

Front Light

Design iGuzzini

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Last information update: May 2024

Product configuration: N290

N290: Warm White - Wide Flood Optic



Product code

N290: Warm White - Wide Flood Optic **Attention! Code no longer in production**

Technical description

Adjustable spotlight with adapter for installation on a mains voltage track. Luminaire made of die-cast aluminium. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks both for rotation about the vertical axis and tilting relative to the horizontal plane. Equipped with electronic ballast. Luminaire complete with LED unit, C.O.B. technology, and wide flood optic with warm white colour 3000K.

Installation

On an electrified track

Colour

White (01) | Black (04) | Grey / Black (74)

Weight (Kg)

0.95

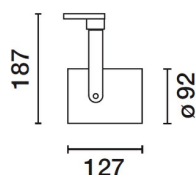
Mounting

three circuit track

Wiring

product complete with electronic components

Complies with EN60598-1 and pertinent regulations



Technical data

| | | | |
|--|-------|---------------------------------------|---------------------------------|
| Im system: | 1658 | CRI (minimum): | 80 |
| W system: | 15.4 | Colour temperature [K]: | 3000 |
| Im source: | 2100 | MacAdam Step: | 2 |
| W source: | 14 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (Im/W, real value): | 107.6 | Lamp code: | LED |
| Im 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: | 1 |
| Beam angle [°]: | 56° | | |

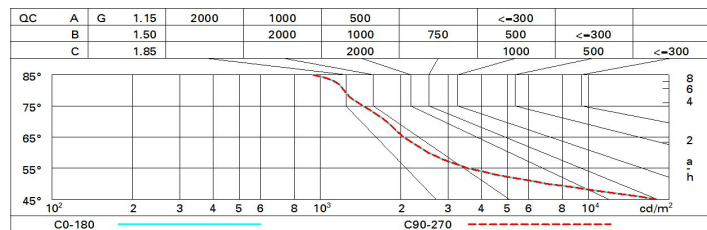
Polar

| | | | | |
|--|--|-----|-----|------------------|
| | CIE nL 0.79 98-100-100-100-79 UGR 17.6-17.6 DIN A.61 UTE 0.79A+0.00T F*1=975 F*1+F*2=997 F*1+F*2+F*3=1000 CIBSE LG3 L<3000 cd/m² at 65° UGR<19 L<3000 cd/mq @ 65° | | | |
| | Lux | | | |
| | h | d | Em | E _{max} |
| | 2 | 2.1 | 422 | 528 |
| | 4 | 4.3 | 106 | 132 |
| | 6 | 6.4 | 47 | 59 |
| | 8 | 8.5 | 26 | 33 |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 70 | 67 | 64 | 62 | 66 | 63 | 63 | 61 | 77 |
| 1.0 | 74 | 70 | 68 | 66 | 69 | 67 | 67 | 64 | 81 |
| 1.5 | 78 | 75 | 73 | 71 | 74 | 72 | 72 | 69 | 88 |
| 2.0 | 80 | 78 | 77 | 75 | 77 | 76 | 75 | 73 | 92 |
| 2.5 | 82 | 80 | 79 | 78 | 79 | 78 | 77 | 75 | 95 |
| 3.0 | 83 | 82 | 81 | 80 | 80 | 80 | 79 | 77 | 97 |
| 4.0 | 84 | 83 | 82 | 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 2100 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| | | 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 |
| 2H | 2H | 18.1 | 18.8 | 18.4 | 19.0 | 19.2 | 18.1 | 18.8 | 18.4 | 19.0 | 19.2 |
| | 3H | 18.0 | 18.6 | 18.3 | 18.8 | 19.1 | 18.0 | 18.6 | 18.3 | 18.8 | 19.1 |
| | 4H | 18.0 | 18.5 | 18.3 | 18.8 | 19.1 | 17.9 | 18.5 | 18.3 | 18.7 | 19.0 |
| | 6H | 17.9 | 18.3 | 18.2 | 18.7 | 19.0 | 17.9 | 18.3 | 18.2 | 18.6 | 19.0 |
| | 8H | 17.8 | 18.3 | 18.2 | 18.6 | 19.0 | 17.8 | 18.3 | 18.2 | 18.6 | 18.9 |
| | 12H | 17.8 | 18.2 | 18.2 | 18.6 | 18.9 | 17.8 | 18.2 | 18.2 | 18.6 | 18.9 |
| 4H | 2H | 17.9 | 18.5 | 18.3 | 18.7 | 19.0 | 18.0 | 18.5 | 18.3 | 18.8 | 19.1 |
| | 3H | 17.8 | 18.2 | 18.2 | 18.6 | 18.9 | 17.8 | 18.2 | 18.2 | 18.6 | 18.9 |
| | 4H | 17.7 | 18.1 | 18.1 | 18.5 | 18.9 | 17.7 | 18.1 | 18.1 | 18.5 | 18.9 |
| | 6H | 17.6 | 18.0 | 18.1 | 18.4 | 18.8 | 17.6 | 18.0 | 18.1 | 18.4 | 18.8 |
| | 8H | 17.6 | 17.9 | 18.0 | 18.3 | 18.8 | 17.6 | 17.9 | 18.0 | 18.3 | 18.8 |
| | 12H | 17.6 | 17.8 | 18.0 | 18.3 | 18.7 | 17.6 | 17.8 | 18.0 | 18.3 | 18.7 |
| 8H | 4H | 17.6 | 17.9 | 18.0 | 18.3 | 18.8 | 17.6 | 17.9 | 18.0 | 18.3 | 18.8 |
| | 6H | 17.5 | 17.8 | 18.0 | 18.2 | 18.7 | 17.5 | 17.8 | 18.0 | 18.2 | 18.7 |
| | 8H | 17.5 | 17.7 | 18.0 | 18.1 | 18.6 | 17.5 | 17.7 | 18.0 | 18.1 | 18.6 |
| | 12H | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 |
| 12H | 4H | 17.6 | 17.8 | 18.0 | 18.3 | 18.7 | 17.6 | 17.8 | 18.0 | 18.3 | 18.7 |
| | 6H | 17.5 | 17.7 | 17.9 | 18.1 | 18.6 | 17.5 | 17.7 | 18.0 | 18.1 | 18.6 |
| | 8H | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 5.6 / -11.9 | | | | | 5.6 / -11.9 | | | | |
| | 1.5H | 8.4 / -13.1 | | | | | 8.4 / -13.1 | | | | |
| | 2.0H | 10.4 / -13.6 | | | | | 10.4 / -13.6 | | | | |