



reddot design award
winner 2015

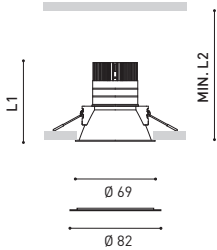


GERMAN
DESIGN
AWARD
NOMINEE
2016



Patented Model

						W	K	mA	UGR	Lm	%Eff*	L1	L2
SWAP S	A212-11-11-	W	N	R	G	8W	3000K	200	17,3	680	85%	76	86
	A212-11-12-	W	N	R	G	8W	4000K	200	17,5	725	85%	76	86
	A212-11-21-	W	N	R	G	8W	3000K	200	17,3	680	85%	76	86
	A212-11-22-	W	N	R	G	8W	4000K	200	17,5	725	85%	76	86
	A212-12-11-	W	N	R	G	11W	3000K	300	18,7	1000	85%	103	113
	A212-12-12-	W	N	R	G	11W	4000K	300	18,8	1050	85%	103	113
	A212-12-21-	W	N	R	G	11W	3000K	300	18,7	1000	85%	103	113
	A212-12-22-	W	N	R	G	11W	4000K	300	18,8	1050	85%	103	113



50/60 Hz



IP20

CRI>80



PHASE CUT**



FAST | CONNEX



INCL | ELEC



INCL | ACC.



Ø62



43°



Swap. S

N ■ | *Eff:-5%

** OTHER DIM PLEASE CONSULT

COLOUR | W □ | N ■ | R ■ | G ■

MATERIAL



0,20 Kg (8W)



0,24 Kg (11W)

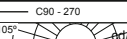


0,0009 m³ 94x88x119 mm



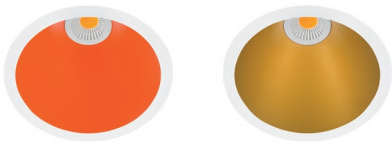
*Aro para cubrir agujeros desde Ø66 hasta Ø126 mm. Incluido
*Ring covers holes from Ø66 up to Ø126 mm. Included
*Anneau pour couvrir des trous de Ø66 jusqu'à Ø126mm. Inclus

LED 43° | 3000 K

C90 - 270		8 W				11 W					
		CIE		Emed		Emax		Emed		Emax	
η L: 0.85 88-94-98-100-85		DIN A60		(lux)		(lux)		(lux)		(lux)	
UTE 0.85 A + 0.00 T											
CIBSE BZ 1											
h (m)	d (m)	h (m)	d (m)	h (m)	d (m)	h (m)	d (m)	h (m)	d (m)	h (m)	d (m)
1	0.78	412	1015	1	0.78	605	1492				
2	1.56	103	254	2	1.56	151	373				
3	2.34	46	113	3	2.34	67	166				
4	3.12	26	63	4	3.12	38	93				

LED 43° | 4000 K

C90 - 270		8 W				11 W			
CIE η L: 0.85 88-94-98-100-85									
DIN A60									
UTE 0.85 A + 0.00 T									
CIBSE BZ 1									
		h (m)	d (m)	E _{med} (lux)	E _{max} (lux)	h (m)	d (m)	E _{med} (lux)	E _{max} (lux)
		1	0.78	439	1082	1	0.78	635	1567
		2	1.56	110	270	2	1.56	159	392
		3	2.34	49	120	3	2.34	71	174
		4	3.12	27	68	4	3.12	40	98



Swap COLOUR	W	G	R	N
ring COLOUR	W	W	W	N

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT

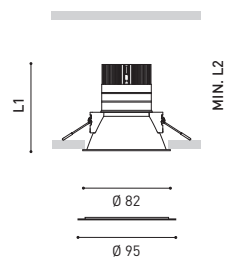


reddot design award
winner 2015



Patented Model

							W	K	mA	UGR	Lm	%Eff*	L1	L2
SWAP M	A212-21-11-	W	N	R	G		8W	3000K	200	13,2	680	85%	81	91
	A212-21-12-	W	N	R	G		8W	4000K	200	13,4	725	85%	81	91
	A212-21-21-	W	N	R	G		8W	3000K	200	13,2	680	85%	81	91
	A212-21-22-	W	N	R	G		8W	4000K	200	13,4	725	85%	81	91
	A212-22-11-	W	N	R	G		11W	3000K	300	14,5	1000	85%	108	118
	A212-22-12-	W	N	R	G		11W	4000K	300	14,7	1050	85%	108	118
	A212-22-21-	W	N	R	G		11W	3000K	300	14,5	1000	85%	108	118
	A212-22-22-	W	N	R	G		11W	4000K	300	14,7	1050	85%	108	118



