

Laser Pinhole

Design iGuzzini

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multiple adjustable recessed WW

Product code
P434

Technical description

Two-compartment multiple adjustable luminaire designed for housing 3000K Warm White COB LED light sources with high colour rendering and OPTIBEAM reflector made of thermoplastic material. Rim made of white-coated die-cast aluminium incorporating a black-coated thermoplastic component for guaranteeing maximum visual comfort and preventing stray light dispersion. Flood optic. Adjustable internally around the horizontal axis by 35° and around the vertical axis by 358°. The optical compartments can be adjusted individually. Passive cooling system, by means of a black-coated heat sink made of extruded aluminium. The power supply unit is available with a separate code.

Installation

Recessed installation in false ceilings with 1 mm to 20 mm thickness with steel springs.

Dimension (mm)

164x85x101

Colour

White (01)

Mounting

ceiling surface

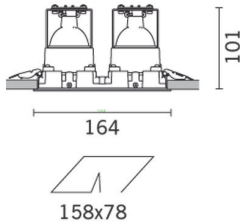
Wiring

Constant-current ballasts available with separate code: ON-OFF / 1-10 V dimmable / phase-cut dimmer / the recessed luminaire is supplied with the cable and connector to be connected to the connector provided on the driver.

Complies with EN60598-1 and pertinent regulations



IP20



Product configuration: P434

Product characteristics

Total lighting output [Lm]: 981
Total power [W]: 20
Luminous efficacy [Lm/W]: 49
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: 2

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 41
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 10
Nominal luminous [Lm]: 1200
Lamp maximum intensity [cd]: /
Beam angle [°]: 26°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 0
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 2

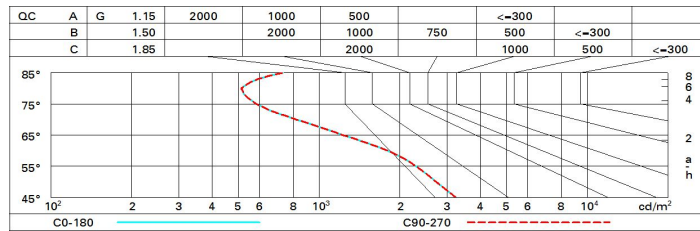
Polar

| Imax=2360 cd | CIE nL 0.41 99-100-100-100-41 UGR <10-<10 DIN A.61 UTE 0.41A+0.00T F*1=990 F*1+F*2=998 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @65° | Lux | | | |
|--------------|---|-----|-----|-----|------|
| | | h | d | Em | Emax |
| 90° | | 2 | 0.9 | 470 | 590 |
| 2500 | | 4 | 1.8 | 117 | 147 |
| | | 6 | 2.8 | 52 | 66 |
| α=26° | | 8 | 3.7 | 29 | 37 |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 37 | 35 | 33 | 32 | 34 | 33 | 33 | 32 | 78 |
| 1.0 | 38 | 37 | 35 | 34 | 36 | 35 | 35 | 34 | 82 |
| 1.5 | 40 | 39 | 38 | 37 | 39 | 38 | 37 | 36 | 88 |
| 2.0 | 42 | 41 | 40 | 39 | 40 | 39 | 39 | 38 | 93 |
| 2.5 | 42 | 42 | 41 | 41 | 41 | 41 | 40 | 39 | 95 |
| 3.0 | 43 | 42 | 42 | 42 | 42 | 41 | 41 | 40 | 97 |
| 4.0 | 43 | 43 | 43 | 42 | 42 | 42 | 41 | 41 | 99 |
| 5.0 | 44 | 43 | 43 | 43 | 43 | 43 | 42 | 41 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 1200 lm bare lamp luminous flux) | | | | | | | | | | | |
|---|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Reflect.: | | viewed crosswise | | | | | viewed endwise | | | | |
| ceill/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. | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Room dim | | viewed crosswise | | | | | viewed endwise | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 2.4 | 4.6 | 2.8 | 4.9 | 5.2 | 2.4 | 4.6 | 2.8 | 4.9 | 5.2 |
| | 3H | 2.7 | 4.3 | 3.1 | 4.7 | 5.0 | 2.6 | 4.3 | 3.0 | 4.6 | 4.9 |
| | 4H | 2.8 | 4.1 | 3.1 | 4.4 | 4.8 | 2.6 | 4.0 | 3.0 | 4.3 | 4.6 |
| | 6H | 2.8 | 3.8 | 3.2 | 4.1 | 4.4 | 2.6 | 3.6 | 3.0 | 3.9 | 4.3 |
| | 8H | 2.8 | 3.7 | 3.2 | 4.1 | 4.4 | 2.6 | 3.6 | 3.0 | 3.9 | 4.3 |
| | 12H | 2.8 | 3.7 | 3.2 | 4.1 | 4.5 | 2.6 | 3.5 | 3.0 | 3.8 | 4.2 |
| 4H | 2H | 2.6 | 4.0 | 3.0 | 4.3 | 4.6 | 2.8 | 4.1 | 3.1 | 4.4 | 4.8 |
| | 3H | 3.0 | 3.9 | 3.4 | 4.3 | 4.7 | 3.0 | 4.0 | 3.4 | 4.3 | 4.7 |
| | 4H | 3.0 | 3.9 | 3.5 | 4.3 | 4.7 | 3.0 | 3.9 | 3.5 | 4.3 | 4.7 |
| | 6H | 2.8 | 4.5 | 3.2 | 4.9 | 5.4 | 2.7 | 4.4 | 3.2 | 4.8 | 5.3 |
| | 8H | 2.7 | 4.6 | 3.2 | 5.1 | 5.6 | 2.6 | 4.5 | 3.1 | 5.0 | 5.5 |
| | 12H | 2.7 | 4.6 | 3.2 | 5.1 | 5.6 | 2.5 | 4.5 | 3.0 | 5.0 | 5.5 |
| 8H | 4H | 2.6 | 4.5 | 3.1 | 5.0 | 5.5 | 2.7 | 4.6 | 3.2 | 5.1 | 5.6 |
| | 6H | 2.6 | 4.4 | 3.1 | 4.9 | 5.5 | 2.7 | 4.5 | 3.2 | 5.0 | 5.5 |
| | 8H | 2.7 | 4.3 | 3.2 | 4.8 | 5.4 | 2.7 | 4.3 | 3.2 | 4.8 | 5.4 |
| | 12H | 2.9 | 4.1 | 3.5 | 4.6 | 5.1 | 2.9 | 4.0 | 3.4 | 4.5 | 5.0 |
| 12H | 4H | 2.5 | 4.5 | 3.0 | 5.0 | 5.5 | 2.7 | 4.6 | 3.2 | 5.1 | 5.6 |
| | 6H | 2.6 | 4.2 | 3.2 | 4.7 | 5.3 | 2.8 | 4.4 | 3.3 | 4.9 | 5.4 |
| | 8H | 2.9 | 4.0 | 3.4 | 4.5 | 5.0 | 2.9 | 4.1 | 3.5 | 4.6 | 5.1 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 0.8 / -0.8 | | | | | 0.8 / -0.8 | | | | |
| | 1.5H | 1.8 / -2.1 | | | | | 1.8 / -2.1 | | | | |
| | 2.0H | 3.1 / -3.4 | | | | | 3.1 / -3.4 | | | | |