

Easy Space Square

Design iGuzzini

iGuzzini

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Product configuration: RI83.83

RI83.83: Square 225 - UGR < 19 - DALI - Warm White - 16.7W 1932lm - 3000K - CRI 90 - Black Transparent



Product code

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Technical description

Square recess luminaire with fixed optics, in version with outer frame. High efficiency LED source with high colour rendering index. Controlled luminance emission $L < 3000 \text{ cd/sm}$ - $UGR < 19$ - ideal for environments with video screen use. Emission unit integrated into the polycarbonate external structure - made up of PMMA prismatic reflector in combination with flow recovery unit and transparent PMMA flat screen combined with the PET film with satin finish. The painted die-cast aluminium diffuser encompasses the steel wire coupling springs. A DALI dimmer power supply unit connected to the luminaire.

Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick

Colour

Black Transparent (83)

Weight (Kg)

1.18

Mounting

ceiling surface

Wiring

DALI dimmer functioning components included - power supply connection on the terminals with rapid connection of the driver.

Notes

TPa version available on request, contact iGuzzini for more info

Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of the product once installed



Technical data

| | | | |
|--|-------|--|--|
| Im system: | 1869 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W system: | 16.7 | Lamp code: | LED |
| Im source: | 2100 | Number of lamps for optical assembly: | 1 |
| W source: | 14 | ZVEI Code: | LED |
| Luminous efficiency (Im/W, real value): | 111.9 | Number of optical assemblies: | 1 |
| Im in emergency mode: | - | Power factor: | See installation instructions |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Inrush current: | 18 A / 250 µs |
| Light Output Ratio (L.O.R.) [%]: | 89 | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires |
| CRI (minimum): | 90 | Minimum dimming %: | 1 |
| Colour temperature [K]: | 3000 | Overvoltage protection: | 2kV Common mode & 1kV Differential mode |
| MacAdam Step: | 2 | Control: | DALI-2 |

