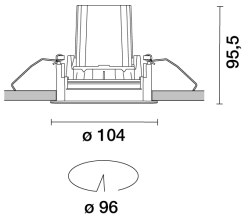
# Laser

**Design iGuzzini** **iGuzzini**

Last information update: June 2025

**Product configuration: RA44.43**
RA44.43: Adjustable round recessed luminaire - LED - Medium - Super Comfort - 10W 1122lm - 3000K - CRI 90 - Black / Black




**Product code**
RA44.43: Adjustable round recessed luminaire - LED - Medium - Super Comfort - 10W 1122lm - 3000K - CRI 90 - Black / Black

**Technical description**
Round recessed luminaire with contact frame. Adjustable version that rotates internally by 355° and tilts by a maximum of 30°. The swivel unit rotates in a set back position in relation to the surface of the ceiling in order to guarantee precise, comfortable light diffusion and reduce direct glare significantly. The swivel unit body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Metallised, thermoplastic, high definition reflector - medium optic. Structure with die-cast aluminium external contact frame with a single white finish. Steel rotating parts. The rings inside the recessed body and the swivel unit are made of thermoplastic available in a range of painted and metallised finishes. Safety glass included Quick and easy tool free assembly. High color rendering index 3000K LED. Power unit available with a separate code no.

**Installation**
Recessed in a false ceiling by means of an anti-fall steel wire spring - minimum thickness of false ceiling: 1 mm - preparation hole Ø 96 mm.

**Colour**
Black / Black (43)

**Weight (Kg)**
0.28

**Mounting**
wall recessed|ceiling recessed

**Wiring**
Direct current ballasts are available with a separate code no.: ON-OFF / 1-10V dimmable / DALI dimmable / Trailing Edge dimmable - the recessed fitting includes a cable and a quick-coupling connector to connect it to the connector on the ballast.

**Notes**
A wide range of decorative accessories and diffusers is also available.

Complies with EN60598-1 and pertinent regulations

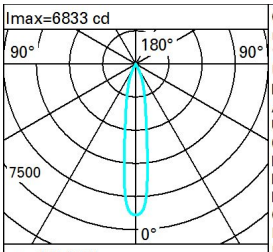
IP20 IP23 On the visible part of the product once installed

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 1135 | CRI (minimum): | 90 |
| W system: | 10 | Colour temperature [K]: | 3000 |
| lm source: | 1320 | MacAdam Step: | 2 |
| W source: | 10 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 113.5 | 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.) [%]: | 86 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 17° / 18° | LED current [mA]: | 300 |

**Polar**

Imax=6833 cd




α = 17° / 18°

**CIE**
nL 0.86
100-100-100-100-86
UGR <10-<10
**DIN**
A.61
**UTE**
0.86A+0.00T
F"1=996
F"1+F"2=999
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<10 I L<1500 cd/mq @65°

