iRound

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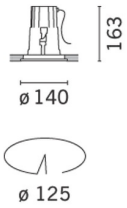
Last information update: March 2025

Product configuration: BV28
BV28: Ceiling-mounted recessed luminaire with IP66 protection rating, small body, Neutral White COB Leds, fixed Flood Optic



Product code
BV28: Ceiling-mounted recessed luminaire with IP66 protection rating, small body, Neutral White COB Leds, fixed Flood Optic

Technical description
Downlighter designed to use Neutral 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 Neutral 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.

Installation
Recessed in false ceilings 5 - 50mm thick. Hole for preparation of false ceiling ø=125mm. Installed on concrete ceilings using an outer casing, to be ordered separately.

Colour	**Weight (Kg)**
Grey (15)	0.95

Mounting
ceiling recessed

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

Notes
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

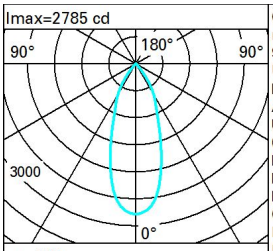
IK07 IP66 pending

Technical data

lm system:	1466
W system:	14
lm source:	1930
W source:	11
Luminous efficiency (lm/W, real value):	104.5
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	76
Beam angle [°]:	38°
CRI (minimum):	80
Colour temperature [K]:	4000

MacAdam Step:	2
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -30°C to 35°C.
Power factor:	See installation instructions
Inrush current:	5 A / 50 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 18 luminaires B16A: 30 luminaires C10A: 31 luminaires C16A: 51 luminaires
Overvoltage protection:	4kV Common mode & 2kV Differential mode

Polar



CIE
nL 0.76
97-100-100-100-76
UGR 17.4-17.4
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 I L<1500 cd/mq @65°

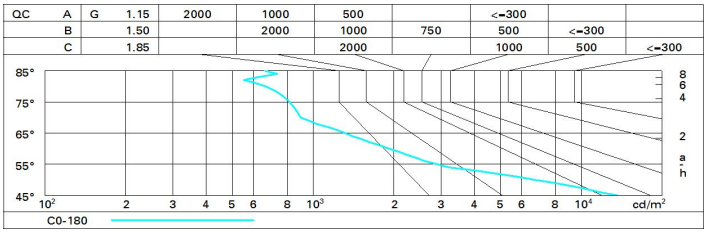
Lux

h	d	Em	Emax
4	2.7	135	174
8	5.4	34	44
12	8.2	15	19
16	10.9	8	11

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 1930 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed					viewed		
x	y			crosswise					endwise		
2H	2H	18.0	18.6	18.2	18.9	19.1	18.0	18.6	18.2	18.9	19.1
	3H	17.8	18.4	18.1	18.7	19.0	17.8	18.4	18.1	18.7	19.0
	4H	17.8	18.3	18.1	18.6	18.9	17.8	18.3	18.1	18.6	18.9
	6H	17.7	18.2	18.0	18.5	18.8	17.7	18.2	18.0	18.5	18.8
	8H	17.7	18.1	18.0	18.5	18.8	17.6	18.1	18.0	18.5	18.8
	12H	17.6	18.1	18.0	18.4	18.8	17.6	18.1	18.0	18.4	18.8
4H	2H	17.8	18.3	18.1	18.6	18.9	17.8	18.3	18.1	18.6	18.9
	3H	17.6	18.1	18.0	18.4	18.8	17.6	18.1	18.0	18.4	18.8
	4H	17.5	17.9	17.9	18.3	18.7	17.5	17.9	17.9	18.3	18.7
	6H	17.4	17.8	17.9	18.2	18.6	17.4	17.8	17.9	18.2	18.6
	8H	17.4	17.7	17.8	18.1	18.6	17.4	17.7	17.8	18.1	18.6
	12H	17.4	17.7	17.8	18.1	18.5	17.4	17.7	17.8	18.1	18.5
8H	4H	17.4	17.7	17.8	18.1	18.6	17.4	17.7	17.8	18.1	18.6
	6H	17.3	17.6	17.8	18.0	18.5	17.3	17.6	17.8	18.0	18.5
	8H	17.3	17.5	17.8	18.0	18.5	17.3	17.5	17.8	18.0	18.5
	12H	17.2	17.4	17.7	17.9	18.4	17.2	17.4	17.7	17.9	18.4
12H	4H	17.4	17.7	17.8	18.1	18.5	17.4	17.7	17.8	18.1	18.5
	6H	17.3	17.5	17.7	18.0	18.5	17.3	17.5	17.8	18.0	18.5
	8H	17.2	17.4	17.7	17.9	18.4	17.2	17.4	17.7	17.9	18.4

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