

Last information update: March 2025

Product configuration: RM22.D8

RM22.D8: Ø 153 - 3500K - CRI90 - UGR<19 - INVERTER - White Transparent

**Product code**

RM22.D8: Ø 153 - 3500K - CRI90 - UGR<19 - INVERTER - White 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

White Transparent (D8)

Weight (Kg)

1.31

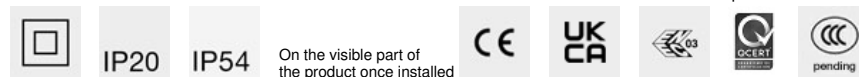
Mounting

ceiling surface

Wiring

Product complete with INVERTER for safety light.

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	1335	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):	86.7	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.) [%]:	89	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

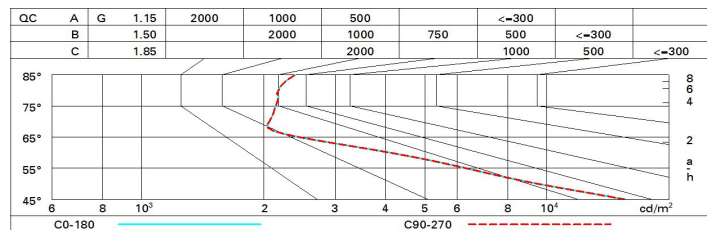
Polar

	CIE nL 0.89 81-97-99-100-89 UGR 18.4-18.2 DIN A.61 UTE 0.89B+0.00T F*1=809 F*1+F*2=970 F*1+F*2+F*3=993 CIBSE LG3 L<3000 cd/m ² at 65° UGR<19 L<3000 cd/mq @65°			
	h	d	Em	E _{max}
	1	1.5	684	893
	2	3	171	223
	3	4.5	76	99
α = 74°	4	6	43	56

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	66	62	59	65	62	61	57	64
1.0	77	72	68	65	71	67	67	63	70
1.5	84	79	76	73	78	75	74	71	80
2.0	87	84	81	79	83	80	79	76	85
2.5	89	87	85	83	85	83	83	79	89
3.0	91	89	87	85	87	86	84	82	92
4.0	92	91	89	88	89	88	87	84	94
5.0	93	92	91	90	90	89	88	85	95

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	18.3	19.1	18.6	19.3	19.6	18.3	19.1	18.6	19.3	19.6
	3H	18.3	19.0	18.6	19.3	19.6	18.3	19.0	18.6	19.3	19.5
	4H	18.3	18.9	18.6	19.2	19.5	18.2	18.9	18.6	19.2	19.5
	6H	18.3	18.9	18.6	19.2	19.5	18.1	18.8	18.5	19.1	19.4
	8H	18.3	18.9	18.7	19.2	19.6	18.1	18.7	18.5	19.0	19.4
	12H	18.3	18.9	18.7	19.2	19.6	18.1	18.6	18.5	19.0	19.3
4H	2H	18.2	18.9	18.6	19.2	19.5	18.3	18.9	18.6	19.2	19.5
	3H	18.2	18.8	18.6	19.1	19.5	18.3	18.9	18.7	19.2	19.6
	4H	18.3	18.8	18.7	19.1	19.5	18.3	18.8	18.7	19.1	19.5
	6H	18.3	18.8	18.8	19.2	19.6	18.2	18.7	18.7	19.1	19.5
	8H	18.4	18.8	18.8	19.2	19.6	18.2	18.6	18.7	19.0	19.5
	12H	18.4	18.7	18.8	19.2	19.6	18.2	18.5	18.6	19.0	19.4
8H	4H	18.2	18.6	18.7	19.0	19.5	18.4	18.8	18.8	19.2	19.6
	6H	18.3	18.7	18.8	19.1	19.6	18.4	18.7	18.9	19.2	19.6
	8H	18.4	18.7	18.9	19.1	19.6	18.4	18.7	18.9	19.1	19.6
	12H	18.5	18.7	19.0	19.2	19.7	18.4	18.6	18.9	19.1	19.6
12H	4H	18.2	18.5	18.6	19.0	19.4	18.4	18.7	18.8	19.2	19.6
	6H	18.3	18.6	18.8	19.1	19.6	18.4	18.7	18.9	19.2	19.7
	8H	18.4	18.6	18.9	19.1	19.6	18.5	18.7	19.0	19.2	19.7
Variations with the observer position at spacing:											
S =	1.0H	1.7 / -2.6					1.7 / -2.6				
	1.5H	3.5 / -4.1					3.5 / -4.1				
	2.0H	5.3 / -4.9					5.3 / -4.9				