

Product configuration: BV29

BV29: Ceiling-mounted recessed luminaire with IP66 protection rating, small body, Warm White COB Leds, fixed Flood Optic



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Downlighter designed to use warm white COB Led lamps with a fixed Flood optic. Consists of a round optical assembly, frame, output cable, and outer casing, to be ordered separately where necessary. The optical assembly and frame are made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The next painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. The tempered sodium-calcium sealing glass is transparent, with customised serigraphy on the edge, 4 mm thick, joined to the frame with silicone. Complete with monochrome Warm White COB LED circuit and an optic with a 99.93% polished super-pure aluminium reflector with a polished, anodized surface and built-in electronic ballast. Supplied with an output cable L=1m long. Ceiling-mounting system consists of special A2 stainless steel screws complete with black aluminium alloy and plastic coupling supports. The frame comes complete with A2 stainless steel captive screws. There is a single tool (No. 3 Allen key) for opening the frame and for the fixing system. The outer casing for concrete ceilings is made of black-painted ready-galvanised sheet aluminium complete with an end cap and threaded bar, to be ordered separately. All external screws used are made of A2 stainless steel.

Recessed in false ceilings 5 - 50mm thick. Hole for preparation of false ceiling $\varnothing=125\text{mm}$. Installed on concrete ceilings using an outer casing, to be ordered separately.

Colour
Grey (15)

Weight (Kg)
0.95

ceiling recessed

Control gear complete with electronic ballast (220÷240Vac 50/60Hz)

Plastic adapter disk available for flush-mounting the frame on ceilings made of concrete exposed to view (can only be used with the product with aluminium frame, without the stainless cover). Products set up for installation of a stainless steel safety kit L=2000mm.

Complies with EN60598-1 and pertinent regulations



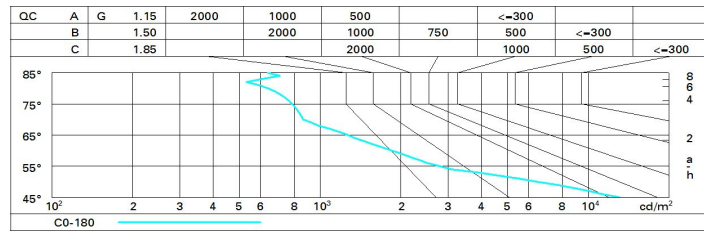
Im system:	1412	MacAdam Step:	2
W system:	14	Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Im source:	1860	Lamp code:	LED
W source:	11	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	100.7	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Intervallo temperatura ambiente:	from -30°C to 35°C.
Light Output Ratio (L.O.R.) [%]:	76	Power factor:	See installation instructions
Beam angle [°]:	38°	Inrush current:	5 A / 50 µs
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

	Imax =2684 cd CIE nL 0.76 97-100-100-100-76 UGR 17.3-17.3 DIN A.61 UTE 0.76A+0.00T F*1=969 F*1+F*2=997 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<19 L<1500 cd/mq @65°	Lux			
	h	d	Em	Emax	
	4	2.7	130	168	
	8	5.4	33	42	
	12	8.2	14	19	
16	10.9	8	10		

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	64	61	59	63	61	60	58	76
1.0	71	67	65	63	67	64	64	61	81
1.5	75	72	70	68	71	69	69	66	87
2.0	77	75	74	72	74	73	72	70	92
2.5	78	77	76	75	76	75	74	72	95
3.0	79	78	78	77	77	76	75	74	97
4.0	80	80	79	79	78	78	77	75	99
5.0	81	80	80	80	79	79	77	76	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1800 lm bare lamp luminous flux)													
Reflect.:													
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.70	0.70
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.50	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim		viewed crosswise						viewed endwise					
x	y												
2H	2H	17.8	18.5	18.1	18.7	19.0	17.8	18.5	18.1	18.7	19.0	17.8	18.5
	3H	17.7	18.3	18.0	18.6	18.9	17.7	18.3	18.0	18.6	18.8	17.7	18.3
	4H	17.6	18.2	18.0	18.5	18.8	17.6	18.2	18.0	18.5	18.8	17.6	18.2
	6H	17.6	18.1	17.9	18.4	18.7	17.6	18.1	17.9	18.4	18.7	17.6	18.1
	8H	17.5	18.0	17.9	18.3	18.7	17.5	18.0	17.9	18.3	18.7	17.5	18.0
	12H	17.5	18.0	17.9	18.3	18.6	17.5	17.9	17.9	18.3	18.6	17.5	17.9
4H	2H	17.6	18.2	18.0	18.5	18.8	17.6	18.2	18.0	18.5	18.8	17.6	18.2
	3H	17.5	18.0	17.9	18.3	18.6	17.5	18.0	17.9	18.3	18.7	17.5	18.0
	4H	17.4	17.8	17.8	18.2	18.6	17.4	17.8	17.8	18.2	18.6	17.4	17.8
	6H	17.3	17.7	17.7	18.1	18.5	17.3	17.7	17.7	18.1	18.5	17.3	17.7
	8H	17.3	17.6	17.7	18.0	18.5	17.3	17.6	17.7	18.0	18.5	17.3	17.6
	12H	17.2	17.5	17.7	18.0	18.4	17.2	17.5	17.7	18.0	18.4	17.2	17.5
8H	4H	17.3	17.6	17.7	18.0	18.5	17.3	17.6	17.7	18.0	18.5	17.3	17.6
	6H	17.2	17.5	17.7	17.9	18.4	17.2	17.5	17.7	17.9	18.4	17.2	17.5
	8H	17.1	17.4	17.6	17.8	18.3	17.1	17.4	17.6	17.8	18.3	17.1	17.4
	12H	17.1	17.3	17.6	17.8	18.3	17.1	17.3	17.6	17.8	18.3	17.1	17.3
12H	4H	17.2	17.5	17.7	18.0	18.4	17.2	17.5	17.7	18.0	18.4	17.2	17.5
	6H	17.1	17.4	17.6	17.8	18.3	17.1	17.4	17.6	17.8	18.3	17.1	17.4
	8H	17.1	17.3	17.6	17.8	18.3	17.1	17.3	17.6	17.8	18.3	17.1	17.3
Variations with the observer position at spacing:													
S =	1.0H	5.2 / -12.6						5.2 / -12.6					
	1.5H	8.0 / -14.5						8.0 / -14.5					
	2.0H	10.0 / -15.7						10.0 / -15.7					