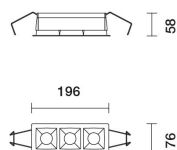
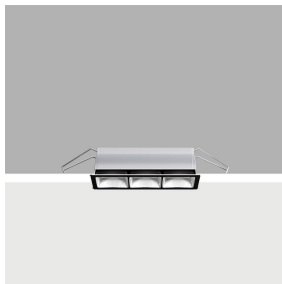


Last information update: May 2025

Product configuration: RD16.83

RD16.83: 3-cell recessed luminaire - UGR<19 - Transparent/Black

**Product code**

RD16.83: 3-cell recessed luminaire - UGR<19 - Transparent/Black

Technical description

Recessed luminaire consisting of a lamp device and a 3-cell emission raster - model with operating components to be ordered separately. Version for UGR < 19 controlled luminance lighting - in compliance with the standard for use in environments with video monitors. 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 an extremely elegant and professional light emission combined with a high level of operating efficiency. The accessory wiring components 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

Black Transparent (83)

Weight (Kg)

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. The product can also be connected to centralised emergency systems in compliance with the EN60598-2-22 standard. For more detailed information, see the instruction sheet.

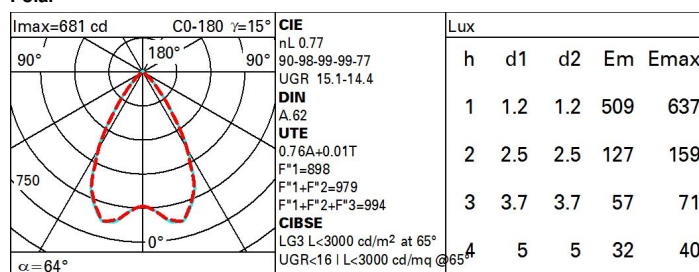
Notes

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

**Technical data**

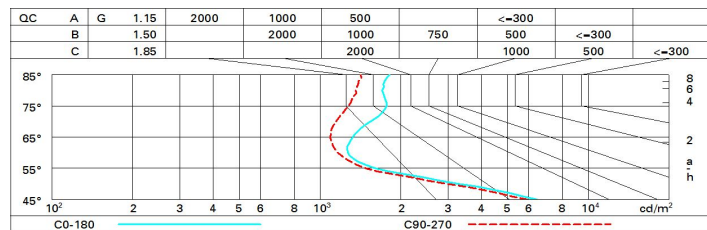
Im system:	739	CRI (minimum):	90
W system:	5.5	Colour temperature [K]:	3500
Im source:	960	MacAdam Step:	3
W source:	5.5	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	134.4	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	9	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	77	Number of optical assemblies:	1

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 900 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	14.6	15.2	14.9	15.4	15.7	14.4	15.0	14.7	15.2	15.5
	3H	14.7	15.2	15.0	15.5	15.8	14.3	14.8	14.7	15.1	15.4
	4H	14.8	15.3	15.2	15.6	15.9	14.3	14.8	14.6	15.1	15.4
	6H	14.9	15.4	15.3	15.7	16.1	14.2	14.7	14.6	15.0	15.3
	8H	15.0	15.4	15.4	15.8	16.1	14.2	14.6	14.6	15.0	15.3
	12H	15.0	15.4	15.4	15.8	16.2	14.2	14.6	14.6	14.9	15.3
4H	2H	14.5	14.9	14.8	15.3	15.6	14.5	14.9	14.8	15.3	15.6
	3H	14.6	15.0	15.0	15.4	15.7	14.4	14.8	14.8	15.2	15.6
	4H	14.8	15.2	15.2	15.5	16.0	14.4	14.8	14.8	15.2	15.6
	6H	15.0	15.3	15.5	15.8	16.2	14.4	14.7	14.8	15.1	15.6
	8H	15.1	15.4	15.6	15.8	16.3	14.4	14.7	14.8	15.1	15.6
	12H	15.2	15.5	15.7	15.9	16.4	14.3	14.6	14.8	15.1	15.5
8H	4H	14.8	15.0	15.2	15.5	15.9	14.6	14.9	15.1	15.3	15.8
	6H	15.1	15.3	15.5	15.8	16.3	14.7	14.9	15.1	15.4	15.9
	8H	15.2	15.4	15.7	15.9	16.4	14.7	14.9	15.2	15.4	15.9
	12H	15.4	15.5	15.9	16.0	16.6	14.7	14.9	15.2	15.4	15.9
12H	4H	14.7	15.0	15.2	15.4	15.9	14.6	14.9	15.1	15.4	15.8
	6H	15.0	15.2	15.5	15.7	16.3	14.7	14.9	15.2	15.4	16.0
	8H	15.2	15.4	15.7	15.9	16.4	14.8	15.0	15.3	15.5	16.0
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				