

Last information update: January 2025

Product configuration: RN89.R9

RN89.R9: Ceiling-mounted luminaire - Ø172 - UGR < 19 - Champagne/Trasparent/Black Transparent

**Product code**

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Technical description

Direct light luminaire - ceiling-mounted installation. LED lamp with high color rendering index - controlled luminance emission $L < 3000 \text{ cd/m}^2$ - UGR < 19 - ideal for use in environments with video monitors. The light emission unit is made of PMMA and consists of a transparent prismatic reflector combined with a flux enhancer and diffuser screen - an internal polycarbonate cover defines the optical assembly visually. The twin-part external structure of the lighting body is made of machined aluminium - with a uniform or combined paint finish. The practical bayonet coupling system allows the two sections to be separated to perform wiring operations - a steel retaining cable stops the section from falling when divided. DALI dimmable power supply unit integrated in the lighting body.

Installation

ceiling-mounted directly on the structure that can be separated into two sections with a bayonet coupling system.

Colour

Champagne/Trasparent/Black Transparent (R9)

Weight (Kg)

1.09

Mounting

ceiling surface

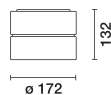
Wiring

Integrated DALI dimmable driver - wiring terminal block positioned in the upper section of the structure.

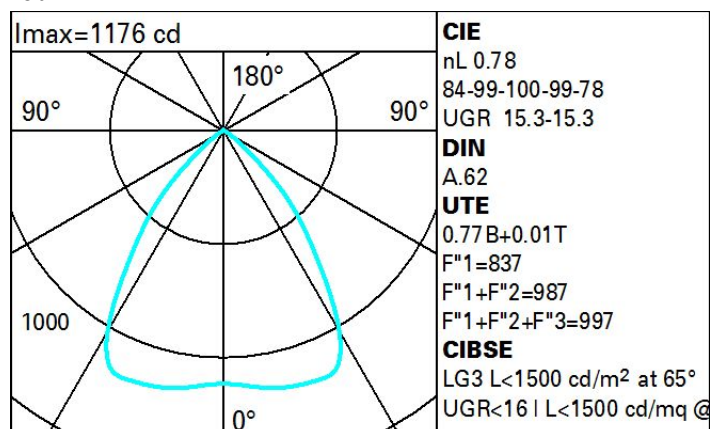
Complies with EN60598-1 and pertinent regulations



IP40

**Technical data**

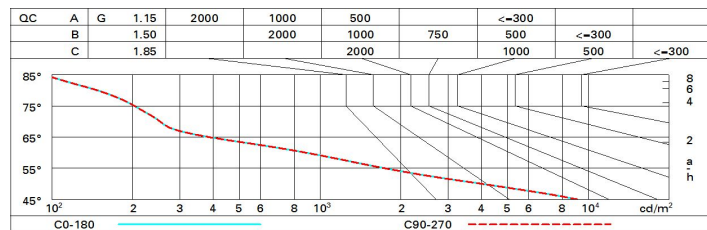
Im system:	1802	CRI (minimum):	90
W system:	16	Colour temperature [K]:	3000
Im source:	2310	MacAdam Step:	2
W source:	16	Lamp code:	LED
Luminous efficiency (Im/W, real value):	112.6	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	19	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	78	Control:	DALI-2

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	64	59	56	53	58	55	54	51	66
1.0	68	64	60	58	63	60	59	56	72
1.5	74	70	68	65	69	67	66	63	81
2.0	77	74	72	70	73	71	70	67	87
2.5	79	77	75	73	75	74	73	70	91
3.0	80	78	77	75	77	75	74	72	93
4.0	81	80	79	78	78	77	76	73	95
5.0	82	81	80	79	79	78	77	74	96

Luminance curve limit



UGR diagram

Corrected UGR values (at 2310 lm bare lamp luminous flux)											
Reflect.: ceil/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	15.8	16.6	16.2	16.9	17.1	15.8	16.6	16.2	16.9	17.1
	3H	15.7	16.4	16.1	16.7	17.0	15.7	16.4	16.1	16.7	17.0
	4H	15.6	16.3	16.0	16.6	16.9	15.7	16.3	16.0	16.6	16.9
	6H	15.6	16.1	15.9	16.5	16.8	15.6	16.2	15.9	16.5	16.8
	8H	15.5	16.1	15.9	16.4	16.8	15.5	16.1	15.9	16.4	16.8
	12H	15.5	16.0	15.9	16.4	16.8	15.5	16.0	15.9	16.4	16.8
4H	2H	15.7	16.3	16.0	16.6	16.9	15.6	16.3	16.0	16.6	16.9
	3H	15.5	16.0	15.9	16.4	16.8	15.5	16.1	15.9	16.4	16.8
	4H	15.4	15.9	15.9	16.3	16.7	15.4	15.9	15.9	16.3	16.7
	6H	15.4	15.8	15.8	16.2	16.6	15.3	15.8	15.8	16.2	16.6
	8H	15.3	15.7	15.8	16.1	16.6	15.3	15.7	15.8	16.1	16.6
	12H	15.3	15.6	15.7	16.1	16.5	15.3	15.6	15.7	16.0	16.5
8H	4H	15.3	15.7	15.8	16.1	16.6	15.3	15.7	15.8	16.1	16.6
	6H	15.2	15.5	15.7	16.0	16.5	15.2	15.5	15.7	16.0	16.5
	8H	15.2	15.4	15.7	15.9	16.4	15.2	15.4	15.7	15.9	16.4
	12H	15.1	15.4	15.7	15.9	16.4	15.1	15.4	15.6	15.9	16.4
12H	4H	15.3	15.6	15.7	16.0	16.5	15.3	15.6	15.7	16.1	16.5
	6H	15.2	15.4	15.7	15.9	16.4	15.2	15.4	15.7	15.9	16.4
	8H	15.1	15.4	15.6	15.9	16.4	15.1	15.4	15.7	15.9	16.4
Variations with the observer position at spacing:											
S =	1.0H	2.8 / -7.6					2.8 / -7.6				
	1.5H	5.3 / -11.8					5.3 / -11.8				
	2.0H	7.3 / -13.8					7.3 / -13.8				