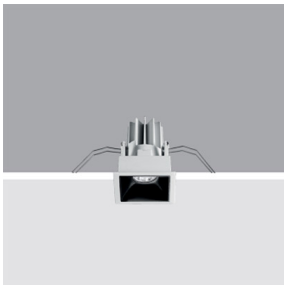
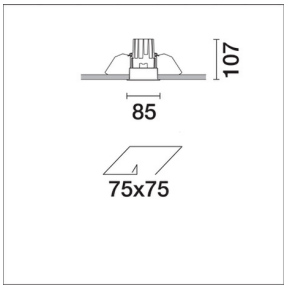
Laser Blade L

Design iGuzzini **iGuzzini**

Last information update: May 2018





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

Product code
N164

Technical description
Fixed optic, recessed luminaire for a 2700K warm white LED lamp with a high color rendering index. Passive heat dissipation system. Lamp body with die-cast aluminium radiant surface, version with perimeter surface frame. 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 for false ceilings from 1 to 25 mm thick - preparation hole 75 x 75. Installation permitted in either a horizontal or vertical position.

Dimension (mm)
85x85x107

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

Weight (Kg)
0.5

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

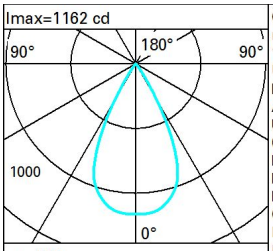
IP20 IP44 On the visible part of the product once installed

Product configuration: N164.01

Product characteristics
Total lighting output [Lm]: 776.5
Total power [W]: 11.6
Luminous efficacy [Lm/W]: 66.9
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.) [%]: 74
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 9.2
Nominal luminous [Lm]: 1050
Lamp maximum intensity [cd]: /
Beam angle [°]: 52°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.4
Colour temperature [K]: 2700
CRI: 90
Wavelength [Nm]: /
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

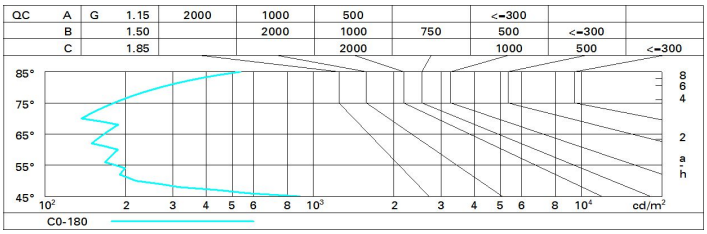
Lux

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



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