Design iGuzzini

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Last information update: March 2025

Product configuration: EK90

EK90: Frame recessed luminaire - 15 cells - General Lighting Pro - DALI



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Technical description

Rectangular recessed luminaire with 15 optical elements for LED lamps - fixed optics with metallised thermoplastic high definition Opti-Beam reflectors, integrated in a set-back position in the anti-glare screen. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. The total white finish and the patented technology of the optic system guarantee an even and efficient luminous flux optimised by a special diffuser screen that reduces direct glare significantly. Supplied with DALI dimmable electronic control gear connected to the luminaire. High efficiency value Neutral White LED (Im/W).

Weight (Kg)

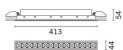
0.86

Installation

Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 406.

Colour White (01)

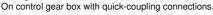
Mounting





Wiring

wall recessed|ceiling recessed





Technical data				
Im system:	3375	CRI (typical):	82	
W system:	33.5	Colour temperature [K]:	4000	
Im source:	4500	MacAdam Step:	3	
W source:	30	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)	
Luminous efficiency (Im/W,	100.7	Lamp code:	LED	
real value):		Number of lamps for optical	1	
Im in emergency mode:	-	assembly:		
	0	ZVEI Code:	LED	
an angle of 90° [Lm]:		Number of optical	1	
Light Output Ratio (L.O.R.)	75	assemblies:		
[%]:		Control:	DALI-2	
CRI (minimum):	80			

Polar

Imax=4717 cd CIE	Lux			
90° 180° 90° RL 0.75 88-98-100-100-75	h	d	Em	Emax
UGR 20.2-20.1 DIN A.61 UTE	2	1.8	920	1179
0.75A+0.00T F*1=879	4	3.6	230	295
5000 F"1+F"2=980 F"1+F"2+F"3=996	6	5.3	102	131
α=48°	8	7.1	57	74

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	64	59	56	53	58	55	55	52	69
1.0	67	63	60	58	62	60	59	56	75
1.5	72	69	66	64	68	66	65	62	83
2.0	75	72	70	69	71	70	69	66	88
2.5	76	74	73	72	73	72	71	69	92
3.0	77	76	75	74	75	74	73	70	94
4.0	79	77	77	76	76	75	74	72	96
5.0	79	78	78	77	77	76	75	73	97

Luminance curve limit

QC	Α	G	1.15	2000	1000	500		<-300		
	в		1.50		2000	1000	750	500	<=300	
	С		1.85			2000		1000	500	<=300
85° [$\left(\right)$		TIT	IV			
75°			_	$\left\{ \left\{ \right\} \right\}$	$\downarrow \downarrow \downarrow$					4
65°				\rightarrow						2
55°										a h
								8 10	-	
45° [8	10 ³		2	3 4	5 6	8 10	-	cd/m ²

UGR diagram

Rifle	et :										
ce il/c		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		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim		835100		viewed			0.0000000		viewed		
x	У		c	rosswis	е				endwise		
2H	2H	20.1	20.8	20.4	21.0	21.2	20.1	20.8	20.4	21.0	21.2
	ЗН	20.1	20.7	20.4	21.0	21.3	20.1	20.7	20.4	21.0	21.3
	4H	20.1	20.7	20.4	21.0	21.3	20.1	20.7	20.4	20.9	21.2
	6H	20.1	20.6	20.5	20.9	21.3	20.0	20.5	20.4	20.9	21.2
	BH	20.1	20.6	20.5	20.9	21.3	20.0	20.5	20.3	20.8	21.2
	12H	20.1	20.6	20.5	20.9	21.3	19.9	20.4	20.3	20.8	21.1
4H	2H	20.1	20.7	20.4	20.9	21.2	20.1	20.7	20.4	21.0	21.3
	ЗH	20.1	20.6	20.5	21.0	21.3	20.2	20.7	20.6	21.0	21.4
	4H	20.2	20.6	20.6	21.0	21.4	20.2	20.6	20.6	21.0	21.4
	6H	20.2	20.6	20.6	21.0	21.4	20.1	20.5	20.6	20.9	21.3
	HS	20.2	20.6	20.7	21.0	21.4	20.1	20.5	20.6	20.9	21.3
	12H	20.2	20.5	20.7	21.0	21.4	20.1	20.4	20.5	20.8	21.3
вн	4H	20.1	20.5	20.6	20.9	21.3	20.2	20.6	20.7	21.0	21.
	6H	20.2	20.5	20.7	20.9	21.4	20.2	20.5	20.7	21.0	21.
	BH	20.2	20.5	20.7	20.9	21.4	20.2	20.5	20.7	20.9	21.4
	12H	20.3	20.5	20.8	21.0	21.5	20.2	20.4	20.7	20.9	21.4
12H	4H	20.1	20.4	20.5	20.8	21.3	20.2	20.5	20.7	21.0	21.4
	6H	20.2	20.4	20.7	20.9	21.4	20.2	20.5	20.7	21.0	21.5
	H8	20.2	20.4	20.7	20.9	21.4	20.3	20.5	20.8	21.0	21.5
Varia	tions wi	th the ot	oserverp	osition	at spacin	g:					
S =	1.0H		1	.5 / -1.	5	1.5 / -1.5					
	1.5H	3.1 / -3.7						3	6.1 / -3 .	7	