

Crystal

Design iGuzzini

iGuzzini

Last information update: February 2025

Product configuration: RE70.83

RE70.83: 6-cell recessed luminaire - General Lighting - DALI - Transparent/Black



Product code

RE70.83: 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 with focused optics - medium opening. 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, designed to obtain an emission with a concentrated flux, recommended for lighting environments with a linear layout (e.g. corridors, galleries and aisles). 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)

1

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

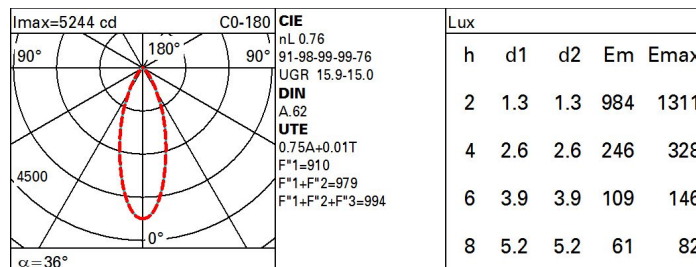
On the visible part of the product once installed



Technical data

lm system:	2706	CRI (minimum):	80
W system:	19.8	Colour temperature [K]:	4000
lm source:	3560	MacAdam Step:	3
W source:	17	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	136.6	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	27	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	76	Number of optical assemblies:	1
Beam angle [°]:	36°	Control:	DALI-2

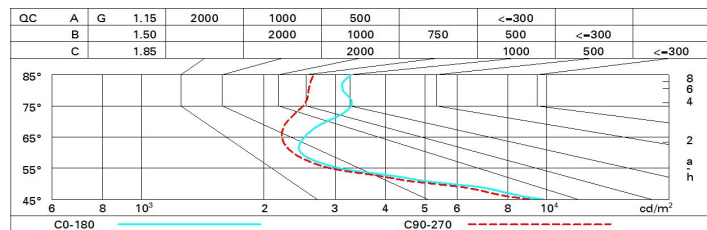
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	65	61	58	56	60	57	57	54	72
1.0	69	65	62	60	64	61	61	58	77
1.5	73	70	68	66	69	67	66	63	84
2.0	76	73	72	70	72	71	70	67	89
2.5	77	76	74	73	74	73	72	70	92
3.0	78	77	76	75	76	75	74	71	95
4.0	80	78	78	77	77	76	75	73	97
5.0	80	79	79	78	78	77	76	74	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 3500 lm bare lamp luminous flux)											
Reflect.: ceiling walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	14.8	15.5	15.1	15.8	16.1	14.7	15.4	15.0	15.6	15.9
	3H	15.0	15.7	15.4	16.0	16.3	14.6	15.2	14.9	15.5	15.8
	4H	15.3	15.9	15.6	16.2	16.5	14.6	15.2	14.9	15.5	15.8
	6H	15.5	16.0	15.9	16.4	16.7	14.5	15.1	14.9	15.4	15.8
	8H	15.6	16.1	16.0	16.5	16.8	14.5	15.0	14.9	15.4	15.7
	12H	15.7	16.2	16.1	16.5	16.9	14.5	15.0	14.9	15.3	15.7
4H	2H	14.7	15.3	15.1	15.6	16.0	14.9	15.5	15.3	15.8	16.1
	3H	15.1	15.6	15.5	15.9	16.3	15.0	15.5	15.4	15.8	16.2
	4H	15.4	15.9	15.8	16.2	16.7	15.0	15.4	15.4	15.8	16.2
	6H	15.8	16.2	16.2	16.6	17.0	15.0	15.4	15.5	15.8	16.3
	8H	15.9	16.3	16.4	16.7	17.2	15.0	15.4	15.5	15.8	16.3
	12H	16.1	16.4	16.5	16.8	17.3	15.0	15.4	15.5	15.8	16.3
8H	4H	15.4	15.8	15.9	16.2	16.7	15.4	15.7	15.8	16.2	16.6
	6H	15.9	16.2	16.4	16.7	17.2	15.5	15.8	16.0	16.3	16.8
	8H	16.2	16.4	16.7	16.9	17.4	15.6	15.9	16.1	16.4	16.9
	12H	16.4	16.6	16.9	17.1	17.6	15.7	15.9	16.2	16.4	16.9
12H	4H	15.4	15.8	15.9	16.2	16.7	15.5	15.8	15.9	16.2	16.7
	6H	15.9	16.2	16.4	16.7	17.2	15.7	15.9	16.2	16.4	16.9
	8H	16.2	16.4	16.7	16.9	17.5	15.8	16.0	16.3	16.5	17.1
Variations with the observer position at spacing:											
S =	1.0H	1.9 / -1.9					2.1 / -2.2				
	1.5H	3.9 / -2.2					4.2 / -2.6				
	2.0H	5.6 / -2.4					6.0 / -2.8				