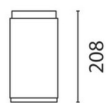


Last information update: October 2024

**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 screws used 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  $\varnothing$  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

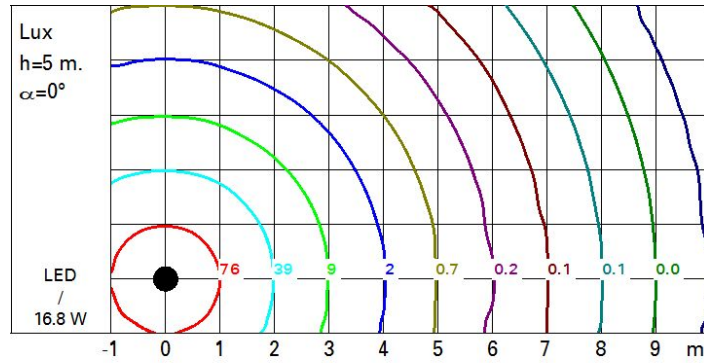
**Technical data**

Im system:	1304	MacAdam Step:	2
W system:	16.8	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Im source:	1810	Lamp code:	LED
W source:	12	Number of lamps for optical assembly:	1
Luminous efficiency (lm/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:	5 A / 50 $\mu$ s
CRI (minimum):	80	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 18 luminaires B16A: 30 luminaires C10A: 31 luminaires C16A: 51 luminaires
Colour temperature [K]:	3000	Overvoltage protection:	4kV Common mode & 2kV Differential mode

**Polar**

Imax=2998 cd		Lux			
		h	d	Em	Emax
	90°				
	180°				
	90°				
	0°				
		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.: 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	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	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	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	15.0	
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					