

## Laser Blade

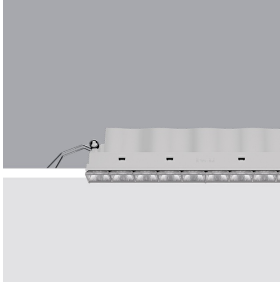
Design iGuzzini

iGuzzini

Last information update: February 2025

### Product configuration: QL13.24

QL13.24: Minimal 10 cells - Wide Flood - LED - Clear transparent



### Product code

QL13.24: Minimal 10 cells - Wide Flood - LED - Clear transparent

### Technical description

Linear miniaturised recessed luminaire with 10 optical elements for LED lamps - fixed optic. Die-cast aluminium body, minimal version (frameless) installed flush with ceiling. For recessed installation in a false ceiling a specific adapter is required that is available with a separate item code. Metallised thermoplastic high definition OptiBeam reflector, 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 a dimmable DALI power supply unit connected to the luminaire.

### Installation

The recess body is inserted in the specific adapter installed previously by means of a steel wire spring - check the thickness of the false ceiling and use a compatible frame available with a separate item code.

### Colour

Clear transparent (24)

### Weight (Kg)

0.55

### Mounting

wall recessed|ceiling recessed

### Wiring

Quick-coupling connections on the ballast unit.

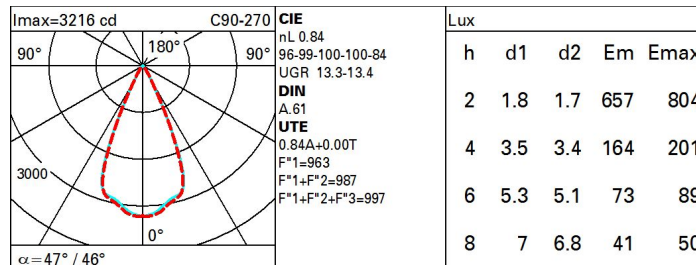
Complies with EN60598-1 and pertinent regulations



### Technical data

|  |           |                                       |                                 |
|--|-----------|---------------------------------------|---------------------------------|
| Im system:   | 1848      | CRI (typical):                        | 92                              |
| W system:  | 22.9      | Colour temperature [K]:               | 3000                            |
| Im source:   | 2200      | MacAdam Step:                         | 3                               |
| W source:  | 20        | Life Time LED 1:                      | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (Im/W, real value):            | 80.7      | 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.) [%]:                   | 84        | Number of optical assemblies:         | 1                               |
| Beam angle [°]:                                    | 48° / 46° | Control:                              | DALI-2                          |
| CRI (minimum):                                     | 90        |                                       |                                 |

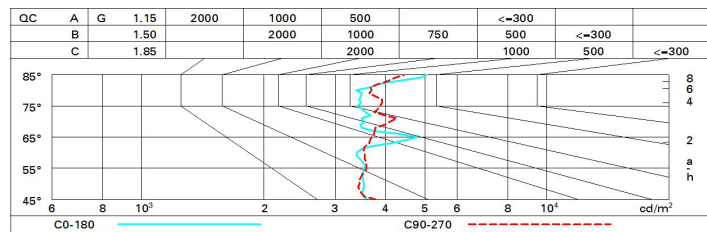
### Polar



# 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 | 70 | 68 | 80  |
| 1.5  | 82 | 79 | 77 | 75 | 78 | 76 | 75 | 73 | 87  |
| 2.0  | 85 | 83 | 81 | 80 | 82 | 80 | 79 | 77 | 91  |
| 2.5  | 87 | 85 | 84 | 82 | 84 | 82 | 82 | 79 | 94  |
| 3.0  | 88 | 87 | 85 | 85 | 85 | 84 | 83 | 81 | 96  |
| 4.0  | 89 | 88 | 87 | 87 | 86 | 86 | 85 | 83 | 98  |
| 5.0  | 89 | 89 | 88 | 88 | 87 | 87 | 85 | 83 | 99  |

