °C.

Luminaire luminous flux (ZVEI rated luminous flux)
The luminous flux (Φ) of a luminaire measured in lumen (lm).
This value defines the total luminous flux which is emitted by the luminaire.

Module connected wattage (nominal value)
The connected wattage (P) of an LED module measured in watts (W).
This value defines the power which is consumed by an LED module.

Luminaire connected load (ZVEI rated input power)
The connected wattage (P) of a luminaire measured in watts (W). This value defines the total power which the luminaire consumes after thermal stabilisation.
This value covers all the installed components, e. g. LED module and operating device.

Luminaire luminous efficiency
The luminaire luminous efficiency is the quotient of the emitted luminous flux and the electric power consumed by the luminaire.
The value is expressed in lumen per watt (lm/W).

Colour temperature
The term “colour temperature” is used for the light colour of white light. It is expressed in Kelvin (K).
The term warm white is used up to 3300 K, neutral white from 3300 K to 5300 K, and daylight white over 5300 K.

Colour rendering index
The colour rendering index (R_a) stands for the degree of conformity between the perceived colour of an object and its appearance under a specific light source.

Ambient temperature (ZVEI rated ambient temperature)
The ambient temperature (ta) defines the maximum temperature, measured in degrees Celsius (°C), at which a luminaire is allowed to be operated.

Service life criteria
Most LED do not fail by a certain time but their luminous flux decreases over time (degradation). The service life of LED, LED modules and luminaires is limited accordingly by the total failure of their related electronic components (e. g. power supply units) or by the luminous flux dropping below a previously fixed minimum value.

Voltage
The maximum electric rated voltage, measured in volts (V), at which a luminaire is allowed to be operated.

Module designation
Unlike conventional lamps, for which there are clearly defined connection standards, LED are a fixed part of luminaires. It is difficult therefore for non-specialists to obtain matching LED replacement modules.
As a responsible manufacturer, we have come up with a solution to this problem for our customers.
Today you will already find a lamp designation in every LED luminaire, providing exact details of the installed modules. Furthermore, our in-house production will enable us to deliver matching LED modules for many years to come.

We guarantee the availability of replacement modules even 20 years after you purchase an LED luminaire from us.

Our LED technology

The quality of our LED technology

From our decades of experience, we know the high demands on quality which our luminaires are expected to meet. This knowledge results in the continuous improvement of our products. This commitment to a high level of quality applies similarly to our LED technology. In the processing and selection of our LED components, we rigorously follow our own ideas and do not let ourselves be misled by other criteria commonly found on the market. To meet these goals, we have created all the necessary conditions, including the best production processes.

All BEGA luminaires are fitted with modules adapted exactly to them, produced on our own premises. We have control over all the materials used and therefore are not forced to enter any compromises. We alone are responsible for defining factors such as a luminaire's light output, light colour and thermal management, thus making a direct impact on the quality of our luminaires. Our LED modules are expected to reach the maximum possible service life. As a matter of conviction, we use only durable, non-wearing materials in our optical systems.

We rely totally on pure crystal glass and aluminium reflectors to distribute the light, preferring not to use optical polymer lenses because of their questionable ageing properties and thermal stability.

Service life of the modules

The ageing of electronic components, and particularly LED, depends on the temperatures to which they are exposed during operation. The higher the component temperature, the shorter the anticipated service life.

In the development of our luminaires, therefore, thermo-management represents a great challenge. In addition to using high-grade components, we have also made design-related changes which contribute to favourable temperature conditions inside the luminaires. This results in a significant extension of LED service life.

At the same time, electronic protective devices help to prevent the individual components from overheating.

We have taken a decidedly conservative approach to temperature control in our luminaires – values remain far below the maximum temperatures for LED modules.

Our LED modules are designed for a service life of at least 50,000 operating hours. At the end of this period, the module is not broken but continues to work, emitting at least 70 percent of its initial brightness.

Replacement

What happens when an LED comes to the end of its service life? Where can you obtain a replacement for this electronic component?

