

## Laser Blade

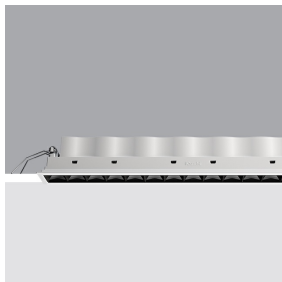
Design iGuzzini

iGuzzini

Last information update: March 2025

### Product configuration: EK64.47

EK64.47: 15 - cell Recessed luminaire - LED - Neutral white Flood optic - White/Black



### Product code

EK64.47: 15 - cell Recessed luminaire - LED - Neutral white Flood optic - White/Black

### Technical description

rectangular miniaturised recessed luminaire with 15 optical elements with LED lamps - fixed optics - 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. Neutral white LED.

### Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 406

### Colour

Black / White (47)

### Weight (Kg)

0.86

### Mounting

wall recessed/ceiling recessed

### Wiring

on control gear box with quick-coupling connections

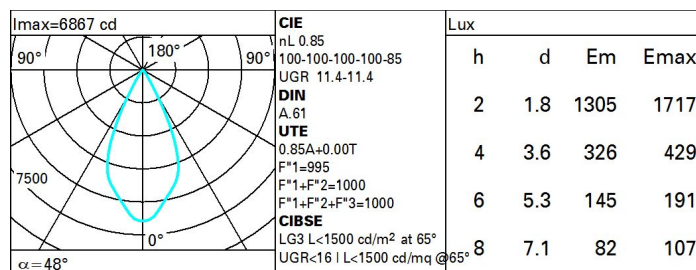
Complies with EN60598-1 and pertinent regulations



### Technical data

|  |       |                                       |                                 |
|--|-------|---------------------------------------|---------------------------------|
| Im system:   | 3825  | CRI (typical):                        | 82                              |
| W system:  | 33.5  | Colour temperature [K]:               | 4000                            |
| Im source:   | 4500  | MacAdam Step:                         | 3                               |
| W source:  | 30    | Life Time LED 1:                      | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (Im/W, real value):            | 114.2 | 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.) [%]:                   | 85    | Number of optical assemblies:         | 1                               |
| Beam angle [°]:                                    | 48°   | Control:                              | DALI-2                          |
| CRI (minimum):                                     | 80    |                                       |                                 |

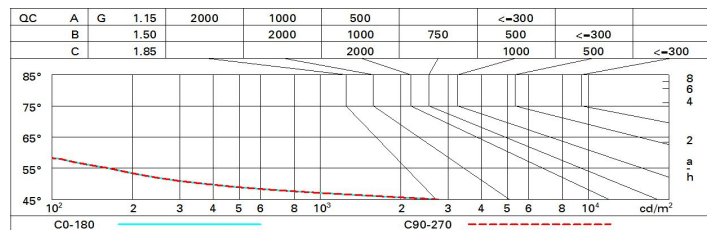
### Polar



# Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 77 | 73 | 70 | 68 | 72 | 70 | 69 | 66 | 78  |
| 1.0  | 80 | 77 | 74 | 72 | 76 | 73 | 73 | 70 | 83  |
| 1.5  | 84 | 81 | 79 | 78 | 80 | 79 | 78 | 75 | 88  |
| 2.0  | 87 | 85 | 83 | 82 | 84 | 82 | 81 | 79 | 93  |
| 2.5  | 88 | 87 | 86 | 85 | 86 | 84 | 84 | 81 | 96  |
| 3.0  | 89 | 88 | 87 | 87 | 87 | 86 | 85 | 83 | 98  |
| 4.0  | 90 | 90 | 89 | 88 | 88 | 88 | 86 | 84 | 99  |
| 5.0  | 91 | 90 | 90 | 90 | 89 | 89 | 87 | 85 | 100 |

