Laser Blade L

Design iGuzzini **iGuzzini**

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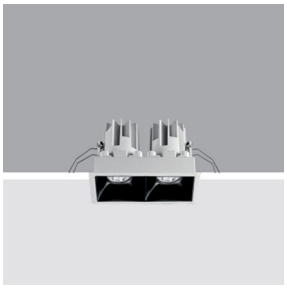
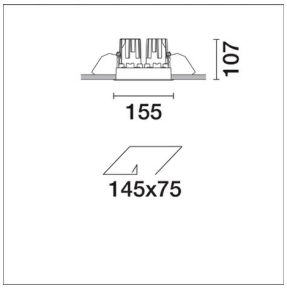




Fixed, two compartment Recessed luminaire - Warm LED - Incorporated DALI dimmable power supply - WideFlood optic Beam

Product code
N168

Technical description
Fixed optic, twin compartment, recessed luminaire for warm white 2700K LED lamps 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 optics, integrated in a rear position in the anti-glare screens. Glass covers for LED lamps. The structure of the optical system produces light emission with controlled luminance (UGR < 19). Supplied with DALI dimmable power supply unit connected to the luminaire.

Installation
recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 75 x 145. Installation permitted in either a horizontal or vertical position.

Dimension (mm)
155x85x107

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

Weight (Kg)
1

Mounting
wall recessed|ceiling recessed

Wiring
Quick-fit power supply connection to terminal block. Il cablaggio elettronico digitale permette la dimmerazione con protocollo DALI o con interruttore a pulsante (SWITCH DIM).

Notes
The product with its white finish (01) includes optic rings for limiting luminance; a feature that renders a performance of UGR < 19 and determines slight variations in the opening of the optics (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: N168.01

Product characteristics

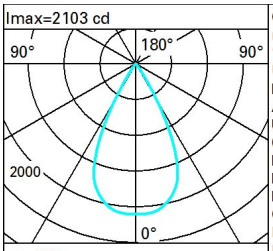
Total lighting output [Lm]: 1405.1	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 21.2	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 66.3	Voltage [V]: 230
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

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]: 4.2
Nominal power [W]: 17	Colour temperature [K]: 2700
Nominal luminous [Lm]: 1900	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 52°	MacAdam Step: 3

Polar

Imax=2103 cd



α=52°

CIE
nL 0.74
100-100-100-100-74
UGR 10.1-10.1
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<500 cd/m² at 65°
BZ1

Lux

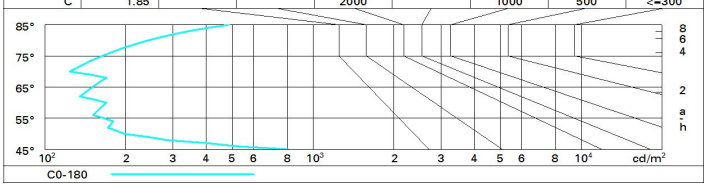
h	d	Em	Emax
2	2	423	526
4	3.9	106	131
6	5.9	47	58
8	7.8	26	33

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



C0-180

UGR diagram

Corrected UGR values (at 1900 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	10.7	11.2	10.9	11.4	11.7	10.7	11.2	10.9	11.4	11.7
	3H	10.5	11.0	10.8	11.3	11.6	10.5	11.0	10.8	11.3	11.6
	4H	10.5	10.9	10.8	11.2	11.5	10.5	10.9	10.8	11.2	11.5
	6H	10.4	10.8	10.7	11.1	11.4	10.4	10.8	10.7	11.1	11.4
	8H	10.4	10.8	10.7	11.1	11.4	10.3	10.8	10.7	11.1	11.4
	12H	10.3	10.7	10.7	11.0	11.4	10.3	10.7	10.7	11.0	11.4
4H	2H	10.5	10.9	10.8	11.2	11.5	10.5	10.9	10.8	11.2	11.5
	3H	10.3	10.7	10.7	11.0	11.4	10.3	10.7	10.7	11.0	11.4
	4H	10.2	10.6	10.6	10.9	11.3	10.2	10.6	10.6	10.9	11.3
	6H	10.1	10.4	10.6	10.8	11.3	10.1	10.4	10.6	10.8	11.3
	8H	10.1	10.4	10.5	10.8	11.2	10.1	10.4	10.5	10.8	11.2
	12H	10.1	10.3	10.5	10.7	11.2	10.0	10.3	10.5	10.7	11.2
8H	4H	10.1	10.4	10.5	10.8	11.2	10.1	10.4	10.5	10.8	11.2
	6H	10.0	10.2	10.5	10.7	11.2	10.0	10.2	10.5	10.7	11.2
	8H	10.0	10.2	10.4	10.6	11.1	10.0	10.2	10.4	10.6	11.1
	12H	9.9	10.1	10.4	10.6	11.1	9.9	10.1	10.4	10.6	11.1
12H	4H	10.0	10.3	10.5	10.7	11.2	10.1	10.3	10.5	10.7	11.2
	6H	9.9	10.1	10.4	10.6	11.1	10.0	10.2	10.5	10.6	11.1
	8H	9.9	10.1	10.4	10.6	11.1	9.9	10.1	10.4	10.6	11.1

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