

Laser Pinhole

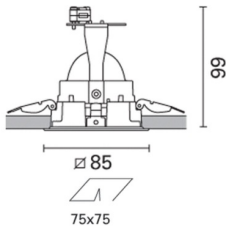
Design iGuzzini

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Last information update: June 2024

Product configuration: MB07+L215

MB07: PinholeSquare recessed luminaire85 x 85 mm50W QR CBC 51



Product code

MB07: PinholeSquare recessed luminaire85 x 85 mm50W QR CBC 51

Technical description

Fixed square 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 15 mm using 78x78 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

Im system:	550	CRI (minimum):	100
W system:	38	Colour temperature [K]:	3000
Im source:	788	Lamp maximum intensity	4400
W source:	35	[cd]:	
Luminous efficiency (Im/W, real value):	14.5	Voltage [Vin]:	12
Im 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

 $\alpha = 22^\circ$	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/m ² at 65° UGR<10 L<1500 cd/mq @ 65°			
	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

UGR diagram

Corrected UGR values (at 788 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling/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											
x	y										
2H	2H	-6.0	-3.8	-5.6	-3.5	-3.2	-6.0	-3.8	-5.6	-3.5	-3.2
	3H	-6.1	-4.6	-5.7	-4.3	-4.0	-6.1	-4.6	-5.7	-4.3	-4.0
	4H	-6.1	-5.0	-5.7	-4.7	-4.3	-6.1	-5.0	-5.7	-4.7	-4.3
	6H	-6.1	-5.4	-5.8	-5.0	-4.7	-6.1	-5.4	-5.8	-5.0	-4.7
	8H	-6.2	-5.4	-5.8	-5.0	-4.7	-6.2	-5.4	-5.8	-5.0	-4.7
	12H	-6.3	-5.4	-5.9	-5.0	-4.7	-6.3	-5.4	-5.9	-5.0	-4.7
4H	2H	-6.1	-5.0	-5.7	-4.7	-4.3	-6.1	-5.0	-5.7	-4.7	-4.3
	3H	-6.3	-5.4	-5.9	-5.0	-4.7	-6.3	-5.4	-5.9	-5.0	-4.7
	4H	-6.4	-5.4	-6.0	-5.0	-4.6	-6.4	-5.4	-6.0	-5.0	-4.6
	6H	-6.8	-5.1	-6.3	-4.6	-4.2	-6.8	-5.1	-6.3	-4.6	-4.2
	8H	-6.9	-5.0	-6.4	-4.5	-4.0	-6.9	-5.0	-6.4	-4.5	-4.0
	12H	-7.0	-5.1	-6.5	-4.6	-4.1	-7.0	-5.1	-6.5	-4.6	-4.1
8H	4H	-6.9	-5.0	-6.4	-4.5	-4.0	-6.9	-5.0	-6.4	-4.5	-4.0
	6H	-7.0	-5.3	-6.5	-4.8	-4.3	-7.0	-5.3	-6.5	-4.8	-4.3
	8H	-7.0	-5.6	-6.5	-5.1	-4.5	-7.0	-5.6	-6.5	-5.1	-4.5
	12H	-6.9	-5.9	-6.4	-5.4	-4.9	-6.9	-5.9	-6.4	-5.4	-4.9
12H	4H	-7.0	-5.1	-6.5	-4.6	-4.1	-7.0	-5.1	-6.5	-4.6	-4.1
	6H	-7.0	-5.6	-6.5	-5.1	-4.5	-7.0	-5.6	-6.5	-5.1	-4.5
	8H	-6.9	-5.9	-6.4	-5.4	-4.9	-6.9	-5.9	-6.4	-5.4	-4.9
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				