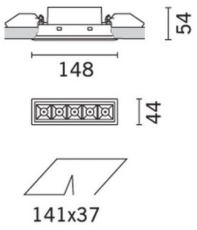
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: May 2018



5 cell Recessed luminaire - Tunable White - Flood optic

Product code
P182

Technical description
Rectangular 5 optic element recessed miniaturised luminaire. LED lamps with different colour temperatures that allow them to be modulated. This variation is achieved by mixing the emission of 3 x 2700K high CRI LEDs and 2 x 5700K high CRI LEDs. Despite the disparity of the lamps when the two end channels are used - 2700K and 5700K - the intensity of the flux emitted is the same. The colour temperature also remains uniform and constant even when different size products are used together. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. 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 for false ceilings from 1 to 25 mm thick - preparation hole 37 x 141

Dimension (mm)
148x44x54

Colour
White (01) | White/Brass (41) | Black/Black (43) | Black/White (47) | Grey/Black (74) | (E7)

Weight (Kg)
0.5

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

IP20 IP23 On the visible part of the product once installed

Product configuration: P182

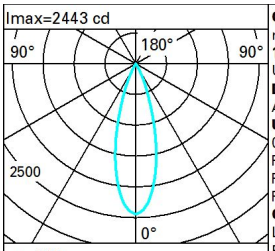
Product characteristics

Total lighting output [Lm]: 678.4	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 16.8	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 40.4	Voltage [V]: -
Life Time: 50,000h - L90 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 80	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 7.9
Nominal power [W]: 8.9	Colour temperature [K]: /
Nominal luminous [Lm]: 850	CRI: /
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 30°	MacAdam Step: /

Polar



CIE
nL 0.80
100-100-100-100-80
UGR <10-<10
DIN
A.61
UTE
0.80A+0.00T
F"1=999
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<200 cd/m² at 65°
BZ1

Lux

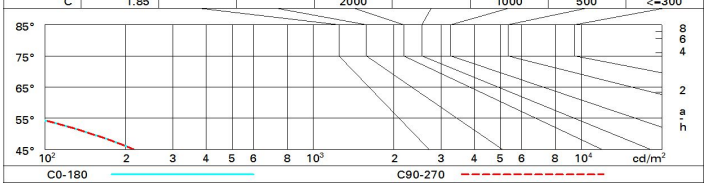
h	d	Em	Emax
2	1.1	476	611
4	2.1	119	153
6	3.2	53	68
8	4.3	30	38

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

QC		G								
	A		1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300



UGR diagram

Corrected UGR values (at 850 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	-6.1	-5.6	-5.8	-5.4	-5.1	-6.1	-5.6	-5.8	-5.4	-5.1
	3H	-6.2	-5.8	-5.9	-5.5	-5.2	-6.2	-5.8	-5.9	-5.5	-5.2
	4H	-6.3	-5.9	-6.0	-5.6	-5.3	-6.3	-5.9	-6.0	-5.6	-5.3
	6H	-6.3	-6.0	-6.0	-5.6	-5.3	-6.4	-6.0	-6.0	-5.7	-5.4
	8H	-6.4	-6.0	-6.0	-5.7	-5.3	-6.4	-6.0	-6.1	-5.7	-5.4
	12H	-6.4	-6.0	-6.0	-5.7	-5.4	-6.5	-6.1	-6.1	-5.8	-5.4
4H	2H	-6.3	-5.9	-6.0	-5.6	-5.3	-6.3	-5.9	-6.0	-5.6	-5.3
	3H	-6.4	-6.1	-6.1	-5.7	-5.4	-6.4	-6.0	-6.0	-5.7	-5.4
	4H	-6.5	-6.2	-6.1	-5.8	-5.4	-6.5	-6.2	-6.1	-5.8	-5.4
	6H	-6.6	-6.3	-6.1	-5.9	-5.5	-6.6	-6.3	-6.1	-5.9	-5.5
	8H	-6.6	-6.3	-6.2	-5.9	-5.5	-6.6	-6.4	-6.2	-5.9	-5.5
	12H	-6.6	-6.4	-6.2	-6.0	-5.5	-6.7	-6.4	-6.2	-6.0	-5.5
8H	4H	-6.6	-6.4	-6.2	-5.9	-5.5	-6.6	-6.3	-6.2	-5.9	-5.5
	6H	-6.7	-6.5	-6.2	-6.0	-5.5	-6.7	-6.4	-6.2	-6.0	-5.5
	8H	-6.7	-6.5	-6.2	-6.1	-5.6	-6.7	-6.5	-6.2	-6.1	-5.6
	12H	-6.7	-6.6	-6.2	-6.1	-5.6	-6.7	-6.6	-6.2	-6.1	-5.6
12H	4H	-6.7	-6.4	-6.2	-6.0	-5.5	-6.6	-6.4	-6.2	-6.0	-5.5
	6H	-6.7	-6.5	-6.2	-6.1	-5.6	-6.7	-6.5	-6.2	-6.0	-5.5
	8H	-6.7	-6.6	-6.2	-6.1	-5.6	-6.7	-6.6	-6.2	-6.1	-5.6

Variations with the observer position at spacing:

S =			
	1.0H	6.4 / -8.9	6.4 / -8.9
	1.5H	9.2 / -10.1	9.2 / -10.1
	2.0H	11.2 / -10.6	11.2 / -10.6