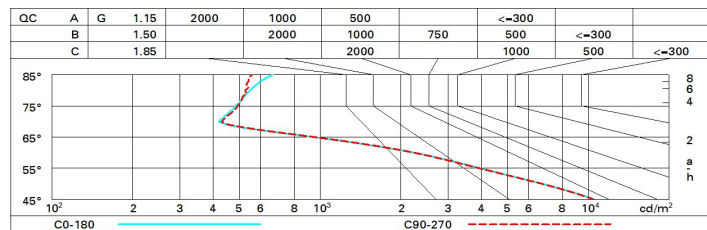
Polar

| CIE | | | | Lux | | | |
|-------------------------------|--|--|--|-----|-----|-----|----------|
| nL 0.89 | | | | h | d1 | d2 | Em Emax |
| 77-98-100-100-89 | | | | 1 | 1.5 | 1.5 | 925 1308 |
| UGR 17.1-17.1 | | | | 2 | 3 | 3 | 231 327 |
| DIN A.61 | | | | 3 | 4.6 | 4.5 | 103 145 |
| UTE 0.89B+0.00T | | | | 4 | 6.1 | 6 | 58 82 |
| F*1=768 | | | | | | | |
| F*1+F*2=978 | | | | | | | |
| F*1+F*2+F*3=997 | | | | | | | |
| CIBSE LG3 L<1500 cd/m² at 65° | | | | | | | |
| UGR<19 L<1500 cd/mq @65° | | | | | | | |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 71 | 64 | 60 | 56 | 63 | 59 | 59 | 54 | 61 |
| 1.0 | 76 | 70 | 66 | 63 | 69 | 65 | 65 | 60 | 68 |
| 1.5 | 83 | 78 | 75 | 72 | 77 | 74 | 73 | 70 | 78 |
| 2.0 | 87 | 83 | 81 | 78 | 82 | 80 | 79 | 75 | 84 |
| 2.5 | 89 | 86 | 84 | 82 | 85 | 83 | 82 | 79 | 88 |
| 3.0 | 90 | 88 | 86 | 85 | 87 | 85 | 84 | 81 | 91 |
| 4.0 | 92 | 90 | 89 | 87 | 89 | 87 | 86 | 83 | 93 |
| 5.0 | 93 | 91 | 90 | 89 | 90 | 89 | 87 | 84 | 95 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 2100 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Riflect.: ceil/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 | 17.4 | 18.2 | 17.7 | 18.5 | 18.7 | 17.4 | 18.2 | 17.7 | 18.5 | 18.7 |
| | 3H | 17.3 | 18.0 | 17.6 | 18.3 | 18.6 | 17.4 | 18.2 | 17.8 | 18.5 | 18.7 |
| | 4H | 17.2 | 17.9 | 17.5 | 18.2 | 18.5 | 17.4 | 18.1 | 17.7 | 18.4 | 18.7 |
| | 6H | 17.1 | 17.8 | 17.5 | 18.1 | 18.4 | 17.3 | 17.9 | 17.7 | 18.2 | 18.6 |
| | 8H | 17.1 | 17.7 | 17.5 | 18.0 | 18.4 | 17.3 | 17.9 | 17.6 | 18.2 | 18.5 |
| | 12H | 17.1 | 17.6 | 17.4 | 18.0 | 18.3 | 17.2 | 17.8 | 17.6 | 18.1 | 18.5 |
| 4H | 2H | 17.4 | 18.1 | 17.7 | 18.4 | 18.7 | 17.2 | 17.9 | 17.5 | 18.2 | 18.5 |
| | 3H | 17.2 | 17.8 | 17.6 | 18.2 | 18.5 | 17.2 | 17.8 | 17.6 | 18.2 | 18.5 |
| | 4H | 17.2 | 17.7 | 17.6 | 18.1 | 18.4 | 17.2 | 17.7 | 17.6 | 18.1 | 18.5 |
| | 6H | 17.1 | 17.6 | 17.5 | 18.0 | 18.4 | 17.1 | 17.5 | 17.5 | 17.9 | 18.4 |
| | 8H | 17.1 | 17.5 | 17.5 | 17.9 | 18.3 | 17.1 | 17.5 | 17.5 | 17.9 | 18.3 |
| | 12H | 17.0 | 17.4 | 17.5 | 17.8 | 18.3 | 17.0 | 17.4 | 17.5 | 17.8 | 18.3 |
| 8H | 4H | 17.1 | 17.5 | 17.5 | 17.9 | 18.3 | 17.1 | 17.5 | 17.5 | 17.9 | 18.3 |
| | 6H | 17.0 | 17.3 | 17.5 | 17.8 | 18.2 | 17.0 | 17.3 | 17.5 | 17.8 | 18.3 |
| | 8H | 17.0 | 17.2 | 17.4 | 17.7 | 18.2 | 17.0 | 17.2 | 17.4 | 17.7 | 18.2 |
| | 12H | 16.9 | 17.2 | 17.4 | 17.7 | 18.2 | 16.9 | 17.2 | 17.4 | 17.7 | 18.2 |
| 12H | 4H | 17.0 | 17.4 | 17.5 | 17.8 | 18.3 | 17.0 | 17.4 | 17.5 | 17.8 | 18.3 |
| | 6H | 16.9 | 17.2 | 17.4 | 17.7 | 18.2 | 17.0 | 17.3 | 17.5 | 17.7 | 18.2 |
| | 8H | 16.9 | 17.2 | 17.4 | 17.6 | 18.2 | 16.9 | 17.2 | 17.4 | 17.7 | 18.2 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 1.2 / -3.2 | | | | | 1.2 / -3.3 | | | | |
| | 1.5H | 2.9 / -7.7 | | | | | 3.0 / -7.8 | | | | |
| | 2.0H | 4.8 / -11.2 | | | | | 4.8 / -11.4 | | | | |