Laser Blade

Design iGuzzini **iGuzzini**

Last information update: January 2025

Product configuration: MU99.43
MU99.43: 5 - cell Recessed luminaire - LED - Warm white- Wide Flood optic - 9.8W 779.5lm - 3000K - CRI 95 - Black / Black

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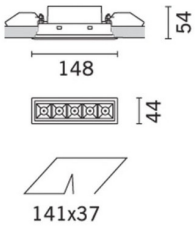
Technical description
rectangular miniaturised recessed luminaire with 5 optical elements with LED lamps - fixed optics - wide flood beam angle. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised thermoplastic high definition optics, integrated in a rear position in 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 .Warm white high colour rendering LED

Installation
recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 141

Colour	**Weight (Kg)**
Black / Black (43)	0.29



Mounting
wall recessed|ceiling recessed

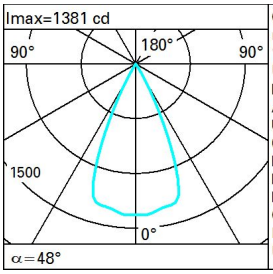
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	780	CRI (typical):	97
W system:	9.8	Colour temperature [K]:	3000
lm source:	940	MacAdam Step:	3
W source:	9.8	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	79.5	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	83	Number of optical assemblies:	1
Beam angle [°]:	48°	LED current [mA]:	700
CRI (minimum):	95		

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=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

Lux

h	d	Em	Emax
1	0.9	1156	1377
2	1.8	289	344
3	2.7	128	153
4	3.6	72	86

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	79	77	76	74	89
2.0	85	83	81	80	82	80	79	77	93
2.5	86	85	84	83	84	83	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	88	87	86	85	83	100

UGR diagram

Corrected UGR values (at 940 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 x	y	viewed crosswise					viewed endwise				
2H	2H	1.5	2.0	1.8	2.2	2.5	1.5	2.0	1.8	2.2	2.5
	3H	1.4	1.8	1.7	2.1	2.4	1.4	1.8	1.7	2.1	2.4
	4H	1.3	1.7	1.6	2.0	2.3	1.3	1.7	1.6	2.0	2.3
	6H	1.2	1.6	1.6	1.9	2.3	1.2	1.6	1.6	1.9	2.2
	8H	1.2	1.6	1.6	1.9	2.2	1.2	1.6	1.6	1.9	2.2
	12H	1.2	1.5	1.5	1.9	2.2	1.2	1.5	1.5	1.8	2.2
4H	2H	1.3	1.7	1.6	2.0	2.3	1.3	1.7	1.6	2.0	2.3
	3H	1.2	1.5	1.5	1.9	2.2	1.2	1.5	1.5	1.9	2.2
	4H	1.1	1.4	1.5	1.8	2.1	1.1	1.4	1.5	1.8	2.1
	6H	1.0	1.3	1.4	1.7	2.1	1.0	1.3	1.4	1.7	2.1
	8H	0.9	1.2	1.4	1.6	2.0	0.9	1.2	1.4	1.6	2.0
	12H	0.9	1.1	1.3	1.6	2.0	0.9	1.1	1.3	1.5	2.0
8H	4H	0.9	1.2	1.4	1.6	2.0	0.9	1.2	1.4	1.6	2.0
	6H	0.9	1.1	1.3	1.5	2.0	0.9	1.1	1.3	1.5	2.0
	8H	0.8	1.0	1.3	1.4	1.9	0.8	1.0	1.3	1.4	1.9
	12H	0.7	0.9	1.2	1.4	1.9	0.7	0.9	1.2	1.4	1.9
12H	4H	0.9	1.1	1.3	1.5	2.0	0.9	1.1	1.3	1.6	2.0
	6H	0.8	1.0	1.3	1.4	1.9	0.8	1.0	1.3	1.4	1.9
	8H	0.7	0.9	1.2	1.4	1.9	0.7	0.9	1.2	1.4	1.9

Variations with the observer position at spacing:

S =			
	1.0H	6.9 / -18.0	6.9 / -18.0
	1.5H	9.7 / -18.3	9.7 / -18.3
	2.0H	11.7 / -18.4	11.7 / -18.4