

Laser Pinhole

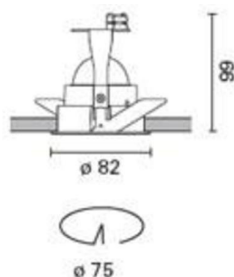
Design iGuzzini

iGuzzini

Last information update: June 2024

Product configuration: M247+1696

M247: Pinholefixed round recessed luminaireD=82 mm H=99 mm50W QR CBC 51



Product code

M247: Pinholefixed round recessed luminaireD=82 mm H=99 mm50W QR CBC 51

Technical description

Fixed round recessed luminaire for low voltage dichroic halogen lamp. Made of die-cast aluminium and thermoplastic material. Contact springs couple a die-cast aluminium outer frame to a die-cast aluminium inner ring on which the sheet steel lamp-holder bracket with black finish is fixed. 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. 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)

0.17

Mounting

ceiling recessed

Wiring

electronic components to be ordered separately

Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	779	CRI (minimum):	100
W system:	55	Colour temperature [K]:	3000
lm source:	1137	Lamp maximum intensity	2200
W source:	50	[cd]:	
Luminous efficiency (lm/W, real value):	14.2	Voltage [Vin]:	12
lm 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.) [%]:	68	Number of lamps for optical assembly:	1
Beam angle [°]:	36°	ZVEI Code:	QR-CBC 51
		Number of optical assemblies:	1

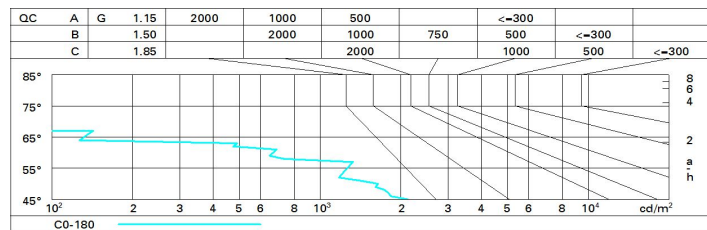
Polar

 $\alpha = 36^\circ$	CIE nL 0.68 100-100-100-100-68 UGR <10-<10 DIN A.61 UTE 0.68A+0.00T F*1=995 F*1+F*2=1000 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m ² at 65° UGR<10 L<1500 cd/mq @65°				Lux			
	h	d	Em	Emax				
	2	1.3	471	624				
	4	2.6	118	156				
	6	3.9	52	69				
	8	5.2	29	39				

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	62	59	56	55	58	56	56	54	78
1.0	64	62	60	58	61	59	59	57	83
1.5	68	66	64	62	65	63	63	61	88
2.0	70	68	67	66	67	66	65	64	93
2.5	71	70	69	68	69	68	67	66	96
3.0	72	71	70	70	70	69	69	67	98
4.0	73	72	72	71	71	71	70	68	99
5.0	73	73	72	72	72	71	70	69	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	2.6	3.1	2.8	3.3	3.5	2.6	3.1	2.8	3.3	3.5
	3H	2.4	2.9	2.7	3.2	3.4	2.5	2.9	2.8	3.2	3.5
	4H	2.4	2.8	2.7	3.1	3.4	2.4	2.8	2.7	3.1	3.4
	6H	2.3	2.7	2.6	3.0	3.3	2.3	2.7	2.7	3.0	3.4
	8H	2.3	2.6	2.6	3.0	3.3	2.3	2.7	2.7	3.0	3.3
	12H	2.2	2.6	2.6	2.9	3.3	2.3	2.6	2.6	3.0	3.3
4H	2H	2.4	2.8	2.7	3.1	3.4	2.4	2.8	2.7	3.1	3.4
	3H	2.3	2.6	2.6	3.0	3.3	2.3	2.6	2.6	3.0	3.3
	4H	2.2	2.5	2.6	2.9	3.2	2.2	2.5	2.6	2.9	3.2
	6H	2.1	2.4	2.5	2.8	3.2	2.1	2.4	2.5	2.8	3.2
	8H	2.0	2.3	2.5	2.7	3.1	2.0	2.3	2.5	2.7	3.1
	12H	2.0	2.2	2.4	2.7	3.1	2.0	2.2	2.4	2.7	3.1
8H	4H	2.0	2.3	2.5	2.7	3.1	2.0	2.3	2.5	2.7	3.1
	6H	1.9	2.2	2.4	2.6	3.1	1.9	2.2	2.4	2.6	3.1
	8H	1.9	2.1	2.4	2.5	3.0	1.9	2.1	2.4	2.5	3.0
	12H	1.8	2.0	2.3	2.5	3.0	1.8	2.0	2.3	2.5	3.0
12H	4H	2.0	2.2	2.4	2.7	3.1	2.0	2.2	2.4	2.7	3.1
	6H	1.9	2.1	2.4	2.5	3.0	1.9	2.1	2.4	2.5	3.0
	8H	1.8	2.0	2.3	2.5	3.0	1.8	2.0	2.3	2.5	3.0
Variations with the observer position at spacing:											
S =	1.0H	4.9 / -0.6					4.9 / -0.6				
	1.5H	7.6 / -11.3					7.6 / -11.3				
	2.0H	9.4 / -18.8					9.4 / -18.8				