# Luminance curve limit



# UGR diagram

| Corrected UGR values (at 4500 lm bare lamp luminous flux)    |      |                     |      |      |      |      |                   |      |      |      |      |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.:<br>ceiling<br>walls<br>work pl.<br>Room dim<br>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<br>crosswise |      |      |      |      | viewed<br>endwise |      |      |      |      |
| 2H   | 2H   | 12.0                | 12.5 | 12.3 | 12.7 | 13.0 | 12.0              | 12.5 | 12.3 | 12.7 | 13.0 |
|  | 3H   | 11.9                | 12.3 | 12.2 | 12.6 | 12.9 | 11.9              | 12.3 | 12.2 | 12.6 | 12.9 |
|  | 4H   | 11.8                | 12.2 | 12.1 | 12.5 | 12.8 | 11.8              | 12.2 | 12.1 | 12.5 | 12.8 |
|  | 6H   | 11.7                | 12.1 | 12.0 | 12.4 | 12.7 | 11.7              | 12.1 | 12.0 | 12.4 | 12.7 |
|  | 8H   | 11.7                | 12.1 | 12.0 | 12.4 | 12.7 | 11.7              | 12.1 | 12.0 | 12.4 | 12.7 |
|  | 12H  | 11.6                | 12.0 | 12.0 | 12.3 | 12.7 | 11.6              | 12.0 | 12.0 | 12.3 | 12.7 |
| 4H   | 2H   | 11.8                | 12.2 | 12.1 | 12.5 | 12.8 | 11.8              | 12.2 | 12.1 | 12.5 | 12.8 |
|  | 3H   | 11.6                | 12.0 | 12.0 | 12.3 | 12.7 | 11.6              | 12.0 | 12.0 | 12.3 | 12.7 |
|  | 4H   | 11.5                | 11.9 | 11.9 | 12.2 | 12.6 | 11.5              | 11.9 | 11.9 | 12.2 | 12.6 |
|  | 6H   | 11.4                | 11.7 | 11.9 | 12.1 | 12.6 | 11.4              | 11.7 | 11.9 | 12.1 | 12.6 |
|  | 8H   | 11.4                | 11.7 | 11.8 | 12.1 | 12.5 | 11.4              | 11.7 | 11.8 | 12.1 | 12.5 |
|  | 12H  | 11.3                | 11.6 | 11.8 | 12.0 | 12.5 | 11.3              | 11.6 | 11.8 | 12.0 | 12.5 |
| 8H   | 4H   | 11.4                | 11.7 | 11.8 | 12.1 | 12.5 | 11.4              | 11.7 | 11.8 | 12.1 | 12.5 |
|  | 6H   | 11.3                | 11.5 | 11.8 | 12.0 | 12.4 | 11.3              | 11.5 | 11.8 | 12.0 | 12.4 |
|  | 8H   | 11.2                | 11.4 | 11.7 | 11.9 | 12.4 | 11.2              | 11.4 | 11.7 | 11.9 | 12.4 |
|  | 12H  | 11.2                | 11.4 | 11.7 | 11.8 | 12.4 | 11.2              | 11.4 | 11.7 | 11.8 | 12.4 |
| 12H  | 4H   | 11.3                | 11.6 | 11.8 | 12.0 | 12.5 | 11.3              | 11.6 | 11.8 | 12.0 | 12.5 |
|  | 6H   | 11.2                | 11.4 | 11.7 | 11.9 | 12.4 | 11.2              | 11.4 | 11.7 | 11.9 | 12.4 |
|  | 8H   | 11.2                | 11.4 | 11.7 | 11.8 | 12.4 | 11.2              | 11.4 | 11.7 | 11.8 | 12.4 |
| Variations with the observer position at spacing:            |      |                     |      |      |      |      |                   |      |      |      |      |
| S =  | 1.0H | 5.9 / -29.1         |      |      |      |      | 5.9 / -29.1       |      |      |      |      |
|  | 1.5H | 8.7 / -38.7         |      |      |      |      | 8.7 / -38.7       |      |      |      |      |
|  | 2.0H | 10.7 / -48.4        |      |      |      |      | 10.7 / -48.4      |      |      |      |      |