

View Opti Beam Lens quadrato

Design iGuzzini / Arup

iGuzzini

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square small body spotlight - wide flood

Product code

Q319

Technical description

Indoor adjustable spotlight with adapter for installation on a three-phase/DALI track. Device made of die-cast aluminium and a front part made of a thermoplastic material. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Optical assembly consisting of Neutral White tone 4000K LEDs with OPTIBEAM LENS technology and a wide flood light beam. Dimmable driver built-in to box with a semi-hidden system on track. Option of installing a range of flat accessories including an OPTIBEAM REFRACTOR for varying light distribution, an elliptical distribution refractor, a louver, a soft lens and an outdoor accessory like an asymmetric visor for eliminating stray light dispersion on the ceiling.

Installation

On a three-phase/DALI electrified track

Dimension (mm)

126x126x52

Colour

Black (04) | Black/White (47)

Weight (Kg)

1.13

Mounting

dali track|three circuit track

Wiring

Product complete with dimmable electronic components, housed in a semi-hidden box on the track.

Complies with EN60598-1 and pertinent regulations



IP20



Product configuration: Q319

Product characteristics

Total lighting output [Lm]: 1990.1
Total power [W]: 21.3
Luminous efficacy [Lm/W]: 93.4
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.) [%]: 83
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 18
Nominal luminous [Lm]: 2400
Lamp maximum intensity [cd]: /
Beam angle [°]: 46°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.3
Colour temperature [K]: 4000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

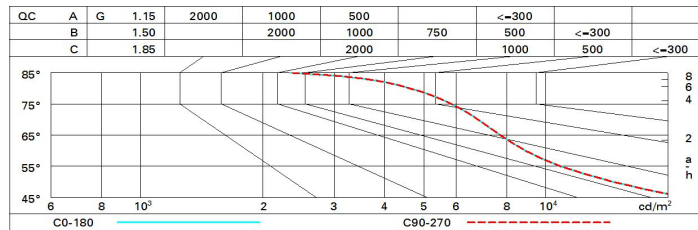
Polar

| | CIE | | Lux | | | |
|--|---|-----------|-----|-----|-----|------|
| | nL | UGR | h | d | Em | Emax |
| I _{max} =2999 cd 90° 180° 90° 3000 0° α=46° | 0.83 | 18.6-18.5 | 2 | 1.7 | 579 | 750 |
| | 91-98-100-100-83 | | 4 | 3.4 | 145 | 187 |
| | 0.83A+0.00T | | 6 | 5.1 | 64 | 83 |
| | F ¹ =907 F ¹ +F ² =977 F ¹ +F ² +F ³ =996 | | 8 | 6.8 | 36 | 47 |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 71 | 67 | 63 | 61 | 66 | 63 | 62 | 59 | 72 |
| 1.0 | 75 | 71 | 68 | 65 | 70 | 67 | 67 | 64 | 77 |
| 1.5 | 80 | 77 | 74 | 72 | 76 | 73 | 73 | 70 | 84 |
| 2.0 | 83 | 80 | 78 | 77 | 79 | 77 | 77 | 74 | 89 |
| 2.5 | 85 | 83 | 81 | 80 | 82 | 80 | 79 | 77 | 92 |
| 3.0 | 86 | 84 | 83 | 82 | 83 | 82 | 81 | 79 | 95 |
| 4.0 | 87 | 86 | 85 | 84 | 85 | 84 | 83 | 80 | 97 |
| 5.0 | 88 | 87 | 86 | 86 | 85 | 85 | 83 | 81 | 98 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 2400 lm bare lamp luminous flux) | | | | | | | | | | | |
|---|------|------|-----------|------|------|------|------|---------|------|------|------|
| Reflect.: | | | | | | | | | | | |
| ceiling | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.30 |
| walls | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 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 | 0.20 |
| Room dim | | | | | | | | | | | |
| x | | | | | | | | | | | |
| y | | | | | | | | | | | |
| | | | viewed | | | | | viewed | | | |
| | | | crosswise | | | | | endwise | | | |
| 2H | 2H | 17.8 | 18.5 | 18.1 | 18.7 | 19.0 | 17.8 | 18.5 | 18.1 | 18.7 | 19.0 |
| | 3H | 18.1 | 18.7 | 18.4 | 19.0 | 19.3 | 17.9 | 18.5 | 18.2 | 18.8 | 19.0 |
| | 4H | 18.2 | 18.8 | 18.6 | 19.1 | 19.4 | 17.9 | 18.4 | 18.2 | 18.7 | 19.0 |
| | 6H | 18.3 | 18.8 | 18.6 | 19.1 | 19.5 | 17.8 | 18.4 | 18.2 | 18.7 | 19.0 |
| | 8H | 18.3 | 18.8 | 18.7 | 19.1 | 19.5 | 17.8 | 18.3 | 18.2 | 18.6 | 19.0 |
| | 12H | 18.3 | 18.8 | 18.7 | 19.1 | 19.4 | 17.8 | 18.3 | 18.2 | 18.6 | 18.9 |
| 4H | 2H | 17.9 | 18.4 | 18.2 | 18.7 | 19.0 | 18.2 | 18.8 | 18.6 | 19.1 | 19.4 |
| | 3H | 18.3 | 18.8 | 18.7 | 19.1 | 19.5 | 18.4 | 18.9 | 18.8 | 19.2 | 19.6 |
| | 4H | 18.5 | 18.9 | 18.9 | 19.3 | 19.6 | 18.5 | 18.9 | 18.9 | 19.3 | 19.6 |
| | 6H | 18.6 | 19.0 | 19.0 | 19.3 | 19.8 | 18.5 | 18.9 | 18.9 | 19.3 | 19.7 |
| | 8H | 18.6 | 18.9 | 19.0 | 19.4 | 19.8 | 18.5 | 18.8 | 18.9 | 19.2 | 19.7 |
| | 12H | 18.6 | 18.9 | 19.0 | 19.3 | 19.8 | 18.4 | 18.7 | 18.9 | 19.2 | 19.6 |
| 8H | 4H | 18.5 | 18.8 | 18.9 | 19.2 | 19.7 | 18.6 | 18.9 | 19.0 | 19.4 | 19.8 |
| | 6H | 18.7 | 18.9 | 19.1 | 19.4 | 19.9 | 18.7 | 19.0 | 19.1 | 19.4 | 19.9 |
| | 8H | 18.7 | 18.9 | 19.2 | 19.4 | 19.9 | 18.7 | 18.9 | 19.2 | 19.4 | 19.9 |
| | 12H | 18.7 | 18.9 | 19.2 | 19.4 | 19.9 | 18.7 | 18.9 | 19.2 | 19.4 | 19.9 |
| 12H | 4H | 18.4 | 18.7 | 18.9 | 19.2 | 19.6 | 18.6 | 18.9 | 19.0 | 19.3 | 19.8 |
| | 6H | 18.6 | 18.9 | 19.1 | 19.3 | 19.8 | 18.7 | 18.9 | 19.2 | 19.4 | 19.9 |
| | 8H | 18.7 | 18.9 | 19.2 | 19.4 | 19.9 | 18.7 | 18.9 | 19.2 | 19.4 | 19.9 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | | 2.3 | / | -1.9 | | | 2.3 | / | -1.9 | |
| | 1.5H | | 4.4 | / | -2.6 | | | 4.4 | / | -2.6 | |
| | 2.0H | | 6.2 | / | -3.0 | | | 6.2 | / | -3.0 | |