Crystal

Design iGuzzini **iGuzzini**

Last information update: December 2025

Product configuration: RE79.83
RE79.83: 3-cell recessed luminaire - MEDIUM beam - Tunable White - 9.8W 1102lm - Tunable white - CRI 90 - Black Transparent

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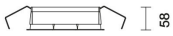
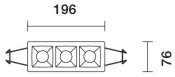
Technical description
Recessed luminaire consisting of a lamp device and a 3-cell emission raster - model with operating components to be ordered separately. Version with a medium optic - variant for light emission in Tunable White mode. Main body made of extruded aluminium - anodised finish - cast zamak 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. The accessory wiring components - specific for this type of product - also include the use of several recessed luminaires with a single power supply unit.

Installation
recessed with steel wire contrast springs; slot to make in false ceiling: 63 x 183





Colour	**Weight (Kg)**
Black Transparent (83)	0.4

Mounting
ceiling recessed

Wiring
Drivers and wiring components are available with a separate item code. This system allows several recessed luminaires to be used (2 / 3 max) with a single power supply unit. For more detailed information, please look at the instruction sheet.

Notes
Possibility of multiple uses through the use of splitters (mandatory) and connection extensions to be ordered separately.
TPa version available on request, contact iGuzzini for more info

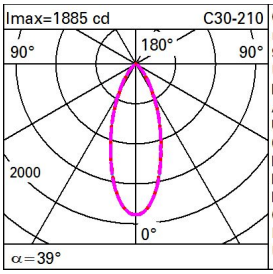
Complies with EN60598-1 and pertinent regulations

IP20 IP43 On the visible part of the product once installed

Technical data

lm system:	1102	Rf (Colour Fidelity Index):	93
W system:	9.8	Rg (Gamut Index):	101
lm source:	1450	Colour temperature [K]:	Tunable white 2700 - 6500
W source:	9.8	Life Time LED 1:	> 50,000h - L85 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	112.4	Voltage [Vin]:	230
lm in emergency mode:	-	Lamp code:	LED
Total light flux at or above an angle of 90° [Lm]:	12	Number of lamps for optical assembly:	1
Light Output Ratio (L.O.R.) [%]:	76	ZVEI Code:	LED
Beam angle [°]:	38°	Number of optical assemblies:	1
CRI (minimum):	90	LED current [mA]:	50

Polar



CIE
nL 0.76
90-98-99-99-76
UGR 15.7-14.8
DIN
A.62
UTE
0.75A+0.01T
F"1=901
F"1+F"2=977
F"1+F"2+F"3=993
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<16 I L<3000 cd/mq @65

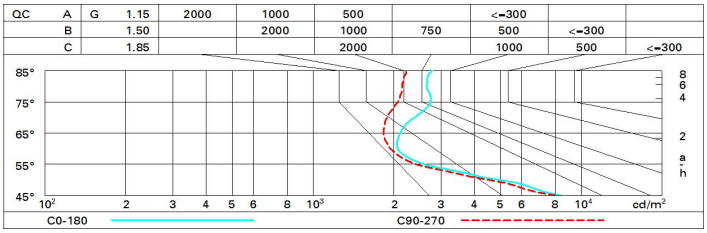
Lux

h	d1	d2	Em	Emax
2	1.4	1.4	359	471
4	2.8	2.8	90	118
6	4.2	4.1	40	52
8	5.6	5.5	22	29

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 1450 lm bare lamp luminous flux)

Riflect.: ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim				viewed crosswise					viewed endwise		
x	y										
2H	2H	14.6	15.3	14.9	15.5	15.8	14.5	15.1	14.8	15.4	15.7
	3H	14.8	15.4	15.2	15.7	16.0	14.4	15.0	14.7	15.3	15.6
	4H	15.0	15.6	15.4	15.9	16.2	14.4	14.9	14.7	15.2	15.6
	6H	15.2	15.8	15.6	16.1	16.4	14.3	14.8	14.7	15.2	15.5
	8H	15.3	15.8	15.7	16.2	16.5	14.3	14.8	14.7	15.1	15.5
	12H	15.4	15.9	15.8	16.2	16.6	14.3	14.7	14.7	15.1	15.5
4H	2H	14.5	15.1	14.9	15.4	15.7	14.7	15.2	15.0	15.6	15.9
	3H	14.8	15.3	15.2	15.7	16.0	14.7	15.2	15.1	15.6	15.9
	4H	15.2	15.6	15.6	16.0	16.4	14.7	15.2	15.2	15.6	16.0
	6H	15.5	15.9	16.0	16.3	16.7	14.8	15.1	15.2	15.6	16.0
	8H	15.7	16.0	16.1	16.4	16.9	14.8	15.1	15.2	15.6	16.0
	12H	15.8	16.1	16.3	16.5	17.0	14.8	15.1	15.2	15.5	16.0
8H	4H	15.2	15.5	15.6	15.9	16.4	15.1	15.5	15.6	15.9	16.3
	6H	15.7	15.9	16.1	16.4	16.9	15.3	15.5	15.7	16.0	16.5
	8H	15.9	16.1	16.4	16.6	17.1	15.3	15.6	15.8	16.1	16.6
	12H	16.1	16.3	16.6	16.8	17.3	15.4	15.6	15.9	16.1	16.6
12H	4H	15.2	15.5	15.6	15.9	16.4	15.2	15.5	15.7	16.0	16.4
	6H	15.7	15.9	16.2	16.4	16.9	15.4	15.6	15.9	16.1	16.6
	8H	15.9	16.1	16.4	16.6	17.2	15.5	15.7	16.0	16.2	16.8

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