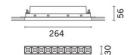
Design iGuzzini

iGuzzini

Last information update: May 2018









### 10 cell Frameless Recessed luminaire - Tunable White - Flood optic

### Product code

P190

#### **Technical description**

Minimal rectangular 10 optic element recessed miniaturised luminaire. Using LED lamps at different colour temperatures allows them to be modulated. This variation is achieved by mixing the emission of  $5 \times 2700 \text{K}$  high CRI LEDs and  $5 \times 5700 \text{K}$  high CRI LEDs. The colour temperature remains uniform and constant even when different size products are used together and with an uneven number of warm and cold LEDs. Main body with die-cast aluminium radiant surface; frameless version for mounting flush with the ceiling. Metallised thermoplastic high definition optics - flood beam - set back from the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled glare. Supplied with an integrated (basic) power system that allows the colour temperature to be varied, without using any extra components, but simply by pressing the buttons (max 4 products). Using the 6170 + M630 codes you can obtain a simple and intuitive DALI programmable solution with touch-screen. There are also other control systems available with different codes for large systems that require specialised technicians for their programming: the MH97 + MH93 + MI02 group can be used for a DALI / KNX programmable solution - the MH97 + MH93 + M618 group can be used to extend the control of the system to remote supports such as tablets and smart phones.

#### Installation

recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter for fitting luminaire to false ceilings (12.5 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and stylish finishing. Preparation hole 35 x 271

#### Dimension (mm)

264x30x56

### Colour

Black (04)

## Weight (Kg)

0.93

### Mounting

wall recessed|ceiling recessed

# Wiring

Power units included. Various management solutions are available with a separate code. For technical data, properties and connection modes see the instruction sheet.

Complies with EN60598-1 and pertinent regulations















### Product configuration: P190

## Product characteristics

Total lighting output [Lm]: 1396.7 Total power [W]: 26 Luminous efficacy [Lm/W]: 53.7 Life Time: 50,000h - L90 - B10 (Ta 25°C)

Emergency luminous flux [Lm]: / Voltage [V]: -Number of optical assemblies: 1

MacAdam Step:

# Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 80 Lamp code: LED ZVEI Code: LED Nominal power [W]: 18 Nominal luminous [Lm]: 1750 Lamp maximum intensity [cd]: / Beam angle [°]: 30°

Number of lamps for optical assembly: 1 Socket: / Ballast losses [W]: 8 Colour temperature [K]: / CRI: / Wavelength [Nm]: /

Total luminous flux at or above an angle of 90° [Lm]: 0

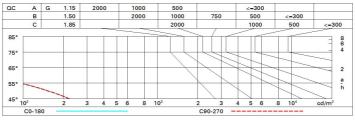
## Polar

Imax=5030 cd	CIE	Lux			
90° 180° 90°	466 466 466 466 66	h	d	Em	Emax
	UGR <10-<10 <b>DIN</b> A.61 <b>UTE</b>	2	1.1	980	1257
K XIIX X	0.80A+0.00T F"1=999	4	2.1	245	314
4500	F"1+F"2=1000 F"1+F"2+F"3=1000 CIBSE	6	3.2	109	140
α=30°	LG3 L<200 cd/m <sup>2</sup> at 65° BZ1	8	4.3	61	79

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	68	66	64	68	65	65	63	78
1.0	75	72	70	68	71	69	69	66	83
1.5	79	76	75	73	76	74	73	71	89
2.0	81	80	78	77	78	77	76	74	93
2.5	83	82	80	80	80	79	79	76	96
3.0	84	83	82	81	82	81	80	78	98
4.0	85	84	84	83	83	82	81	79	99
5.0	85	85	84	84	84	83	82	80	100

# Luminance curve limit



## UGR diagram

Riflect ceil/ca walls work   Room x 2H	pl. n dim y 2H	0.70 0.50 0.20	0.70 0.30 0.20	0.50 0.50 0.20	0.50	0.30	0.70							
work   Room x 2H	pl. n dim y				0.00		0.70	0.70	0.50	0.50	0.30			
Room x 2H	y 2H	0.20	0.20	0.20	0.30	0.30 0.20	0.50	0.30	0.50	0.30	0.30			
х 2Н	у 2Н	838.555			0.20		0.20	0.20	0.20					
2H	2H			viewed					viewed					
200			crosswise					endwise						
4H	100000	-6.0	-5.5	-5.7	-5.3	-5.0	-6.0	<b>-</b> 5.5	-5.7	-5.3	-5.0			
<b>4</b> H	3H	-6.1	-5.7	-5.8	-5.4	-5.1	-6.1	-5.7	-5.8	-5.4	-5.1			
4H	4H	-6.2	-5.8	-5.9	-5.5	-5.2	-6.2	-5.8	-5.9	-5.5	-5.2			
4H	6H	-6.2	-5.9	-5.9	-5.5	-5.2	-6.3	-5.9	-5.9	-5.6	-5.2			
4H	H8	-6.3	-5.9	-5.9	-5.6	-5.2	-6.3	-5.9	-6.0	-5.6	-5.3			
4H	12H	-6.3	-5.9	-5.9	-5.6	-5.3	-6.4	-6.0	-6.0	-5.7	-5.3			
	2H	-6.2	-5.8	-5.9	-5.5	-5.2	-6.2	-5.8	-5.9	-5.5	-5.2			
	ЗН	-6.3	-6.0	-6.0	-5.6	-5.3	-6.3	-5.9	-5.9	-5.6	-5.3			
	4H	-6.4	-6.1	-6.0	-5.7	-5.3	-6.4	-6.1	-6.0	-5.7	-5.3			
	бН	-6.5	-6.2	-6.0	-5.8	-5.4	-6.5	-6.2	-6.0	-5.8	-5.4			
	HS	-6.5	-6.2	-6.0	-5.8	-5.4	-6.5	-6.3	-6.1	-5.8	-5.4			
	12H	-6.5	-6.3	-6.1	-5.9	-5.4	-6.6	-6.3	-6.1	-5.9	-5.4			
вн	4H	-6.5	-6.3	-6.1	-5.8	-5.4	-6.5	-6.2	-6.0	-5.8	-5.4			
	6H	-6.6	-6.4	-6.1	-5.9	-5.4	-6.6	-6.3	-6.1	-5.9	-5.4			
	H8	-6.6	-6.4	-6.1	-6.0	-5.5	-6.6	-6.4	-6.1	-6.0	-5.5			
	12H	-6.6	-6.5	-6.1	-6.0	-5.5	-6.6	-6.5	-6.1	-6.0	-5.5			
12H	4H	-6.6	-6.3	-6.1	-5.9	-5.4	-6.5	-6.3	-6.1	-5.9	-5.4			
	бН	-6.6	-6.4	-6.1	-6.0	-5.5	-6.6	-6.4	-6.1	-5.9	-5.4			
	HS	-6.6	-6.5	-6.1	-6.0	-5.5	-6.6	-6.5	-6.1	-6.0	-5.5			
Variat	tions wi	th the ob	oserver p	noitieo	at spacin	ıg:								
S =	1.0H	6.4 / -8.9					6.4 / -8.9							
	1.5H 2.0H	9.2 / -10.1					9.2 / -10.1							