

Laser Blade L

Design iGuzzini

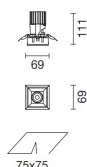
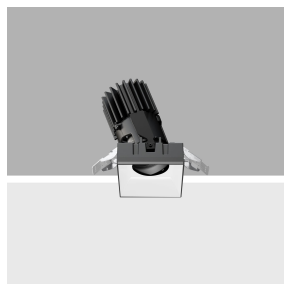
iGuzzini

Last information update: June 2025

Product configuration: QK41.01+QK49.01

QK41.01: Minimal Adjustable - Flood beam - LED - White

QK49.01: Minimal flange - for false ceilings between 12.5 mm and 25 mm thick - for recessed 69x69 mm - White



Product code

QK41.01: Minimal Adjustable - Flood beam - LED - White

Technical description

Recessed luminaire with adjustable optic for an LED lamp. 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 continuous friction tilting movement of max 30°. Version available for flush with ceiling installation (frameless) - to insert the recessed luminaire in the false ceiling a specific adapter is required that is available with a separate item code. A fixed structure in die-cast aluminium. 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 electronic ballast connected to the luminaire.

Installation

The luminaire is recessed in the specific adapter (QK49) by means of a steel wire spring, previously installed on the ceiling that can be between 12.5 and 25 mm thick. Installation possible in a horizontal or vertical position.

Colour
White (01)

Weight (Kg)
0.51

Mounting

wall recessed|ceiling recessed

Wiring

Quick-coupling connections on the ballast unit. Digital electronic cabling that allows dimming to be performed with DALI protocol or a pushbutton switch (read the indications on the instruction sheet carefully).

Notes

A range of technical and decorative accessories available; with the option of installing two accessories simultaneously.

Complies with EN60598-1 and pertinent regulations



Accessory code

QK49.01: Minimal flange - for false ceilings between 12.5 mm and 25 mm thick - for recessed 69x69 mm - White

Technical description

Adapter for a compatible false ceiling between 12.5 mm and 25 mm thick. White painted metal frame for flush with ceiling installation - zinc-plated metal plates for fixing to false ceilings. Fixing screws included in package.

Installation

Preparation hole 75 x 75 mm. The flush with ceiling frame is fixed by positioning the plates according to the thickness of the false ceiling - then the filling and finishing operations are performed and, lastly, the recess case (separate item code) is inserted in the adapter.

Colour
White (01)

Weight (Kg)
0.07

Mounting

wall recessed|ceiling recessed

Complies with EN60598-1 and pertinent regulations

Technical data

Im system:	724	Colour temperature [K]:	3000
W system:	10.5	MacAdam Step:	2
Im source:	1100	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W source:	8.2	Voltage [Vin]:	230
Luminous efficiency (Im/W, real value):	69	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.) [%]:	66	Number of optical assemblies:	1
Beam angle [°]:	30°	Control:	DALI-2
CRI (minimum):	90		

	CIE nL 0.66 100-100-100-100-66 UGR <10<10				Lux			
	DIN A.61				h	d	Em	Emax
	UTE 0.66A+0.00T F*1=997				2	1.1	512	646
	F*1+F*2=999 F*1+F*2+F*3=1000				4	2.1	128	162
	CIBSE LG3 L<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @65°				6	3.2	57	72
α = 30°					8	4.3	32	40

R	77	75	73	71	55	53	33	00	DRR
K0.8	59	56	54	53	56	54	54	52	78
1.0	62	59	57	56	59	57	57	55	83
1.5	65	63	61	60	62	61	60	58	89
2.0	67	66	64	63	65	64	63	61	93
2.5	68	67	66	66	66	65	65	63	96
3.0	69	68	68	67	67	67	66	64	98
4.0	70	69	69	69	68	68	67	65	99
5.0	70	70	70	69	69	69	68	66	100

Figure 10 is a graph showing the relationship between luminance (cd/m²) and viewing angle (α) for different surface roughness parameters (QC, A, G, 1.15, 2000, 1000, 500, <=300, <=300, <=300). The graph is divided into two regions: C0-180 and C90-270. The y-axis represents viewing angle α in degrees (45°, 55°, 65°, 75°, 85°). The x-axis represents luminance in cd/m² on a logarithmic scale (10² to 10³). The graph shows that luminance decreases as the viewing angle increases, and the rate of decrease is influenced by the surface roughness parameters.

UGR diagram

Corrected UGR values (at 1100 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise				
2H	2H	-0.4	0.1	-0.1	0.4	0.6	-0.4	0.1	-0.1	0.4	0.6
	3H	-0.4	0.0	-0.1	0.3	0.6	-0.5	-0.0	-0.2	0.2	0.5
	4H	-0.5	-0.0	-0.1	0.2	0.5	-0.5	-0.1	-0.2	0.2	0.5
	6H	-0.5	-0.1	-0.2	0.2	0.5	-0.6	-0.2	-0.3	0.1	0.4
	8H	-0.5	-0.2	-0.2	0.2	0.5	-0.6	-0.3	-0.3	0.1	0.4
	12H	-0.6	-0.2	-0.2	0.1	0.5	-0.7	-0.3	-0.3	0.0	0.4
4H	2H	-0.5	-0.1	-0.2	0.2	0.5	-0.5	-0.0	-0.1	0.2	0.5
	3H	-0.6	-0.2	-0.2	0.1	0.5	-0.6	-0.2	-0.2	0.1	0.5
	4H	-0.6	-0.3	-0.2	0.1	0.4	-0.6	-0.3	-0.2	0.1	0.4
	6H	-0.7	-0.4	-0.2	0.0	0.4	-0.7	-0.4	-0.3	-0.0	0.4
	8H	-0.7	-0.4	-0.2	-0.0	0.4	-0.7	-0.5	-0.3	-0.1	0.4
	12H	-0.7	-0.5	-0.2	-0.0	0.4	-0.8	-0.5	-0.3	-0.1	0.3
8H	4H	-0.7	-0.5	-0.3	-0.1	0.4	-0.7	-0.4	-0.2	-0.0	0.4
	6H	-0.8	-0.5	-0.3	-0.1	0.4	-0.7	-0.5	-0.3	-0.1	0.4
	8H	-0.8	-0.6	-0.3	-0.1	0.4	-0.8	-0.6	-0.3	-0.1	0.4
	12H	-0.8	-0.6	-0.3	-0.1	0.4	-0.8	-0.6	-0.3	-0.2	0.4
12H	4H	-0.8	-0.5	-0.3	-0.1	0.3	-0.7	-0.5	-0.2	-0.0	0.4
	6H	-0.8	-0.6	-0.3	-0.2	0.3	-0.7	-0.6	-0.3	-0.1	0.4
	8H	-0.8	-0.6	-0.3	-0.2	0.4	-0.8	-0.6	-0.3	-0.1	0.4
Variations with the observer position at spacing:											
S =	1.0H	6.0 / -6.4					6.0 / -6.4				
	1.5H	8.8 / -6.9					8.8 / -6.9				
	2.0H	10.7 / -7.0					10.7 / -7.0				