# Luminance curve limit



# UGR diagram

| Corrected UGR values (at 2200 lm bare lamp luminous flux)        |     |                     |      |            |      |      |                   |      |        |      |      |
|--|-----|---------------------|------|------------|------|------|-------------------|------|--------|------|------|
| Reflect.:<br>ceiling/cav<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  | 11.1                | 11.6 | 11.4       | 11.9 | 12.1 | 11.7              | 12.2 | 12.0   | 12.5 | 12.7 |
|  | 3H  | 11.8                | 12.3 | 12.1       | 12.6 | 12.8 | 11.8              | 12.3 | 12.1   | 12.6 | 12.8 |
|  | 4H  | 12.1                | 12.6 | 12.4       | 12.9 | 13.2 | 11.8              | 12.3 | 12.2   | 12.6 | 12.9 |
|  | 6H  | 12.4                | 12.8 | 12.7       | 13.1 | 13.4 | 11.9              | 12.3 | 12.2   | 12.6 | 12.9 |
|  | 8H  | 12.5                | 12.9 | 12.9       | 13.2 | 13.6 | 11.8              | 12.2 | 12.2   | 12.6 | 12.9 |
|  | 12H | 12.7                | 13.1 | 13.1       | 13.4 | 13.8 | 11.8              | 12.2 | 12.2   | 12.5 | 12.9 |
| 4H   | 2H  | 11.3                | 11.7 | 11.6       | 12.0 | 12.3 | 12.7              | 13.1 | 13.0   | 13.4 | 13.7 |
|  | 3H  | 12.3                | 12.7 | 12.6       | 13.0 | 13.3 | 13.1              | 13.5 | 13.5   | 13.8 | 14.2 |
|  | 4H  | 12.7                | 13.1 | 13.1       | 13.4 | 13.8 | 13.3              | 13.6 | 13.7   | 14.0 | 14.4 |
|  | 6H  | 13.1                | 13.4 | 13.6       | 13.8 | 14.3 | 13.4              | 13.7 | 13.8   | 14.1 | 14.5 |
|  | 8H  | 13.3                | 13.6 | 13.8       | 14.0 | 14.5 | 13.4              | 13.7 | 13.9   | 14.1 | 14.5 |
|  | 12H | 13.6                | 13.9 | 14.1       | 14.3 | 14.7 | 13.4              | 13.7 | 13.9   | 14.1 | 14.5 |
| 8H   | 4H  | 12.9                | 13.2 | 13.4       | 13.6 | 14.0 | 13.8              | 14.1 | 14.3   | 14.5 | 15.0 |
|  | 6H  | 13.5                | 13.7 | 14.0       | 14.2 | 14.7 | 14.1              | 14.3 | 14.6   | 14.8 | 15.3 |
|  | 8H  | 13.8                | 14.0 | 14.3       | 14.5 | 15.0 | 14.2              | 14.4 | 14.7   | 14.9 | 15.4 |
|  | 12H | 14.2                | 14.4 | 14.7       | 14.9 | 15.4 | 14.3              | 14.4 | 14.8   | 14.9 | 15.5 |
| 12H  | 4H  | 12.9                | 13.2 | 13.4       | 13.6 | 14.1 | 14.0              | 14.3 | 14.5   | 14.7 | 15.1 |
|  | 6H  | 13.5                | 13.7 | 14.0       | 14.2 | 14.7 | 14.3              | 14.5 | 14.8   | 15.0 | 15.5 |
|  | 8H  | 13.9                | 14.1 | 14.4       | 14.6 | 15.1 | 14.5              | 14.6 | 15.0   | 15.1 | 15.6 |
| Variations with the observer position at spacing:                |     |                     |      |            |      |      |                   |      |        |      |      |
| S =  |     | 1.0H                | 1.4  | / -0.8     |      |      |                   | 1.4  | / -1.1 |      |      |
|  |     | 1.5H                |      | 3.0 / -1.2 |      |      |                   | 3.0  | / -1.3 |      |      |
|  |     | 2.0H                |      | 4.3 / -1.3 |      |      |                   | 4.5  | / -1.6 |      |      |