Laser Blade L

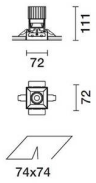
Design iGuzzini **iGuzzini**

Last information update: May 2018

Minimal Adjustable Recessed Luminaire - Warm White LED - Wide Flood beam - DALI

Product code
P757

Technical description
Recessed luminaire with adjustable optic for warm white LED 2700K with high colour rendering index. Passive cooling system. Adjustable body can be rotated within the recess to ensure precise but comfortable lighting and considerably reduced direct glare. 355° internal rotation and max 30° oscillation with continuous friction. Adapter for false ceilings with bracket system adapting to panel thickness, for installation flush with the ceiling. Fixed recess structure in die-cast aluminium The recessed luminaire includes a radiant aluminium element, a steel junction for the optical assembly and a thermoplastic rotation ring. Metallised thermoplastic reflector with high definition optic and wide flood beam aperture. External thermoplastic anti-glare screen. Transparent protection glass for LED light source. Supplied with DALI dimmable power supply unit connected to the luminaire.



Installation
Recessed with steel torsional springs on a specific adapter (included), ensuring flush ceiling installation. Fixed to false ceiling with adapter screws (thickness from 12.5 mm to 25 mm); the wall is then filled and skim-coated; insertion of recess and finishing touches. Recess opening 74 x 74 mm.

Dimension (mm)
72x72x111

Colour
White (01) | Black (04)

Weight (Kg)
0.58

Mounting
wall recessed|ceiling recessed

Wiring
Quick-fit power supply connection to terminal block - Digital electronic wiring enables dimming with DALI or TOUCH DIM systems.

Notes
Vast range of technical and decorative accessories available; option to install 2 accessories at the same time.

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Product configuration: P757.01

Product characteristics

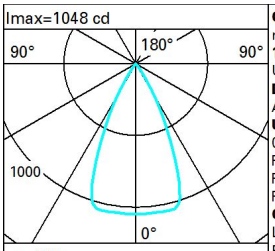
Total lighting output [Lm]: 689.3	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 11.5	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 59.9	Voltage [V]: 230
Life Time: 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 69	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.4
Nominal power [W]: 9.1	Colour temperature [K]: 2700
Nominal luminous [Lm]: 1000	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 50°	MacAdam Step: 3

Polar

Imax=1048 cd



α=50°

CIE
nL 0.69
100-100-100-100-69
UGR <10-<10
DIN
A.61
UTE
0.69A+0.00T
F"1=996
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<200 cd/m² at 65°
BZ1

Lux

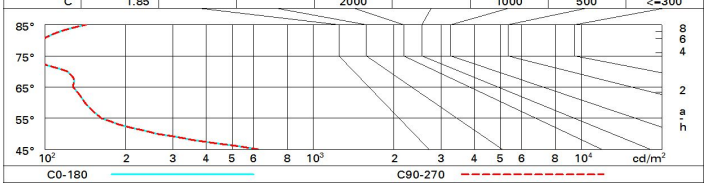
h	d	Em	Emax
1	0.9	880	1048
2	1.9	220	262
3	2.8	98	116
4	3.7	55	66

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	62	59	57	55	58	56	56	54	78
1.0	65	62	60	58	61	60	59	57	83
1.5	68	66	64	63	65	64	63	61	89
2.0	70	69	67	66	68	67	66	64	93
2.5	72	70	69	69	69	69	68	66	96
3.0	72	72	71	70	70	70	69	67	98
4.0	73	73	72	72	71	71	70	68	99
5.0	74	73	73	73	72	72	71	69	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 1000 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	10.0	10.6	10.3	10.8	11.0	10.0	10.6	10.3	10.8	11.0
	3H	9.9	10.4	10.2	10.7	10.9	9.9	10.4	10.2	10.7	10.9
	4H	9.8	10.3	10.2	10.6	10.9	9.8	10.3	10.2	10.6	10.9
	6H	9.8	10.2	10.1	10.5	10.8	9.8	10.2	10.1	10.5	10.8
	8H	9.7	10.1	10.1	10.5	10.8	9.7	10.1	10.1	10.5	10.8
	12H	9.7	10.1	10.1	10.4	10.8	9.7	10.1	10.1	10.4	10.8
4H	2H	9.8	10.3	10.2	10.6	10.9	9.8	10.3	10.2	10.6	10.9
	3H	9.7	10.1	10.1	10.4	10.8	9.7	10.1	10.1	10.4	10.8
	4H	9.6	9.9	10.0	10.3	10.7	9.6	9.9	10.0	10.3	10.7
	6H	9.5	9.8	9.9	10.2	10.6	9.5	9.8	9.9	10.2	10.6
	8H	9.5	9.7	9.9	10.2	10.6	9.5	9.7	9.9	10.2	10.6
	12H	9.4	9.7	9.9	10.1	10.6	9.4	9.7	9.9	10.1	10.5
8H	4H	9.5	9.7	9.9	10.2	10.6	9.5	9.7	9.9	10.2	10.6
	6H	9.4	9.6	9.8	10.0	10.5	9.4	9.6	9.8	10.0	10.5
	8H	9.3	9.5	9.8	10.0	10.5	9.3	9.5	9.8	10.0	10.5
	12H	9.3	9.4	9.8	9.9	10.4	9.3	9.4	9.8	9.9	10.4
12H	4H	9.4	9.7	9.9	10.1	10.5	9.4	9.7	9.9	10.1	10.6
	6H	9.3	9.5	9.8	10.0	10.5	9.3	9.5	9.8	10.0	10.5
	8H	9.3	9.4	9.8	9.9	10.4	9.3	9.4	9.8	9.9	10.4

Variations with the observer position at spacing:

S =	1.0H	6.5 / -18.7	6.5 / -18.7
	1.5H	9.3 / -19.2	9.3 / -19.2
	2.0H	11.3 / -19.4	11.3 / -19.4