

Last information update: February 2025

**Product configuration: RD12.83**

RD12.83: 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. LED lamps with high color rendering index. 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

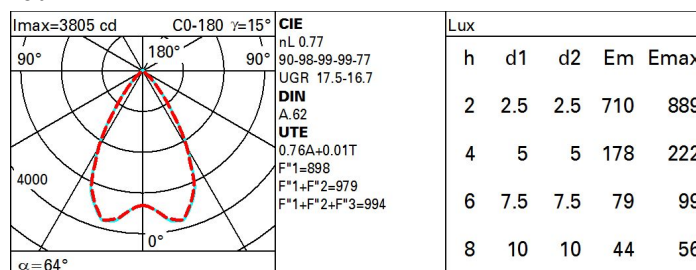
IP20

IP43

On the visible part of the product once installed

**Technical data**

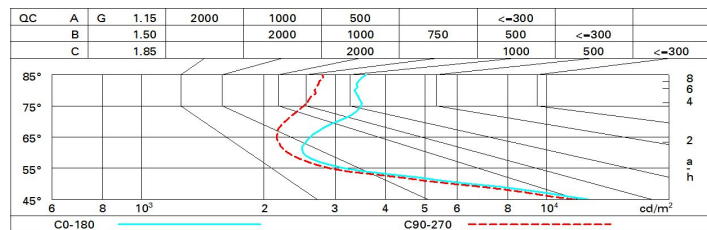
Im system:	4127	Colour temperature [K]:	3000
W system:	37.3	MacAdam Step:	3
Im source:	5360	Life Time LED 1:	> 50,000h - L85 - B10 (Ta 25°C)
W source:	33	Lamp code:	LED
Luminous efficiency (Im/W, real value):	110.6	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light 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):	90		

**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 5360 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	17.1	17.6	17.4	17.8	18.1	16.7	17.2	17.0	17.5
	4H	17.2	17.6	17.5	18.0	18.3	16.6	17.1	17.0	17.4
	6H	17.3	17.7	17.7	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	17.4	17.7	18.1	16.8	17.2	17.2	17.5
	4H	17.1	17.5	17.6	17.9	18.3	16.8	17.1	17.2	17.5
	6H	17.4	17.7	17.8	18.1	18.6	16.7	17.1	17.2	17.5
	8H	17.5	17.8	17.9	18.2	18.7	16.7	17.0	17.2	17.4
	12H	17.6	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	17.0	17.2	17.4	17.7
	6H	17.4	17.6	17.9	18.1	18.6	17.0	17.3	17.5	17.7
	8H	17.6	17.8	18.1	18.2	18.8	17.0	17.3	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			