Swap® (M)

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT

COLOUR | W □ | N ■ | R ■ | G ■ | MATERIAL | AL | PC | PC | Kg 0,21 Kg (8W) Kg 0,25 Kg (11W) m³ 0,0012 m³ 100x101x123 mm



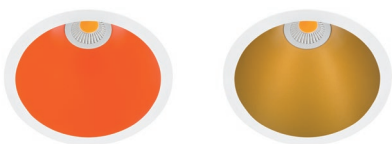
*Aro para cubrir agujeros desde Ø66 hasta Ø126 mm. Incluido
*Ring covers holes from Ø66 up to Ø126 mm. Included
*Anneau pour couvrir des trous de Ø66 jusqu'à Ø126mm. Inclus

LED 43° | 3000 K

C90 - 270		8 W				11 W			
h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)
1	0.83	368	935	1	0.83	541	1375	1	0.83
2	1.87	92	234	2	1.87	135	344	2	1.87
3	2.50	41	104	3	2.50	60	153	3	2.50
4	3.33	23	58	4	3.33	34	86	4	3.33

LED 43° | 4000 K

C90 - 270		8 W				11 W			
h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)
1	0.83	392	997	1	0.83	568	1444	1	0.83
2	1.87	98	249	2	1.87	142	361	2	1.87
3	2.50	44	111	3	2.50	63	160	3	2.50
4	3.33	25	62	4	3.33	36	90	4	3.33



Swap
COLOUR | W | G | R | N |
ring
COLOUR | W | W | W | N |

N ■ | *Eff: -5% | ** OTHER DIM PLEASE CONSULT



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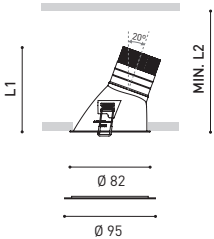


GERMAN
DESIGN
AWARD
NOMINEE
2016



Patented Model

						W	K	mA	Lm	%Eff*	L1	L2
SWAP M Asymmetric	A216-21-11-	W	N	R	G	8W	3000K	200	680	91%	85	95
	A216-21-12-	W	N	R	G	8W	4000K	200	725	91%	85	95
	A216-21-21-	W	N	R	G	8W	3000K	200	680	91%	85	95
	A216-21-22-	W	N	R	G	8W	4000K	200	725	91%	85	95
	A216-22-11-	W	N	R	G	11W	3000K	300	1000	91%	110	120
	A216-22-12-	W	N	R	G	11W	4000K	300	1050	91%	110	120
	A216-22-21-	W	N	R	G	11W	3000K	300	1000	91%	110	120
	A216-22-22-	W	N	R	G	11W	4000K	300	1050	91%	110	120



CRI>80

Swap. M
Asymmetric



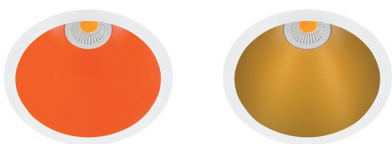
*Aro para cubrir agujeros desde Ø66 hasta Ø126 mm. Incluido
*Ring covers holes from Ø66 up to Ø126 mm. Included
*Anneau pour couvrir des trous de Ø66 jusqu'à Ø126mm. Inclus

LED 45° | 3000 K

	8 W				11 W			
	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
1	1.14	346	562		1	1.14	509	826
2	2.28	86	140		2	2.28	127	206
3	3.42	38	62		3	3.42	56	91
4	4.57	21	35		4	4.57	31	51

LED 45° | 4000 K

	8 W				11 W			
	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
1	1.14	369	599		1	1.14	535	867
2	2.28	92	149		2	2.28	133	217
3	3.42	41	66		3	3.42	59	96
4	4.57	23	37		4	4.57	33	54



