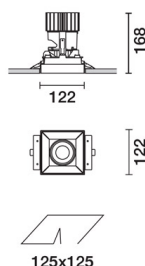


Last information update: May 2018

**Minimal adjustable recessed luminaire - Warm LED - DALI dimmable control gear - Flood****Product code**

P770

Technical description

Recessed luminaire with adjustable optic for Warm White LED lamp. Passive heat dissipation system. The adjustable body can turn in a set-back position in relation to the flush-mounted recessed housing to ensure precise lighting that is extremely comfortable and reduces direct glare significantly. Internal rotation of 358° and a tilting movement of 35° with mechanical locking systems for both movements. False ceiling adapter with bracket system that adapts to the thickness of the panels, and is designed to house flush with ceiling luminaires. A fixed recessed structure in die-cast aluminium. The adjustable unit includes a radiant element in aluminium, with a steel coupling for the optic unit and a thermoplastic rotation locknut. Metallised thermoplastic reflector with a high definition optic. Thermoplastic anti-glare external screen. Transparent glass cover for LED lamp. Supplied with a dimmable DALI ballast unit connected to the luminaire.

Installation

Recessed with steel torsion springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter for securing to false ceiling (between 12.5 mm and 25 mm thick) - screws not included, with subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation hole 125 x 125 mm.

Dimension (mm)

119x119x160

Colour

White (01) | Black (04)

Weight (Kg)

1.2

Mounting

ceiling recessed

Wiring

Quick-coupling connections on the ballast unit terminal block - Digital electronic cabling that allows dimming to be performed with DALI protocol or pushbutton systems (TOUCH DIM)

Notes

Technical and decorative accessories available; with the option of installing two accessories simultaneously. The product has a white finish (01) that maintains its UGR < 19 performance unaltered even when luminance values vary slightly.

Complies with EN60598-1 and pertinent regulations



IP20

IP23

On the visible part of the product once installed



pending

Product configuration: P770.01**Product characteristics**

Total lighting output [Lm]: 1796
Total power [W]: 32.1
Luminous efficacy [Lm/W]: 56
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

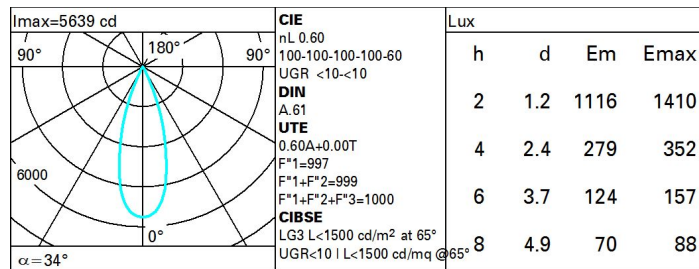
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 60
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 29
Nominal luminous [Lm]: 3000
Lamp maximum intensity [cd]: /
Beam angle [°]: 34°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.1
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

