Design iGuzzini

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Last information update: March 2025

#### Product configuration: EK88

EK88: Frame recessed luminaire - 5 cells - General Lighting Pro - DALI

#### Product code

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#### Technical description

Rectangular recessed luminaire with 5 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).

0.3

#### Installation

White (01)

Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 141.

	54
148	-

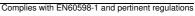




54	Mounting
54	wall recessed ceiling recessed
₹	Wiring
44	On control gear box with quick-
7	

# Colour Weight (Kg)

sed	
uick-coupling connections.	





Technical data				
Im system:	1125	CRI (typical):	82	
W system:	12.7	Colour temperature [K]:	4000	
Im source:	1500	MacAdam Step:	3	
W source:	9.9	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)	
Luminous efficiency (Im/W,	88.6	Lamp code:	LED	
real value):		Number of lamps for optical	11	
Im in emergency mode:	-	assembly:		
Total light flux at or above	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=1572 cd	CIE	Lux			
90° 180° 90		h	d	Em	Emax
	UGR 20.3-20.2 DIN A.61	1	0.9	1226	1572
$K \times X \to X >$	UTE 0.75A+0.00T F"1=879	2	1.8	307	393
1500	F"1+F"2=980 F"1+F"2+F"3=996	3	2.7	136	175
α=48° 0°	-	4	3.6	77	98

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° [				$\left( \right)$			T			- 8
75°		-		$\leftarrow$	$\downarrow \downarrow \downarrow$					4
65°										2
55°										a h
45°		8	10 <sup>3</sup>		2	3 4	5 6	8 10	4	cd/m <sup>2</sup>
45 6		0	10							

## UGR diagram

Rifle	ct.:										
ce il/c	av	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls	3	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
Roor	n dim	225000		viewed			10.320.002		viewed		
x	У		C	rosswis	e				endwise		
2H	2H	20.1	20.8	20.4	21.0	21.3	20.1	20.8	20.4	21.0	21.3
	ЗН	20.1	20.7	20.5	21.0	21.3	20.2	20.8	20.5	21.1	21.3
	4H	20.1	20.7	20.5	21.0	21.3	20.1	20.7	20.5	21.0	21.3
	6H	20.1	20.7	20.5	21.0	21.3	20.1	20.6	20.4	20.9	21.2
	BH	20.1	20.6	20.5	21.0	21.3	20.0	20.5	20.4	20.9	21.2
	12H	20.1	20.6	20.5	21.0	21.3	20.0	20.5	20.4	20.8	21.2
4H	2H	20.1	20.7	20.5	21.0	21.3	20.1	20.7	20.5	21.0	21.3
	ЗH	20.2	20.7	20.6	21.0	21.4	20.2	20.7	20.6	21.1	21.
	4H	20.2	20.6	20.6	21.0	21.4	20.2	20.6	20.6	21.0	21.4
	6H	20.3	20.6	20.7	21.0	21.5	20.2	20.6	20.6	21.0	21.4
	HS	20.3	20.6	20.7	21.0	21.5	20.2	20.5	20.6	20.9	21.4
	12H	20.3	20.6	20.7	21.0	21.5	20.1	20.4	20.6	20.9	21.3
вн	4H	20.2	20.5	20.6	20.9	21.4	20.3	20.6	20.7	21.0	21.
	6H	20.2	20.5	20.7	21.0	21.4	20.3	20.6	20.7	21.0	21.5
	BH	20.3	20.5	20.8	21.0	21.5	20.3	20.5	20.8	21.0	21.5
	12H	20.3	20.5	20.8	21.0	21.5	20.3	20.5	20.8	21.0	21.5
12H	4H	20.1	20.4	20.6	20.9	21.3	20.3	20.6	20.7	21.0	21.
	6H	20.2	20.5	20.7	20.9	21.4	20.3	20.5	20.8	21.0	21.5
	H8	20.3	20.5	20.8	21.0	21.5	20.3	20.5	20.8	21.0	21.5
Varia	tions wi	th the ot	oserverp	osition	at spacin	g:					
5 =	1.0H		1	.5 / -1.	5		1.5 / -1.5				
	1.5H		3	.1 / -3	.7			3	8.1 / <b>-</b> 3.	.7	