Unlike conventional lamps, for which there are clearly defined connection standards, LED are an integrative part of luminaires. It is difficult therefore for non-specialists to obtain matching LED replacement modules.

As a responsible manufacturer, we have come up with a solution to this problem for our customers. Today you will already find a lamp designation in every LED luminaire, providing exact details of the installed modules.

Furthermore, our in-house production will enable us to deliver matching LED modules for many years to come.

We guarantee the availability of replacement modules even 20 years after you purchase an LED luminaire from us.

Perhaps the technology and design of the components will have changed by then, but in their light colour and output, the replacements will definitely match the originally installed LED modules.

Our LED luminaires are designed to enable these components to be replaced easily on site using standard tools. Suitable precautions have already been taken to protect against electrostatic discharge and accidental polarity reversal of the electronic components. The safe and economical further use of your LED luminaires is thus assured.

Power information in this catalogue

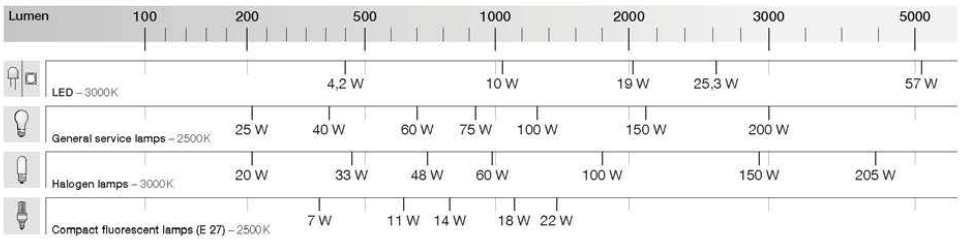
Our power information for LED luminaires quotes nominal values, i.e. pure module luminous flux values. All current technical data, e. g. luminaire connected wattage and luminaire luminous flux, can be found on the Internet in the instructions for use and data sheets issued for the luminaires at www.bega.com.
The data listed there is based on the "Guide to Reliable Planning with LED Lighting", which was issued by ZVEI in November 2013. Please refer also to our explanations on Pages 562 to 563.

Light colour of our LED modules

The colour temperatures for LED luminaires is expressed in Kelvin (K).
LED luminaires in the BEGA catalogue are supplied in the colour temperatures 3000 K or 4000 K.
Our strict quality requirements ensure that our LED modules show a maximum deviation of three MacAdam ellipses from the quoted colour coordinates.

Light output

The following diagram enables the luminous efficiency of LED to be compared with that of conventional lamps (last revised: October 2014).



Lighting technology · Basics · Planning

Good planning work is required to perform lighting applications. The BEGA catalogue contains a lot of information required for this, e.g. light distribution curves, illumination and isolux diagrams. We have explained the basic information required on this page. We have also provided luminaire lighting data and calculation programs on our website at www.bega.com. The BEGA lighting technology department can plan your lighting systems according to your requirements. Our proposals are factual and take account of design requirements.

Fig. 1

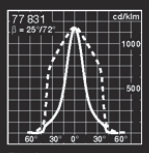


Fig. 2

Light distribution curves specify in what direction and with what intensity a luminaire emits light. The luminous intensity value in candela (cd) for a given luminaire is obtained through the multiplication of the value read off the diagram in cd/klm with the total luminous flux in kilolumen (klm) of the lamps used in the luminaire. Light distribution curves are usually presented in a polar coordinate system (Fig. 1).
With floodlights, we specify the light distribution using Cartesian coordinates (Fig. 2).
The diagrams also specify the half beam angles (continuous line, C 180 - C 0 ß = 25°) and (dotted line, C 270 - C 90 ß = 72°).
The luminous intensity values are given on the vertical axis, and the illumination angle on the horizontal axis.
In a polar representation, the diagram specifies what sections through the luminaire (C-levels) the curves refer to.

