# Reflex

**Design iGuzzini** **iGuzzini**

Last information update: October 2024

**Product configuration: Q164**
Q164: Fixed circular recessed luminaire - Ø125 mm - warm white - wide flood optic - UGR<19

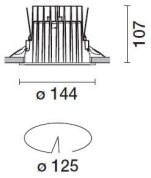
**Product code**
Q164: Fixed circular recessed luminaire - Ø125 mm - warm white - wide flood optic - UGR<19

**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 warm white colour tone (3000K). General light emission, with controlled luminance UGR<19 1500 cd/m2 α>65° wide flood optic.

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

**Colour**
White / Aluminium (39)

**Mounting**
ceiling recessed




**Wiring**
product complete with TRIAC components

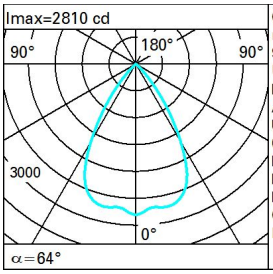
Complies with EN60598-1 and pertinent regulations

IP20 IP54 On the visible part of the product once installed

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 2833 | CRI (minimum): | 80 |
| W system: | 27.5 | Colour temperature [K]: | 3000 |
| lm source: | 3500 | MacAdam Step: | 2 |
| W source: | 25 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 103 | 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.) [%]: | 81 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 64° | Control: | TRIAC |

**Polar**




**CIE**
nL 0.81
96-100-100-100-81
UGR 20.0-20.0
**DIN**
A.61
**UTE**
0.81A+0.00T
F"1=961
F"1+F"2=1000
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°

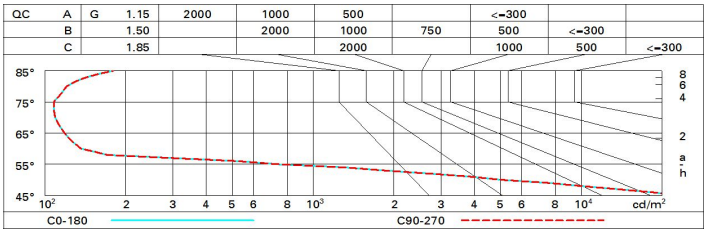
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 2 | 2.5 | 537 | 702 |
| 4 | 5 | 134 | 176 |
| 6 | 7.5 | 60 | 78 |
| 8 | 10 | 34 | 44 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 72 | 68 | 65 | 63 | 67 | 64 | 64 | 61 | 76 |
| 1.0 | 75 | 72 | 69 | 67 | 71 | 68 | 68 | 65 | 81 |
| 1.5 | 79 | 77 | 74 | 73 | 76 | 74 | 73 | 70 | 87 |
| 2.0 | 82 | 80 | 78 | 77 | 79 | 77 | 77 | 74 | 92 |
| 2.5 | 84 | 82 | 81 | 80 | 81 | 80 | 79 | 77 | 95 |
| 3.0 | 85 | 84 | 83 | 82 | 82 | 81 | 80 | 78 | 97 |
| 4.0 | 86 | 85 | 84 | 84 | 83 | 83 | 82 | 80 | 98 |
| 5.0 | 86 | 86 | 85 | 85 | 84 | 84 | 82 | 80 | 99 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 3500 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 | 20.5 | 21.1 | 20.8 | 21.4 | 21.6 | 20.5 | 21.1 | 20.8 | 21.4 | 21.6 |
| | 3H | 20.4 | 20.9 | 20.7 | 21.2 | 21.5 | 20.4 | 20.9 | 20.7 | 21.2 | 21.5 |
| | 4H | 20.3 | 20.8 | 20.7 | 21.1 | 21.4 | 20.3 | 20.8 | 20.7 | 21.1 | 21.4 |
| | 6H | 20.3 | 20.7 | 20.6 | 21.0 | 21.3 | 20.3 | 20.7 | 20.6 | 21.0 | 21.3 |
| | 8H | 20.2 | 20.7 | 20.6 | 21.0 | 21.3 | 20.2 | 20.7 | 20.6 | 21.0 | 21.3 |
| | 12H | 20.2 | 20.6 | 20.6 | 20.9 | 21.3 | 20.2 | 20.6 | 20.6 | 20.9 | 21.3 |
| 4H | 2H | 20.3 | 20.8 | 20.7 | 21.1 | 21.4 | 20.3 | 20.8 | 20.7 | 21.1 | 21.4 |
| | 3H | 20.2 | 20.6 | 20.6 | 20.9 | 21.3 | 20.2 | 20.6 | 20.6 | 20.9 | 21.3 |
| | 4H | 20.1 | 20.5 | 20.5 | 20.8 | 21.2 | 20.1 | 20.5 | 20.5 | 20.8 | 21.2 |
| | 6H | 20.0 | 20.3 | 20.4 | 20.7 | 21.1 | 20.0 | 20.3 | 20.4 | 20.7 | 21.1 |
| | 8H | 20.0 | 20.3 | 20.4 | 20.7 | 21.1 | 20.0 | 20.3 | 20.4 | 20.7 | 21.1 |
| | 12H | 19.9 | 20.2 | 20.4 | 20.6 | 21.1 | 19.9 | 20.2 | 20.4 | 20.6 | 21.1 |
| 8H | 4H | 20.0 | 20.3 | 20.4 | 20.7 | 21.1 | 20.0 | 20.3 | 20.4 | 20.7 | 21.1 |
| | 6H | 19.9 | 20.1 | 20.3 | 20.5 | 21.0 | 19.9 | 20.1 | 20.3 | 20.5 | 21.0 |
| | 8H | 19.8 | 20.0 | 20.3 | 20.5 | 21.0 | 19.8 | 20.0 | 20.3 | 20.5 | 21.0 |
| | 12H | 19.8 | 19.9 | 20.3 | 20.4 | 20.9 | 19.8 | 19.9 | 20.3 | 20.4 | 20.9 |
| 12H | 4H | 19.9 | 20.2 | 20.4 | 20.6 | 21.1 | 19.9 | 20.2 | 20.4 | 20.6 | 21.1 |
| | 6H | 19.8 | 20.0 | 20.3 | 20.5 | 21.0 | 19.8 | 20.0 | 20.3 | 20.5 | 21.0 |
| | 8H | 19.8 | 19.9 | 20.3 | 20.4 | 20.9 | 19.8 | 19.9 | 20.3 | 20.4 | 20.9 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 4.7 / -26.2 | 4.7 / -26.2 |
| | 1.5H | 7.5 / -31.2 | 7.5 / -31.2 |
| | 2.0H | 9.5 / -31.4 | 9.5 / -31.4 |