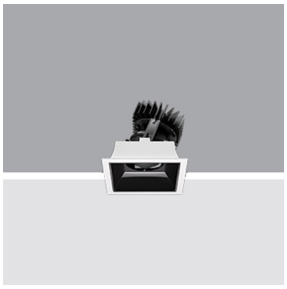
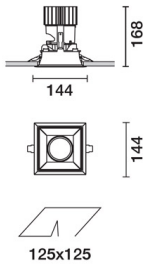
Laser Blade XL

Design iGuzzini **iGuzzini**

Last information update: May 2018





Frame adjustable recessed luminaire - Warm LED - DALI dimmable control gear - Medium

Product code
P760

Technical description
Adjustable optic, recessed luminaire for a Warm White LED lamp with a high color rendering index. Passive heat dissipation system. The adjustable body can turn in a set-back position in relation to the flush-mounted recessed housing to ensure precise lighting that is extremely comfortable and reduces direct glare significantly. Internal rotation of 358° and a tilting movement of 35° with mechanical locking systems for both movements. Fixed recessed luminaire in die-cast aluminium with a perimeter surface frame. The adjustable unit includes a radiant element in aluminium, with a steel coupling for the optic unit and a thermoplastic rotation locknut. Metallised thermoplastic reflector with a high definition optic. Thermoplastic anti-glare external screen. Transparent glass cover for LED lamp. Supplied with a dimmable DALI ballast unit connected to the luminaire.

Installation
Recessed with steel torsion springs for false ceilings from 1 to 25 mm thick - preparation hole 125 x 125. Installation possible in a horizontal position.

Dimension (mm)
144x144x160

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

Weight (Kg)
1.2

Mounting
ceiling recessed

Wiring
Quick-coupling connections on the ballast unit terminal block - Digital electronic cabling that allows dimming to be performed with DALI protocol or pushbutton systems (TOUCH DIM)

Notes
Technical and decorative accessories available; with the option of installing two accessories simultaneously. The product has a white finish (01) that maintains its UGR < 19 performance unaltered even when luminance values vary slightly.

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

pending

Product configuration: P760.01

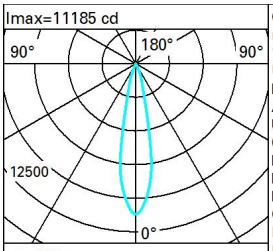
Product characteristics

Total lighting output [Lm]: 1740	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 32.1	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 54.2	Voltage [V]: -
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.) [%]: 58	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 3.1
Nominal power [W]: 29	Colour temperature [K]: 3000
Nominal luminous [Lm]: 3000	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 22°	MacAdam Step: 3

Polar



CIE
nL 0.58
100-100-100-100-58
UGR <10-<10
DIN
A.61
UTE
0.58A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 I L<1500 cd/mq @65°

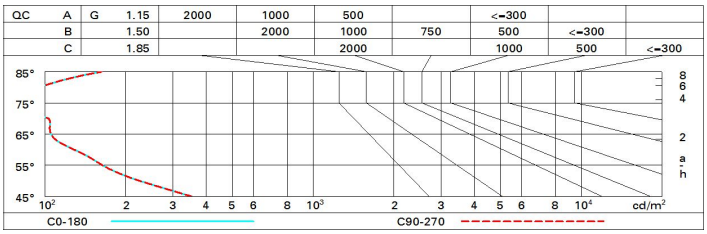
Lux

h	d	Em	Emax
2	0.8	2210	2796
4	1.6	553	699
6	2.3	246	311
8	3.1	138	175

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	52	50	48	46	49	48	47	45	78
1.0	55	52	51	49	52	50	50	48	83
1.5	57	56	54	53	55	54	53	51	89
2.0	59	58	57	56	57	56	55	54	93
2.5	60	59	58	58	58	58	57	56	96
3.0	61	60	60	59	59	59	58	57	98
4.0	62	61	61	60	60	60	59	58	99
5.0	62	62	61	61	61	60	60	58	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3000 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	-9.1	-7.0	-8.8	-6.7	-6.3	-9.1	-7.0	-8.8	-6.7	-6.3
	3H	-9.0	-7.4	-8.6	-7.1	-6.7	-9.1	-7.6	-8.8	-7.3	-6.9
	4H	-8.9	-7.7	-8.5	-7.3	-7.0	-9.1	-7.9	-8.8	-7.6	-7.2
	6H	-8.8	-7.9	-8.4	-7.6	-7.3	-9.1	-8.3	-8.7	-7.9	-7.6
	8H	-8.7	-7.8	-8.4	-7.5	-7.1	-9.2	-8.3	-8.8	-7.9	-7.6
	12H	-8.7	-7.7	-8.3	-7.4	-7.0	-9.2	-8.3	-8.8	-7.9	-7.6
4H	2H	-9.1	-7.9	-8.8	-7.6	-7.2	-8.9	-7.7	-8.5	-7.3	-7.0
	3H	-8.8	-7.9	-8.4	-7.6	-7.2	-8.8	-7.9	-8.4	-7.5	-7.1
	4H	-8.9	-7.9	-8.4	-7.5	-7.0	-8.9	-7.9	-8.4	-7.5	-7.0
	6H	-9.0	-7.3	-8.5	-6.8	-6.4	-9.2	-7.4	-8.7	-7.0	-6.5
	8H	-9.0	-7.0	-8.5	-6.6	-6.0	-9.3	-7.3	-8.8	-6.9	-6.4
	12H	-8.8	-6.8	-8.3	-6.3	-5.8	-9.3	-7.4	-8.8	-6.9	-6.4
8H	4H	-9.3	-7.3	-8.8	-6.9	-6.4	-9.0	-7.0	-8.5	-6.6	-6.0
	6H	-9.1	-7.3	-8.5	-6.8	-6.3	-8.9	-7.1	-8.4	-6.6	-6.1
	8H	-8.8	-7.2	-8.2	-6.7	-6.2	-8.8	-7.2	-8.2	-6.7	-6.2
	12H	-8.2	-7.2	-7.7	-6.7	-6.2	-8.5	-7.5	-8.0	-7.0	-6.5
12H	4H	-9.3	-7.4	-8.8	-6.9	-6.4	-8.8	-6.8	-8.3	-6.3	-5.8
	6H	-9.0	-7.5	-8.5	-7.0	-6.4	-8.5	-7.0	-8.0	-6.5	-6.0
	8H	-8.5	-7.5	-8.0	-7.0	-6.5	-8.2	-7.2	-7.7	-6.7	-6.2

Variations with the observer position at spacing:

S =			
	1.0H	2.7 / -1.9	2.7 / -1.9
	1.5H	4.8 / -2.5	4.8 / -2.5
	2.0H	6.6 / -2.7	6.6 / -2.7