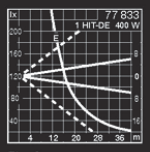


Fig. 3

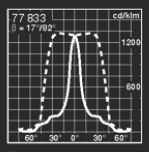


Fig. 4

Illumination diagrams for floodlights (Fig. 3) specify the dimensions of the area limited by the two half beam angles (Fig. 4) and the average illuminance of this area, depending on the distance. Using the parameters "floodlights – area – horizontal axis" it is possible to read off:

- the height (continuous line, C 0 - C 180 ß = 17°) and the width (dotted line, C 270 - C 90 ß = 82°) of the limited area on the vertical axis on the right
- the average degree of illuminance (parabola) in lx on the vertical axis on the left

Example: At a distance of 20 m, the half beam angles of the floodlight 77 833 limit an area of 6 m in height and 30 m wide. The average degree of illuminance on this area is 80 lx.
Uniform illumination can be obtained if the distances between the floodlights correspond to the width of the area limited by the half beam angles. When a façade is illuminated from the ground, only about ½ of the specified illuminance can be achieved.

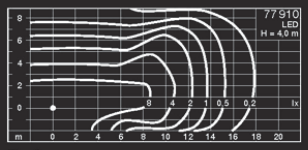


Fig. 5

Isolux diagrams (Fig. 5) specify the distribution of the illuminance on a visible surface.
Points with the same illuminance are connected to each other by means of curves (isolux lines). The luminaire is located vertically above the drawing layer at the mounting height (h) above the coordinate origin. Depending on the luminaire type, the mounting height (h) or the appropriate pole height (H) is specified.
The light point interval is approximately twice the distance at which the isolux line which belongs to half of the value of the desired minimum luminance runs.
Example: In the isolux diagram shown here, the 0.5 lx line runs laterally at a distance of 15 m from the coordinate origin. If a path is to be illuminated - Emin ≥ 1 lx -, - then a light point interval of approx. 30 m must be selected. With luminaires with rotationally symmetrical light distribution, the resulting isolux lines are concentric circles.

Our technical information

The BEGA catalogue is a working document for all light planners and designers. It provides information about the technical data of much more than 2000 luminaires. Through new developments as well as technical progress, however, changes may occur in the technical data – this is to improve the product and its function. We update the product data on our website at regular intervals. In addition, instructions for use with all technical data are enclosed with every product.

You can also find further information on the Internet at www.bega.com:

- All BEGA luminaires and accessories
- Instructions for use in PDF format
- 3-D luminaires in DXF format
- Tender specifications
- DIALux for outdoor lighting, street lighting and interior lighting
- Luminaire data for DIALux
- Luminaire data in EULUMDAT and in IES format

Our photometric statements and lighting planning are based not only on our own experience but also on the following literature:

- Illumination manual
- DIN EN 13201 – Road lighting
- DIN EN 12464-1 – Lighting of indoor work places
- DIN EN 12464-2 – Lighting of outdoor work places
- DIN EN 12193 – Sports lighting

Road lighting · DIN EN 13201

With road lighting, a general distinction is made between two evaluation criteria. With roads with traffic >30 kph, the brightness of the carriageway is assessed according to luminance in the classes ME 1–ME 6, and with traffic ≤30 kph roads closed to through traffic, but also pavements and cycle tracks are assessed according to the lighting classes S1-S6.

Lighting class	L_m [cd/m²]	U_o	UI
ME 3c	1.0	0.4	0.5
ME 4a	0.75	0.4	0.6
ME 4b	0.75	0.4	0.5
ME 5	0.5	0.35	0.4
ME 6	0.3	0.35	0.4

Lighting class	E_m [lx]	E_{min} [lx]
S2	10.0	3.0
S3	7.5	1.5
S4	5.0	1.0
S5	3.0	0.6
S6	2.0	0.6

Illumination of car parks	E_m [lx]	U_o
Traffic volume · low	5	0.25
Traffic volume · medium	10	0.25
Traffic volume · high	20	0.25

Illumination of garage parking (standard values)	E_m [lx]
Entrance/exit at day time	300
Entrance/exit at night time	75
Lanes	75
Parking spaces	75
Counters	300
Outside ramps	25

E_m – average illuminance
E_{min} – minimum illuminance
U_o – overall uniformity of illuminance and luminance
E_{min}/E_{av} – uniformity of illuminance
L_m – average carriageway luminance
UI – longitudinal uniformity of luminance

Areas for pedestrians

New urban planning concepts for pedestrian zones and residential courtyards place the mains focus on people. Public areas are intended to promote communication. The choice and arrangement of the right luminaires are important design features. Luminaires should be sufficiently glare-free and should illuminate adjacent façades. This facilitates orientation and improves safety.

