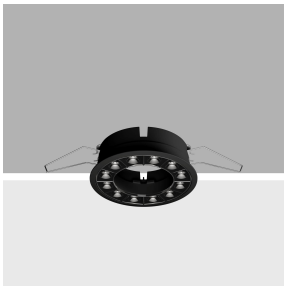
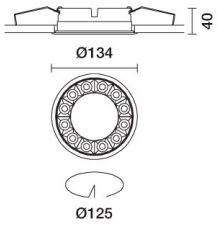
# Blade R downlight

**Design iGuzzini** **iGuzzini**

Last information update: October 2024

**Product configuration: QS33**
QS33: Frame Ø 125 - Flood beam - LED






**Product code**
QS33: Frame Ø 125 - Flood beam - LED

**Technical description**
Ring luminaire with 12 optical elements for LED lamps - fixed optics. The optic system guarantees a high level of visual comfort and no glare. The body includes a radiant surface made of die-cast aluminium. Version includes a perimeter surface frame. High definition reflectors made of thermoplastic material vacuum-metallised with aluminium vapours, integrated in a set-back position in the anti-glare screen. Supplied with a power supply unit connected to the luminaire.

**Installation**
Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - Ø 125 installation hole.

**Colour**
White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | White / burnished chrome (E7)*

**Weight (Kg)**
0.54

* Colours on request

**Mounting**
ceiling recessed

**Wiring**
On the power supply unit with terminal board included. Available in DALI versions.

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

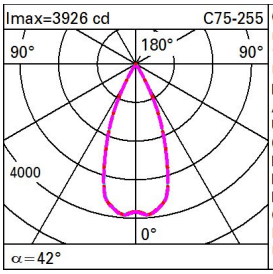
pending pending

**Technical data**

| | |
|---|---|
| lm system: | 1848 |
| W system: | 26.8 |
| lm source: | 2200 |
| W source: | 24 |
| Luminous efficiency (lm/W, real value): | 69 |
| lm in emergency mode: | - |
| Total light flux at or above an angle of 90° [Lm]: | 0 |
| Light Output Ratio (L.O.R.) [%]: | 84 |
| Beam angle [°]: | 42° |
| CRI (minimum): | 90 |
| Colour temperature [K]: | 3000 |
| MacAdam Step: | 2 |

| | |
|---|---|
| Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| Voltage [Vin]: | 230 |
| Lamp code: | LED |
| Number of lamps for optical assembly: | 1 |
| ZVEI Code: | LED |
| Number of optical assemblies: | 1 |
| Power factor: | See installation instructions |
| Inrush current: | 21 A / 139 µs |
| Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 15 luminaires<br>B16A: 24 luminaires<br>C10A: 24 luminaires<br>C16A: 40 luminaires |
| Minimum dimming %: | 1 |
| Overvoltage protection: | 2kV Common mode & 1kV Differential mode |
| Control: | DALI-2 |

**Polar**




**CIE**
nL 0.84
100-100-100-100-84
UGR <10-<10
**DIN**
A.61
**UTE**
0.84A+0.00T
F"1=999
F"1+F"2=1000
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

