

Deep Minimal

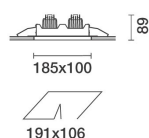
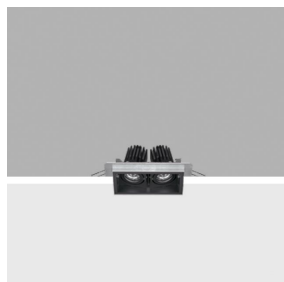
Design iGuzzini

iGuzzini

Last information update: October 2023

Product configuration: P912

P912: Deep Minimal - 2 elements - CoB warm LED - flood beam - dimmable DALI



Product code

P912: Deep Minimal - 2 elements - CoB warm LED - flood beam - dimmable DALI **Attention! Code no longer in production**

Technical description

Two element recessed luminaire for LED lamps. Minimal (frameless) version with no contact frame. Shaped stainless steel sheet structural frame specifically designed for flush with ceiling application using the adapter supplied. Die-cast aluminium, twin swivel universal joints located in a position set back from the installation surface to guarantee a high level of visual comfort. Tilts $\pm 30^\circ$ around both the horizontal and vertical axes. Die-cast aluminium lighting bodies designed to optimise heat dispersal. High efficiency aluminium reflectors - flood angle. High color rendering index, warm white LED lamps. Each lamp unit has its own glass cover. Control gear unit included.

Installation

Recessed in 12.5 mm thick false ceilings. The aluminium adapter is designed for filling, smoothing and finishing the false ceiling before inserting the recessed unit. Steel wire fixing springs. Preparation hole 106 x 191

Colour

White (01) | Black (04)

Mounting

ceiling recessed

Wiring

Complete with DALI dimmable control gear unit connected to the luminaire. Wiring for connecting to mains network on driver terminal board.

Notes

Accessories available: refractor for elliptical flow distribution - interchangeable reflectors - adapter for installation in 15 mm thick false ceilings

Complies with EN60598-1 and pertinent regulations



IP20

IP23

On the visible part of the product once installed



Technical data

| | | | |
|--|------|---------------------------------------|---------------------------------|
| lm system: | 1499 | Colour temperature [K]: | 3000 |
| W system: | 21.5 | MacAdam Step: | 3 |
| lm source: | 950 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| W source: | 8.4 | Ballast losses [W]: | 2.4 |
| Luminous efficiency (lm/W, real value): | 69.7 | 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.) [%]: | 79 | Number of optical assemblies: | 2 |
| Beam angle [°]: | 42° | Control: | DALI |
| CRI (minimum): | 90 | | |

