

Last information update: November 2024

Product configuration: Q421+Q452.12

Q421: Frame initial moduleDown Office / Working UGR < 19L 1208

Q452.12: Plate - Down Office / Working UGR < 19 - Warm LED - L 1196 - Aluminium

**Product code**

Q421: Frame initial moduleDown Office / Working UGR < 19L 1208

Technical description

Initial profile in extruded aluminium - Frame version with contact frame; micro-prismatic screen for controlled luminance emission UGR < 19 - 3000 cd/m2 (working lighting); screen set up for connecting several lengths by overlapping.

Installation

Recessed using the brackets on the profile. The initial modules can be used individually if completed with accessory caps and the required LED module.

Colour

White (01)* | Aluminium (12)*

Weight (Kg)

3.2

* Colours on request

Mounting

ceiling recessed

Wiring

Set up to house the LED modules required by the system.

Notes

Take care with the system configuration. To make continuous lines of lighting, use the intermediate modules. To complete a continuous line correctly there must always be an initial module at the start or end of the composition.

TPb rated. TPa version available on request, contact iGuzzini for more info

Complies with EN60598-1 and pertinent regulations

**Product code**

Q452.12: Plate - Down Office / Working UGR < 19 - Warm LED - L 1196 - Aluminium **Attention! Code no longer in production**

Technical description

LED module set up for housing in initial or intermediate system profiles with screen for controlled luminance - down emission. Electronic control gear integrated in the luminaire. Extruded aluminium heat sink; high emission yield flux enhancer. Warm LED.

Installation

Module insertion on profiles facilitated by a quick coupling system.

Colour

Indeterminate (00) | White (01)

Weight (Kg)

1.37

Wiring

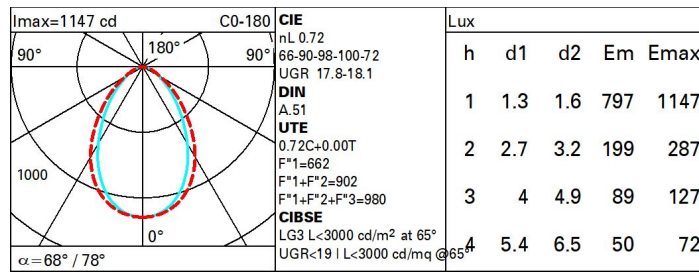
Quick coupling terminal block connection to simplify connections between the luminaires. LED module complete with integrated control gear.

Complies with EN60598-1 and pertinent regulations

**Technical data**

| | | | |
|--|------|---------------------------------------|---------------------------------|
| Im system: | 1836 | Colour temperature [K]: | 3000 |
| W system: | 16.1 | MacAdam Step: | 3 |
| Im source: | 2550 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W source: | 14 | Voltage [Vin]: | 230 |
| Luminous efficiency (Im/W, real value): | 114 | Lamp code: | LED |
| Im 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.) [%]: | 72 | Number of optical assemblies: | 1 |
| CRI (minimum): | 80 | | |

