
Laser Blade

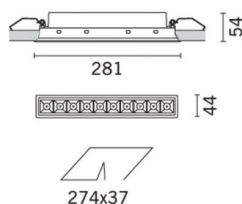
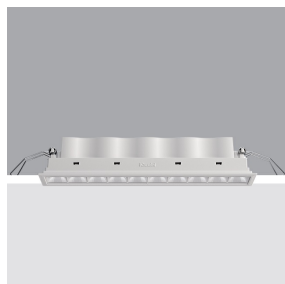
Design iGuzzini iGuzzini

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Last information update: March 2025

Product configuration: EK99.D8

EK99.D8: 10 - cell Recessed luminaire - LED - Warm white - Incorporated DALI dimmable power supply Wide - Flood optic - White / transparent



Product code

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Technical description

rectangular miniaturised recessed luminaire with 10 optical elements with LED lamps - fixed optics - wide flood beam angle. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled glare . Supplied with DALI dimmable electronic control gear connected to the luminaire. Warm white high colour rendering LED

Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 274

| Colour | Weight (Kg) |
|--------|-------------|
|--------|-------------|

| Colour | Weight (kg) |
|------------------------|-------------|
| White Transparent (D8) | 0.65 |

Weight (Kg)

0.65

Mounting

mounting
wall recessed/ceiling recessed

Wiring

on control gear box with quick-coupling connections

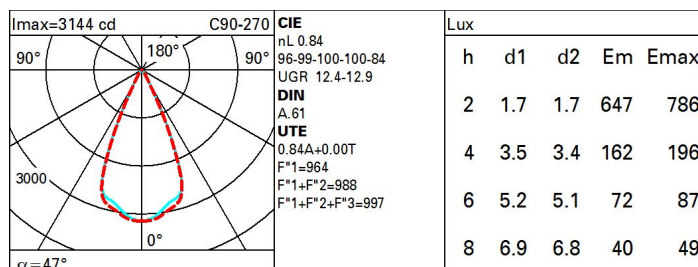
Complies with EN60598-1 and pertinent regulations



Technical data

| | | | |
|--|------|---------------------------------------|---------------------------------|
| lm system: | 1764 | CRI (typical): | 92 |
| W system: | 23.2 | Colour temperature [K]: | 2700 |
| lm source: | 2100 | MacAdam Step: | 3 |
| W source: | 20 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 76 | 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.) [%]: | 84 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 46° | Control: | DALI-2 |
| CRI (minimum): | 90 | | |

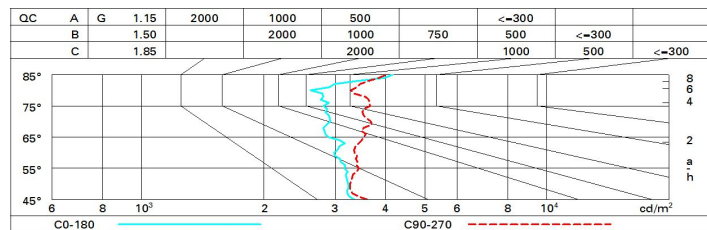
Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 75 | 70 | 67 | 65 | 70 | 67 | 66 | 64 | 76 |
| 1.0 | 78 | 74 | 71 | 69 | 73 | 71 | 71 | 68 | 81 |
| 1.5 | 82 | 79 | 77 | 75 | 78 | 76 | 76 | 73 | 87 |
| 2.0 | 85 | 83 | 81 | 80 | 82 | 80 | 79 | 77 | 91 |
| 2.5 | 87 | 85 | 84 | 83 | 84 | 83 | 82 | 79 | 94 |
| 3.0 | 88 | 87 | 86 | 85 | 85 | 84 | 83 | 81 | 96 |
| 4.0 | 89 | 88 | 87 | 87 | 87 | 86 | 85 | 83 | 98 |
| 5.0 | 89 | 89 | 88 | 88 | 87 | 87 | 86 | 83 | 99 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 2100 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|-----|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| 2H | 2H | 10.7 | 11.2 | 11.0 | 11.5 | 11.7 | 11.3 | 11.8 | 11.5 | 12.0 | 12.2 |
| | 3H | 11.1 | 11.6 | 11.4 | 11.9 | 12.1 | 11.4 | 11.9 | 11.7 | 12.1 | 12.4 |
| | 4H | 11.4 | 11.8 | 11.7 | 12.1 | 12.4 | 11.4 | 11.9 | 11.7 | 12.1 | 12.4 |
| | 6H | 11.6 | 12.0 | 11.9 | 12.3 | 12.6 | 11.4 | 11.8 | 11.7 | 12.1 | 12.4 |
| | 8H | 11.7 | 12.1 | 12.0 | 12.4 | 12.7 | 11.4 | 11.8 | 11.7 | 12.1 | 12.4 |
| | 12H | 11.8 | 12.2 | 12.2 | 12.5 | 12.9 | 11.3 | 11.7 | 11.7 | 12.1 | 12.4 |
| 4H | 2H | 10.9 | 11.4 | 11.2 | 11.6 | 11.9 | 12.2 | 12.7 | 12.5 | 12.9 | 13.2 |
| | 3H | 11.5 | 11.9 | 11.9 | 12.2 | 12.6 | 12.7 | 13.0 | 13.0 | 13.4 | 13.7 |
| | 4H | 11.9 | 12.2 | 12.3 | 12.6 | 13.0 | 12.8 | 13.2 | 13.2 | 13.5 | 13.9 |
| | 6H | 12.2 | 12.5 | 12.6 | 12.9 | 13.3 | 12.9 | 13.2 | 13.4 | 13.6 | 14.0 |
| | 8H | 12.4 | 12.6 | 12.8 | 13.0 | 13.5 | 12.9 | 13.2 | 13.4 | 13.6 | 14.1 |
| | 12H | 12.6 | 12.8 | 13.0 | 13.2 | 13.7 | 12.9 | 13.2 | 13.4 | 13.6 | 14.1 |
| 8H | 4H | 12.1 | 12.3 | 12.5 | 12.7 | 13.2 | 13.4 | 13.7 | 13.8 | 14.1 | 14.5 |
| | 6H | 12.5 | 12.7 | 13.0 | 13.2 | 13.6 | 13.7 | 13.9 | 14.1 | 14.3 | 14.8 |
| | 8H | 12.7 | 12.9 | 13.2 | 13.4 | 13.9 | 13.7 | 13.9 | 14.2 | 14.4 | 14.9 |
| | 12H | 13.0 | 13.2 | 13.5 | 13.7 | 14.2 | 13.8 | 13.9 | 14.3 | 14.4 | 14.9 |
| 12H | 4H | 12.1 | 12.3 | 12.5 | 12.7 | 13.2 | 13.6 | 13.8 | 14.0 | 14.2 | 14.7 |
| | 6H | 12.5 | 12.7 | 13.0 | 13.2 | 13.7 | 13.9 | 14.1 | 14.3 | 14.5 | 15.0 |
| | 8H | 12.8 | 13.0 | 13.3 | 13.4 | 14.0 | 14.0 | 14.2 | 14.5 | 14.6 | 15.2 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | | 1.0H | | | | | 1.8 / -1.2 | | | | |
| | | 1.5H | | | | | 3.3 / -1.5 | | | | |
| | | 2.0H | | | | | 4.8 / -1.8 | | | | |
| | | | | | | | 1.3 / -1.1 | | | | |
| | | | | | | | 2.7 / -1.3 | | | | |
| | | | | | | | 4.1 / -1.6 | | | | |