Laser Blade L

Design iGuzzini **iGuzzini**

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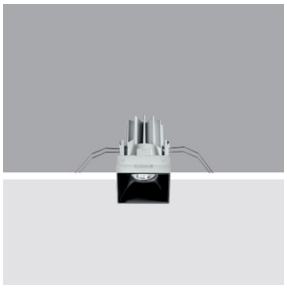
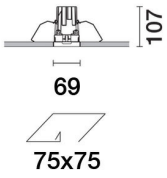


Fixed, Recessed luminaire - Minimal - Warm LED - Incorporated DALI dimmable power supply - WideFlood optic Beam

Product code
N144

Technical description
Fixed optic, recessed luminaire for a warm white LED lamp with a high color rendering index. Flush with ceiling version (frameless). Passive heat dissipation system. Lamp body with radiant surface made of die-cast aluminum. False ceiling adapter with bracket system that adapts to the thickness of the panels. Metallised, thermoplastic, high definition optic, integrated in a rear position in the anti-glare screen. Glass cover for LED lamp. The structure of the optical system produces light emission with controlled luminance (UGR < 19). Equipped with a dimmable DALI ballast connected to the luminaire.



Installation
recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (between 12.5 mm and 25 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation slot 75 x 75. Installation permitted in either a horizontal or vertical position.

Dimension (mm)
72x72x107

Colour
White (01) | Black (04)

Weight (Kg)
0.56

Mounting
wall recessed|ceiling recessed

Wiring
on the control gears box with quick-coupling connections. Digital electronic cabling that allows dimming to be performed with DALI protocol or a pushbutton switch (DIM SWITCH).

Notes
The product with its white finish (01) includes an optic ring for limiting luminance; a feature that renders a performance of UGR < 19 and determines slight variations in the opening of the optic (52°) and yield (0.74).

Complies with EN60598-1 and pertinent regulations

IP20 IP44 On the visible part of the product once installed

Product configuration: N144.01

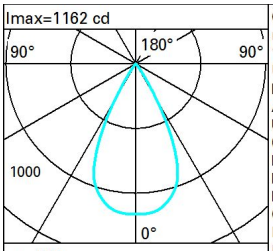
Product characteristics

Total lighting output [Lm]: 776.5	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 10.8	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 71.9	Voltage [V]: 230
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 74	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.3
Nominal power [W]: 8.5	Colour temperature [K]: 3000
Nominal luminous [Lm]: 1050	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 52°	MacAdam Step: 3

Polar



CIE
nL 0.74
100-100-100-100-74
UGR 10.4-10.4
DIN
A.61
UTE
0.74A+0.00T
F"1=996
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1000 cd/m² at 65°
BZ1

Lux

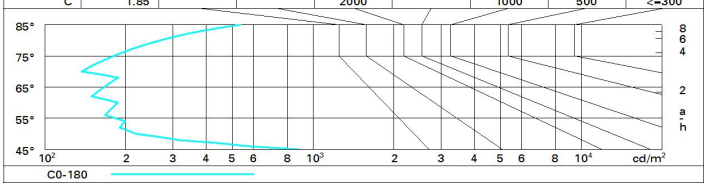
h	d	Em	Emax
1	1	936	1162
2	2	234	291
3	2.9	104	129
4	3.9	58	73

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	67	63	61	59	63	61	60	58	78
1.0	70	67	64	63	66	64	64	61	83
1.5	73	71	69	67	70	68	68	65	88
2.0	75	74	72	71	73	71	71	69	93
2.5	77	75	74	74	74	73	73	71	96
3.0	78	77	76	75	76	75	74	72	98
4.0	79	78	77	77	77	76	75	73	99
5.0	79	79	78	78	77	77	76	74	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 1050 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					viewed		
x	y			crosswise					endwise		
2H	2H	11.0	11.6	11.3	11.8	12.0	11.0	11.6	11.3	11.8	12.0
	3H	10.9	11.4	11.2	11.6	11.9	10.9	11.4	11.2	11.6	11.9
	4H	10.8	11.3	11.1	11.6	11.9	10.8	11.3	11.1	11.6	11.9
	6H	10.7	11.2	11.1	11.5	11.8	10.7	11.2	11.1	11.5	11.8
	8H	10.7	11.1	11.1	11.4	11.8	10.7	11.1	11.1	11.4	11.8
	12H	10.7	11.1	11.0	11.4	11.7	10.7	11.0	11.0	11.4	11.7
4H	2H	10.8	11.3	11.1	11.6	11.9	10.8	11.3	11.1	11.6	11.9
	3H	10.7	11.1	11.0	11.4	11.7	10.7	11.1	11.0	11.4	11.7
	4H	10.6	10.9	11.0	11.3	11.7	10.6	10.9	11.0	11.3	11.7
	6H	10.5	10.8	10.9	11.2	11.6	10.5	10.8	10.9	11.2	11.6
	8H	10.4	10.7	10.9	11.1	11.6	10.4	10.7	10.9	11.1	11.6
	12H	10.4	10.7	10.9	11.1	11.5	10.4	10.6	10.8	11.1	11.5
8H	4H	10.4	10.7	10.9	11.1	11.6	10.4	10.7	10.9	11.1	11.6
	6H	10.4	10.6	10.8	11.0	11.5	10.4	10.6	10.8	11.0	11.5
	8H	10.3	10.5	10.8	11.0	11.5	10.3	10.5	10.8	11.0	11.5
	12H	10.3	10.4	10.8	10.9	11.4	10.3	10.4	10.8	10.9	11.4
12H	4H	10.4	10.6	10.8	11.1	11.5	10.4	10.7	10.9	11.1	11.5
	6H	10.3	10.5	10.8	11.0	11.5	10.3	10.5	10.8	11.0	11.5
	8H	10.3	10.4	10.8	10.9	11.4	10.3	10.4	10.8	10.9	11.4

Variations with the observer position at spacing:

S =	1.0H	6.5 / -14.3	6.5 / -14.3
	1.5H	9.3 / -14.5	9.3 / -14.5
	2.0H	11.3 / -14.6	11.3 / -14.6