

Laser Blade XL

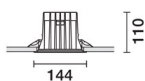
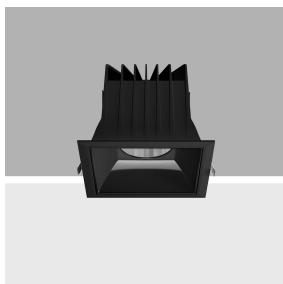
Design iGuzzini

iGuzzini

Last information update: April 2025

Product configuration: P780.43

P780.43: Fixed recessed luminaire - Warm LED - DALI dimmable control gear - Medium - Black / Black



Product code

P780.43: Fixed recessed luminaire - Warm LED - DALI dimmable control gear - Medium - Black / Black

Technical description

Fixed optic, recessed luminaire for a 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 Opti Beam optic, integrated in a set-back position in the anti-glare screen. Glass cover for LED lamp. The structure of the optic system produces light emission with controlled luminance (UGR < 19) to guarantee high visual comfort. Supplied 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 125 x 125. Installation possible in a horizontal position.

Weight (Kg)

0.86

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

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

IP44

On the visible part of the product once installed



UK
CA



Technical data

Im system:	2243	CRI (minimum):	90
W system:	32.1	Colour temperature [K]:	2700
Im source:	3250	MacAdam Step:	2
W source:	28	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	69.9	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	69	Number of optical assemblies:	1
Beam angle [°]:	22°	Control:	DALI

Polar

Imax=11969 cd		CIE		Lux			
				h	d	Em	E _{max}
90°		nL 0.69		2	0.7	2357	2992
180°		100-100-100-100-69		4	1.5	589	748
		UGR <10-10		6	2.2	262	332
		DIN A.61		8	3	147	187
		UTE 0.69A+0.00T					
		F*1=999					
		F*1+F*2=1000					
		F*1+F*2+F*3=1000					
		CIBSE LG3 L<1500 cd/m² at 65°					
		UGR<10 L<1500 cd/mq @ 65°					
α=21°							

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	62	59	57	55	59	57	56	54	78
1.0	65	62	60	59	62	60	59	57	83
1.5	68	66	64	63	65	64	63	61	89
2.0	70	69	68	66	68	67	66	64	93
2.5	72	70	70	69	70	69	68	66	96
3.0	73	72	71	70	71	70	69	67	98
4.0	73	73	72	72	72	71	70	69	99
5.0	74	73	73	73	72	72	71	69	100

UGR diagram

Corrected UGR values (at 3250 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling/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											
x	y										
2H	2H	6.2	8.3	6.6	8.6	8.9	6.2	8.3	6.6	8.6	8.9
	3H	6.1	7.6	6.5	7.9	8.3	6.1	7.6	6.5	7.9	8.3
	4H	6.0	7.3	6.4	7.6	8.0	6.0	7.3	6.4	7.6	8.0
	6H	6.0	7.0	6.3	7.3	7.7	6.0	7.0	6.3	7.3	7.7
	8H	5.9	7.0	6.3	7.3	7.7	5.9	7.0	6.3	7.3	7.7
	12H	5.9	6.9	6.3	7.3	7.7	5.9	6.9	6.3	7.3	7.7
4H	2H	6.0	7.3	6.4	7.6	8.0	6.0	7.3	6.4	7.6	8.0
	3H	5.9	6.9	6.3	7.3	7.7	5.9	6.9	6.3	7.3	7.7
	4H	5.7	6.8	6.1	7.2	7.6	5.7	6.8	6.1	7.2	7.6
	6H	5.4	7.0	5.9	7.5	8.0	5.4	7.0	5.9	7.5	8.0
	8H	5.3	7.1	5.8	7.6	8.1	5.3	7.1	5.8	7.6	8.1
	12H	5.2	7.1	5.7	7.5	8.1	5.2	7.1	5.7	7.5	8.1
8H	4H	5.3	7.1	5.8	7.6	8.1	5.3	7.1	5.8	7.6	8.1
	6H	5.1	6.9	5.7	7.4	7.9	5.1	6.9	5.7	7.4	7.9
	8H	5.1	6.6	5.7	7.1	7.7	5.1	6.6	5.7	7.1	7.7
	12H	5.3	6.2	5.8	6.7	7.2	5.3	6.2	5.8	6.7	7.2
12H	4H	5.2	7.1	5.7	7.5	8.1	5.2	7.1	5.7	7.5	8.1
	6H	5.1	6.6	5.7	7.1	7.7	5.1	6.6	5.7	7.1	7.7
	8H	5.3	6.2	5.8	6.7	7.2	5.3	6.2	5.8	6.7	7.2
Variations with the observer position at spacing:											
S =		1.0H	7.0 / -23.7				7.0 / -23.7				
		1.5H	9.8 / -24.0				9.8 / -24.0				
		2.0H	11.8 / -24.3				11.8 / -24.3				