Swap COLOUR	W	G	R	N
ring COLOUR	W	W	W	N

N ■ | *Eff: -5% | ** OTHER DIM PLEASE CONSULT

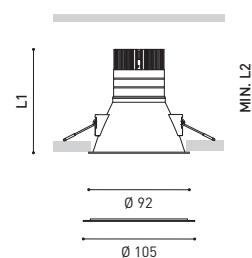


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winner 2015



Patented Model

							W	K	mA	UGR	Lm	%Eff*	L1	L2
SWAP L	A212-31-11-	W	N	R	G		8W	3000K	200	13,5	680	85%	96	106
	A212-31-12-	W	N	R	G		8W	4000K	200	13,7	725	85%	96	106
	A212-31-21-	W	N	R	G		8W	3000K	200	13,5	680	85%	96	106
	A212-31-22-	W	N	R	G		8W	4000K	200	13,7	725	85%	96	106
	A212-32-11-	W	N	R	G		11W	3000K	300	15	1000	85%	123	133
	A212-32-12-	W	N	R	G		11W	4000K	300	15,2	1050	85%	123	133
	A212-32-21-	W	N	R	G		11W	3000K	300	15	1000	85%	123	133
	A212-32-22-	W	N	R	G		11W	4000K	300	15,2	1050	85%	123	133



50/60 Hz



IP20

C.R.I. > 80



PHASE CUT**



FAST | CONNEC



INCL | ELEC



INCL | ACC.



Ø85



43°



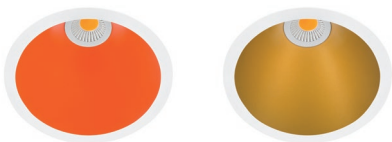
Swap. (L)

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT

COLOUR | W | N | R | G | MATERIAL | AL | PC | PC | 0,23 Kg (8W) | 0,27 Kg (11W) | 0,0015 m³ 102x109x135 mm



*Aro para cubrir agujeros desde Ø66 hasta Ø126 mm. Incluido
*Ring covers holes from Ø66 up to Ø126 mm. Included
*Anneau pour couvrir des trous de Ø66 jusqu'à Ø126mm. Inclus



Swap
COLOUR | W | G | R | N |
ring
COLOUR | W | W | W | N |

LED 43° | 3000 K

C90 - 270				8 W				11 W			
h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
1	0.81	381	952	1	0.81	588	1476	1	0.81	588	1476
2	1.62	95	238	2	1.62	147	368	2	1.62	147	368
3	2.42	42	106	3	2.42	65	163	3	2.42	65	163
4	3.23	24	60	4	3.23	37	92	4	3.23	37	92

LED 43° | 4000 K

C90 - 270				8 W				11 W			
h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
1	0.81	406	1015	1	0.81	617	1544	1	0.81	617	1544
2	1.62	101	254	2	1.62	154	386	2	1.62	154	386
3	2.42	45	113	3	2.42	69	172	3	2.42	69	172
4	3.23	25	63	4	3.23	39	96	4	3.23	39	96

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT



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winner 2015

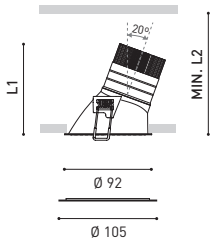


GERMAN
DESIGN
AWARD
NOMINEE
2016



Patented Model

						W	K	mA	Lm	%Eff*	L1	L2
SWAP L Asymmetric	A216-31-11-	W	N	R	G	8W	3000K	200	680	91%	98	108
	A216-31-12-	W	N	R	G	8W	4000K	200	725	91%	98	108
	A216-31-21-	W	N	R	G	8W	3000K	200	680	91%	98	108
	A216-31-22-	W	N	R	G	8W	4000K	200	725	91%	98	108
	A216-32-11-	W	N	R	G	11W	3000K	300	1000	91%	123	133
	A216-32-12-	W	N	R	G	11W	4000K	300	1050	91%	123	133
	A216-32-21-	W	N	R	G	11W	3000K	300	1000	91%	123	133
	A216-32-22-	W	N	R	G	11W	4000K	300	1050	91%	123	133



