

## Laser Pinhole

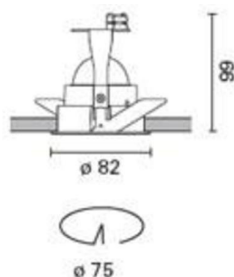
Design iGuzzini

iGuzzini

Last information update: June 2024

### Product configuration: M247+L080

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:	628	CRI (minimum):	100
W system:	55	Colour temperature [K]:	3000
lm source:	1027	Lamp maximum intensity	1100
W source:	50	[cd]:	
Luminous efficiency (lm/W, real value):	11.4	Voltage [Vin]:	12
lm 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.) [%]:	61	Number of lamps for optical assembly:	1
Beam angle [°]:	42°	ZVEI Code:	QR-CBC 51
		Number of optical assemblies:	1

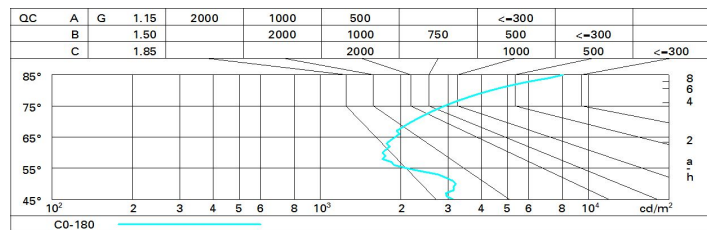
### Polar

Imax=1352 cd		<b>CIE</b> nL 0.61 98-99-100-100-61 UGR 12.3-11.4 <b>DIN</b> A.61 <b>UTE</b> 0.61A+0.00T F*1=984 F*1+F*2=993 F*1+F*2+F*3=997	Lux			
90°	180°	h	d	Em	Emax	
		1	0.8	959	1352	
		2	1.5	240	338	
		3	2.3	107	150	
		4	3.1	60	85	
alpha = 42°						

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	55	52	50	48	51	50	49	47	77
1.0	57	55	53	51	54	52	52	50	82
1.5	60	58	57	55	57	56	56	54	88
2.0	62	61	59	58	60	59	58	56	92
2.5	63	62	61	61	61	60	60	58	95
3.0	64	63	63	62	62	62	61	59	97
4.0	65	64	64	63	63	63	62	60	99
5.0	65	65	64	64	64	63	62	61	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 1027 lm bare lamp luminous flux)											
Reflect.: ceil/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	11.0	11.5	11.2	11.7	12.0	11.0	11.5	11.2	11.7	12.0
	3H	11.0	11.5	11.3	11.8	12.1	10.9	11.4	11.2	11.6	11.9
	4H	11.2	11.6	11.5	11.9	12.2	10.8	11.3	11.2	11.6	11.9
	6H	11.5	11.9	11.9	12.2	12.6	10.8	11.2	11.1	11.5	11.8
	8H	11.8	12.2	12.2	12.5	12.9	10.8	11.2	11.1	11.5	11.8
	12H	12.2	12.6	12.6	13.0	13.3	10.7	11.1	11.1	11.5	11.8
4H	2H	10.8	11.3	11.2	11.6	11.9	11.2	11.6	11.5	11.9	12.2
	3H	11.0	11.4	11.4	11.7	12.1	11.2	11.6	11.6	11.9	12.3
	4H	11.3	11.6	11.7	12.0	12.4	11.3	11.6	11.7	12.0	12.4
	6H	11.8	12.1	12.3	12.5	13.0	11.3	11.6	11.8	12.0	12.4
	8H	12.3	12.6	12.8	13.0	13.4	11.4	11.6	11.8	12.1	12.5
	12H	13.0	13.2	13.4	13.7	14.1	11.4	11.7	11.9	12.1	12.5
8H	4H	11.4	11.6	11.8	12.1	12.5	12.3	12.6	12.8	13.0	13.4
	6H	12.2	12.4	12.7	12.9	13.3	12.7	12.9	13.1	13.3	13.8
	8H	12.9	13.1	13.4	13.5	14.0	12.9	13.1	13.4	13.5	14.0
	12H	13.8	14.0	14.3	14.5	15.0	13.1	13.3	13.6	13.8	14.3
12H	4H	11.4	11.7	11.9	12.1	12.5	13.0	13.2	13.4	13.7	14.1
	6H	12.3	12.5	12.8	13.0	13.5	13.5	13.7	14.0	14.1	14.6
	8H	13.1	13.3	13.6	13.8	14.3	13.8	14.0	14.3	14.5	15.0
Variations with the observer position at spacing:											
S =	1.0H	3.5 / -1.2					3.5 / -1.2				
	1.5H	5.7 / -1.4					5.7 / -1.4				
	2.0H	7.5 / -1.5					7.5 / -1.5				