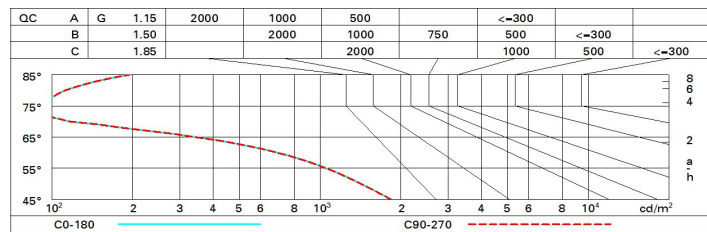
Polar

| | | | | | | |
|-------|--------------|-----------------------------|-------------------|--|------|--|
| | Imax=1639 cd | | CIE | | Lux | |
| | 90° | | nL 0.79 | | h | |
| | 180° | | 99-100-100-100-79 | | d | |
| | 90° | | UGR <10-10 | | Em | |
| | 0° | | DIN | | Emax | |
| α=42° | | A.61 | | | | |
| | | UTE | | | | |
| | | 0.79A+0.00T | | | | |
| | | F*1=991 | | | | |
| | | F*1+F*2=999 | | | | |
| | | F*1+F*2+F*3=1000 | | | | |
| | | CIBSE | | | | |
| | | LG3 L<1500 cd/m² at 65° | | | | |
| | | UGR<10 L<1500 cd/mq @ 65° | | | | |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 71 | 67 | 65 | 63 | 67 | 64 | 64 | 61 | 78 |
| 1.0 | 74 | 71 | 68 | 67 | 70 | 68 | 68 | 65 | 82 |
| 1.5 | 78 | 75 | 73 | 72 | 74 | 73 | 72 | 70 | 88 |
| 2.0 | 80 | 78 | 77 | 76 | 77 | 76 | 75 | 73 | 93 |
| 2.5 | 82 | 80 | 79 | 78 | 79 | 78 | 77 | 75 | 95 |
| 3.0 | 83 | 82 | 81 | 80 | 81 | 80 | 79 | 77 | 98 |
| 4.0 | 84 | 83 | 83 | 82 | 82 | 81 | 80 | 78 | 99 |
| 5.0 | 84 | 84 | 83 | 83 | 82 | 82 | 81 | 79 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 950 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 |
| | | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| | | 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 | 3.6 | 4.2 | 3.9 | 4.4 | 4.7 | 3.6 | 4.2 | 3.9 | 4.4 | 4.7 |
| | 3H | 3.5 | 4.0 | 3.8 | 4.3 | 4.6 | 3.6 | 4.1 | 3.9 | 4.4 | 4.6 |
| | 4H | 3.5 | 3.9 | 3.8 | 4.2 | 4.5 | 3.5 | 4.0 | 3.8 | 4.3 | 4.6 |
| | 6H | 3.4 | 3.8 | 3.7 | 4.1 | 4.5 | 3.4 | 3.9 | 3.8 | 4.2 | 4.5 |
| | 8H | 3.4 | 3.8 | 3.7 | 4.1 | 4.4 | 3.4 | 3.8 | 3.8 | 4.2 | 4.5 |
| | 12H | 3.3 | 3.7 | 3.7 | 4.1 | 4.4 | 3.4 | 3.8 | 3.7 | 4.1 | 4.5 |
| 4H | 2H | 3.5 | 4.0 | 3.8 | 4.3 | 4.6 | 3.5 | 3.9 | 3.8 | 4.2 | 4.5 |
| | 3H | 3.4 | 3.8 | 3.8 | 4.1 | 4.5 | 3.4 | 3.8 | 3.8 | 4.1 | 4.5 |
| | 4H | 3.3 | 3.7 | 3.7 | 4.0 | 4.4 | 3.3 | 3.7 | 3.7 | 4.0 | 4.4 |
| | 6H | 3.2 | 3.5 | 3.7 | 3.9 | 4.4 | 3.2 | 3.5 | 3.7 | 3.9 | 4.4 |
| | 8H | 3.2 | 3.5 | 3.6 | 3.9 | 4.3 | 3.2 | 3.5 | 3.6 | 3.9 | 4.3 |
| | 12H | 3.2 | 3.4 | 3.6 | 3.8 | 4.3 | 3.1 | 3.4 | 3.6 | 3.8 | 4.3 |
| 8H | 4H | 3.2 | 3.5 | 3.6 | 3.9 | 4.3 | 3.2 | 3.5 | 3.6 | 3.9 | 4.3 |
| | 6H | 3.1 | 3.3 | 3.6 | 3.8 | 4.3 | 3.1 | 3.3 | 3.6 | 3.8 | 4.3 |
| | 8H | 3.1 | 3.3 | 3.5 | 3.7 | 4.2 | 3.1 | 3.3 | 3.5 | 3.7 | 4.2 |
| | 12H | 3.0 | 3.2 | 3.5 | 3.7 | 4.2 | 3.0 | 3.2 | 3.5 | 3.7 | 4.2 |
| 12H | 4H | 3.1 | 3.4 | 3.6 | 3.8 | 4.3 | 3.2 | 3.4 | 3.6 | 3.8 | 4.3 |
| | 6H | 3.0 | 3.3 | 3.5 | 3.7 | 4.2 | 3.1 | 3.3 | 3.6 | 3.7 | 4.2 |
| | 8H | 3.0 | 3.2 | 3.5 | 3.7 | 4.2 | 3.0 | 3.2 | 3.5 | 3.7 | 4.2 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 5.3 / -4.9 | | | | | 5.3 / -4.9 | | | | |
| | 1.5H | 8.0 / -7.8 | | | | | 8.0 / -7.8 | | | | |
| | 2.0H | 9.9 / -11.8 | | | | | 9.9 / -11.8 | | | | |