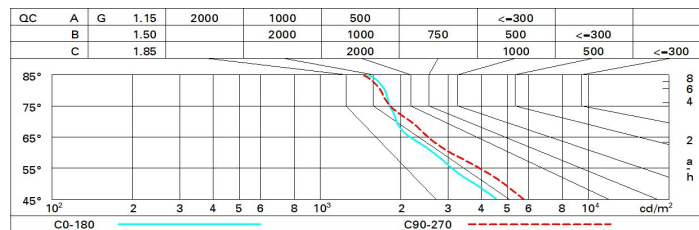
Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 54 | 47 | 43 | 40 | 47 | 43 | 42 | 38 | 53 |
| 1.0 | 58 | 52 | 48 | 45 | 51 | 48 | 47 | 43 | 60 |
| 1.5 | 64 | 60 | 56 | 53 | 59 | 56 | 55 | 51 | 71 |
| 2.0 | 68 | 64 | 61 | 59 | 63 | 61 | 60 | 56 | 78 |
| 2.5 | 70 | 67 | 65 | 63 | 66 | 64 | 63 | 60 | 83 |
| 3.0 | 71 | 69 | 67 | 65 | 68 | 66 | 65 | 62 | 86 |
| 4.0 | 73 | 71 | 70 | 68 | 70 | 68 | 67 | 64 | 89 |
| 5.0 | 74 | 72 | 71 | 70 | 71 | 70 | 69 | 66 | 91 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 2550 lm bare lamp luminous flux) | | | | | | | | | | | | |
|--|-----|---------------------|------------|------|------------|------|-------------------|------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.30 |
| | | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.30 |
| | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| | | viewed crosswise | | | | | viewed endwise | | | | | |
| 2H | 2H | 15.5 | 16.5 | 15.8 | 16.7 | 17.0 | 16.6 | 17.6 | 16.9 | 17.8 | 18.1 | 18.1 |
| | 3H | 16.2 | 17.1 | 16.6 | 17.4 | 17.7 | 16.8 | 17.7 | 17.1 | 18.0 | 18.2 | 18.2 |
| | 4H | 16.6 | 17.4 | 16.9 | 17.7 | 18.0 | 16.8 | 17.7 | 17.2 | 18.0 | 18.3 | 18.3 |
| | 6H | 16.8 | 17.6 | 17.2 | 17.9 | 18.3 | 16.8 | 17.6 | 17.2 | 17.9 | 18.2 | 18.2 |
| | 8H | 16.9 | 17.7 | 17.3 | 18.0 | 18.4 | 16.8 | 17.5 | 17.2 | 17.9 | 18.2 | 18.2 |
| | 12H | 17.0 | 17.7 | 17.4 | 18.1 | 18.4 | 16.8 | 17.5 | 17.1 | 17.8 | 18.2 | 18.2 |
| 4H | 2H | 15.9 | 16.7 | 16.3 | 17.0 | 17.3 | 17.5 | 18.3 | 17.8 | 18.6 | 18.9 | 18.9 |
| | 3H | 16.8 | 17.5 | 17.2 | 17.8 | 18.2 | 17.8 | 18.5 | 18.2 | 18.9 | 19.2 | 19.2 |
| | 4H | 17.2 | 17.8 | 17.6 | 18.2 | 18.6 | 18.0 | 18.6 | 18.4 | 18.9 | 19.3 | 19.3 |
| | 6H | 17.6 | 18.2 | 18.1 | 18.6 | 19.0 | 18.0 | 18.6 | 18.5 | 19.0 | 19.4 | 19.4 |
| | 8H | 17.8 | 18.3 | 18.2 | 18.7 | 19.1 | 18.1 | 18.6 | 18.5 | 19.0 | 19.4 | 19.4 |
| | 12H | 17.9 | 18.3 | 18.3 | 18.8 | 19.2 | 18.1 | 18.5 | 18.5 | 18.9 | 19.4 | 19.4 |
| 8H | 4H | 17.4 | 17.9 | 17.8 | 18.3 | 18.7 | 18.4 | 18.9 | 18.8 | 19.3 | 19.7 | 19.7 |
| | 6H | 17.9 | 18.3 | 18.4 | 18.8 | 19.3 | 18.6 | 19.0 | 19.0 | 19.4 | 19.9 | 19.9 |
| | 8H | 18.1 | 18.5 | 18.6 | 19.0 | 19.5 | 18.6 | 19.0 | 19.1 | 19.5 | 20.0 | 20.0 |
| | 12H | 18.3 | 18.6 | 18.8 | 19.1 | 19.6 | 18.7 | 19.0 | 19.2 | 19.5 | 20.0 | 20.0 |
| 12H | 4H | 17.4 | 17.8 | 17.8 | 18.3 | 18.7 | 18.4 | 18.9 | 18.9 | 19.3 | 19.8 | 19.8 |
| | 6H | 18.0 | 18.3 | 18.4 | 18.8 | 19.3 | 18.7 | 19.0 | 19.1 | 19.5 | 20.0 | 20.0 |
| | 8H | 18.2 | 18.5 | 18.7 | 19.0 | 19.5 | 18.8 | 19.1 | 19.3 | 19.6 | 20.1 | 20.1 |
| Variations with the observer position at spacing: | | | | | | | | | | | | |
| S = | | 1.0H | 0.4 / -0.5 | | 0.3 / -0.4 | | | | | | | |
| | | 1.5H | 0.5 / -1.0 | | 0.7 / -1.2 | | | | | | | |
| | | 2.0H | 1.1 / -1.4 | | 1.6 / -1.6 | | | | | | | |