Outdoors	E_m [lx]	E_{min} [lx]
Level footpaths	–	≥ 1
Footpaths in work places	5	–
Stairs	15	–
Ramps	15	–
Arcades, passageways	20	–

Indoors	E_m [lx]	U_o
Traffic areas / corridors	100	0.40
Stairs	100	0.40
Platforms	100	0.40
Subways	50	0.50

Sports lighting · DIN EN 12193

The lighting in sports venues, indoor sports halls and swimming pools should create optimum conditions for the sportspersons, spectators and referees. Depending on the level of competition, a distinction is made between 3 levels of illumination.

- Class 1: international/national and regional
- Class 2: regional and local
- Class 3: local, training, school and recreational sport

Class III	E_m [lx]	E_{min}/E_{av}
Football pitch	75	0.5
Gymnasium	200	0.7
Tennis court	200	0.6
Indoor tennis court	300	0.5
Riding arena	100	0.5
Indoor riding arena	200	0.5
Indoor swimming pool	200	0.5

Class II	E_m [lx]	E_{min}/E_{av}
Football pitch	200	0.6
Gymnasium	300	0.7
Tennis court	300	0.7
Indoor tennis court	500	0.7
Riding arena	200	0.5
Indoor riding arena	300	0.6
Indoor swimming pool	300	0.7

Electrical safety

The luminaires in this catalogue are designed and manufactured on the basis of the EN 60598/VDE 0711 regulations. The majority of the luminaires bear the corresponding test symbol on the type plate, packaging and instructions for use. The remaining luminaires have been or are being prepared for testing but the certification and approval procedure has not yet been completed. Please feel free to contact us at any time for news about the current state of the approvals.

Custom-made products are manufactured on the basis of the above mentioned standard.

All luminaires are subject to continuous production monitoring and quality inspection.

Emergency lighting luminaires

Luminaires marked AC / DC in the tables can be operated with alternating or direct current.
The suitability of these luminaires for integration in emergency lighting luminaires must be examined by BEGA.
You can find emergency lighting luminaires complying with DIN EN 605598-2-22 on Pages 136 to 137.

Safety symbols

10	The ENEC symbol (European Norms Electrical Certification) is a European test and certification symbol for luminaires and electrical components in luminaires. The number 10 with or without the VDE symbol signifies that the test/certification symbol was awarded by the VDE Institute for Testing and Certification.
F	The familiar German F marking on luminaires was no longer necessary now that the validity of the standard that preceded DIN EN 60598 (VDE 0711) had come to an end: 2009-09 or (with the end of the transitional period) on 12th April 2012.
F	The familiar German F marking on luminaires was no longer necessary now that the validity of the standard that preceded DIN EN 60598 (VDE 0711) had come to an end: 2009-09 or (with the end of the transitional period) on 12th April 2012.
D	Luminaires bearing this symbol are suitable for business premises where dust or fibrous material present a fire hazard due to their limited surface temperatures (VDE 0711 Part 2-24).
	Surface-mounted luminaires with this symbol are not suitable for direct installation on normally flammable building materials.
	Recessed luminaires with this symbol are not suitable for direct installation in normally flammable building materials.
	Luminaires bearing this symbol must not be in direct contact with thermal insulating materials.
ta = ... °C	The symbol ta = ... °C in accordance with DIN EN 60598 (VDE 0711) indicates the permissible ambient temperature at which a luminaire is allowed to be operated. Our luminaires are generally designed for an ambient temperature ta = 25 °C, i.e. for indoor use.
CE	The CE symbol is affixed at the manufacturer's responsibility and is not a safety symbol. The manufacturer uses it to document conformity with European Union directives.
CE 0780	The number alongside the CE symbol indicates that an inspection and certification body checks compliance with the guidelines.