CRI>80

Swap L
Asymmetric

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT

COLOUR | W □ | N ■ | R ■ | G ■ | MATERIAL | AL | PC | PC | Kg 0,24 Kg (8W) Kg 0,28 Kg (11W) m³ 0,0016 m³ 103x109x148 mm



*Aro para cubrir agujeros desde Ø66 hasta Ø126 mm. Incluido

*Ring covers holes from Ø66 up to Ø126 mm. Included

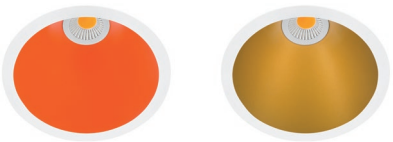
*Anneau pour couvrir des trous de Ø66 jusqu'à Ø126mm. Inclus

LED 45° | 3000 K

	8 W				11 W			
	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
1	1.11	360	580		1	1.11	530	853
2	2.22	90	145		2	2.22	132	213
3	3.33	40	64		3	3.33	58	94
4	4.44	22	36		4	4.44	33	53

LED 45° | 4000 K

	8 W				11 W			
	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
1	1.11	384	618		1	1.11	557	896
2	2.22	96	154		2	2.22	139	224
3	3.33	42	68		3	3.33	61	99
4	4.44	24	38		4	4.44	34	56



Swap COLOUR	W	G	R	N
ring COLOUR	W	W	W	N

N ■ | *Eff: -5% | ** OTHER DIM PLEASE CONSULT

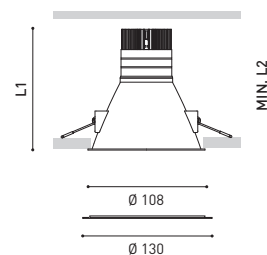


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winner 2015



Patented Model

							W	K	mA	UGR	Lm	%Eff*	L1	L2
SWAP XL	A212-41-11-	W	N	R	G		8W	3000K	200	12,2	680	87%	110	120
	A212-41-12-	W	N	R	G		8W	4000K	200	12,5	725	87%	110	120
	A212-41-21-	W	N	R	G		8W	3000K	200	12,2	680	87%	110	120
	A212-41-22-	W	N	R	G		8W	4000K	200	12,5	725	87%	110	120
	A212-42-11-	W	N	R	G		11W	3000K	300	13,6	1000	87%	137	147
	A212-42-12-	W	N	R	G		11W	4000K	300	13,7	1050	87%	137	147
	A212-42-21-	W	N	R	G		11W	3000K	300	13,6	1000	87%	137	147
	A212-42-22-	W	N	R	G		11W	4000K	300	13,7	1050	87%	137	147



50/60 Hz



IP20

CRI>80



PHASE CUT**



FAST | CONNEX



INCL | ELEC



INCL | ACC.



Ø101



43°



Swap. XL



*Aro para cubrir agujeros desde Ø66 hasta Ø126 mm. Incluido

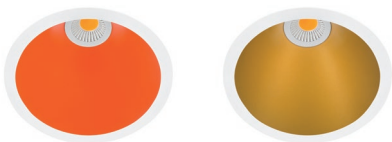
*Ring covers holes from Ø66 up to Ø126 mm. Included

*Anneau pour couvrir des trous de Ø66 jusqu'à Ø126mm. Inclus

LED 43° | 3000 K

C90 - 270		8 W				11 W			
	ad/Km	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
105°		1	0.81	665	1028	1	0.81	964	1512
90°		2	1.62	163	257	2	1.62	241	378
75°		3	2.42	72	114	3	2.42	107	168
60°		4	3.23	40	64	4	3.23	60	94
45°									
30°									

CIE
η L: 0.85
89-95-99-100-85
DIN
A60
UTE
0.85 A + 0.00 T
CIBSE
BZ 1
η = 85%



Swap COLOUR	W	G	R	N
ring COLOUR	W	W	W	N

LED 43° | 4000 K

C90 - 270		8 W				11 W			
	ad/Km	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
105°		1	0.81	698	1096	1	0.81	1012	1588
90°		2	1.62	174	274	2	1.62	253	397
75°		3	2.42	77	121	3	2.42	112	176
60°		4	3.23	43	68	4	3.23	63	99
45°									
30°									

