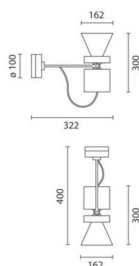


Last information update: March 2025

Product configuration: RR90

RR90: Surface-mounted - Large body spotlight - warm white - DALI - WIDE-FLOOD

**Product code**

RR90: Surface-mounted - Large body spotlight - warm white - DALI - WIDE-FLOOD

Technical description

Wall or ceiling-mounted luminaire. High yield LED lamp with high color rendering index. Adjustable spotlight made of die-cast aluminium and thermoplastic material. Die-cast aluminium mounting base. Swivel joints allow the light emission of the spotlight to be set in direct or indirect mode. Fitted with mechanical aiming locks, so rotation and tilting movements can be locked in position to ensure efficient light aiming even after the original installation or during maintenance. The optical assembly is equipped with an accessory holding ring designed to contain a flat accessory. Another external component can also be applied - asymmetric screen / directional flaps; the external accessories can rotate freely about the spotlight longitudinal axis. DALI dimmable power supply unit integrated in the spotlight body.

Installation

Base for wall or ceiling-mounting - fixed to installation surface with screws and screw anchors (not included).

Colour

White (01) | Grey (15)

Weight (Kg)

2.24

Mounting

wall surface|ceiling surface

Wiring

Integrated DALI dimmer power supply unit. Terminals for connecting to mains network available on the surface-mounted base.

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	4043	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	43.4	Lamp code:	LED
Im source:	5250	Number of lamps for optical assembly:	1
W source:	39	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	93.1	Number of optical assemblies:	1
Im 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.) [%]:	77	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 [°]:	44°	Minimum dimming %:	1
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 2kV Differential mode
Colour temperature [K]:	3000	Control:	DALI-2
MacAdam Step:	2		

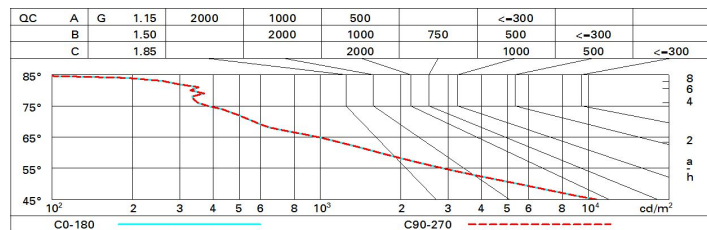
Polar

	CIE nL 0.77 98-100-100-100-77 UGR 11.7-11.7 DIN A.61 UTE 0.77A+0.00T F*1=983 F*1+F*2=999 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<16 L<1500 cd/mq @65°	Lux			
		h	d	Em	E _{max}
		2	1.6	1615	2003
		4	3.2	404	501
		6	4.8	179	223
$\alpha = 44^\circ$		8	6.4	101	125

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	61	65	62	62	59	77
1.0	72	69	66	65	68	66	66	63	82
1.5	76	73	71	70	72	71	70	68	88
2.0	78	76	75	74	75	74	73	71	92
2.5	80	78	77	76	77	76	75	73	95
3.0	81	80	79	78	79	78	77	75	97
4.0	82	81	80	80	80	79	78	76	99
5.0	82	82	81	81	80	80	79	77	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 5250 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		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
2H	2H	12.2	12.8	12.5	13.1	13.3	12.2	12.8	12.5	13.1	13.3
	3H	12.1	12.7	12.4	12.9	13.2	12.1	12.7	12.4	12.9	13.2
	4H	12.1	12.6	12.4	12.8	13.1	12.1	12.6	12.4	12.8	13.1
	6H	12.0	12.4	12.3	12.7	13.1	12.0	12.4	12.3	12.8	13.1
	8H	11.9	12.4	12.3	12.7	13.0	11.9	12.4	12.3	12.7	13.1
	12H	11.9	12.3	12.3	12.7	13.0	11.9	12.3	12.3	12.7	13.0
4H	2H	12.1	12.6	12.4	12.8	13.1	12.1	12.6	12.4	12.8	13.1
	3H	11.9	12.3	12.3	12.7	13.0	11.9	12.3	12.3	12.7	13.0
	4H	11.8	12.2	12.2	12.6	13.0	11.8	12.2	12.2	12.6	13.0
	6H	11.8	12.1	12.2	12.5	12.9	11.7	12.1	12.2	12.5	12.9
	8H	11.7	12.0	12.1	12.4	12.9	11.7	12.0	12.1	12.4	12.9
	12H	11.7	11.9	12.1	12.4	12.8	11.7	11.9	12.1	12.4	12.8
8H	4H	11.7	12.0	12.1	12.4	12.9	11.7	12.0	12.1	12.4	12.9
	6H	11.6	11.9	12.1	12.3	12.8	11.6	11.9	12.1	12.3	12.8
	8H	11.6	11.8	12.0	12.2	12.7	11.6	11.8	12.0	12.2	12.7
	12H	11.5	11.7	12.0	12.2	12.7	11.5	11.7	12.0	12.2	12.7
12H	4H	11.7	11.9	12.1	12.4	12.8	11.7	11.9	12.1	12.4	12.8
	6H	11.6	11.8	12.0	12.2	12.7	11.6	11.8	12.0	12.2	12.7
	8H	11.5	11.7	12.0	12.2	12.7	11.5	11.7	12.0	12.2	12.7
Variations with the observer position at spacing:											
S =	1.0H	4.9 / -9.3					4.9 / -9.3				
	1.5H	7.6 / -12.7					7.6 / -12.7				
	2.0H	9.6 / -15.2					9.6 / -15.2				