

## Laser Blade L

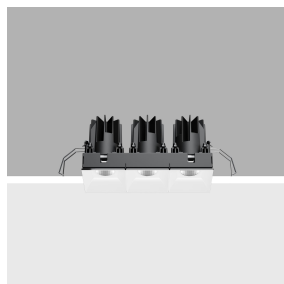
Design iGuzzini

iGuzzini

Last information update: October 2024

### Product configuration: QK14.01

QK14.01: Minimal 3 cells - Wide Flood beam - LED - White



### Product code

QK14.01: Minimal 3 cells - Wide Flood beam - LED - White

### Technical description

Fixed optic, three compartment recessed luminaire for a high efficiency LED lamps. Passive heat dissipation system. Lamp body with die-cast aluminium radiant surface, flush with ceiling version (frameless). For recessed installation in a false ceiling a specific adapter is required that is available with a separate item code. Metallised, thermoplastic, high definition optics, integrated in a rear position in the anti-glare screens. Glass cover for LED lamp. The structure of the optic system produces controlled luminance emission to guarantee high visual comfort. Supplied with a dimmable DALI electronic ballast connected to the luminaire.

### Installation

The luminaire is recessed in the specific adapter (QK51) 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)

1.24

### 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

The product with its white finish (01) includes an optic ring for limiting luminance; a feature that renders optimal performance and determines slight variations in the opening of the optic and yield.

Complies with EN60598-1 and pertinent regulations



### Technical data

Im system:	2545	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	28.4	Voltage [Vin]:	230
Im source:	3350	Lamp code:	LED
W source:	25	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, real value):	89.6	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	76	Inrush current:	10 A / 200 µs
Beam angle [°]:	52°	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 18 luminaires B16A: 30 luminaires C10A: 31 luminaires C16A: 51 luminaires
CRI (minimum):	90	Minimum dimming %:	1
Colour temperature [K]:	3000	Overvoltage protection:	5kV Common mode & 4kV Differential mode
MacAdam Step:	2	Control:	DALI-2

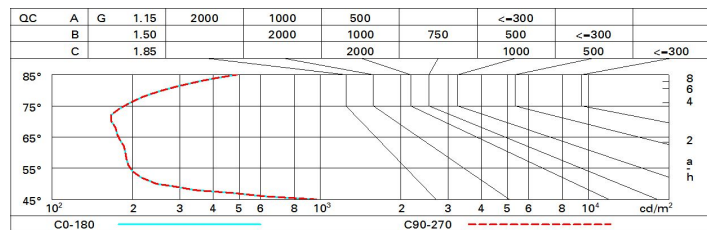
### Polar

<p><math>\alpha = 52^\circ</math></p>	CIE				Lux							
	nL 0.76				h	d	Em	Emax				
	100-100-100-100-76				2	2	767	953				
	UGR 10.8-10.8				4	3.9	192	238				
	DIN A.61				6	5.9	85	106				
					UTE 0.76A+0.00T				8	7.8	48	60
					F*1=996							
	F*1+F*2=999											
	F*1+F*2+F*3=1000											
	CIBSE											
LG3 L<1500 cd/m <sup>2</sup> at 65°												
UGR<16   L<1500 cd/mq @65°												

# 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



# UGR diagram

Corrected UGR values (at 3350 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	11.3	11.8	11.6	12.0	12.2	11.3	11.8	11.6	12.0	12.2
	3H	11.2	11.6	11.5	11.9	12.1	11.2	11.6	11.5	11.9	12.1
	4H	11.1	11.5	11.5	11.8	12.1	11.1	11.5	11.5	11.8	12.1
	6H	11.1	11.4	11.4	11.7	12.0	11.1	11.4	11.4	11.7	12.0
	8H	11.0	11.4	11.4	11.7	12.0	11.0	11.4	11.4	11.7	12.0
	12H	11.0	11.3	11.4	11.6	12.0	11.0	11.3	11.4	11.6	12.0
4H	2H	11.1	11.5	11.5	11.8	12.1	11.1	11.5	11.5	11.8	12.1
	3H	11.0	11.3	11.4	11.6	12.0	11.0	11.3	11.4	11.6	12.0
	4H	10.9	11.2	11.3	11.5	11.9	10.9	11.2	11.3	11.5	11.9
	6H	10.8	11.1	11.2	11.5	11.9	10.8	11.1	11.2	11.5	11.9
	8H	10.8	11.0	11.2	11.4	11.8	10.8	11.0	11.2	11.4	11.8
	12H	10.7	10.9	11.2	11.4	11.8	10.7	10.9	11.2	11.3	11.8
8H	4H	10.8	11.0	11.2	11.4	11.8	10.8	11.0	11.2	11.4	11.8
	6H	10.7	10.9	11.1	11.3	11.8	10.7	10.9	11.1	11.3	11.8
	8H	10.6	10.8	11.1	11.3	11.7	10.6	10.8	11.1	11.3	11.7
	12H	10.6	10.7	11.1	11.2	11.7	10.6	10.7	11.1	11.2	11.7
12H	4H	10.7	10.9	11.2	11.3	11.8	10.7	10.9	11.2	11.4	11.8
	6H	10.6	10.8	11.1	11.2	11.7	10.6	10.8	11.1	11.3	11.8
	8H	10.6	10.7	11.1	11.2	11.7	10.6	10.7	11.1	11.2	11.7
Variations with the observer position at spacing:											
S =		1.0H					0.5 / -15.1				
		1.5H					9.3 / -15.3				
		2.0H					11.3 / -15.5				