CIE
η L: 0.85
89-95-99-100-85
DIN
A60
UTE
0.85 A + 0.00 T
CIBSE
BZ 1
η = 85%

N ■ | *Eff: -5% | ** OTHER DIM PLEASE CONSULT



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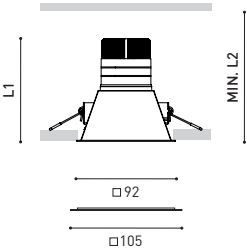


GERMAN
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NOMINEE
2016



Patented Model

							W	K	mA	UGR	Lm	%Eff*	L1	L2
SWAP Square	A254-31-11-	W	N	R	G		8W	3000K	200	12	680	91%	96	106
	A254-31-12-	W	N	R	G		8W	4000K	200	12,2	725	91%	96	106
	A254-31-21-	W	N	R	G		8W	3000K	200	12	680	91%	96	106
	A254-31-22-	W	N	R	G		8W	4000K	200	12,2	725	91%	96	106
	A254-32-11-	W	N	R	G		11W	3000K	300	13,4	1000	91%	123	133
	A254-32-12-	W	N	R	G		11W	4000K	300	13,5	1050	91%	123	133
	A254-32-21-	W	N	R	G		11W	3000K	300	13,4	1000	91%	123	133
	A254-32-22-	W	N	R	G		11W	4000K	300	13,5	1050	91%	123	133



LED

220V
240V 50/60 Hz

CE

IP20

CRI>80

PHASE CUT**

FAST | CONNEC

INCL | ELEC

INCL | ACC.

>39000

85 X 85

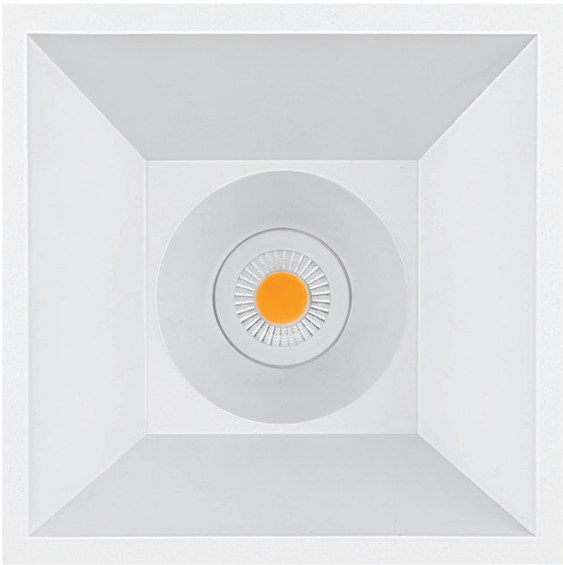
50°

20

Swap.
Square

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT | ⌚ L70B50 (7K)

COLOUR | W □ | N ■ | R ■ | G ■ | MATERIAL | AL | PC | PC | 0.245 Kg (8W) 0.275 Kg (11W) 0.00152 m³ 104x108x135 mm



LED 50° | 3000 K

	8 W				11 W			
	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
1	0.94	547	864		1	0.94	805	1271
2	1.88	136	216		2	1.88	201	317
3	2.82	60	96		3	2.82	89	141
4	3.76	34	54		4	3.76	50	79

*Para cubrir agujeros desde 85x85 hasta 101x101 mm. Incluido
*Covers holes from 85x85 up to 101x101 mm. Included
*Pour couvrir des trous de 85x85 jusqu'à 101x101 mm. Inclus

LED 50° | 4000 K

	8 W				11 W			
	h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
1	0.94	584	921		0.94	845	1334	
2	1.88	146	230		1.88	211	333	
3	2.82	64	102		2.82	94	148	
4	3.76	36	57		3.76	52	83	

Swap COLOUR	W	G	R	N
bezel COLOUR	W	W	W	N

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT | ⌚ L70B50 (7K)



