

Last information update: March 2025

Product configuration: RE80.83

RE80.83: 6-cell recessed luminaire - MEDIUM beam - DALI - Tunable White - 22.7W 2204lm - Tunable white - CRI 90 - Black Transparent

**Product code**

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Technical description

Recessed luminaire consisting of a lamp device, X-cell emission raster and operating components. Version with a medium optic - variant for light emission in Tunable White mode. 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 a concentrated emission, recommended for lighting environments with a fundamentally linear layout (e.g. corridors, galleries and aisles). Flows emitted in dynamic mode Tunable White 2700K - 6500K. 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)

0.88

Mounting

ceiling recessed

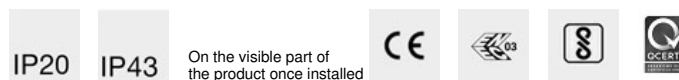
Wiring

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

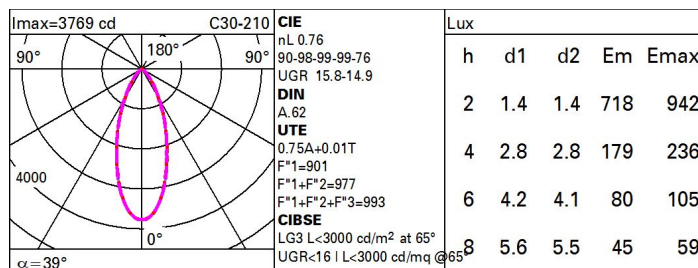
Notes

TPa version available on request, contact iGuzzini for more info

Complies with EN60598-1 and pertinent regulations

**Technical data**

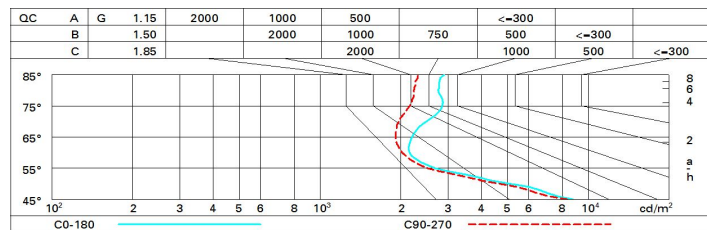
Im system:	2204	Voltage [Vin]:	230
W system:	22.7	Lamp code:	LED
Im source:	2900	Number of lamps for optical assembly:	1
W source:	20	ZVEI Code:	LED
Luminous efficiency (Im/W, real value):	97.1	Number of optical assemblies:	1
Im in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	23	Inrush current:	29 A / 153 µs
Light Output Ratio (L.O.R.) [%]:	76	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 32 luminaires B16A: 51 luminaires C10A: 53 luminaires C16A: 86 luminaires
Beam angle [°]:	38°	Minimum dimming %:	1
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	Tunable white 2700 - 6500	Control:	DALI-2
Life Time LED 1:	> 50,000h - L85 - B10 (Ta 25°C)		

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	65	60	57	55	60	57	56	53	71
1.0	68	64	61	59	63	61	60	57	76
1.5	73	70	67	65	69	67	66	63	84
2.0	76	73	71	70	72	70	69	67	89
2.5	77	75	74	73	74	73	72	69	92
3.0	78	77	76	75	75	74	73	71	94
4.0	79	78	78	77	77	76	75	73	96
5.0	80	79	78	78	78	77	76	73	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 2900 lm bare lamp luminous flux)											
Riflect.: ceil/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	14.8	15.4	15.1	15.7	15.9	14.6	15.3	14.9	15.5	15.8
	3H	15.0	15.6	15.3	15.9	16.2	14.6	15.2	14.9	15.4	15.7
	4H	15.2	15.7	15.5	16.0	16.4	14.5	15.1	14.9	15.4	15.7
	6H	15.4	15.9	15.8	16.2	16.6	14.5	15.0	14.8	15.3	15.7
	8H	15.5	16.0	15.9	16.3	16.7	14.4	14.9	14.8	15.3	15.6
	12H	15.5	16.0	15.9	16.4	16.8	14.4	14.9	14.8	15.2	15.6
4H	2H	14.7	15.2	15.0	15.5	15.8	14.8	15.4	15.2	15.7	16.0
	3H	15.0	15.4	15.4	15.8	16.2	14.9	15.4	15.3	15.7	16.1
	4H	15.3	15.7	15.7	16.1	16.5	14.9	15.3	15.3	15.7	16.1
	6H	15.7	16.0	16.1	16.5	16.9	14.9	15.3	15.4	15.7	16.1
	8H	15.8	16.2	16.3	16.6	17.0	14.9	15.3	15.4	15.7	16.2
	12H	15.9	16.2	16.4	16.7	17.2	14.9	15.2	15.4	15.7	16.2
8H	4H	15.3	15.7	15.8	16.1	16.6	15.3	15.6	15.7	16.0	16.5
	6H	15.8	16.1	16.3	16.5	17.0	15.4	15.7	15.9	16.1	16.6
	8H	16.0	16.3	16.5	16.7	17.3	15.5	15.7	16.0	16.2	16.7
	12H	16.2	16.4	16.7	16.9	17.5	15.5	15.7	16.1	16.2	16.8
12H	4H	15.3	15.6	15.8	16.1	16.5	15.4	15.7	15.8	16.1	16.6
	6H	15.8	16.0	16.3	16.5	17.0	15.5	15.8	16.0	16.3	16.8
	8H	16.1	16.3	16.6	16.8	17.3	15.7	15.9	16.2	16.4	16.9
Variations with the observer position at spacing:											
S =	1.0H	1.9 / -2.0					2.1 / -2.3				
	1.5H	3.9 / -2.3					4.2 / -2.7				
	2.0H	5.6 / -2.4					5.9 / -2.9				