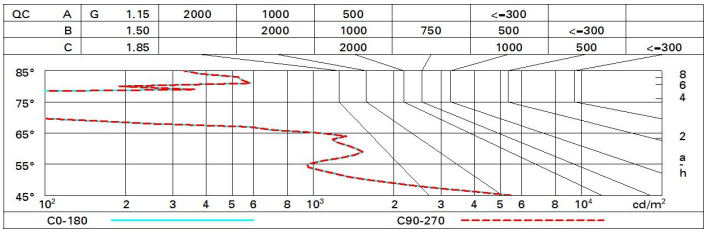
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 2 | 0.6 | 1349 | 1708 |
| 4 | 1.2 | 337 | 427 |
| 6 | 1.8 | 150 | 190 |
| 8 | 2.4 | 84 | 107 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 78 | 74 | 71 | 69 | 73 | 70 | 70 | 67 | 78 |
| 1.0 | 81 | 77 | 75 | 73 | 77 | 74 | 74 | 71 | 83 |
| 1.5 | 85 | 82 | 80 | 78 | 81 | 79 | 79 | 76 | 88 |
| 2.0 | 88 | 86 | 84 | 83 | 84 | 83 | 82 | 80 | 93 |
| 2.5 | 89 | 88 | 87 | 86 | 87 | 85 | 85 | 82 | 96 |
| 3.0 | 90 | 89 | 88 | 88 | 88 | 87 | 86 | 84 | 98 |
| 4.0 | 91 | 91 | 90 | 90 | 89 | 89 | 87 | 85 | 99 |
| 5.0 | 92 | 91 | 91 | 91 | 90 | 90 | 88 | 86 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 1320 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 | 5.3 | 7.4 | 5.7 | 7.8 | 8.1 | 5.3 | 7.4 | 5.7 | 7.8 | 8.1 |
| | 3H | 5.2 | 6.8 | 5.6 | 7.1 | 7.5 | 5.2 | 6.8 | 5.6 | 7.1 | 7.5 |
| | 4H | 5.2 | 6.5 | 5.5 | 6.8 | 7.2 | 5.2 | 6.5 | 5.5 | 6.8 | 7.2 |
| | 6H | 5.1 | 6.1 | 5.5 | 6.5 | 6.8 | 5.1 | 6.2 | 5.5 | 6.5 | 6.8 |
| | 8H | 5.1 | 6.1 | 5.5 | 6.5 | 6.8 | 5.1 | 6.1 | 5.5 | 6.5 | 6.8 |
| | 12H | 5.0 | 6.1 | 5.4 | 6.4 | 6.8 | 5.0 | 6.1 | 5.4 | 6.4 | 6.8 |
| 4H | 2H | 5.2 | 6.5 | 5.5 | 6.8 | 7.2 | 5.2 | 6.5 | 5.5 | 6.8 | 7.2 |
| | 3H | 5.0 | 6.1 | 5.4 | 6.5 | 6.8 | 5.0 | 6.1 | 5.4 | 6.5 | 6.8 |
| | 4H | 4.9 | 6.0 | 5.3 | 6.4 | 6.8 | 4.9 | 6.0 | 5.3 | 6.4 | 6.8 |
| | 6H | 4.6 | 6.3 | 5.0 | 6.7 | 7.2 | 4.6 | 6.3 | 5.0 | 6.7 | 7.2 |
| | 8H | 4.4 | 6.3 | 4.9 | 6.8 | 7.3 | 4.4 | 6.3 | 4.9 | 6.8 | 7.3 |
| | 12H | 4.4 | 6.3 | 4.9 | 6.8 | 7.3 | 4.3 | 6.3 | 4.8 | 6.8 | 7.3 |
| 8H | 4H | 4.4 | 6.3 | 4.9 | 6.8 | 7.3 | 4.4 | 6.3 | 4.9 | 6.8 | 7.3 |
| | 6H | 4.3 | 6.1 | 4.8 | 6.6 | 7.1 | 4.3 | 6.1 | 4.9 | 6.6 | 7.1 |
| | 8H | 4.3 | 5.9 | 4.9 | 6.4 | 6.9 | 4.3 | 5.9 | 4.9 | 6.4 | 6.9 |
| | 12H | 4.5 | 5.5 | 5.1 | 6.0 | 6.5 | 4.5 | 5.5 | 5.0 | 6.0 | 6.5 |
| 12H | 4H | 4.3 | 6.3 | 4.8 | 6.8 | 7.3 | 4.4 | 6.3 | 4.9 | 6.8 | 7.3 |
| | 6H | 4.3 | 5.9 | 4.8 | 6.4 | 6.9 | 4.3 | 5.9 | 4.9 | 6.4 | 6.9 |
| | 8H | 4.5 | 5.5 | 5.0 | 6.0 | 6.5 | 4.5 | 5.5 | 5.1 | 6.0 | 6.5 |

Variations with the observer position at spacing:

| | | | |
|---|---|---|---|
| S = | 1.0H | 5.5 / -9.7 | 5.5 / -9.7 |
| | 1.5H | 8.2 / -9.5 | 8.2 / -9.5 |
| | 2.0H | 10.2 / -13.2 | 10.2 / -13.2 |