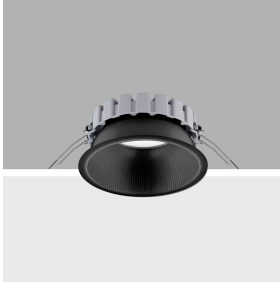


Last information update: March 2025

Product configuration: RM04.83

RM04.83: Ø 163 mm - warm white - INVERTER - 28.7W 2775.5lm - 3500K - CRI 90 - Black Transparent

**Product code**

RM04.83: Ø 163 mm - warm white - INVERTER - 28.7W 2775.5lm - 3500K - CRI 90 - 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. Dissipater made of painted grey die-cast aluminium. Product complete with LED lamp in warm white colour tone (3500K). General lighting beam. 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

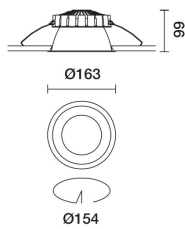
product complete with INVERTER for safety light.

Complies with EN60598-1 and pertinent regulations



IP20

IP54

On the visible part of
the product once installed**Technical data**

lm system:	2562	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	28.7	Lamp code:	LED
lm source:	3050	Number of lamps for optical assembly:	1
W source:	21	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	89.3	Number of optical assemblies:	1
lm in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	19.4 A / 250 µs
Light Output Ratio (L.O.R.) [%]:	84	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 13 luminaires B16A: 21 luminaires C10A: 21 luminaires C16A: 35 luminaires
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3500	Control:	On/off
MacAdam Step:	2		

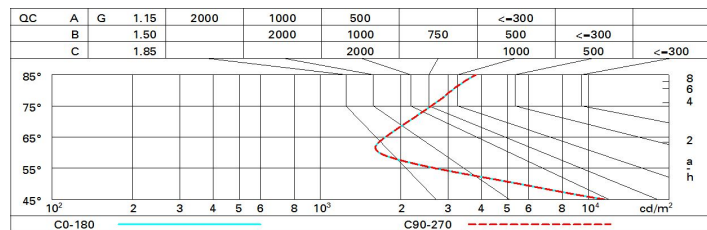
Polar

<p>Imax=2913 cd 90° 180° 90° 3000 0° α = 56°</p>	CIE nL 0.84 93-99-99-100-84 UGR 17.2-17.0 DIN A.61 UTE 0.84A+0.00T F*1=929 F*1+F*2=985 F*1+F*2+F*3=995	Lux			
		h	d	Em	E _{max}
		2	2.1	555	728
		4	4.2	139	182
		6	6.3	62	81
		8	8.5	35	46

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	65	63	68	65	64	61	73
1.0	77	73	70	68	72	69	69	66	78
1.5	81	78	76	74	77	75	74	72	85
2.0	84	82	80	79	81	79	78	76	90
2.5	86	84	83	82	83	82	81	78	93
3.0	87	86	85	84	84	84	82	80	95
4.0	88	87	87	86	86	85	84	82	97
5.0	89	88	88	87	87	86	85	83	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 3050 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	17.2	17.9	17.5	18.1	18.4	17.2	17.9	17.5	18.1	18.4
	3H	17.1	17.8	17.4	18.0	18.3	17.1	17.7	17.4	18.0	18.3
	4H	17.1	17.7	17.5	18.0	18.3	17.0	17.6	17.3	17.9	18.2
	6H	17.2	17.7	17.5	18.0	18.4	16.9	17.5	17.3	17.8	18.1
	8H	17.2	17.7	17.6	18.0	18.4	16.9	17.4	17.3	17.7	18.1
	12H	17.2	17.7	17.6	18.1	18.4	16.9	17.4	17.2	17.7	18.1
4H	2H	17.0	17.6	17.3	17.9	18.2	17.1	17.7	17.5	18.0	18.3
	3H	17.0	17.5	17.4	17.8	18.2	17.1	17.6	17.4	17.9	18.2
	4H	17.0	17.5	17.4	17.8	18.2	17.0	17.5	17.4	17.8	18.2
	6H	17.1	17.5	17.6	17.9	18.3	17.0	17.4	17.4	17.8	18.2
	8H	17.2	17.6	17.6	18.0	18.4	17.0	17.3	17.4	17.7	18.2
	12H	17.3	17.6	17.7	18.0	18.5	16.9	17.3	17.4	17.7	18.2
8H	4H	17.0	17.3	17.4	17.7	18.2	17.2	17.6	17.6	18.0	18.4
	6H	17.2	17.5	17.6	17.9	18.4	17.3	17.5	17.7	18.0	18.5
	8H	17.3	17.5	17.8	18.0	18.5	17.3	17.5	17.8	18.0	18.5
	12H	17.4	17.6	17.9	18.1	18.7	17.3	17.5	17.8	18.0	18.5
12H	4H	16.9	17.3	17.4	17.7	18.2	17.3	17.6	17.7	18.0	18.5
	6H	17.2	17.4	17.6	17.9	18.4	17.4	17.6	17.9	18.1	18.6
	8H	17.3	17.5	17.8	18.0	18.5	17.4	17.6	17.9	18.1	18.7
Variations with the observer position at spacing:											
S =		1.0H	3.4 / -4.1				3.4 / -4.1				
		1.5H	6.0 / -4.4				6.0 / -4.4				
		2.0H	7.9 / -4.5				7.9 / -4.5				