

## Laser Pinhole

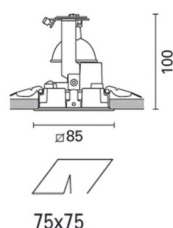
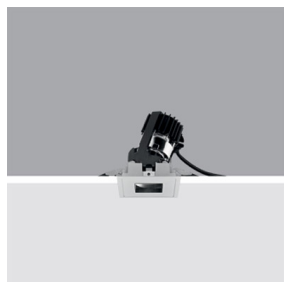
Design iGuzzini

iGuzzini

Last information update: June 2024

### Product configuration: MB08+L080

MB08: PinholeAdjustable square recessed luminaire85 x 85 mm50W QR CBC 51



### Product code

MB08: PinholeAdjustable square recessed luminaire85 x 85 mm50W QR CBC 51

### Technical description

Adjustable square 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 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

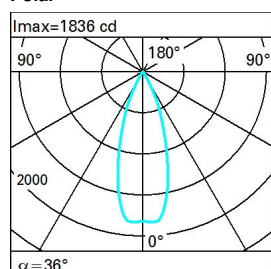
Complies with EN60598-1 and pertinent regulations



### Technical data

Im system:	711	CRI (minimum):	100
W system:	55	Colour temperature [K]:	3000
Im source:	1027	Lamp maximum intensity	1100
W source:	50	[cd]:	
Luminous efficiency (Im/W, real value):	12.9	Voltage [Vin]:	12
Im in emergency mode:	-	Lamp code:	L080
Total light flux at or above an angle of 90° [Lm]:	0	Socket:	GU5,3
Light Output Ratio (L.O.R.) [%]:	69	Number of lamps for optical assembly:	1
Beam angle [°]:	36°	ZVEI Code:	QR-CBC 51
		Number of optical assemblies:	1

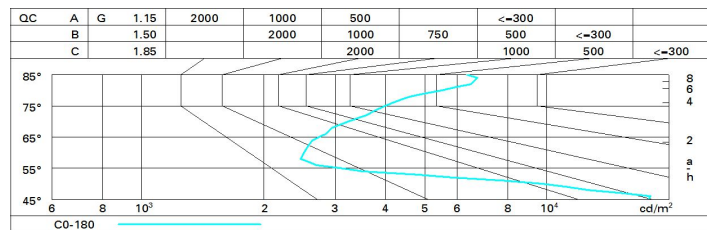
### Polar

	CIE				Lux			
	nL 0.69				h			
	96-99-100-100-69				d			
	UGR 12.7-11.6				Em			
	DIN A.61 UTE 0.69A+0.00T F*1=965 F*1+F*2=992 F*1+F*2+F*3=997				Emax			
					2			
					4			
6								
8								
alpha = 36°				28				

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	61	58	56	54	57	55	55	52	76
1.0	64	61	59	57	60	58	58	56	81
1.5	68	65	64	62	65	63	62	60	87
2.0	70	68	67	66	67	66	65	63	91
2.5	71	70	69	68	69	68	67	65	94
3.0	72	71	71	70	70	70	69	67	97
4.0	73	72	72	71	71	71	70	68	98
5.0	74	73	73	72	72	72	70	69	99

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 1027 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	10.4	11.0	10.7	11.2	11.5	10.4	11.0	10.7	11.2	11.5
	3H	10.7	11.2	11.0	11.5	11.8	10.4	10.9	10.7	11.2	11.5
	4H	11.1	11.5	11.4	11.8	12.1	10.4	10.9	10.7	11.2	11.5
	6H	11.6	12.0	11.9	12.3	12.7	10.4	10.8	10.7	11.1	11.5
	8H	11.9	12.4	12.3	12.7	13.0	10.4	10.8	10.7	11.1	11.5
	12H	12.2	12.6	12.6	13.0	13.3	10.3	10.7	10.7	11.1	11.4
4H	2H	10.4	10.9	10.7	11.2	11.5	11.1	11.5	11.4	11.8	12.1
	3H	10.9	11.3	11.3	11.6	12.0	11.3	11.7	11.6	12.0	12.4
	4H	11.4	11.8	11.8	12.1	12.5	11.4	11.8	11.8	12.1	12.5
	6H	12.2	12.5	12.6	12.9	13.3	11.5	11.9	12.0	12.3	12.7
	8H	12.7	13.0	13.1	13.4	13.9	11.6	11.9	12.0	12.3	12.8
	12H	13.1	13.4	13.6	13.8	14.3	11.7	11.9	12.1	12.4	12.8
8H	4H	11.6	11.9	12.0	12.3	12.8	12.7	13.0	13.1	13.4	13.9
	6H	12.7	12.9	13.1	13.4	13.8	13.1	13.4	13.6	13.8	14.3
	8H	13.4	13.6	13.9	14.1	14.6	13.4	13.6	13.9	14.1	14.6
	12H	14.0	14.1	14.5	14.6	15.1	13.6	13.8	14.1	14.3	14.8
12H	4H	11.7	11.9	12.1	12.4	12.8	13.1	13.4	13.6	13.8	14.3
	6H	12.8	13.0	13.3	13.5	14.0	13.6	13.9	14.1	14.3	14.8
	8H	13.6	13.8	14.1	14.3	14.8	14.0	14.1	14.5	14.6	15.1
Variations with the observer position at spacing:											
S =	1.0H	1.1 / -0.9					1.1 / -0.9				
	1.5H	1.6 / -1.1					1.6 / -1.1				
	2.0H	2.7 / -1.1					2.7 / -1.1				