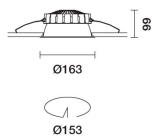
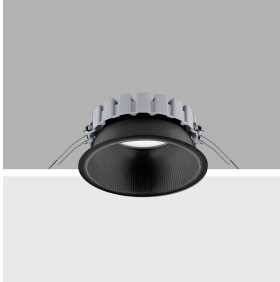


Last information update: March 2025

Product configuration: RM22.83

RM22.83: Ø 153 - 3500K - CRI90 - UGR<19 - INVERTER - Black Transparent

**Product code**

RM22.83: Ø 153 - 3500K - CRI90 - UGR<19 - INVERTER - Black Transparent

Technical description

Round fixed luminaire designed to use LED lamps with C.o.B. technology. Version with rim for surface-mounting. Prismatic thermoplastic reflector complete with flux enhancer. Optic available with two finishes, clear white or clear black. Dissipater made of painted grey die-cast aluminium. Product complete with LED lamp in warm white colour tone (3500K) and microfilm that is able to guarantee a light beam of UGR<19 L<3000 cd/m², which is ideal for environments with video terminals. Luminaire complete with inverter for safety light.

Installation

Recessed using torsion springs which allow easy installation in false ceilings with thicknesses ranging from 1 mm to 25 mm.

Colour

Black Transparent (83)

Weight (Kg)

1.31

Mounting

ceiling surface

Wiring

Product complete with INVERTER for safety light.

Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of the product once installed

**Technical data**

| | | | |
|--|------|--|--|
| lm system: | 1275 | MacAdam Step: | 2 |
| W system: | 15.4 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| lm source: | 1500 | Lamp code: | LED |
| W source: | 9.6 | Number of lamps for optical assembly: | 1 |
| Luminous efficiency (lm/W, real value): | 82.8 | ZVEI Code: | LED |
| lm in emergency mode: | - | Number of optical assemblies: | 1 |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Power factor: | See installation instructions |
| Light Output Ratio (L.O.R.) [%]: | 85 | Inrush current: | 20 A / 200 µs |
| CRI (minimum): | 90 | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 14 luminaires B16A: 23 luminaires C10A: 23 luminaires C16A: 39 luminaires |
| Colour temperature [K]: | 3500 | Overvoltage protection: | 2kV Common mode & 1kV Differential mode |

