

Last information update: February 2025

Product configuration: RD21.83

RD21.83: 9-cell recessed luminaire - General Lighting - DALI - Transparent/Black



Product code

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Technical description

Recessed luminaire consisting of a lamp device, 9-cell emission raster and operating components. Version for high emission general lighting. Main body made of extruded aluminium - anodised finish - cast zamak end caps - natural finish. Polycarbonate LED lamp support. Steel wire fixing springs. The optical system consists of a translucent textured methacrylate raster, created with a catadioptric system (patented Opti Beam Diamond optic) - with no galvanic treatments - combined with a gloss finish PET cover. The raster includes multiple lens diaphragms for LED lamps. The result generates a high performance light emission combined with a high energy yield. DALI dimmable driver connected to the luminaire.

Installation

recessed with steel wire contrast springs; slot to make in false ceiling: 63 x 543

Colour

Black Transparent (83)

Weight (Kg)

1.06

Mounting

ceiling recessed

Wiring

complete with integrated DALI power supply; quick-coupling connections on driver.

Notes

The product can be connected to centralised emergency systems in compliance with the EN60598-2-22 standard. TPa version available on request, contact iGuzzini for more info

Complies with EN60598-1 and pertinent regulations

IP20

IP43

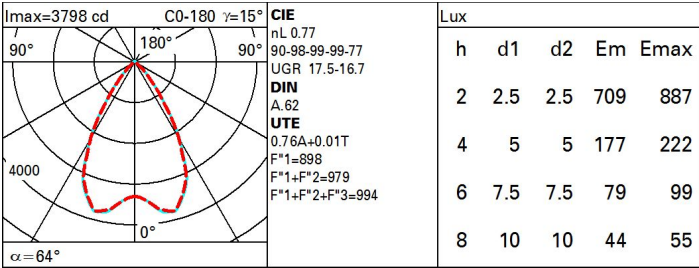
On the visible part of the product once installed



Technical data

Im system:	4120	Colour temperature [K]:	3500
W system:	30.6	MacAdam Step:	3
Im source:	5350	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	27	Lamp code:	LED
Luminous efficiency (Im/W, real value):	134.6	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]:	50	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	77	Control:	DALI-2
CRI (minimum):	80		

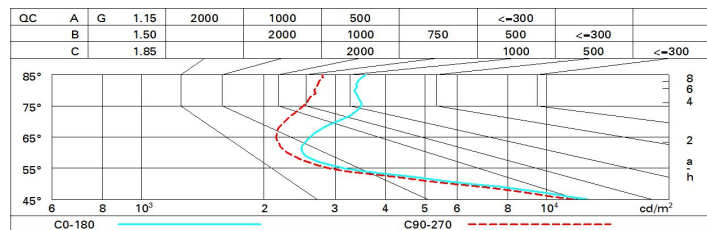
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	61	58	55	60	57	57	54	71
1.0	69	65	62	60	64	61	61	58	76
1.5	74	71	68	66	69	67	66	64	84
2.0	76	74	72	71	73	71	70	68	89
2.5	78	76	75	74	75	74	73	70	92
3.0	79	78	77	76	76	75	74	72	94
4.0	80	79	78	78	78	77	76	73	96
5.0	81	80	79	79	79	78	77	74	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 5350 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
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise			
2H	2H	17.0	17.5	17.3	17.8	18.0	16.8	17.3	17.1	17.6
	3H	17.0	17.6	17.4	17.8	18.1	16.7	17.2	17.0	17.5
	4H	17.2	17.6	17.5	17.9	18.3	16.6	17.1	17.0	17.4
	6H	17.3	17.7	17.6	18.1	18.4	16.6	17.0	16.9	17.3
	8H	17.3	17.8	17.7	18.1	18.5	16.5	17.0	16.9	17.3
	12H	17.4	17.8	17.8	18.1	18.5	16.5	16.9	16.9	17.3
4H	2H	16.8	17.3	17.2	17.6	17.9	16.8	17.3	17.2	17.6
	3H	17.0	17.4	17.3	17.7	18.1	16.8	17.2	17.2	17.5
	4H	17.1	17.5	17.6	17.9	18.3	16.7	17.1	17.2	17.5
	6H	17.4	17.7	17.8	18.1	18.5	16.7	17.0	17.2	17.5
	8H	17.5	17.8	17.9	18.2	18.7	16.7	17.0	17.2	17.4
	12H	17.5	17.8	18.0	18.3	18.7	16.7	17.0	17.2	17.4
8H	4H	17.1	17.4	17.6	17.8	18.3	16.9	17.2	17.4	17.7
	6H	17.4	17.6	17.9	18.1	18.6	17.0	17.2	17.5	17.7
	8H	17.5	17.8	18.0	18.2	18.8	17.0	17.2	17.5	17.7
	12H	17.7	17.9	18.2	18.4	18.9	17.1	17.2	17.6	17.7
12H	4H	17.1	17.3	17.5	17.8	18.3	17.0	17.3	17.5	17.7
	6H	17.4	17.6	17.9	18.1	18.6	17.1	17.3	17.6	17.8
	8H	17.6	17.7	18.1	18.2	18.8	17.2	17.3	17.7	17.8
Variations with the observer position at spacing:										
S =		1.0H	2.8 / -3.0				3.0 / -3.6			
		1.5H	5.1 / -3.4				5.4 / -4.0			
		2.0H	7.0 / -3.5				7.3 / -4.1			