# Reflex

**Design iGuzzini** **iGuzzini**

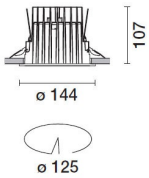
Last information update: May 2018

**Fixed circular recessed luminaire - Ø125 mm - neutral white - flood optic - UGR<19**

**Product code**
N000

**Technical description**
Fixed round luminaire designed to use a LED lamp with C.O.B. technology. 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 LED lamp in neutral white colour tone (4,000K). General light emission, with controlled luminance UGR<19 1500 cd/m2 α>65° flood optic.

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




**Dimension (mm)**
Ø144x107

**Colour**
White/Aluminium (39)

**Weight (Kg)**
1.02

**Mounting**
ceiling recessed

**Wiring**
product complete with DALI components

Complies with EN60598-1 and pertinent regulations

IP20 IP54 On the visible part of the product once installed

**Product configuration: N000**

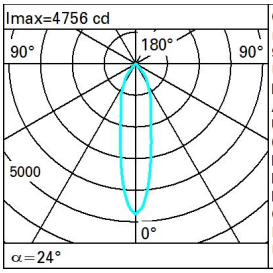
**Product characteristics**

| | |
|---|---|
| Total lighting output [Lm]: 1757 | Total luminous flux at or above an angle of 90° [Lm]: 0 |
| Total power [W]: 14.7 | Emergency luminous flux [Lm]: / |
| Luminous efficacy [Lm/W]: 119.5 | 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]: 1.7 |
| Nominal power [W]: 13 | Colour temperature [K]: 4000 |
| Nominal luminous [Lm]: 2000 | CRI: 80 |
| Lamp maximum intensity [cd]: / | Wavelength [Nm]: / |
| Beam angle [°]: 24° | MacAdam Step: 2 |

**Polar**




**CIE**
nL 0.88
98-100-100-100-88
UGR 16.9-16.9
**DIN**
A.61
**UTE**
0.88A+0.00T
F"1=978
F"1+F"2=999
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<19 | L<1500 cd/mq @65°

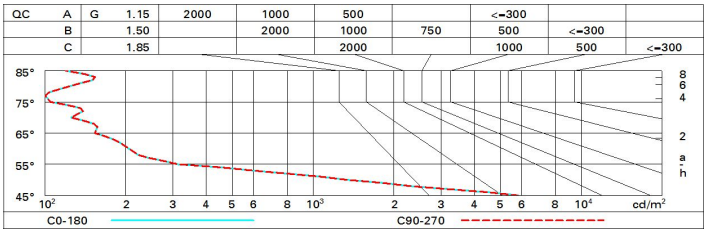
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 2 | 0.9 | 899 | 1189 |
| 4 | 1.7 | 225 | 297 |
| 6 | 2.6 | 100 | 132 |
| 8 | 3.4 | 56 | 74 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 79 | 74 | 71 | 69 | 74 | 71 | 70 | 68 | 77 |
| 1.0 | 82 | 78 | 76 | 73 | 77 | 75 | 75 | 72 | 82 |
| 1.5 | 86 | 84 | 81 | 79 | 83 | 81 | 80 | 77 | 88 |
| 2.0 | 89 | 87 | 85 | 84 | 86 | 84 | 83 | 81 | 92 |
| 2.5 | 91 | 89 | 88 | 87 | 88 | 87 | 86 | 84 | 95 |
| 3.0 | 92 | 91 | 90 | 89 | 89 | 89 | 88 | 85 | 97 |
| 4.0 | 93 | 92 | 92 | 91 | 91 | 90 | 89 | 87 | 99 |
| 5.0 | 94 | 93 | 93 | 92 | 92 | 91 | 90 | 88 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 2000 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 | 17.5 | 18.1 | 17.8 | 18.4 | 18.6 | 17.5 | 18.1 | 17.8 | 18.4 | 18.6 |
| | 3H | 17.3 | 17.9 | 17.6 | 18.2 | 18.5 | 17.3 | 17.9 | 17.6 | 18.2 | 18.5 |
| | 4H | 17.3 | 17.8 | 17.6 | 18.1 | 18.4 | 17.3 | 17.8 | 17.6 | 18.1 | 18.4 |
| | 6H | 17.2 | 17.7 | 17.5 | 18.0 | 18.3 | 17.2 | 17.7 | 17.5 | 18.0 | 18.3 |
| | 8H | 17.1 | 17.6 | 17.5 | 18.0 | 18.3 | 17.1 | 17.6 | 17.5 | 18.0 | 18.3 |
| | 12H | 17.1 | 17.6 | 17.5 | 17.9 | 18.3 | 17.1 | 17.6 | 17.5 | 17.9 | 18.3 |
| 4H | 2H | 17.3 | 17.8 | 17.6 | 18.1 | 18.4 | 17.3 | 17.8 | 17.6 | 18.1 | 18.4 |
| | 3H | 17.1 | 17.6 | 17.5 | 17.9 | 18.3 | 17.1 | 17.6 | 17.5 | 17.9 | 18.3 |
| | 4H | 17.0 | 17.4 | 17.4 | 17.8 | 18.2 | 17.0 | 17.4 | 17.4 | 17.8 | 18.2 |
| | 6H | 16.9 | 17.3 | 17.4 | 17.7 | 18.1 | 16.9 | 17.3 | 17.4 | 17.7 | 18.1 |
| | 8H | 16.9 | 17.2 | 17.3 | 17.6 | 18.1 | 16.9 | 17.2 | 17.3 | 17.6 | 18.1 |
| | 12H | 16.8 | 17.1 | 17.3 | 17.6 | 18.0 | 16.8 | 17.1 | 17.3 | 17.6 | 18.0 |
| 8H | 4H | 16.9 | 17.2 | 17.3 | 17.6 | 18.1 | 16.9 | 17.2 | 17.3 | 17.6 | 18.1 |
| | 6H | 16.8 | 17.1 | 17.3 | 17.5 | 18.0 | 16.8 | 17.1 | 17.3 | 17.5 | 18.0 |
| | 8H | 16.7 | 17.0 | 17.2 | 17.4 | 17.9 | 16.7 | 17.0 | 17.2 | 17.4 | 17.9 |
| | 12H | 16.7 | 16.9 | 17.2 | 17.4 | 17.9 | 16.7 | 16.9 | 17.2 | 17.4 | 17.9 |
| 12H | 4H | 16.8 | 17.1 | 17.3 | 17.6 | 18.0 | 16.8 | 17.1 | 17.3 | 17.6 | 18.0 |
| | 6H | 16.7 | 17.0 | 17.2 | 17.4 | 17.9 | 16.7 | 17.0 | 17.2 | 17.4 | 17.9 |
| | 8H | 16.7 | 16.9 | 17.2 | 17.4 | 17.9 | 16.7 | 16.9 | 17.2 | 17.4 | 17.9 |

Variations with the observer position at spacing:

| | | | |
|---|---|---|---|
| S = | 1.0H | 4.4 / -24.6 | 4.4 / -24.6 |
| | 1.5H | 7.2 / -25.8 | 7.2 / -25.8 |
| | 2.0H | 9.2 / -26.2 | 9.2 / -26.2 |