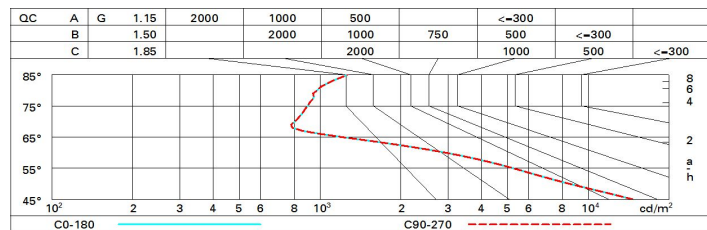
Polar

| Imax=924 cd | | CIE | | Lux | | | |
|-------------|--|-------------------------------------|--|-----|-----|-----|------|
| | | | | h | d | Em | Emax |
| 90° | | nL 0.85 | | 1 | 1.5 | 675 | 883 |
| 180° | | 83-98-100-100-85 | | 2 | 3 | 169 | 221 |
| 90° | | UGR 17.5-17.5 | | 3 | 4.5 | 75 | 98 |
| 90° | | DIN A.61 | | 4 | 6 | 42 | 55 |
| 0° | | UTE | | | | | |
| α = 74° | | 0.85B+0.00T | | | | | |
| | | F*1=831 | | | | | |
| | | F*1+F*2=984 | | | | | |
| | | F*1+F*2+F*3=997 | | | | | |
| | | CIBSE | | | | | |
| | | LG3 L<1500 cd/m ² at 65° | | | | | |
| | | UGR<19 L<1500 cd/mq @ 65° | | | | | |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 70 | 64 | 61 | 58 | 64 | 60 | 60 | 56 | 66 |
| 1.0 | 75 | 70 | 66 | 63 | 69 | 65 | 65 | 61 | 72 |
| 1.5 | 80 | 77 | 74 | 71 | 76 | 73 | 72 | 69 | 81 |
| 2.0 | 84 | 81 | 79 | 77 | 80 | 78 | 77 | 74 | 87 |
| 2.5 | 86 | 84 | 82 | 80 | 82 | 81 | 80 | 77 | 90 |
| 3.0 | 87 | 85 | 84 | 82 | 84 | 83 | 81 | 79 | 93 |
| 4.0 | 88 | 87 | 86 | 85 | 86 | 85 | 83 | 81 | 95 |
| 5.0 | 89 | 88 | 87 | 86 | 87 | 86 | 84 | 82 | 96 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 1500 lm bare lamp luminous flux) | | | | | | | | | | | |
|---|------|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim 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 crosswise | | | | | viewed endwise | | | | |
| 2H | 2H | 17.9 | 18.7 | 18.2 | 18.9 | 19.2 | 17.9 | 18.7 | 18.2 | 18.9 | 19.2 |
| | 3H | 17.8 | 18.5 | 18.1 | 18.8 | 19.1 | 17.9 | 18.5 | 18.2 | 18.8 | 19.1 |
| | 4H | 17.8 | 18.4 | 18.1 | 18.7 | 19.0 | 17.8 | 18.4 | 18.1 | 18.7 | 19.0 |
| | 6H | 17.7 | 18.3 | 18.1 | 18.6 | 18.9 | 17.7 | 18.3 | 18.1 | 18.6 | 18.9 |
| | 8H | 17.7 | 18.2 | 18.0 | 18.6 | 18.9 | 17.7 | 18.2 | 18.0 | 18.6 | 18.9 |
| | 12H | 17.6 | 18.2 | 18.0 | 18.5 | 18.9 | 17.6 | 18.2 | 18.0 | 18.5 | 18.9 |
| 4H | 2H | 17.8 | 18.4 | 18.1 | 18.7 | 19.0 | 17.8 | 18.4 | 18.1 | 18.7 | 19.0 |
| | 3H | 17.7 | 18.2 | 18.0 | 18.5 | 18.9 | 17.7 | 18.2 | 18.1 | 18.6 | 18.9 |
| | 4H | 17.6 | 18.1 | 18.0 | 18.4 | 18.8 | 17.6 | 18.1 | 18.0 | 18.4 | 18.8 |
| | 6H | 17.6 | 18.0 | 18.0 | 18.4 | 18.8 | 17.5 | 17.9 | 18.0 | 18.3 | 18.8 |
| | 8H | 17.5 | 17.9 | 18.0 | 18.3 | 18.8 | 17.5 | 17.9 | 17.9 | 18.3 | 18.7 |
| | 12H | 17.5 | 17.9 | 18.0 | 18.3 | 18.7 | 17.4 | 17.8 | 17.9 | 18.2 | 18.7 |
| 8H | 4H | 17.5 | 17.9 | 17.9 | 18.3 | 18.7 | 17.5 | 17.9 | 18.0 | 18.3 | 18.8 |
| | 6H | 17.5 | 17.8 | 17.9 | 18.2 | 18.7 | 17.5 | 17.8 | 17.9 | 18.2 | 18.7 |
| | 8H | 17.4 | 17.7 | 17.9 | 18.2 | 18.7 | 17.4 | 17.7 | 17.9 | 18.2 | 18.7 |
| | 12H | 17.4 | 17.7 | 17.9 | 18.1 | 18.7 | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 |
| 12H | 4H | 17.4 | 17.8 | 17.9 | 18.2 | 18.7 | 17.5 | 17.9 | 18.0 | 18.3 | 18.7 |
| | 6H | 17.4 | 17.7 | 17.9 | 18.1 | 18.6 | 17.5 | 17.7 | 17.9 | 18.2 | 18.7 |
| | 8H | 17.4 | 17.6 | 17.9 | 18.1 | 18.6 | 17.4 | 17.7 | 17.9 | 18.1 | 18.7 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 2.2 / -4.2 | | | | | 2.2 / -4.2 | | | | |
| | 1.5H | 4.3 / -7.5 | | | | | 4.3 / -7.5 | | | | |
| | 2.0H | 6.3 / -9.4 | | | | | 6.3 / -9.4 | | | | |