Laser Blade L
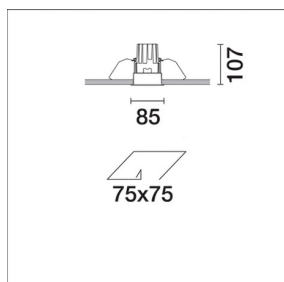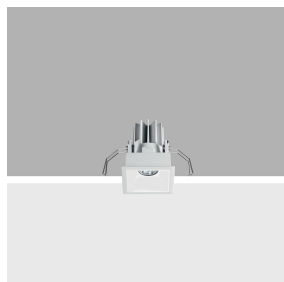
Design iGuzzini   **iGuzzini**

Last information update: May 2024

Product configuration: N158.01
N158.01: Fixed, Recessed luminaire - Warm LED - Electronic control gear included - WideFlood optic Beam - White

Product code
N158.01: Fixed, Recessed luminaire - Warm LED - Electronic control gear included - WideFlood optic Beam - White **Attention! Code no longer in production**

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 an electronic 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.

Colour	Weight (Kg)
White (01)	0.5

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 (52°) and yield (0.74).

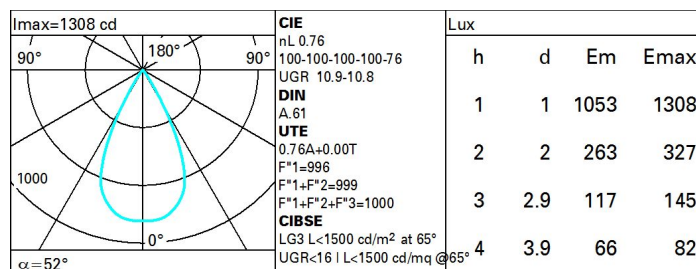Complies with EN60598-1 and pertinent regulations

☐ IP20 IP44 On the visible part of the product once installed   CE ✓03 CCC S&E S EHC ▽ Ⓢ

Technical data

lm system:	874		CRI (minimum):	90
W system:	11.4		Colour temperature [K]:	2700
lm source:	1150		MacAdam Step:	2
W source:	8.9		Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	76.6		Voltage [Vin]:	230
lm in emergency mode:	-		Lamp code:	LED
Total light flux at or above an angle of 90° [Lm]:	0		Number of lamps for optical assembly:	1
Light Output Ratio (L.O.R.) [%]:	76		ZVEI Code:	LED
Beam angle [°]:	52°		Number of optical assemblies:	1

Polar

lmax=1308 cd

CIE
nL 0.76
100-100-100-100-76
UGR 10.9-10.8
DIN
A.61
UTE
0.76A+0.00T
F"1=996
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 | L<1500 cd/mq @65°

α=52°

Lux			
h	d	Em	Emax
1	1	1053	1308
2	2	263	327
3	2.9	117	145
4	3.9	66	82

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	61	64	62	62	59	78
1.0	72	68	66	64	68	66	65	63	83
1.5	75	73	71	69	72	70	69	67	88
2.0	77	76	74	73	75	73	73	71	93
2.5	79	78	77	76	76	76	75	73	96
3.0	80	79	78	77	78	77	76	74	98
4.0	81	80	80	79	79	78	77	75	99
5.0	81	81	80	80	79	79	78	76	100

Luminance curve limit

QC	A	G	1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300

C0-180 ———————
C90-270 - - - - - - - - - -
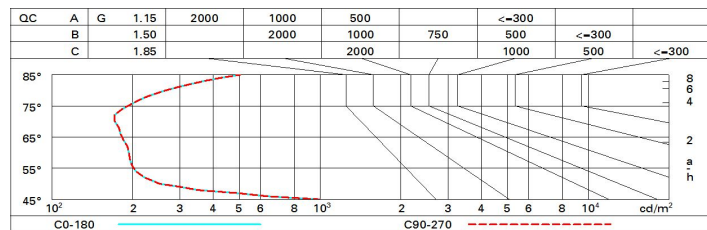
UGR diagram

Corrected UGR values (at 1150 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 crosswise					viewed endwise				
x	y										
2H	2H	11.4	12.0	11.7	12.2	12.4	11.4	12.0	11.7	12.2	12.4
	3H	11.3	11.8	11.6	12.1	12.3	11.3	11.8	11.6	12.1	12.3
	4H	11.2	11.7	11.5	12.0	12.3	11.2	11.7	11.5	12.0	12.3
	6H	11.1	11.6	11.5	11.9	12.2	11.1	11.6	11.5	11.9	12.2
	8H	11.1	11.5	11.5	11.8	12.2	11.1	11.5	11.5	11.8	12.2
	12H	11.1	11.5	11.4	11.8	12.2	11.1	11.5	11.4	11.8	12.1
4H	2H	11.2	11.7	11.5	12.0	12.3	11.2	11.7	11.5	12.0	12.3
	3H	11.1	11.5	11.4	11.8	12.1	11.1	11.5	11.4	11.8	12.1
	4H	11.0	11.3	11.4	11.7	12.1	11.0	11.3	11.4	11.7	12.1
	6H	10.9	11.2	11.3	11.6	12.0	10.9	11.2	11.3	11.6	12.0
	8H	10.9	11.1	11.3	11.5	12.0	10.8	11.1	11.3	11.5	12.0
	12H	10.8	11.1	11.3	11.5	11.9	10.8	11.0	11.2	11.5	11.9
8H	4H	10.8	11.1	11.3	11.5	12.0	10.9	11.1	11.3	11.5	12.0
	6H	10.8	11.0	11.2	11.4	11.9	10.8	11.0	11.2	11.4	11.9
	8H	10.7	10.9	11.2	11.4	11.9	10.7	10.9	11.2	11.4	11.9
	12H	10.7	10.8	11.2	11.3	11.8	10.7	10.8	11.2	11.3	11.8
12H	4H	10.8	11.0	11.2	11.5	11.9	10.8	11.1	11.3	11.5	11.9
	6H	10.7	10.9	11.2	11.4	11.9	10.7	10.9	11.2	11.4	11.9
	8H	10.7	10.8	11.2	11.3	11.8	10.7	10.8	11.2	11.3	11.8

Variations with the observer position at spacing:

S =	1.0H	6.5 / -15.1	6.5 / -15.1
	1.5H	9.3 / -15.3	9.3 / -15.3
	2.0H	11.3 / -15.5	11.3 / -15.5