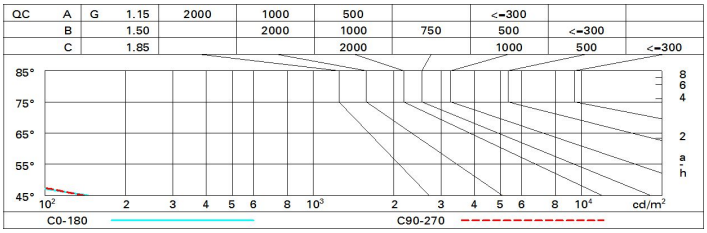
Lux

| h | d1 | d2 | Em | Emax |
|---|---|---|---|---|
| 2 | 1.5 | 1.5 | 796 | 967 |
| 4 | 3.1 | 3.1 | 199 | 242 |
| 6 | 4.6 | 4.6 | 88 | 107 |
| 8 | 6.1 | 6.1 | 50 | 60 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 76 | 72 | 69 | 67 | 71 | 69 | 68 | 66 | 78 |
| 1.0 | 79 | 76 | 73 | 71 | 75 | 73 | 72 | 70 | 83 |
| 1.5 | 83 | 80 | 78 | 77 | 80 | 78 | 77 | 74 | 89 |
| 2.0 | 86 | 84 | 82 | 81 | 83 | 81 | 80 | 78 | 93 |
| 2.5 | 87 | 86 | 85 | 84 | 85 | 84 | 83 | 80 | 96 |
| 3.0 | 88 | 87 | 86 | 86 | 86 | 85 | 84 | 82 | 98 |
| 4.0 | 89 | 89 | 88 | 88 | 87 | 87 | 85 | 83 | 99 |
| 5.0 | 90 | 89 | 89 | 89 | 88 | 88 | 86 | 84 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 2200 lm bare lamp luminous flux)

| Riflect.: ceil/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 | 1.2 | 1.8 | 1.5 | 2.0 | 2.2 | 1.4 | 2.0 | 1.7 | 2.2 | 2.4 |
| | 3H | 1.1 | 1.6 | 1.4 | 1.9 | 2.1 | 1.3 | 1.8 | 1.6 | 2.0 | 2.3 |
| | 4H | 1.0 | 1.5 | 1.3 | 1.8 | 2.1 | 1.2 | 1.7 | 1.5 | 2.0 | 2.3 |
| | 6H | 0.9 | 1.4 | 1.3 | 1.7 | 2.0 | 1.1 | 1.6 | 1.5 | 1.9 | 2.2 |
| | 8H | 0.9 | 1.3 | 1.3 | 1.6 | 2.0 | 1.1 | 1.5 | 1.4 | 1.8 | 2.2 |
| | 12H | 0.9 | 1.3 | 1.2 | 1.6 | 1.9 | 1.0 | 1.4 | 1.4 | 1.8 | 2.1 |
| 4H | 2H | 1.0 | 1.5 | 1.3 | 1.8 | 2.1 | 1.2 | 1.7 | 1.5 | 2.0 | 2.3 |
| | 3H | 0.9 | 1.3 | 1.2 | 1.6 | 1.9 | 1.0 | 1.4 | 1.4 | 1.8 | 2.1 |
| | 4H | 0.8 | 1.1 | 1.2 | 1.5 | 1.9 | 0.9 | 1.3 | 1.3 | 1.7 | 2.1 |
| | 6H | 0.7 | 1.0 | 1.1 | 1.4 | 1.8 | 0.9 | 1.2 | 1.3 | 1.6 | 2.0 |
| | 8H | 0.6 | 0.9 | 1.1 | 1.3 | 1.8 | 0.8 | 1.1 | 1.2 | 1.5 | 1.9 |
| | 12H | 0.6 | 0.8 | 1.0 | 1.3 | 1.7 | 0.8 | 1.0 | 1.2 | 1.4 | 1.9 |
| 8H | 4H | 0.6 | 0.9 | 1.1 | 1.3 | 1.8 | 0.8 | 1.1 | 1.2 | 1.5 | 1.9 |
| | 6H | 0.5 | 0.8 | 1.0 | 1.2 | 1.7 | 0.7 | 1.0 | 1.2 | 1.4 | 1.9 |
| | 8H | 0.5 | 0.7 | 1.0 | 1.1 | 1.6 | 0.7 | 0.9 | 1.1 | 1.3 | 1.8 |
| | 12H | 0.4 | 0.6 | 0.9 | 1.1 | 1.6 | 0.6 | 0.8 | 1.1 | 1.3 | 1.8 |
| 12H | 4H | 0.6 | 0.8 | 1.0 | 1.3 | 1.7 | 0.8 | 1.0 | 1.2 | 1.4 | 1.9 |
| | 6H | 0.5 | 0.7 | 1.0 | 1.1 | 1.6 | 0.7 | 0.9 | 1.1 | 1.3 | 1.8 |
| | 8H | 0.4 | 0.6 | 0.9 | 1.1 | 1.6 | 0.6 | 0.8 | 1.1 | 1.3 | 1.8 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 6.9 / -27.7 | 6.9 / -27.8 |
| | 1.5H | 9.7 / -32.6 | 9.7 / -32.4 |
| | 2.0H | 11.7 / -41.6 | 11.7 / -46.3 |