Protection classes · Safety classes

These classes provide information on a luminaire's stability in withstanding the penetration of dust, solid bodies and water in accordance with EN 60598/VDE 0711.
The respective degree of protection IP (International Protection) is printed on the luminaire as a number system according to IEC 529.
Please see the table on this page for allocation of the degree of protection according to EN 60598.

Protection classes 1st code number: Protection against solid objects

IP1x	Protection against solid objects ≥ 50 mm
IP2x	Protection against solid objects ≥ 12 mm
IP3x	Protection against solid objects ≥ 2.5 mm
IP4x	Protection against solid objects ≥ 1 mm
IP5x	Dust protected
IP6x	Dust-tight

Protection classes 2nd code number: Protection against water

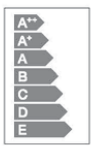
IPx1	Protected against vertically dripping water
IPx2	Protected against drops of water falling at angles up to 15°
IPx3	Protected against spray water falling at angles up to 60°
IPx4	Protected against splashing water
IPx5	Protected against water jets
IPx6	Protected against strong water jets
IPx7	Protected against occasional submersion
IPx8...m	Protected against complete, continuous submersion to the specified depth in metres

Safety classes

Safety class I designates luminaires with an earth connection.
Under fault conditions, the power supply is cut by overload/residual current protective devices.

Safety class II designates luminaires that have not only functional insulation but also additional protective insulation. Under fault conditions, no dangerous voltage can reach metal parts which can be touched. Many safety class I luminaires are also available in safety class II. Please contact us.

Safety class III designates luminaires operating on extra-low safety voltage.
They can be connected only to safety transformers in accordance with EN 61558/VDE 0570, EN 61347/VDE 712 or VDE 0100 Part 410. The transformer must be approved for this type of installation.



Energy efficiency of the lamps

Information (in accordance with EU regulation 874/2012) about the energy efficiency of the lamps which can be used in our luminaires is provided online at to www.bega.com.

Our deliveries are effected in accordance with the "General Conditions of Supply and Delivery for Products and Services of the Electrical Industry" as issued and amended by the ZVEI association of German Electrical and Electronic Manufacturers and the supplementary clause "extended retention of title" only. In addition, our terms and conditions of sale and delivery hereinafter set forth shall apply.

Quotations – All quotations are subject to change without notice.

Delivery – Deliveries shall be effected ex works for the purchaser's account and at his risk. Risk of breakage shall be borne by the purchaser. If requested, risk of breakage can be assumed by us to a delivery address in Europe and charged separately at 1 % of the goods value. Overseas premium on request.

Time of delivery – This shall be stated to the best of our ability and shall be deemed binding only when explicitly confirmed by us. Differing from the "General Conditions of Supply and Delivery for Products and Services of the Electrical Industry" (ZVEI), entitlement to damages resulting from delivery delays is excluded if these are only due to light negligence on our part. In case of violation of material contractual commitments the compensation is limited to the foreseeable contract typical damage.

Prices – As per our current price list in Euro. Charges for legalization and courier service shall be made at actual cost. Outer packing shall be charged at cost and cannot be returned. If a certain net order value is reached, we can arrange deliveries on the following terms: freight paid to German border or FOB German seaport. In this case, we follow the relevant rules of the INCOTERMS, latest edition. On delivery, we always charge the current prices, even if other prices were quoted. Except for routine deliveries by our contract forwarders, the outer packing shall be invoiced.

Payment – If not otherwise arranged, payment is to be made by irrevocable and confirmed documentary letter of credit, to be established through a first class foreign bank with Commerzbank AG, Iserlohn. All banking charges outside Germany including advising and negotiating commission and reimbursing bank fees for a/c of applicant. If we agree to open an account, all invoices are due without deduction within 30 days from date of invoice. Payment is to be considered effected as soon as we have the invoiced amount at our disposal. If payment is not effected within the period of 30 days after date of invoice, the purchaser comes into default without prior reminder.

