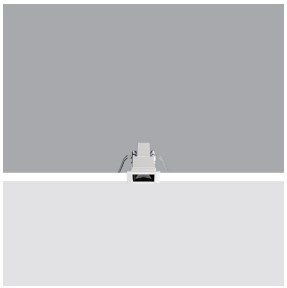
Laser Blade

Design iGuzzini **iGuzzini**

Last information update: February 2025

Product configuration: EK59
EK59: Square Recessed luminaire - LED Neutral white medium



Product code
EK59: Square Recessed luminaire - LED Neutral white medium

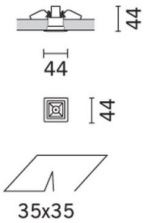
Technical description
square miniaturised recessed luminaire for single LED - fixed optic - medium beam angle. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised thermoplastic high definition optic, integrated in a rear position in the black anti-glare screen. Connecting cable supplied. Ballast not included, available with separate code. High efficiency value Neutral White LED (lm/W).

Installation
recessed with steel wire springs for false ceilings from 1 to 20 mm thick - preparation hole 35 x 35

Colour
White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | Grey / Black (74)* | White / burnished chrome (E7)*

Weight (Kg)
0.05

* Colours on request



Mounting
wall recessed|ceiling recessed

Wiring
direct current ballasts to be ordered separately: electronic (MXF9) for max. 7 LEDs; DALI dimmable (BZM4) for max. 20 LEDs (check instruction leaflet for compatible lengths of cables to be used)

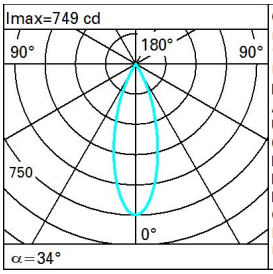
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	252	CRI (typical):	82
W system:	2	Colour temperature [K]:	4000
lm source:	300	MacAdam Step:	3
W source:	2	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	126	Lamp code:	LED
lm 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.) [%]:	84	Number of optical assemblies:	1
Beam angle [°]:	34°	LED current [mA]:	700
CRI (minimum):	80		

Polar



CIE
nL 0.84
100-100-100-100-84
UGR <10-<10
DIN
A.61
UTE
0.84A+0.00T
F"1=1000
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°

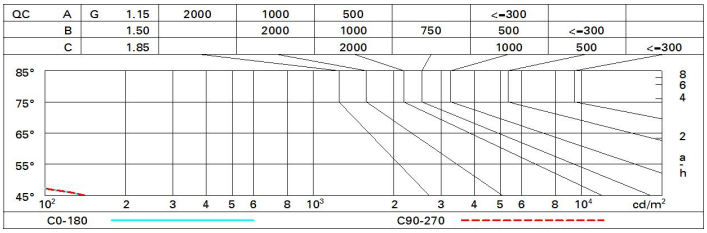
Lux

h	d	Em	Emax
1	0.6	566	749
2	1.2	141	187
3	1.8	63	83
4	2.4	35	47

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	76	72	69	67	71	69	69	66	78
1.0	79	76	73	71	75	73	72	70	83
1.5	83	81	78	77	80	78	77	74	89
2.0	86	84	82	81	83	81	80	78	93
2.5	87	86	85	84	85	84	83	80	96
3.0	88	87	86	86	86	85	84	82	98
4.0	89	89	88	88	87	87	85	83	99
5.0	90	89	89	89	88	88	86	84	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 300 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	2.1	2.6	2.4	2.9	3.1	2.1	2.6	2.4	2.9	3.1
	3H	2.0	2.5	2.3	2.7	3.0	2.0	2.5	2.3	2.7	3.0
	4H	1.9	2.4	2.2	2.6	2.9	1.9	2.4	2.2	2.6	2.9
	6H	1.8	2.2	2.2	2.6	2.9	1.8	2.2	2.2	2.6	2.9
	8H	1.8	2.2	2.1	2.5	2.9	1.8	2.2	2.1	2.5	2.9
	12H	1.7	2.1	2.1	2.5	2.8	1.7	2.1	2.1	2.5	2.8
4H	2H	1.9	2.4	2.2	2.6	2.9	1.9	2.4	2.2	2.6	2.9
	3H	1.7	2.1	2.1	2.5	2.8	1.7	2.1	2.1	2.5	2.8
	4H	1.7	2.0	2.1	2.4	2.7	1.7	2.0	2.1	2.4	2.7
	6H	1.6	1.9	2.0	2.3	2.7	1.6	1.9	2.0	2.3	2.7
	8H	1.5	1.8	2.0	2.2	2.6	1.5	1.8	2.0	2.2	2.6
	12H	1.5	1.7	1.9	2.1	2.6	1.5	1.7	1.9	2.1	2.6
8H	4H	1.5	1.8	2.0	2.2	2.6	1.5	1.8	2.0	2.2	2.6
	6H	1.4	1.7	1.9	2.1	2.6	1.4	1.7	1.9	2.1	2.6
	8H	1.4	1.6	1.9	2.0	2.5	1.4	1.6	1.9	2.0	2.5
	12H	1.3	1.5	1.8	2.0	2.5	1.3	1.5	1.8	2.0	2.5
12H	4H	1.5	1.7	1.9	2.1	2.6	1.5	1.7	1.9	2.1	2.6
	6H	1.4	1.6	1.9	2.0	2.5	1.4	1.6	1.9	2.0	2.5
	8H	1.3	1.5	1.8	2.0	2.5	1.3	1.5	1.8	2.0	2.5

Variations with the observer position at spacing:

S =			
	1.0H	6.9 / -28.9	6.9 / -28.9
	1.5H	9.7 / -30.6	9.7 / -30.6
	2.0H	11.7 / -31.1	11.7 / -31.1