Reflex

Design iGuzzini **iGuzzini**

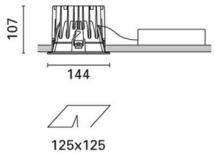
Last information update: April 2018

Square recessed luminaire - 144x144 mm H=111 mm - LED warm white - electronic ballast - general light optic with controlled luminance UGR<19

Product code
MC01

Technical description
Recessed fixed square luminaire designed to use a LED lamp. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with 1100 lm LED unit in a warm white tone 3000K and electronic driver separate from the luminaire. General light distribution, with controlled luminance (UGR<19).

Installation
Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 20 mm.



Dimension (mm)
144x144x107

Colour
White/Aluminium (39)

Weight (Kg)
1

Mounting
ceiling recessed

Wiring
Product complete with electronic components

Complies with EN60598-1 and pertinent regulations

IP20 IP54 On the visible part of the product once installed

Product configuration: MC01

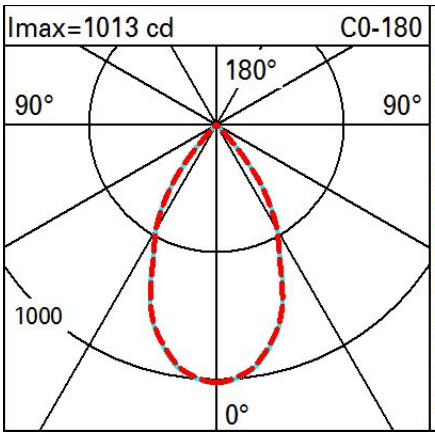
Product characteristics

Total lighting output [Lm]: 967.5	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 8.9	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 108.7	Voltage [V]: -
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 88	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.2
Nominal power [W]: 6.7	Colour temperature [K]: 3000
Nominal luminous [Lm]: 1100	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: /	MacAdam Step: 3

Polar

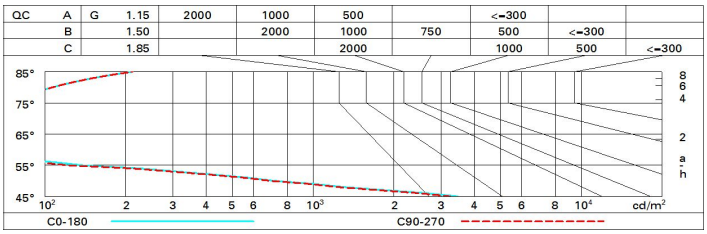


CIE
nL 0.88
93-100-100-100-88
UGR 16.6-16.6
DIN
A.61
UTE
0.88A+0.00T
F"1=930
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<500 cd/m² at 65°
BZ1

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	77	72	69	66	71	68	68	64	73
1.0	81	76	73	71	75	73	72	69	79
1.5	86	82	80	78	81	79	78	75	86
2.0	89	86	84	83	85	83	82	80	91
2.5	90	89	87	86	87	86	85	82	94
3.0	92	90	89	88	89	88	87	84	96
4.0	93	92	91	90	90	89	88	86	98
5.0	93	93	92	91	91	90	89	87	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 1100 lm bare lamp luminous flux)

Riflect.: ceil/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				viewed crosswise					viewed endwise		
x	y										
2H	2H	17.2	17.8	17.4	18.0	18.3	17.2	17.8	17.4	18.0	18.3
	3H	17.0	17.6	17.3	17.9	18.1	17.0	17.6	17.3	17.9	18.1
	4H	17.0	17.5	17.3	17.8	18.1	16.9	17.5	17.3	17.8	18.1
	6H	16.9	17.4	17.2	17.7	18.0	16.9	17.4	17.2	17.7	18.0
	8H	16.8	17.3	17.2	17.6	18.0	16.8	17.3	17.2	17.6	18.0
	12H	16.8	17.2	17.2	17.6	17.9	16.8	17.2	17.2	17.6	17.9
4H	2H	17.0	17.5	17.3	17.8	18.1	16.9	17.5	17.3	17.8	18.1
	3H	16.8	17.2	17.2	17.6	17.9	16.8	17.2	17.2	17.6	17.9
	4H	16.7	17.1	17.1	17.5	17.9	16.7	17.1	17.1	17.5	17.8
	6H	16.6	17.0	17.1	17.4	17.8	16.6	17.0	17.0	17.4	17.8
	8H	16.6	16.9	17.0	17.3	17.7	16.6	16.9	17.0	17.3	17.7
	12H	16.5	16.8	17.0	17.2	17.7	16.5	16.8	17.0	17.2	17.7
8H	4H	16.6	16.9	17.0	17.3	17.7	16.6	16.9	17.0	17.3	17.7
	6H	16.5	16.7	17.0	17.2	17.7	16.5	16.7	16.9	17.2	17.7
	8H	16.4	16.7	16.9	17.1	17.6	16.4	16.6	16.9	17.1	17.6
	12H	16.4	16.6	16.9	17.1	17.6	16.4	16.6	16.9	17.0	17.6
12H	4H	16.5	16.8	17.0	17.2	17.7	16.5	16.8	17.0	17.2	17.7
	6H	16.4	16.7	16.9	17.1	17.6	16.4	16.6	16.9	17.1	17.6
	8H	16.4	16.6	16.9	17.1	17.6	16.4	16.6	16.9	17.0	17.6

Variations with the observer position at spacing:

S =			
	1.0H	4.5 / -23.0	4.6 / -23.1
	1.5H	6.1 / -24.6	6.2 / -24.6
	2.0H	8.1 / -24.8	8.2 / -24.8