

Laser Pinhole

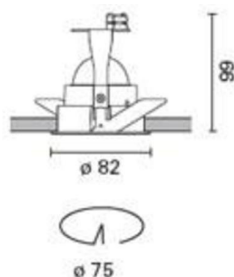
Design iGuzzini

iGuzzini

Last information update: June 2024

Product configuration: M247+L215

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:	550	CRI (minimum):	100
W system:	38	Colour temperature [K]:	3000
lm source:	788	Lamp maximum intensity	4400
W source:	35	[cd]:	
Luminous efficiency (lm/W, real value):	14.5	Voltage [Vin]:	12
lm in emergency mode:	-	Lamp code:	L215
Total light flux at or above an angle of 90° [Lm]:	0	Socket:	GU5,3
Light Output Ratio (L.O.R.) [%]:	70	Number of lamps for optical assembly:	1
Beam angle [°]:	22°	ZVEI Code:	QR-CBC 51
		Number of optical assemblies:	1

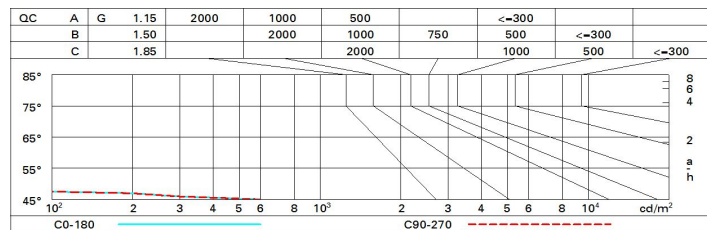
Polar

	Imax=3823 cd			
	CIE nL 0.70 100-100-100-100-70 UGR <10-10			
	DIN A.61 UTE 0.70A+0.00T F*1=999 F*1+F*2=1000 F*1+F*2+F*3=1000			
	CIBSE LG3 L<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @ 65°			
	Lux			
	h	d	Em	Emax
	2	0.8	789	956
	4	1.6	197	239
	6	2.3	88	106
	8	3.1	49	60

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	63	60	58	56	59	57	57	55	78
1.0	66	63	61	59	62	60	60	58	83
1.5	69	67	65	64	66	65	64	62	89
2.0	71	70	68	67	69	68	67	65	93
2.5	73	71	70	70	70	69	69	67	96
3.0	73	73	72	71	71	71	70	68	98
4.0	74	74	73	73	72	72	71	69	99
5.0	75	74	74	74	73	73	72	70	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 788 lm bare lamp luminous flux)											
Reflect.: ceiling/cav 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	-3.3	-1.2	-3.0	-0.9	-0.6	-3.3	-1.2	-3.0	-0.9	-0.6
	3H	-3.5	-2.0	-3.1	-1.7	-1.3	-3.5	-2.0	-3.1	-1.7	-1.3
	4H	-3.5	-2.4	-3.1	-2.0	-1.7	-3.5	-2.4	-3.1	-2.0	-1.7
	6H	-3.5	-2.7	-3.2	-2.4	-2.1	-3.5	-2.7	-3.2	-2.4	-2.1
	8H	-3.6	-2.8	-3.2	-2.4	-2.1	-3.6	-2.8	-3.2	-2.4	-2.1
	12H	-3.7	-2.8	-3.3	-2.4	-2.0	-3.7	-2.8	-3.3	-2.4	-2.0
4H	2H	-3.5	-2.4	-3.1	-2.0	-1.7	-3.5	-2.4	-3.1	-2.0	-1.7
	3H	-3.7	-2.8	-3.3	-2.4	-2.0	-3.7	-2.8	-3.3	-2.4	-2.0
	4H	-3.8	-2.8	-3.4	-2.4	-2.0	-3.8	-2.8	-3.4	-2.4	-2.0
	6H	-4.2	-2.5	-3.7	-2.0	-1.5	-4.2	-2.5	-3.7	-2.0	-1.5
	8H	-4.3	-2.4	-3.8	-1.9	-1.4	-4.3	-2.4	-3.8	-1.9	-1.4
	12H	-4.4	-2.5	-3.9	-2.0	-1.5	-4.4	-2.5	-3.9	-2.0	-1.5
8H	4H	-4.3	-2.4	-3.8	-1.9	-1.4	-4.3	-2.4	-3.8	-1.9	-1.4
	6H	-4.4	-2.7	-3.9	-2.2	-1.7	-4.4	-2.7	-3.9	-2.2	-1.7
	8H	-4.4	-3.0	-3.9	-2.5	-1.9	-4.4	-3.0	-3.9	-2.5	-1.9
	12H	-4.3	-3.3	-3.8	-2.8	-2.3	-4.3	-3.3	-3.8	-2.8	-2.3
12H	4H	-4.4	-2.5	-3.9	-2.0	-1.5	-4.4	-2.5	-3.9	-2.0	-1.5
	6H	-4.4	-3.0	-3.9	-2.5	-1.9	-4.4	-3.0	-3.9	-2.5	-1.9
	8H	-4.3	-3.3	-3.8	-2.8	-2.3	-4.3	-3.3	-3.8	-2.8	-2.3
Variations with the observer position at spacing:											
S =	1.0H	5.1 / -28.1					5.1 / -28.1				
	1.5H	6.1 / -27.1					6.1 / -27.1				
	2.0H	6.5 / -26.6					6.5 / -26.6				