

Last information update: November 2024

Product configuration: Q428+Q449.12

Q428: Minimal initial moduleDown Office / Working UGR < 19L 2397

Q449.12: Plate - Down Office / Working UGR < 19 - Neutral LED - DALI - L 1196 - Aluminium

**Product code**

Q428: Minimal initial moduleDown Office / Working UGR < 19L 2397

Technical description

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

Installation

Installation can be recessed, surface, ceiling and pendant-mounted using suitable accessories to be ordered separately. The initial modules can be used individually for various applications if completed with accessory caps and the required LED module.

Colour

White (01)* | Aluminium (12)*

Weight (Kg)

5.9

* Colours on request

Mounting

ceiling recessed|wall surface|ceiling surface|ceiling pendant

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**

Q449.12: Plate - Down Office / Working UGR < 19 - Neutral LED - DALI - L 1196 - Aluminium

Technical description

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

Installation

Module insertion on profiles facilitated by a quick coupling system.

Colour

Indeterminate (00)

Weight (Kg)

1.37

Wiring

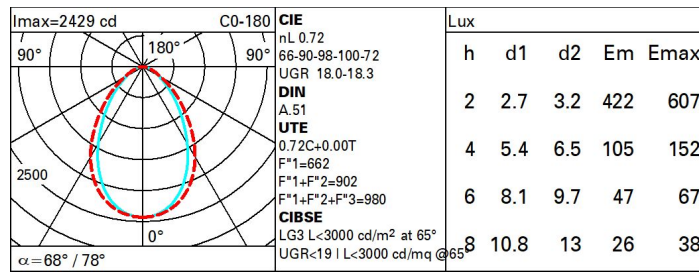
Quick coupling terminal block connection to simplify connections between the luminaires. LED module complete with integrated dimmable DALI control gear.

Complies with EN60598-1 and pertinent regulations

**Technical data**

| | | | |
|--|------|---------------------------------------|---------------------------------|
| lm system: | 3888 | Colour temperature [K]: | 4000 |
| W system: | 31.1 | MacAdam Step: | 3 |
| lm source: | 5400 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W source: | 27 | Voltage [Vin]: | 230 |
| Luminous efficiency (lm/W, real value): | 125 | 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.) [%]: | 72 | Number of optical assemblies: | 1 |
| CRI (minimum): | 80 | | |

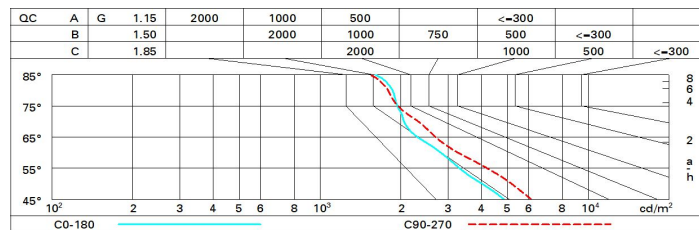
Polar



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 5400 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 | 15.7 | 16.7 | 16.0 | 16.9 | 17.2 | 16.8 | 17.8 | 17.1 | 18.0 | 18.3 | 18.3 |
| | 3H | 16.4 | 17.3 | 16.8 | 17.6 | 17.9 | 17.0 | 17.9 | 17.4 | 18.2 | 18.5 | 18.5 |
| | 4H | 16.8 | 17.6 | 17.1 | 17.9 | 18.2 | 17.1 | 17.9 | 17.4 | 18.2 | 18.5 | 18.5 |
| | 6H | 17.1 | 17.8 | 17.4 | 18.2 | 18.5 | 17.0 | 17.8 | 17.4 | 18.1 | 18.5 | 18.5 |
| | 8H | 17.2 | 17.9 | 17.6 | 18.2 | 18.6 | 17.0 | 17.7 | 17.4 | 18.1 | 18.4 | 18.4 |
| | 12H | 17.2 | 17.9 | 17.6 | 18.3 | 18.6 | 17.0 | 17.7 | 17.4 | 18.0 | 18.4 | 18.4 |
| 4H | 2H | 16.1 | 17.0 | 16.5 | 17.3 | 17.6 | 17.7 | 18.5 | 18.0 | 18.8 | 19.1 | 19.1 |
| | 3H | 17.0 | 17.7 | 17.4 | 18.1 | 18.4 | 18.1 | 18.7 | 18.4 | 19.1 | 19.5 | 19.5 |
| | 4H | 17.4 | 18.1 | 17.9 | 18.4 | 18.8 | 18.2 | 18.8 | 18.6 | 19.2 | 19.6 | 19.6 |
| | 6H | 17.9 | 18.4 | 18.3 | 18.8 | 19.2 | 18.3 | 18.8 | 18.7 | 19.2 | 19.6 | 19.6 |
| | 8H | 18.0 | 18.5 | 18.4 | 18.9 | 19.4 | 18.3 | 18.8 | 18.7 | 19.2 | 19.6 | 19.6 |
| | 12H | 18.1 | 18.5 | 18.6 | 19.0 | 19.4 | 18.3 | 18.7 | 18.7 | 19.2 | 19.6 | 19.6 |
| 8H | 4H | 17.6 | 18.1 | 18.0 | 18.5 | 19.0 | 18.6 | 19.1 | 19.0 | 19.5 | 19.9 | 19.9 |
| | 6H | 18.1 | 18.6 | 18.6 | 19.0 | 19.5 | 18.8 | 19.2 | 19.3 | 19.6 | 20.1 | 20.1 |
| | 8H | 18.4 | 18.7 | 18.9 | 19.2 | 19.7 | 18.9 | 19.2 | 19.4 | 19.7 | 20.2 | 20.2 |
| | 12H | 18.5 | 18.8 | 19.0 | 19.3 | 19.9 | 18.9 | 19.2 | 19.4 | 19.7 | 20.3 | 20.3 |
| 12H | 4H | 17.6 | 18.0 | 18.1 | 18.5 | 18.9 | 18.6 | 19.1 | 19.1 | 19.5 | 20.0 | 20.0 |
| | 6H | 18.2 | 18.5 | 18.7 | 19.0 | 19.5 | 18.9 | 19.2 | 19.4 | 19.7 | 20.2 | 20.2 |
| | 8H | 18.4 | 18.8 | 19.0 | 19.2 | 19.8 | 19.0 | 19.3 | 19.5 | 19.8 | 20.3 | 20.3 |
| 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 | | | | | |