Design iGuzzini

iGuzzini

Last information update: October 2024

## Product configuration: Q046

Q046: Fixed circular recessed luminaire - Ø 96 mm - warm white - wide flood optic - UGR<19



### Product code

Q046: Fixed circular recessed luminaire - Ø 96 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 CRI 90 (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 1-10V components



IP20



On the visible part of the product once installed







Complies with EN60598-1 and pertinent regulations

ø 109

ø 96

Technical data Im system: W system:

W source: 12

Im in emergency mode: Total light flux at or above

[%]:

1221 14 1650 Im source: Luminous efficiency (lm/W, 87.2 real value): an angle of 90° [Lm]: Light Output Ratio (L.O.R.) 74 Beam angle [°]: 44°

CRI (minimum): 90 Colour temperature [K]: 3000 MacAdam Step: 2 Life Time LED 1: > 50,000h - L90 - B10 (Ta 25°C) Lamp code: Number of lamps for optical 1 assembly: ZVEI Code: LED

Number of optical assemblies:

Control: 1-10V

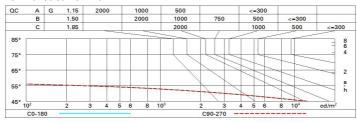
## Polar

| lmax=1936 cd |  | Lux              |     |     |      |
|--------------|--|------------------|-----|-----|------|
| 90° 180° 90° | nL 0.74<br>97-100-100-100-74<br>UGR 17.2-17.2      | h                | d   | Em  | Emax |
|              | <b>DIN</b><br>A.61                                 | 2                | 1.6 | 392 | 484  |
|              | UTE<br>0.74A+0.00T<br>F"1=972                      | 4                | 3.2 | 98  | 121  |
| 2000         | F"1+F"2=1000<br>F"1+F"2+F"3=1000<br>CIBSE          | 6                | 4.8 | 44  | 54   |
| α=44°        | LG3 L<1500 cd/m² at 65°<br>UGR<19   L<1500 cd/mq @ | <sub>65°</sub> 8 | 6.5 | 24  | 30   |

# **Utilisation factors**

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 66 | 62 | 60 | 58 | 62 | 59 | 59 | 57 | 76  |
| 1.0  | 69 | 66 | 63 | 62 | 65 | 63 | 63 | 60 | 81  |
| 1.5  | 73 | 70 | 68 | 67 | 69 | 68 | 67 | 65 | 87  |
| 2.0  | 75 | 73 | 72 | 71 | 72 | 71 | 70 | 68 | 92  |
| 2.5  | 77 | 75 | 74 | 73 | 74 | 73 | 72 | 70 | 95  |
| 3.0  | 77 | 77 | 76 | 75 | 75 | 75 | 74 | 72 | 97  |
| 4.0  | 78 | 78 | 77 | 77 | 76 | 76 | 75 | 73 | 99  |
| 5.0  | 79 | 78 | 78 | 78 | 77 | 77 | 76 | 74 | 100 |

# Luminance curve limit



| Corre                       | ected UC | R value     | at 165  | Im bare | e lamp lu | eu oni mu | flux)       |      |      |      |      |
|-----------------------------|----------|-------------|---------|---------|-----------|-----------|-------------|------|------|------|------|
| Rifle                       | ct.:     |             |         |         |           |           |             |      |      |      |      |
| 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.<br>Room dim<br>x y |          | 0.20        | 0.20    | 0.20    | 0.20      | 0.20      | 0.20        | 0.20 | 0.20 | 0.20 | 0.20 |
|                             |          |             | viewed  |         | viewed    |           |             |      |      |      |      |
|                             |          | crosswise   |         |         |           |           | endwise     |      |      |      |      |
| 2H                          | 2H       | 17.8        | 18.4    | 18.0    | 18.7      | 18.9      | 17.8        | 18.4 | 18.0 | 18.7 | 18.  |
|                             | ЗН       | 17.6        | 18.2    | 17.9    | 18.5      | 18.8      | 17.6        | 18.2 | 17.9 | 18.5 | 18.  |
|                             | 4H       | 17.6        | 18.1    | 17.9    | 18.4      | 18.7      | 17.6        | 18.1 | 17.9 | 18.4 | 18.  |
|                             | бН       | 17.5        | 18.0    | 17.8    | 18.3      | 18.6      | 17.5        | 18.0 | 17.8 | 18.3 | 18.  |
|                             | HS       | 17.4        | 17.9    | 17.8    | 18.3      | 18.6      | 17.4        | 17.9 | 17.8 | 18.3 | 18.  |
|                             | 12H      | 17.4        | 17.9    | 17.8    | 18.2      | 18.6      | 17.4        | 17.9 | 17.8 | 18.2 | 18.  |
| 4H                          | 2H       | 17.6        | 18.1    | 17.9    | 18.4      | 18.7      | 17.6        | 18.1 | 17.9 | 18.4 | 18.  |
|                             | ЗН       | 17.4        | 17.9    | 17.8    | 18.2      | 18.6      | 17.4        | 17.9 | 17.8 | 18.2 | 18.  |
|                             | 4H       | 17.3        | 17.7    | 17.7    | 18.1      | 18.5      | 17.3        | 17.7 | 17.7 | 18.1 | 18.  |
|                             | бН       | 17.2        | 17.6    | 17.6    | 18.0      | 18.4      | 17.2        | 17.6 | 17.6 | 18.0 | 18.  |
|                             | HS       | 17.2        | 17.5    | 17.6    | 17.9      | 18.4      | 17.2        | 17.5 | 17.6 | 17.9 | 18.  |
|                             | 12H      | 17.1        | 17.4    | 17.6    | 17.9      | 18.3      | 17.1        | 17.4 | 17.6 | 17.9 | 18.  |
| вн                          | 4H       | 17.2        | 17.5    | 17.6    | 17.9      | 18.4      | 17.2        | 17.5 | 17.6 | 17.9 | 18.  |
|                             | бН       | 17.1        | 17.4    | 17.6    | 17.8      | 18.3      | 17.1        | 17.4 | 17.6 | 17.8 | 18.  |
|                             | HS       | 17.0        | 17.3    | 17.5    | 17.7      | 18.2      | 17.0        | 17.3 | 17.5 | 17.7 | 18.  |
|                             | 12H      | 17.0        | 17.2    | 17.5    | 17.7      | 18.2      | 17.0        | 17.2 | 17.5 | 17.7 | 18.  |
| 12H                         | 4H       | 17.1        | 17.4    | 17.6    | 17.9      | 18.3      | 17.1        | 17.4 | 17.6 | 17.9 | 18.  |
|                             | бН       | 17.0        | 17.3    | 17.5    | 17.7      | 18.2      | 17.0        | 17.3 | 17.5 | 17.7 | 18.  |
|                             | H8       | 17.0        | 17.2    | 17.5    | 17.7      | 18.2      | 17.0        | 17.2 | 17.5 | 17.7 | 18.  |
| Varia                       | tions wi | th the ob   | serverp | osition | at spacin | g:        |             |      |      |      |      |
| S =                         | 1.0H     | 4.4 / -31.1 |         |         |           |           | 4.4 / -31.1 |      |      |      |      |
|                             | 1.5H     | 7.2 / -38.8 |         |         |           |           | 7.2 / -38.8 |      |      |      |      |
|                             | 2.0H     | 9.2 / -39.6 |         |         |           |           | 9.2 / -39.6 |      |      |      |      |