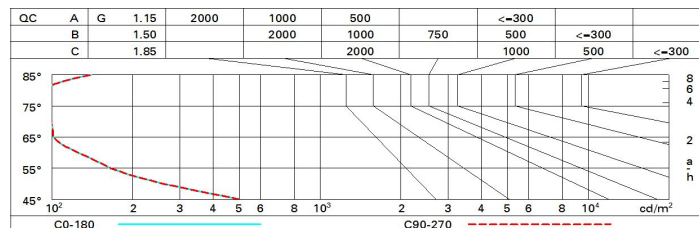
Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 54 | 51 | 49 | 48 | 51 | 49 | 49 | 47 | 78 |
| 1.0 | 56 | 54 | 52 | 51 | 53 | 52 | 51 | 50 | 83 |
| 1.5 | 59 | 57 | 56 | 55 | 57 | 55 | 55 | 53 | 89 |
| 2.0 | 61 | 60 | 59 | 58 | 59 | 58 | 57 | 56 | 93 |
| 2.5 | 62 | 61 | 60 | 60 | 60 | 60 | 59 | 57 | 96 |
| 3.0 | 63 | 62 | 62 | 61 | 61 | 61 | 60 | 58 | 98 |
| 4.0 | 64 | 63 | 63 | 62 | 62 | 62 | 61 | 59 | 99 |
| 5.0 | 64 | 64 | 63 | 63 | 63 | 62 | 61 | 60 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 3000 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 | -0.1 | 0.5 | 0.2 | 0.7 | 0.9 | -0.1 | 0.5 | 0.2 | 0.7 | 0.9 | 0.9 |
| | 3H | -0.2 | 0.3 | 0.1 | 0.6 | 0.8 | -0.2 | 0.3 | 0.1 | 0.6 | 0.8 | 0.8 |
| | 4H | -0.2 | 0.2 | 0.1 | 0.5 | 0.8 | -0.2 | 0.2 | 0.1 | 0.5 | 0.8 | 0.8 |
| | 6H | -0.3 | 0.1 | 0.1 | 0.4 | 0.7 | -0.3 | 0.1 | 0.0 | 0.4 | 0.7 | 0.7 |
| | 8H | -0.3 | 0.1 | 0.0 | 0.4 | 0.7 | -0.4 | 0.0 | 0.0 | 0.4 | 0.7 | 0.7 |
| | 12H | -0.3 | 0.0 | 0.0 | 0.4 | 0.7 | -0.4 | -0.0 | -0.0 | 0.3 | 0.7 | 0.7 |
| 4H | 2H | -0.2 | 0.2 | 0.1 | 0.5 | 0.8 | -0.2 | 0.2 | 0.1 | 0.5 | 0.8 | 0.8 |
| | 3H | -0.4 | 0.0 | 0.0 | 0.3 | 0.7 | -0.4 | 0.0 | 0.0 | 0.3 | 0.7 | 0.7 |
| | 4H | -0.4 | -0.1 | -0.0 | 0.3 | 0.6 | -0.4 | -0.1 | -0.0 | 0.3 | 0.6 | 0.6 |
| | 6H | -0.5 | -0.2 | -0.1 | 0.2 | 0.6 | -0.5 | -0.2 | -0.1 | 0.2 | 0.6 | 0.6 |
| | 8H | -0.5 | -0.3 | -0.1 | 0.1 | 0.6 | -0.6 | -0.3 | -0.1 | 0.1 | 0.5 | 0.5 |
| | 12H | -0.6 | -0.3 | -0.1 | 0.1 | 0.6 | -0.6 | -0.4 | -0.2 | 0.1 | 0.5 | 0.5 |
| 8H | 4H | -0.6 | -0.3 | -0.1 | 0.1 | 0.5 | -0.5 | -0.3 | -0.1 | 0.1 | 0.6 | 0.6 |
| | 6H | -0.6 | -0.4 | -0.2 | 0.0 | 0.5 | -0.6 | -0.4 | -0.2 | 0.0 | 0.5 | 0.5 |
| | 8H | -0.7 | -0.5 | -0.2 | -0.0 | 0.5 | -0.7 | -0.5 | -0.2 | -0.0 | 0.5 | 0.5 |
| | 12H | -0.7 | -0.5 | -0.2 | -0.0 | 0.5 | -0.7 | -0.5 | -0.2 | -0.1 | 0.5 | 0.5 |
| 12H | 4H | -0.6 | -0.4 | -0.2 | 0.1 | 0.5 | -0.6 | -0.3 | -0.1 | 0.1 | 0.6 | 0.6 |
| | 6H | -0.7 | -0.5 | -0.2 | -0.0 | 0.5 | -0.6 | -0.5 | -0.2 | 0.0 | 0.5 | 0.5 |
| | 8H | -0.7 | -0.5 | -0.2 | -0.1 | 0.5 | -0.7 | -0.5 | -0.2 | -0.0 | 0.5 | 0.5 |
| Variations with the observer position at spacing: | | | | | | | | | | | | |
| S = | 1.0H | 6.0 / -9.1 | | | | | 6.0 / -9.1 | | | | | |
| | 1.5H | 8.8 / -9.9 | | | | | 8.8 / -9.9 | | | | | |
| | 2.0H | 10.8 / -10.1 | | | | | 10.8 / -10.1 | | | | | |