# Reflex

**Design iGuzzini** **iGuzzini**

Last information update: May 2024

**Product configuration: N072**
N072: adjustable luminaire - Ø 96 mm - neutral white - flood optic - frame

**Product code**
N072: adjustable luminaire - Ø 96 mm - neutral white - flood optic - frame **Attention! Code no longer in production**

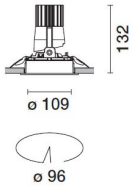
**Technical description**
Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a neutral white colour tone 4,000K (CRI 80). Version with rim for surface-mounting. Painted, die-cast aluminium body. Lower reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

**Installation**
Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 25 mm.

**Colour**
White / Aluminium (39)

**Weight (Kg)**
0.49

**Mounting**
ceiling recessed




**Wiring**
Product complete with electronic components

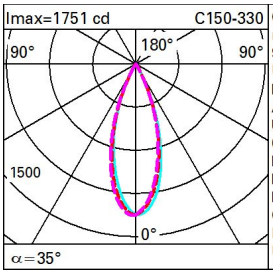
Complies with EN60598-1 and pertinent regulations

IP20 IP23

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 619 | CRI (minimum): | 80 |
| W system: | 12.7 | Colour temperature [K]: | 4000 |
| lm source: | 1550 | MacAdam Step: | 2 |
| W source: | 9.8 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 48.7 | Lamp code: | LED |
| lm in emergency mode: | - | Number of lamps for optical assembly: | 1 |
| Total light flux at or above an angle of 90° [Lm]: | 0 | ZVEI Code: | LED |
| Light Output Ratio (L.O.R.) [%]: | 40 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 35° | | |

**Polar**




**CIE**
nL 0.40
99-100-100-100-40
UGR <10-<10
**DIN**
A.61
**UTE**
0.40A+0.00T
F"1=991
F"1+F"2=999
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<10 I L<1500 cd/mq @65°

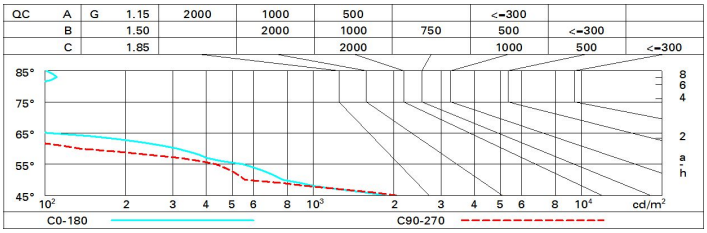
Lux

| h | d1 | d2 | Em | Emax |
|---|---|---|---|---|
| 2 | 1.3 | 1.3 | 335 | 437 |
| 4 | 2.5 | 2.5 | 84 | 109 |
| 6 | 3.8 | 3.8 | 37 | 49 |
| 8 | 5 | 5 | 21 | 27 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 36 | 34 | 33 | 32 | 34 | 33 | 32 | 31 | 78 |
| 1.0 | 38 | 36 | 35 | 34 | 35 | 34 | 34 | 33 | 82 |
| 1.5 | 39 | 38 | 37 | 36 | 38 | 37 | 36 | 35 | 88 |
| 2.0 | 41 | 40 | 39 | 38 | 39 | 39 | 38 | 37 | 93 |
| 2.5 | 41 | 41 | 40 | 40 | 40 | 40 | 39 | 38 | 96 |
| 3.0 | 42 | 41 | 41 | 41 | 41 | 40 | 40 | 39 | 98 |
| 4.0 | 42 | 42 | 42 | 42 | 41 | 41 | 41 | 40 | 99 |
| 5.0 | 43 | 42 | 42 | 42 | 42 | 42 | 41 | 40 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 1550 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 | 4.3 | 4.8 | 4.5 | 5.1 | 5.3 | 4.7 | 5.2 | 5.0 | 5.5 | 5.7 |
| | 3H | 4.1 | 4.6 | 4.5 | 4.9 | 5.2 | 4.6 | 5.1 | 4.9 | 5.3 | 5.6 |
| | 4H | 4.1 | 4.5 | 4.4 | 4.8 | 5.1 | 4.5 | 4.9 | 4.8 | 5.2 | 5.5 |
| | 6H | 4.0 | 4.4 | 4.3 | 4.7 | 5.1 | 4.4 | 4.8 | 4.8 | 5.1 | 5.5 |
| | 8H | 4.0 | 4.4 | 4.3 | 4.7 | 5.0 | 4.4 | 4.8 | 4.7 | 5.1 | 5.4 |
| | 12H | 3.9 | 4.3 | 4.3 | 4.7 | 5.0 | 4.3 | 4.7 | 4.7 | 5.1 | 5.4 |
| 4H | 2H | 4.1 | 4.5 | 4.4 | 4.8 | 5.1 | 4.5 | 4.9 | 4.8 | 5.2 | 5.5 |
| | 3H | 3.9 | 4.3 | 4.3 | 4.7 | 5.0 | 4.3 | 4.7 | 4.7 | 5.1 | 5.4 |
| | 4H | 3.8 | 4.2 | 4.2 | 4.6 | 4.9 | 4.2 | 4.6 | 4.6 | 5.0 | 5.3 |
| | 6H | 3.8 | 4.1 | 4.2 | 4.5 | 4.9 | 4.2 | 4.5 | 4.6 | 4.9 | 5.3 |
| | 8H | 3.7 | 4.0 | 4.2 | 4.4 | 4.8 | 4.1 | 4.4 | 4.5 | 4.8 | 5.2 |
| | 12H | 3.7 | 3.9 | 4.1 | 4.4 | 4.8 | 4.1 | 4.3 | 4.5 | 4.7 | 5.2 |
| 8H | 4H | 3.7 | 4.0 | 4.2 | 4.4 | 4.8 | 4.1 | 4.4 | 4.6 | 4.8 | 5.2 |
| | 6H | 3.6 | 3.9 | 4.1 | 4.3 | 4.8 | 4.0 | 4.3 | 4.5 | 4.7 | 5.2 |
| | 8H | 3.6 | 3.8 | 4.1 | 4.2 | 4.7 | 4.0 | 4.2 | 4.5 | 4.6 | 5.1 |
| | 12H | 3.5 | 3.7 | 4.0 | 4.2 | 4.7 | 3.9 | 4.1 | 4.4 | 4.6 | 5.1 |
| 12H | 4H | 3.7 | 3.9 | 4.1 | 4.3 | 4.8 | 4.1 | 4.3 | 4.5 | 4.7 | 5.2 |
| | 6H | 3.6 | 3.8 | 4.1 | 4.2 | 4.7 | 4.0 | 4.2 | 4.5 | 4.6 | 5.1 |
| | 8H | 3.5 | 3.7 | 4.0 | 4.2 | 4.7 | 3.9 | 4.1 | 4.4 | 4.6 | 5.1 |

Variations with the observer position at spacing:

| | | | |
|---|---|---|---|
| S = | 1.0H | 5.3 / -10.0 | 5.0 / -11.3 |
| | 1.5H | 8.0 / -12.5 | 7.8 / -17.1 |
| | 2.0H | 10.0 / -15.8 | 9.8 / -17.3 |