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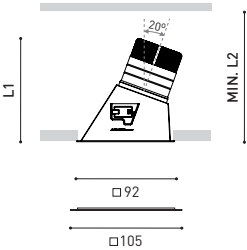


GERMAN
DESIGN
AWARD
NOMINEE
2016



Patented Model

						W	K	mA	Lm	%Eff*	L1	L2
SWAP Square Asymmetric	A255-31-11-	W	N	R	G	8W	3000K	200	680	93%	98	108
	A255-31-12-	W	N	R	G	8W	4000K	200	725	93%	98	108
	A255-31-21-	W	N	R	G	8W	3000K	200	680	93%	98	108
	A255-31-22-	W	N	R	G	8W	4000K	200	725	93%	98	108
	A255-32-11-	W	N	R	G	11W	3000K	300	1000	93%	123	133
	A255-32-12-	W	N	R	G	11W	4000K	300	1050	93%	123	133
	A255-32-21-	W	N	R	G	11W	3000K	300	1000	93%	123	133
	A255-32-22-	W	N	R	G	11W	4000K	300	1050	93%	123	133



LED

220V
240V

50/60 Hz

CE

IP20

CRI>80

PHASE CUT**

FAST | CONNEC

INCL | ELEC

INCL | ACC.

>39000

85 X 85

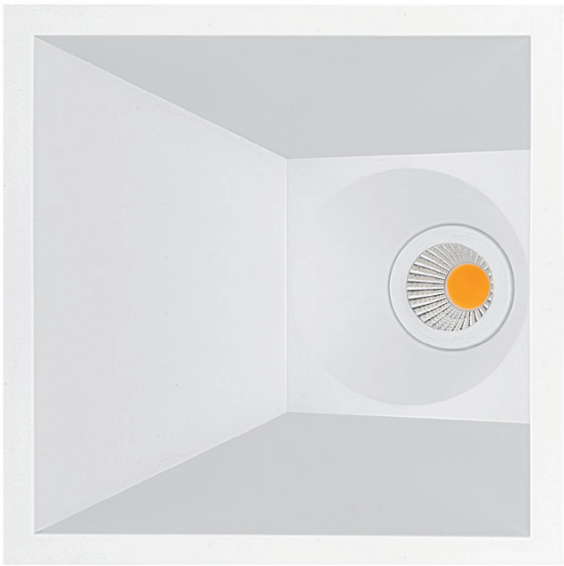
50°

20

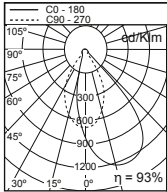
Swap.
Square Asymmetric

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT | ⌚ L70B50 (7K)

COLOUR | W □ | N ■ | R ■ | G ■ | MATERIAL | AL | PC | PC | Kg 0.240 Kg (8W) Kg 0.270 Kg (11W) m³ 0.00165 m³ 103x108x148 mm



LED 50° | 3000 K

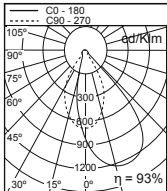
					8 W				11 W			
					h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
					1	1.29	315	539	1	1.29	464	793
					2	2.57	78	134	2	2.57	116	198
					3	3.86	35	59	3	3.86	51	88
					4	5.14	19	33	4	5.14	29	49

*Para cubrir agujeros desde 85x85 hasta 101x101 mm. Incluido

*Covers holes from 85x85 up to 101x101 mm. Included

*Pour couvrir des trous de 85x85 jusqu'à 101x101 mm. Inclus

LED 50° | 4000 K

					8 W				11 W			
					h (m)	d (m)	Emed (lux)	Emax (lux)	h (m)	d (m)	Emed (lux)	Emax (lux)
					1	1.29	336	575	1	1.29	487	833
					2	2.57	84	143	2	2.57	121	208
					3	3.86	37	63	3	3.86	54	92
					4	5.14	21	35	4	5.14	30	52

Swap												
COLOUR	W	N	R	G	W	N	R	G	W	N	R	G
bezel	W	N	R	G	W	N	R	G	W	N	R	G
COLOUR	W	N	R	G	W	N	R	G	W	N	R	G

N ■ | *Eff:-5% | ** OTHER DIM PLEASE CONSULT | ⌚ L70B50 (7K)