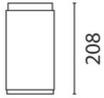


Last information update: February 2024

Product configuration: BI16

BI16: Outdoor ceiling-mounted luminaire - warm white LED - with integrated electronic ballast Vin=120-240V ac - Flood optic



Product code

BI16: Outdoor ceiling-mounted luminaire - warm white LED - with integrated electronic ballast Vin=120-240V ac - Flood optic

Attention! Code no longer in production

Technical description

Direct light outdoor ceiling-mounted luminaire, designed to use monochrome warm white LED lamps, with fixed Flood optic. Ceiling-mounted using the special base. Consists of an optical assembly, base and glass-holding frame. The optical assembly, ceiling base and frame are made of die-cast aluminium alloy coated with liquid acrylic paint with a high level of resistance to weather and UV rays. The 4 mm thick transparent, tempered sodium - calcium glass is joined to the frame with silicone. The internal silicone seals guarantee watertightness. Tool-free quick-coupling closing system between frame, optical assembly and ceiling base. Complete with circuit having monochrome warm white LEDs and an optic with 99.93% polished super-pure aluminium reflector. Flood (F) emission. A number of accessories are available: refractor for elliptical distribution, prismatic diffusing glass and coloured filters. All external requirements are made of A2 stainless steel. The luminaire technical characteristics conform to EN60598-1 standards and particular requirements.

Installation

Ceiling-mounted with down-light emission. Secure using screw anchors for concrete, cement and solid brick.

Colour

White (01) | Black (04) | Grey (15) | Rust Brown (F5)

Weight (Kg)

1.54

Mounting

ceiling surface

Wiring

Control gear complete with electronic ballast 120-240V ac 50/60Hz. Polyamide PG11 double cable gland for pass-through wiring, suitable for power cables ø 6.5-11 mm. Three-pin terminal block set up for pass-through earth wire. Cables with quick-coupling terminals connect the terminal block and the control gear.

Notes

Product complete with LED lamp

Complies with EN60598-1 and pertinent regulations



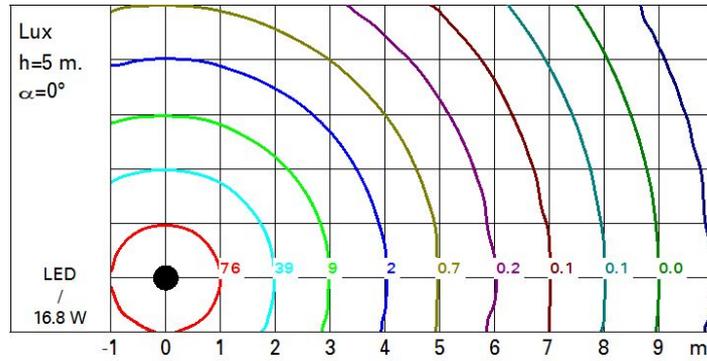
Technical data

Im system:	1304	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
W system:	16.8	Ballast losses [W]:	4.8
Im source:	1810	Lamp code:	LED
W source:	12	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, real value):	77.6	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Intervallo temperatura ambiente:	from -30°C to 50°C.
Light Output Ratio (L.O.R.) [%]:	72	Power factor:	See installation instructions
Beam angle [°]:	40°	Inrush current:	42 A / 100 µs
CRI (minimum):	80	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires
Colour temperature [K]:	3000	Overvoltage protection:	2kV Common mode & 1kV Differential mode
MacAdam Step:	2		

Polar

Imax=2998 cd	Lux			
	h	d	Em	Emax
	4	2.9	131	187
	8	5.8	33	47
	12	8.7	15	21
	16	11.6	8	12

Isolux



UGR diagram

Corrected UGR values (at 1810 lm bare lamp luminous flux)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
ceiling/cav											
walls											
work pl.											
Room dim											
x y											
		viewed crosswise					viewed endwise				
2H	2H	14.4	15.1	14.7	15.3	15.5	14.4	15.1	14.7	15.3	15.5
	3H	14.3	14.9	14.7	15.2	15.5	14.3	14.9	14.6	15.2	15.5
	4H	14.3	14.8	14.6	15.1	15.4	14.3	14.8	14.6	15.1	15.4
	6H	14.2	14.7	14.6	15.0	15.4	14.2	14.7	14.5	15.0	15.3
	8H	14.2	14.7	14.6	15.0	15.3	14.2	14.6	14.5	15.0	15.3
	12H	14.2	14.6	14.5	14.9	15.3	14.1	14.6	14.5	14.9	15.3
4H	2H	14.3	14.8	14.6	15.1	15.4	14.3	14.8	14.6	15.1	15.4
	3H	14.2	14.6	14.6	15.0	15.3	14.2	14.6	14.6	15.0	15.3
	4H	14.1	14.5	14.5	14.9	15.3	14.1	14.5	14.5	14.9	15.3
	6H	14.1	14.4	14.5	14.8	15.2	14.1	14.4	14.5	14.8	15.2
	8H	14.0	14.3	14.5	14.8	15.2	14.0	14.3	14.4	14.7	15.2
	12H	14.0	14.3	14.4	14.7	15.1	14.0	14.3	14.4	14.7	15.1
8H	4H	14.0	14.3	14.4	14.7	15.2	14.0	14.3	14.5	14.8	15.2
	6H	13.9	14.2	14.4	14.7	15.1	13.9	14.2	14.4	14.7	15.1
	8H	13.9	14.1	14.4	14.6	15.1	13.9	14.1	14.4	14.6	15.1
	12H	13.9	14.0	14.4	14.5	15.0	13.9	14.0	14.4	14.5	15.1
12H	4H	14.0	14.3	14.4	14.7	15.1	14.0	14.3	14.4	14.7	15.1
	6H	13.9	14.1	14.4	14.6	15.1	13.9	14.1	14.4	14.6	15.1
	8H	13.9	14.0	14.4	14.5	15.1	13.9	14.0	14.4	14.5	15.1
Variations with the observer position at spacing:											
S =	1.0H		4.4	/	-7.1				4.4	/	-7.1
	1.5H		7.1	/	-9.0				7.1	/	-9.0
	2.0H		9.1	/	-10.3				9.1	/	-10.3