

Last information update: February 2025

Product configuration: RD20.83

RD20.83: 6-cell recessed luminaire - General Lighting - DALI - Transparent/Black

**Product code**

RD20.83: 6-cell recessed luminaire - General Lighting - DALI - Transparent/Black

Technical description

Recessed luminaire consisting of a lamp device, 6-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 363

Colour

Black Transparent (83)

Weight (Kg)

0.8

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

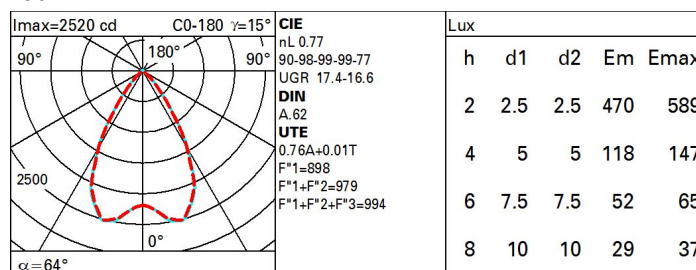
Complies with EN60598-1 and pertinent regulations

IP20

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

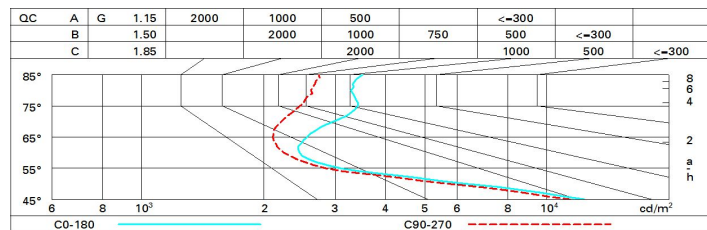
lm system:	2734	Colour temperature [K]:	3500
W system:	20.8	MacAdam Step:	3
lm source:	3550	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	18	Lamp code:	LED
Luminous efficiency (lm/W, real value):	131.4	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	33	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 3550 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	16.9	17.5	17.2	17.7	18.0	16.7	17.3	17.0	17.5	17.8
	3H	17.0	17.5	17.3	17.8	18.1	16.6	17.1	17.0	17.4	17.7
	4H	17.1	17.6	17.4	17.9	18.2	16.6	17.0	16.9	17.4	17.7
	6H	17.2	17.7	17.6	18.0	18.3	16.5	16.9	16.9	17.3	17.6
	8H	17.3	17.7	17.6	18.0	18.4	16.5	16.9	16.9	17.2	17.6
	12H	17.3	17.7	17.7	18.1	18.4	16.4	16.8	16.8	17.2	17.6
4H	2H	16.8	17.2	17.1	17.5	17.9	16.8	17.2	17.1	17.5	17.9
	3H	16.9	17.3	17.3	17.7	18.0	16.7	17.1	17.1	17.5	17.9
	4H	17.1	17.4	17.5	17.8	18.2	16.7	17.0	17.1	17.4	17.8
	6H	17.3	17.6	17.7	18.0	18.5	16.7	17.0	17.1	17.4	17.8
	8H	17.4	17.7	17.9	18.1	18.6	16.6	16.9	17.1	17.4	17.8
	12H	17.5	17.7	18.0	18.2	18.7	16.6	16.9	17.1	17.3	17.8
8H	4H	17.0	17.3	17.5	17.8	18.2	16.9	17.2	17.3	17.6	18.1
	6H	17.3	17.6	17.8	18.0	18.5	16.9	17.2	17.4	17.6	18.1
	8H	17.5	17.7	18.0	18.2	18.7	17.0	17.2	17.5	17.7	18.2
	12H	17.6	17.8	18.2	18.3	18.9	17.0	17.2	17.5	17.7	18.2
12H	4H	17.0	17.3	17.5	17.7	18.2	16.9	17.2	17.4	17.6	18.1
	6H	17.3	17.5	17.8	18.0	18.5	17.0	17.2	17.5	17.7	18.2
	8H	17.5	17.7	18.0	18.2	18.7	17.1	17.3	17.6	17.8	18.3
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			