

Laser Pinhole

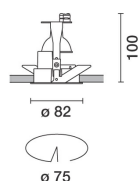
Design iGuzzini

iGuzzini

Last information update: June 2024

Product configuration: M248+1696

M248: Pinholeadjustable round recessed luminaireD=82 mm H=99 mm50W QR CBC 51



Product code

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Technical description

Adjustable round recessed luminaire for low voltage dichroic halogen lamp. Made of die-cast aluminium and thermoplastic material. Rotates 355° about the vertical axis and tilts internally 30° relative to the horizontal axis. Contact springs are used to couple to a die-cast aluminium outer frame a die-cast aluminium inner ring on which the black-painted sheet steel lamp-holder bracket is fastened. Inserted in the frame there is a die-cast aluminium front ring in turn containing a cylindrical element made of black thermoplastic material for housing the accessories: sand-blasted glass, ribbed glass, louver and soft lens. Above the lamp holder there is a slide which allows the position of the lamp holder to be moved so as to optimise luminaire performance. The luminaire technical characteristics conform to EN 60598-1 standards and particular requirements.

Installation

Recessed in false ceilings whose thickness is between 1 mm and 20 mm using 75 mm diameter holes. Fixed with steel springs.

Colour
White (01)

Weight (Kg)
0.38

Mounting
ceiling recessed

Wiring
electronic components to be ordered separately

Complies with EN60598-1 and pertinent regulations



Technical data

Im system:	837	CRI (minimum):	100
W system:	55	Colour temperature [K]:	3000
Im source:	1137	Lamp maximum intensity	2200
W source:	50	[cd]:	
Luminous efficiency (Im/W, real value):	15.2	Voltage [Vin]:	12
Im in emergency mode:	-	Lamp code:	1696
Total light flux at or above an angle of 90° [Lm]:	0	Socket:	GU5,3
Light Output Ratio (L.O.R.) [%]:	74	Number of lamps for optical assembly:	1
Beam angle [°]:	32°	ZVEI Code:	QR-CBC 51
		Number of optical assemblies:	1

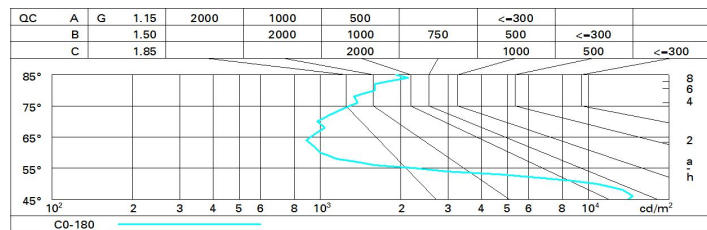
Polar

<p>Imax=2980 cd 90° 180° 90° 3000 0° α = 32°</p>	CIE nL 0.74 98-100-100-100-74 UGR <10-<10 DIN A.61 UTE 0.74A+0.00T F*1=978 F*1+F*2=998 F*1+F*2+F*3=999 CIBSE LG3 L<3000 cd/m² at 65° UGR<10 L<3000 cd/mq @65°				Lux			
	h	d	Em	Emax				
	2	1.1	557	745				
	4	2.3	139	186				
	6	3.4	62	83				
	8	4.6	35	47				

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	60	58	62	59	59	57	77
1.0	69	66	63	62	65	63	62	60	82
1.5	72	70	68	67	69	67	67	65	88
2.0	75	73	72	70	72	71	70	68	92
2.5	76	75	74	73	74	73	72	70	95
3.0	77	76	75	75	75	74	73	71	97
4.0	78	77	77	76	76	76	75	73	99
5.0	79	78	78	77	77	76	75	73	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1137 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	8.3	8.8	8.6	9.1	9.3	8.3	8.8	8.6	9.1	9.3
	3H	8.3	8.7	8.6	9.0	9.3	8.2	8.7	8.5	9.0	9.2
	4H	8.3	8.7	8.6	9.0	9.3	8.2	8.6	8.5	8.9	9.2
	6H	8.3	8.7	8.6	9.0	9.3	8.1	8.5	8.5	8.8	9.1
	8H	8.3	8.7	8.7	9.0	9.4	8.1	8.5	8.4	8.8	9.1
	12H	8.4	8.7	8.7	9.1	9.4	8.0	8.4	8.4	8.7	9.1
4H	2H	8.2	8.6	8.5	8.9	9.2	8.3	8.7	8.6	9.0	9.3
	3H	8.1	8.5	8.5	8.8	9.2	8.2	8.6	8.6	8.9	9.3
	4H	8.2	8.5	8.6	8.9	9.2	8.2	8.5	8.6	8.9	9.2
	6H	8.3	8.5	8.7	8.9	9.4	8.1	8.4	8.6	8.8	9.2
	8H	8.3	8.6	8.8	9.0	9.4	8.1	8.4	8.5	8.8	9.2
	12H	8.4	8.6	8.9	9.1	9.5	8.1	8.3	8.5	8.7	9.2
8H	4H	8.1	8.4	8.5	8.8	9.2	8.3	8.6	8.8	9.0	9.4
	6H	8.3	8.5	8.7	8.9	9.4	8.4	8.6	8.8	9.0	9.5
	8H	8.4	8.6	8.9	9.0	9.5	8.4	8.6	8.9	9.0	9.5
	12H	8.6	8.7	9.1	9.2	9.7	8.4	8.6	8.9	9.1	9.6
12H	4H	8.1	8.3	8.5	8.7	9.2	8.4	8.6	8.9	9.1	9.5
	6H	8.3	8.4	8.7	8.9	9.4	8.5	8.7	9.0	9.1	9.6
	8H	8.4	8.6	8.9	9.1	9.6	8.6	8.7	9.1	9.2	9.7
Variations with the observer position at spacing:											
S =	1.0H	2.5 / -3.7					2.5 / -3.7				
	1.5H	3.5 / -4.4					3.5 / -4.4				
	2.0H	5.3 / -4.6					5.3 / -4.6				