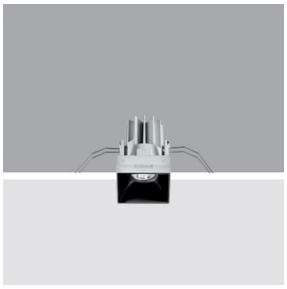
Laser Blade L

Design iGuzzini **iGuzzini**

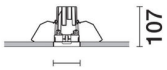
Last information update: May 2018



Fixed, Recessed luminaire - Minimal - Warm LED - Electronic control gear included - Flood optic Beam

Product code
N140

Technical description
Fixed optic, recessed luminaire for a 2700K 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 an electronic ballast connected to the luminaire.



75x75

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 gear box with quick-coupling connections.

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 (32°) and yield (0.73).

Complies with EN60598-1 and pertinent regulations

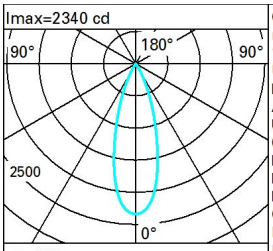
IP20 IP44 On the visible part of the product once installed

Product configuration: N140.01

Product characteristics
Total lighting output [Lm]: 765.5
Total power [W]: 11.7
Luminous efficacy [Lm/W]: 65.4
Life Time: 50,000h - L80 - B10 (Ta 25°C)
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: 230
Number of optical assemblies: 1

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 73
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 9.2
Nominal luminous [Lm]: 1050
Lamp maximum intensity [cd]: /
Beam angle [°]: 32°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.5
Colour temperature [K]: 2700
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 3

Polar



CIE
nL 0.73
100-100-100-100-73
UGR <10-<10
DIN
A.61
UTE
0.73A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<500 cd/m² at 65°
BZ1

Lux

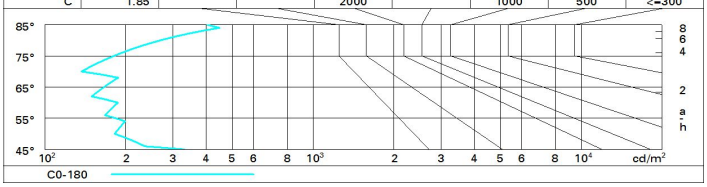
h	d	Em	Emax
2	1.1	460	585
4	2.3	115	146
6	3.4	51	65
8	4.6	29	37

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	60	58	62	60	59	57	78
1.0	69	66	63	62	65	63	63	60	83
1.5	72	70	68	67	69	67	67	65	89
2.0	74	73	71	70	72	70	70	68	93
2.5	76	74	73	73	73	72	72	70	96
3.0	77	76	75	74	75	74	73	71	98
4.0	77	77	76	76	76	75	74	72	99
5.0	78	78	77	77	76	76	75	73	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	5.1	5.6	5.4	5.9	6.1	5.1	5.6	5.4	5.9	6.1
	3H	5.0	5.5	5.3	5.7	6.0	5.0	5.4	5.3	5.7	6.0
	4H	4.9	5.4	5.2	5.6	5.9	4.9	5.3	5.2	5.6	5.9
	6H	4.8	5.3	5.2	5.6	5.9	4.8	5.2	5.2	5.5	5.9
	8H	4.8	5.2	5.2	5.5	5.9	4.8	5.2	5.1	5.5	5.8
	12H	4.8	5.2	5.2	5.5	5.9	4.7	5.1	5.1	5.5	5.8
4H	2H	4.9	5.3	5.2	5.6	5.9	4.9	5.4	5.2	5.6	5.9
	3H	4.8	5.1	5.1	5.5	5.8	4.8	5.1	5.1	5.5	5.8
	4H	4.7	5.0	5.1	5.4	5.8	4.7	5.0	5.1	5.4	5.8
	6H	4.6	4.9	5.0	5.3	5.7	4.6	4.9	5.0	5.3	5.7
	8H	4.6	4.9	5.0	5.3	5.7	4.6	4.8	5.0	5.2	5.7
	12H	4.6	4.8	5.0	5.3	5.7	4.5	4.8	5.0	5.2	5.6
8H	4H	4.6	4.8	5.0	5.2	5.7	4.6	4.9	5.0	5.3	5.7
	6H	4.5	4.7	5.0	5.2	5.7	4.5	4.8	5.0	5.2	5.7
	8H	4.5	4.7	5.0	5.2	5.7	4.5	4.7	5.0	5.2	5.7
	12H	4.5	4.7	5.0	5.2	5.7	4.5	4.6	5.0	5.1	5.6
12H	4H	4.5	4.8	5.0	5.2	5.6	4.6	4.8	5.0	5.3	5.7
	6H	4.5	4.7	4.9	5.1	5.6	4.5	4.7	5.0	5.2	5.7
	8H	4.5	4.6	5.0	5.1	5.6	4.5	4.7	5.0	5.2	5.7

Variations with the observer position at spacing:

S =	1.0H	6.3 / -8.8	6.3 / -8.8
	1.5H	9.1 / -9.0	9.1 / -9.0
	2.0H	11.1 / -9.1	11.1 / -9.1