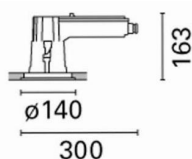


Last information update: May 2024

**Product configuration: BE49+L262**

BE49: Ceiling-mounted recessed luminaire with IP66 protection rating, small body, 20W HI-Par 51 GX10 adjustable

**Product code**BE49: Ceiling-mounted recessed luminaire with IP66 protection rating, small body, 20W HI-Par 51 GX10 adjustable **Attention! Code no longer in production****Technical description**

Downlighter with HI-PAR51 metal halide lamps. Consists of a round optical assembly, frame, lateral component holder box and an outer casing to be ordered separately where necessary. The optical assembly and frame are made of aluminium alloy, coated with liquid acrylic paint with a high level of weather and UV ray resistance. The tempered sodium - calcium sealing glass is transparent, with customised serigraphy on the edge, 4mm thick, joined to the frame with silicone. Adjustable optic:  $\pm 15^\circ$  about the vertical axis and  $180^\circ$  relative to the horizontal plane. Adjustable versions have a system for aiming the optic using a tool even when the lamp is on (without the risk of burns). Complete with a black-painted aluminium multi-groove ring. The lateral component holder box and top end cap are made of high performance black plastic; complete with a silicone internal seal to guarantee watertightness. The optical assembly and lateral box are connected by a stainless steel threaded connector with a cable gland rubber gasket for a watertight seal. Set up for pass-through wiring using two PG13.5 grey polyamide cable glands, suitable for cables with diameter 8.5 - 12.5mm. Ceiling-mounting system consists of special A2 stainless steel screws complete with black aluminium alloy and plastic coupling supports. The frame and the caps of the lateral component holder box come complete with A2 stainless steel captive screws. There is a single tool (No. 3 Allen key) for opening the frame, the lateral box cap 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.

**Installation**

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)

**Mounting**

ceiling surface

**Wiring**

Luminaire equipped with electronic ballast 220/240V 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

**Technical data**

Im system:	837	Colour temperature [K]:	3000
W system:	23	Lamp maximum intensity	1500
Im source:	837	[cd]:	
W source:	20	Voltage [Vin]:	230
Luminous efficiency (Im/W, real value):	36.4	Lamp code:	L262
Im in emergency mode:	-	Socket:	GX10
Total light flux at or above an angle of $90^\circ$ [Lm]:	0	Number of lamps for optical assembly:	1
Light Output Ratio (L.O.R.) [%]:	100	ZVEI Code:	HI-PAR 51-CE
Beam angle $[\alpha]$ :	$38^\circ$	Number of optical assemblies:	1
CRI:	90	Intervallo temperatura ambiente:	from $-20^\circ\text{C}$ to $+35^\circ\text{C}$ .

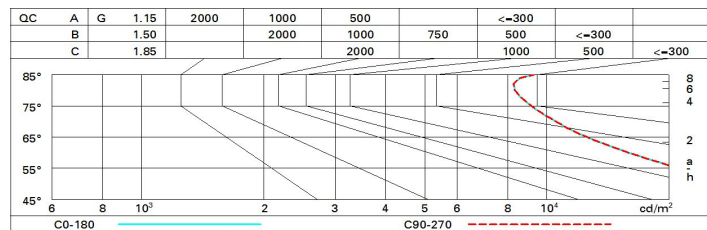
**Polar**

<p><math>\alpha = 38^\circ</math></p>	<b>CIE</b> nL 1.00 91-98-100-100-100 UGR 19.9-19.7 <b>DIN</b> A.61 <b>UTE</b> 1.00A+0.00T F*1=907 F*1+F*2=978 F*1+F*2+F*3=996				<b>Lux</b>			
	h	d	Em	Emax	h	d	Em	Emax
	1	0.7	1261	1687				
	2	1.4	315	422				
	3	2.1	140	187				
	4	2.8	79	105				

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	86	80	76	73	79	76	75	72	72
1.0	91	85	82	79	84	81	81	77	77
1.5	96	92	89	87	91	88	88	84	84
2.0	100	97	95	93	96	93	92	89	89
2.5	102	100	98	96	98	97	96	92	92
3.0	104	102	100	99	100	99	98	95	95
4.0	105	104	103	102	102	101	100	97	97
5.0	106	105	104	103	103	102	101	98	98

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 837 lm bare lamp luminous flux)											
Reflect.: ceiling 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	19.1	19.8	19.4	20.1	20.3	19.1	19.8	19.4	20.1	20.3
	3H	19.4	20.0	19.7	20.3	20.6	19.2	19.8	19.5	20.1	20.4
	4H	19.5	20.1	19.8	20.4	20.7	19.2	19.8	19.5	20.1	20.4
	6H	19.6	20.1	19.9	20.4	20.7	19.2	19.7	19.5	20.0	20.3
	8H	19.6	20.1	19.9	20.4	20.8	19.1	19.6	19.5	20.0	20.3
	12H	19.6	20.1	20.0	20.4	20.8	19.1	19.6	19.5	19.9	20.3
4H	2H	19.2	19.8	19.5	20.1	20.4	19.5	20.1	19.8	20.4	20.7
	3H	19.6	20.1	19.9	20.4	20.8	19.7	20.2	20.0	20.5	20.9
	4H	19.7	20.2	20.1	20.5	20.9	19.7	20.2	20.1	20.5	20.9
	6H	19.9	20.2	20.3	20.6	21.1	19.7	20.1	20.2	20.5	20.9
	8H	19.9	20.3	20.4	20.7	21.1	19.7	20.1	20.2	20.5	20.9
	12H	20.0	20.3	20.4	20.7	21.2	19.7	20.0	20.2	20.5	20.9
8H	4H	19.7	20.1	20.2	20.5	20.9	19.9	20.3	20.4	20.7	21.1
	6H	19.9	20.2	20.4	20.7	21.2	20.0	20.3	20.5	20.7	21.2
	8H	20.0	20.3	20.5	20.8	21.3	20.0	20.3	20.5	20.8	21.3
	12H	20.1	20.4	20.6	20.8	21.4	20.1	20.3	20.6	20.8	21.3
12H	4H	19.7	20.0	20.2	20.5	20.9	20.0	20.3	20.4	20.7	21.2
	6H	19.9	20.2	20.4	20.6	21.1	20.1	20.3	20.6	20.8	21.3
	8H	20.1	20.3	20.6	20.8	21.3	20.1	20.4	20.6	20.8	21.4
Variations with the observer position at spacing:											
S =	1.0H	1.6 / -1.4					1.6 / -1.4				
	1.5H	3.3 / -2.3					3.3 / -2.3				
	2.0H	5.0 / -2.8					5.0 / -2.8				