

## Laser Blade

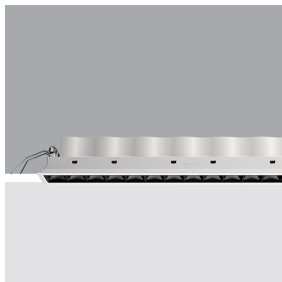
Design iGuzzini

iGuzzini

Last information update: March 2025

### Product configuration: MK55.47

MK55.47: 15 - cell Recessed luminaire - LED - Neutral white Flood optic - 33W 2529.4lm - 4000K - CRI 95 - Black / White



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### 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 high colour rendering 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

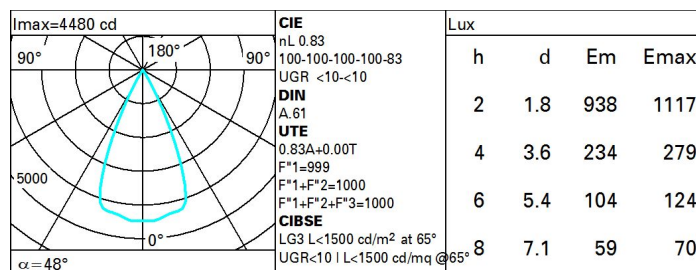
Complies with EN60598-1 and pertinent regulations



### Technical data

|  |      |                                       |                               |
|--|------|---------------------------------------|-------------------------------|
| Im system:   | 2529 | CRI (typical):                        | 97                            |
| W system:  | 33   | Colour temperature [K]:               | 4000                          |
| Im source:   | 3050 | MacAdam Step:                         | 3                             |
| W source:  | 29   | Life Time LED 1:                      | 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (Im/W, real value):            | 76.6 | 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.) [%]:                   | 83   | Number of optical assemblies:         | 1                             |
| Beam angle [°]:                                    | 48°  | Control:                              | DALI-2                        |
| CRI (minimum):                                     | 95   |                                       |                               |

### Polar



# Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 75 | 71 | 68 | 66 | 70 | 68 | 68 | 65 | 78  |
| 1.0  | 78 | 75 | 72 | 70 | 74 | 72 | 71 | 69 | 83  |
| 1.5  | 82 | 79 | 77 | 76 | 79 | 77 | 76 | 74 | 89  |
| 2.0  | 85 | 83 | 81 | 80 | 82 | 80 | 79 | 77 | 93  |
| 2.5  | 86 | 85 | 84 | 83 | 84 | 83 | 82 | 79 | 96  |
| 3.0  | 87 | 86 | 85 | 85 | 85 | 84 | 83 | 81 | 98  |
| 4.0  | 88 | 87 | 87 | 86 | 86 | 86 | 84 | 82 | 99  |
| 5.0  | 89 | 88 | 88 | 88 | 87 | 86 | 85 | 83 | 100 |

# UGR diagram

| Corrected UGR values (at 3050 lm bare lamp luminous flux) |     |                  |              |      |      |      |                |      |      |      |      |
|---|-----|------------------|--------------|------|------|------|----------------|------|------|------|------|
| Riflect.:   |     | viewed crosswise |              |      |      |      | viewed endwise |      |      |      |      |
| ceiling/cav   |     | 0.70             | 0.70         | 0.50 | 0.50 | 0.30 | 0.70           | 0.70 | 0.50 | 0.50 | 0.30 |
| walls   |     | 0.50             | 0.30         | 0.50 | 0.30 | 0.30 | 0.50           | 0.30 | 0.50 | 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 |
| Room dim  |     | viewed crosswise |              |      |      |      | viewed endwise |      |      |      |      |
| x   | y   |                  |              |      |      |      |                |      |      |      |      |
| 2H  | 2H  | 2.0              | 2.5          | 2.3  | 2.7  | 3.0  | 2.0            | 2.5  | 2.3  | 2.7  | 3.0  |
|   | 3H  | 1.9              | 2.3          | 2.2  | 2.6  | 2.9  | 1.9            | 2.3  | 2.2  | 2.6  | 2.9  |
|   | 4H  | 1.8              | 2.2          | 2.2  | 2.5  | 2.8  | 1.8            | 2.2  | 2.2  | 2.5  | 2.8  |
|   | 6H  | 1.8              | 2.1          | 2.1  | 2.5  | 2.8  | 1.8            | 2.1  | 2.1  | 2.4  | 2.8  |
|   | 8H  | 1.7              | 2.1          | 2.1  | 2.4  | 2.7  | 1.7            | 2.1  | 2.1  | 2.4  | 2.7  |
|   | 12H | 1.7              | 2.0          | 2.1  | 2.4  | 2.7  | 1.7            | 2.0  | 2.1  | 2.4  | 2.7  |
| 4H  | 2H  | 1.8              | 2.2          | 2.2  | 2.5  | 2.8  | 1.8            | 2.2  | 2.2  | 2.5  | 2.8  |
|   | 3H  | 1.7              | 2.0          | 2.1  | 2.4  | 2.7  | 1.7            | 2.0  | 2.1  | 2.4  | 2.7  |
|   | 4H  | 1.6              | 1.9          | 2.0  | 2.3  | 2.7  | 1.6            | 1.9  | 2.0  | 2.3  | 2.7  |
|   | 6H  | 1.5              | 1.8          | 1.9  | 2.2  | 2.6  | 1.5            | 1.8  | 1.9  | 2.2  | 2.6  |
|   | 8H  | 1.5              | 1.7          | 1.9  | 2.1  | 2.6  | 1.5            | 1.7  | 1.9  | 2.1  | 2.6  |
|   | 12H | 1.4              | 1.6          | 1.9  | 2.1  | 2.5  | 1.4            | 1.6  | 1.9  | 2.1  | 2.5  |
| 8H  | 4H  | 1.5              | 1.7          | 1.9  | 2.1  | 2.6  | 1.5            | 1.7  | 1.9  | 2.1  | 2.6  |
|   | 6H  | 1.4              | 1.6          | 1.8  | 2.0  | 2.5  | 1.4            | 1.6  | 1.8  | 2.0  | 2.5  |
|   | 8H  | 1.3              | 1.5          | 1.8  | 2.0  | 2.5  | 1.3            | 1.5  | 1.8  | 2.0  | 2.5  |
|   | 12H | 1.3              | 1.4          | 1.8  | 1.9  | 2.4  | 1.3            | 1.4  | 1.8  | 1.9  | 2.4  |
| 12H   | 4H  | 1.4              | 1.6          | 1.9  | 2.1  | 2.5  | 1.4            | 1.6  | 1.9  | 2.1  | 2.5  |
|   | 6H  | 1.3              | 1.5          | 1.8  | 2.0  | 2.5  | 1.3            | 1.5  | 1.8  | 2.0  | 2.5  |
|   | 8H  | 1.3              | 1.4          | 1.8  | 1.9  | 2.4  | 1.3            | 1.4  | 1.8  | 1.9  | 2.4  |
| Variations with the observer position at spacing:         |     |                  |              |      |      |      |                |      |      |      |      |
| S =   |     | 1.0H             | 0.9 / -18.0  |      |      |      | 0.9 / -18.0    |      |      |      |      |
|   |     | 1.5H             | 9.7 / -18.3  |      |      |      | 9.7 / -18.3    |      |      |      |      |
|   |     | 2.0H             | 11.7 / -18.4 |      |      |      | 11.7 / -18.4   |      |      |      |      |