Proprietary rights/reservation of title – Additionally to the "General Conditions of Supply and Delivery for Products and Services of the Electrical Industry" as issued by the ZVEI, the following shall apply: The purchaser is entitled to sell the goods delivered by us in customary business transactions, provided no ban of assignment of rights has been agreed between himself and his customer. The purchaser assigns to us as security the entitlement to the purchase price which arises from the sale. He is, however, empowered to collect debts, which he has assigned to us provided this empowerment is not revoked. The empowerment can be revoked if the purchaser does not fulfil or ceases to fulfil his contractual obligations. We are entitled to give notification of the occurred assignment of rights if the direct debit mandate has been revoked. The purchaser must promptly provide the documentation which is necessary for the notification of the assignment of rights and for collection of monies. The provisions of III. paragraph 1 sentence 2 of the "General Conditions of Supply and Delivery for Products and Services of the Electrical Industry" as issued by the ZVEI shall apply as appropriate for the case of greater than 20 % excess security.

Design – We reserve the right to make alterations in design and construction which are necessitated by technical progress and customary for the lighting industry, provided they are not individually unreasonable for the purchaser.

Warranty – Supplementary to regulations in Article VIII and XI. of the "General Conditions of Supply and Delivery for Products and Services of the Electrical Industry" (ZVEI), the following stipulations shall be effective: Additional to article VIII. 3 complaints referring to delivered quantities and visual damages have to be effected within 7 days after receipt of delivery.
Additional to article VIII.9 revert claims from purchasers shall be applied as follows: The purchaser must, in case his customer or his customers' customer claims his justified right for subsequent fulfilment, give us the opportunity to carry out the subsequent fulfilment ourselves within a reasonable period, before obtaining replacement elsewhere. The purchaser shall impose this obligation on his customer accordingly. If the purchaser violates this obligation, we reserve the right to deduct the expenses for subsequent fulfilment to the amount resulting from our own subsequent fulfilment. § 443 BGB (German Civil Code) stays unaffected. Furthermore, reimbursement of expenses arising from subsequent fulfilment and passed on by the purchasers' customer to the purchaser is ruled out if the purchaser refrained from legitimately refusing this kind of subsequent fulfilment or both kinds of subsequent fulfilment. Otherwise, article XI. of the "General Conditions of Supply and Delivery for Products and Services of the Electrical Industry" (ZVEI) applies for compensation claims.

Liability for services – We accept no liability for consequential damages due to defective light planning which we have prepared as a service free of charge during preliminary stages of contract negotiations. An explicit written arrangement shall be needed if such plans are to become a requirement or constituent of a delivery or service from us.

Application as determined – According to the Law on the Safety of Appliances, luminaires are technical products and must be used only in accordance with their intended purpose. The use of luminaires and accessories in a manner other than in accordance with their intended purpose as well as unauthorised alteration of our luminaires without our express written consent shall release us from any obligation in the event of a claim.

Changes to our products – No changes or modifications may be made to our products without BEGA's consent. Any such change or modification shall infringe our trademark rights. The infringing party shall be liable for all damages incurred by the change. Furthermore, all warranty claims against BEGA shall in such case lapse.

Returns – Returns not sent back within the warranty frame work according to the right of withdrawal shall only be credited if our prior consent is available. Originally packed and undamaged goods shall be credited at 80 % of the price invoiced if they correspond with the current sales programme. Necessary re-conditioning and packing cost as well as transport costs incurred by us shall be deducted in addition and without special notification. Custom-made and special electrical productions cannot be returned.

Disposal – Non-private purchasers undertake to ensure that the products supplied are disposed of in accordance with the provisions of the national Directive on Waste Electrical and Electronic Equipment. Where products are resold, the purchaser transfers this obligation to its contractual partner.

Exports – The delivery of our products and the submission of quotations thereon to countries outside the European Union – also through third parties – shall require our prior consent.

Other – Place of performance and legal venue is Menden.
All contractual relations shall be governed by German law.

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