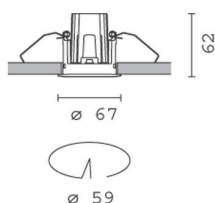
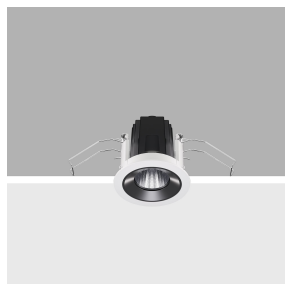


Last information update: May 2025

Product configuration: R663

R663: Fixed round recessed luminaire - LED - medium

**Product code**

R663: Fixed round recessed luminaire - LED - medium

Technical description

Round recessed luminaire with contact frame. Fixed version. The LED is set back to minimize glare. The main body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Metallised, thermoplastic, high definition reflector - medium optic (25°). Structure with die-cast aluminium external contact frame with a single white finish. The internal ring is 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 3,000K 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 59 mm.

Colour

White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | White / Chrome (E4)* | White / burnished chrome (E7)* | White / gold satin-finish (E9)*

Weight (Kg)

0.13

* Colours on request

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 available.

Complies with EN60598-1 and pertinent regulations



IP20

IP44

On the visible part of the product once installed

**Technical data**

| | | | |
|--|-------|---------------------------------------|---------------------------------|
| lm system: | 697 | CRI (minimum): | 90 |
| W system: | 6.8 | Colour temperature [K]: | 4000 |
| lm source: | 860 | MacAdam Step: | 2 |
| W source: | 6.8 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 102.4 | 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.) [%]: | 81 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 22° | LED current [mA]: | 200 |

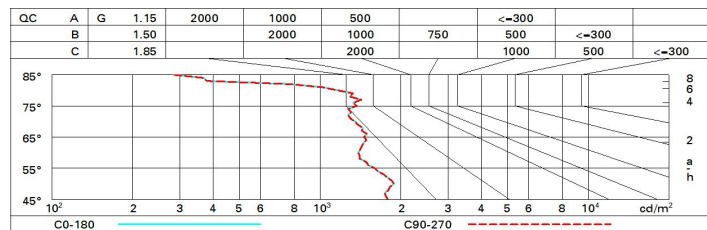
Polar

| Imax=3609 cd | | CIE | | Lux | | | |
|--------------|------|-------------------------------|------------|-----|-----|-----|------------------|
| | | nL 0.81 | | h | d | Em | E _{max} |
| 90° | 180° | 99-100-100-100-81 | UGR <10-10 | 2 | 0.8 | 759 | 902 |
| | | DIN A.61 | | 4 | 1.6 | 190 | 226 |
| | | UTE 0.81A+0.00T | | 6 | 2.4 | 84 | 100 |
| | | F*1=993 | | 8 | 3.3 | 47 | 56 |
| | | F*1+F*2=997 | | | | | |
| | | F*1+F*2+F*3=1000 | | | | | |
| | | CIBSE LG3 L<1500 cd/m² at 65° | | | | | |
| | | UGR<10 L<1500 cd/m² @ 65° | | | | | |
| α=23° | | | | | | | |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 73 | 69 | 67 | 64 | 69 | 66 | 66 | 63 | 78 |
| 1.0 | 76 | 73 | 70 | 68 | 72 | 70 | 69 | 67 | 83 |
| 1.5 | 80 | 77 | 75 | 74 | 76 | 75 | 74 | 72 | 88 |
| 2.0 | 82 | 81 | 79 | 78 | 79 | 78 | 77 | 75 | 93 |
| 2.5 | 84 | 83 | 81 | 81 | 81 | 80 | 80 | 77 | 96 |
| 3.0 | 85 | 84 | 83 | 82 | 83 | 82 | 81 | 79 | 98 |
| 4.0 | 86 | 85 | 85 | 84 | 84 | 84 | 82 | 80 | 99 |
| 5.0 | 87 | 86 | 86 | 85 | 85 | 84 | 83 | 81 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 800 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| | | 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 |
| 2H | 2H | 0.6 | 2.8 | 1.0 | 3.1 | 3.4 | 0.6 | 2.8 | 1.0 | 3.1 | 3.4 |
| | 3H | 1.6 | 3.2 | 2.0 | 3.5 | 3.9 | 0.9 | 2.5 | 1.2 | 2.8 | 3.1 |
| | 4H | 2.1 | 3.4 | 2.4 | 3.7 | 4.0 | 1.0 | 2.3 | 1.4 | 2.6 | 3.0 |
| | 6H | 2.5 | 3.5 | 2.9 | 3.8 | 4.2 | 1.1 | 2.0 | 1.5 | 2.4 | 2.7 |
| | 8H | 2.6 | 3.5 | 3.0 | 3.9 | 4.3 | 1.1 | 2.0 | 1.4 | 2.4 | 2.7 |
| | 12H | 2.5 | 3.5 | 2.9 | 3.9 | 4.2 | 1.0 | 2.0 | 1.4 | 2.4 | 2.7 |
| 4H | 2H | 1.0 | 2.3 | 1.4 | 2.6 | 3.0 | 2.1 | 3.4 | 2.4 | 3.7 | 4.0 |
| | 3H | 2.2 | 3.2 | 2.6 | 3.6 | 3.9 | 2.6 | 3.6 | 3.0 | 3.9 | 4.3 |
| | 4H | 2.7 | 3.8 | 3.2 | 4.2 | 4.6 | 2.7 | 3.8 | 3.2 | 4.2 | 4.6 |
| | 6H | 3.0 | 4.7 | 3.5 | 5.2 | 5.7 | 2.7 | 4.4 | 3.1 | 4.8 | 5.3 |
| | 8H | 3.0 | 4.9 | 3.5 | 5.4 | 5.9 | 2.6 | 4.6 | 3.1 | 5.0 | 5.5 |
| | 12H | 2.9 | 4.9 | 3.4 | 5.4 | 5.9 | 2.6 | 4.5 | 3.1 | 5.0 | 5.6 |
| 8H | 4H | 2.6 | 4.6 | 3.1 | 5.0 | 5.5 | 3.0 | 4.9 | 3.5 | 5.4 | 5.9 |
| | 6H | 3.3 | 5.1 | 3.8 | 5.5 | 6.1 | 3.2 | 5.0 | 3.8 | 5.5 | 6.1 |
| | 8H | 3.4 | 4.9 | 3.9 | 5.4 | 6.0 | 3.4 | 4.9 | 3.9 | 5.4 | 6.0 |
| | 12H | 3.6 | 4.5 | 4.1 | 5.0 | 5.6 | 3.6 | 4.6 | 4.1 | 5.1 | 5.6 |
| 12H | 4H | 2.6 | 4.5 | 3.1 | 5.0 | 5.6 | 2.9 | 4.9 | 3.4 | 5.4 | 5.9 |
| | 6H | 3.3 | 4.9 | 3.8 | 5.4 | 5.9 | 3.3 | 4.8 | 3.8 | 5.3 | 5.9 |
| | 8H | 3.6 | 4.6 | 4.1 | 5.1 | 5.6 | 3.6 | 4.5 | 4.1 | 5.0 | 5.6 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 1.7 / -0.6 | | | | | 1.7 / -0.6 | | | | |
| | 1.5H | 3.4 / -0.9 | | | | | 3.4 / -0.9 | | | | |
| | 2.0H | 4.8 / -1.0 | | | | | 4.8 / -1.0 | | | | |