

Last information update: April 2025

Product configuration: R278.01

R278.01: body Ø 92 mm - wideflood optic - 19.7W 2519.2lm - 3000K - White



Product code

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Technical description

Adjustable spotlight with adapter for installation on a mains voltage track. Luminaire made of die-cast aluminium. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Built-in dimmable DALI ballast. Luminaire complete with C.O.B. technology LED unit in warm white colour 3000K. Anti-scratch reflector made of P.V.D (physical vapour deposition) aluminium that can provide optimum performance in terms of light efficiency. Wideflood optic. Possibility of installing a flat accessory, like a glass cover or an elliptical distribution refractor. Interchangeable reflectors that can be ordered as an accessory.

Installation

On an electrified track or special base

Colour

White (01)

Weight (Kg)

0.78

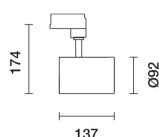
Mounting

three circuit track

Wiring

Product complete with DALI components.

Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	2519	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	19.7	Lamp code:	LED
lm source:	2680	Number of lamps for optical assembly:	1
W source:	17	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	127.9	Number of optical assemblies:	1
lm in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	5 A / 50 µs
Light Output Ratio (L.O.R.) [%]:	94	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 31 luminaires B16A: 50 luminaires C10A: 52 luminaires C16A: 85 luminaires
Beam angle [°]:	56°	Minimum dimming %:	1
CRI (minimum):	80	Overvoltage protection:	4kV Common mode & 2kV Differential mode
Colour temperature [K]:	3000	Control:	DALI-2
MacAdam Step:	2		

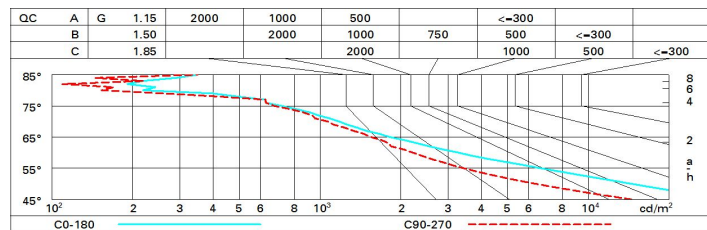
Polar

Imax=3296 cd		C0-180		CIE		Lux	
90°	180°	90°	0°	nL 0.94	98-100-100-100-94	h	d1 d2 Em Emax
				UGR 18.3-16.6	DIN A.61	2	2.1 2.1 662 824
				UTE 0.94A+0.00T	F*1=990	4	4.3 4.3 165 206
				F*1+F*2=999	F*1+F*2+F*3=1000	6	6.4 6.4 74 92
				CIBSE LG3 L<3000 cd/m² at 65°	UGR<19 L<3000 cd/mq @65°	8	8.5 8.5 41 51
α=56°							

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	84	80	76	74	79	76	75	72	77
1.0	88	84	81	79	83	80	80	77	82
1.5	93	89	87	85	88	86	85	83	88
2.0	95	93	91	90	92	90	89	87	92
2.5	97	96	94	93	94	93	92	89	95
3.0	99	97	96	95	96	95	94	91	97
4.0	100	99	98	97	97	97	95	93	99
5.0	100	100	99	99	98	98	96	94	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2680 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise				
2H	2H	18.9	19.5	19.2	19.7	20.0	17.2	17.8	17.4	18.0	18.2
	3H	18.8	19.3	19.1	19.6	19.9	17.0	17.6	17.3	17.8	18.1
	4H	18.7	19.2	19.0	19.5	19.8	17.0	17.5	17.3	17.7	18.0
	6H	18.6	19.1	19.0	19.4	19.7	16.9	17.3	17.2	17.7	18.0
	8H	18.6	19.0	19.0	19.4	19.7	16.8	17.3	17.2	17.6	18.0
	12H	18.6	19.0	18.9	19.3	19.7	16.8	17.2	17.2	17.6	17.9
4H	2H	18.7	19.2	19.0	19.5	19.8	17.0	17.5	17.3	17.7	18.0
	3H	18.6	19.0	18.9	19.3	19.7	16.8	17.2	17.2	17.6	17.9
	4H	18.5	18.8	18.9	19.2	19.6	16.7	17.1	17.1	17.5	17.9
	6H	18.4	18.7	18.8	19.1	19.5	16.6	17.0	17.1	17.4	17.8
	8H	18.3	18.6	18.8	19.0	19.5	16.6	16.9	17.0	17.3	17.7
	12H	18.3	18.6	18.7	19.0	19.4	16.5	16.8	17.0	17.2	17.7
8H	4H	18.3	18.6	18.8	19.0	19.5	16.6	16.9	17.0	17.3	17.7
	6H	18.2	18.5	18.7	18.9	19.4	16.5	16.7	17.0	17.2	17.7
	8H	18.2	18.4	18.7	18.9	19.4	16.4	16.7	16.9	17.1	17.6
	12H	18.1	18.3	18.6	18.8	19.3	16.4	16.6	16.9	17.1	17.6
12H	4H	18.3	18.6	18.7	19.0	19.4	16.5	16.8	17.0	17.2	17.7
	6H	18.2	18.4	18.7	18.9	19.4	16.4	16.7	16.9	17.1	17.6
	8H	18.1	18.3	18.6	18.8	19.3	16.4	16.6	16.9	17.1	17.6
Variations with the observer position at spacing:											
S =	1.0H	5.6 / -12.7					5.8 / -14.2				
	1.5H	8.4 / -17.1					8.6 / -16.7				
	2.0H	10.4 / -19.3					10.6 / -18.3				