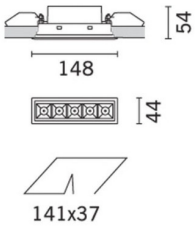
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: October 2024

Product configuration: Q251
Q251: 5 cell Recessed luminaire - Tunable White - Wide Flood optic



Product code
Q251: 5 cell Recessed luminaire - Tunable White - Wide Flood optic

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 - wide 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

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

Mounting
wall recessed|ceiling recessed

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

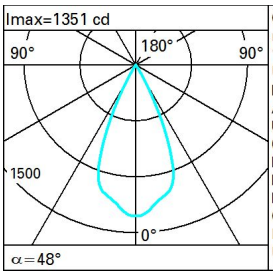
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	705	CRI (typical):	97
W system:	8.9	Colour temperature [K]:	Tunable white 2700 - 5700
lm source:	850	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
W source:	8.9	Lamp code:	LED
Luminous efficiency (lm/W, real value):	79.2	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	83	LED current [mA]:	700
Beam angle [°]:	48°		

Polar



CIE
nL 0.83
100-100-100-100-83
UGR <10-<10
DIN
A.61
UTE
0.83A+0.00T
F"1=999
F"1+F"2=999
F"1+F"2+F"3=999
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

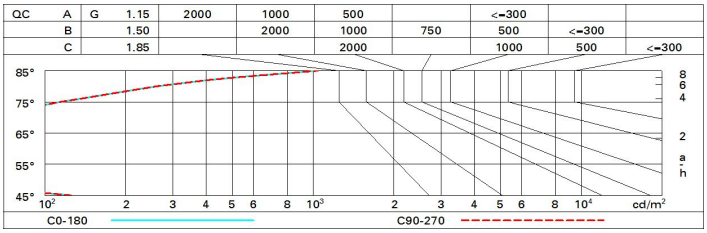
Lux

h	d	Em	Emax
1	0.9	1057	1351
2	1.8	264	338
3	2.7	117	150
4	3.6	66	84

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	75	71	68	66	70	68	68	65	78
1.0	78	75	72	70	74	72	71	69	83
1.5	82	79	77	76	78	77	76	73	89
2.0	85	83	81	80	81	80	79	77	93
2.5	86	85	84	83	83	82	82	79	96
3.0	87	86	85	85	85	84	83	81	98
4.0	88	87	87	86	86	86	84	82	99
5.0	89	88	88	87	87	86	85	83	100

Luminance curve limit



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	3.1	3.5	3.3	3.8	4.0	3.1	3.5	3.3	3.8	4.0
	3H	2.9	3.4	3.2	3.6	3.9	2.9	3.4	3.2	3.6	3.9
	4H	2.9	3.3	3.2	3.6	3.8	2.8	3.3	3.2	3.5	3.8
	6H	2.8	3.2	3.1	3.5	3.8	2.8	3.1	3.1	3.5	3.8
	8H	2.8	3.2	3.2	3.5	3.8	2.7	3.1	3.1	3.4	3.8
	12H	2.9	3.3	3.3	3.6	3.9	2.7	3.0	3.1	3.4	3.7
4H	2H	2.8	3.3	3.2	3.5	3.8	2.9	3.3	3.2	3.6	3.8
	3H	2.7	3.0	3.1	3.4	3.7	2.7	3.1	3.1	3.4	3.7
	4H	2.6	2.9	3.0	3.3	3.7	2.6	2.9	3.0	3.3	3.7
	6H	2.6	2.8	3.0	3.2	3.7	2.5	2.8	3.0	3.2	3.6
	8H	2.6	2.9	3.0	3.3	3.7	2.5	2.7	2.9	3.2	3.6
	12H	2.8	3.0	3.3	3.5	3.9	2.4	2.7	2.9	3.1	3.6
8H	4H	2.5	2.7	2.9	3.2	3.6	2.6	2.9	3.0	3.3	3.7
	6H	2.5	2.7	2.9	3.1	3.6	2.6	2.8	3.0	3.2	3.7
	8H	2.6	2.7	3.0	3.2	3.7	2.6	2.7	3.0	3.2	3.7
	12H	3.0	3.1	3.5	3.6	4.1	2.6	2.7	3.1	3.2	3.7
12H	4H	2.4	2.7	2.9	3.1	3.6	2.8	3.0	3.3	3.5	3.9
	6H	2.4	2.6	2.9	3.1	3.6	2.9	3.1	3.4	3.5	4.0
	8H	2.6	2.7	3.1	3.2	3.7	3.0	3.1	3.5	3.6	4.1

Variations with the observer position at spacing:

S =			
	1.0H	5.9 / -5.4	5.9 / -5.4
	1.5H	8.6 / -5.5	8.6 / -5.5
	2.0H	10.6 / -5.9	10.6 / -5.9