Design iGuzzini

Last information update: May 2018



#### Square Recessed luminaire - LED - Warm white medium

iGuzzini

#### Product code

MK46

#### 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. Warm white LED.

#### Installation

Dimension (mm) 44x44x44

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



44



White (01) | White/Brass (41) | Black/Black (43) | Black/White (47) | Grey/Black (74) | (E7)



#### Weight (Kg)

0.05

#### 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)







On the visible part of the product once installed











### Product configuration: MK46

## Product characteristics

Total lighting output [Lm]: 157.5 Total power [W]: 2.1 Luminous efficacy [Lm/W]: 75

Life Time: 50,000h - L90 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0 Emergency luminous flux [Lm]: /

Complies with EN60598-1 and pertinent regulations

Voltage [V]: -

Number of optical assemblies: 1

## Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83 Lamp code: LED

ZVEI Code: LED
Nominal power [W]: 2.1
Nominal luminous [Lm]: 190
Lamp maximum intensity [cd]: /
Beam angle [°]: 32°

Number of lamps for optical assembly: 1

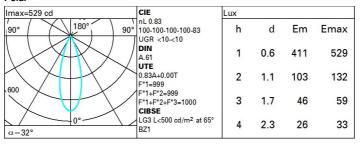
Socket: /

Ballast losses [W]: 0 Colour temperature [K]: 3000

CRI: 90

Wavelength [Nm]: / MacAdam Step: 3

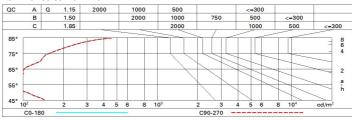
# Polar



### Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	75	71	68	66	70	68	68	65	78
1.0	78	75	72	70	74	72	71	69	83
1.5	82	79	77	76	78	77	76	73	89
2.0	84	83	81	80	81	80	79	77	93
2.5	86	85	84	83	83	82	82	79	96
3.0	87	86	85	85	85	84	83	81	98
4.0	88	87	87	86	86	86	84	82	99
5.0	89	88	88	87	87	86	85	83	100

# Luminance curve limit



## UGR diagram

Rifle	nt ·											
Riflect.: ceil/cav walls work pl. Room dim		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	
												53.700
		x	У	crosswise					endwise			
2H	2H	-2.9	-2.4	-2.6	-2.1	-1.9	-2.9	-2.4	-2.6	-2.1	-1.9	
	ЗН	-2.9	-2.5	-2.6	-22	-1.9	-3.0	-2.5	-2.7	-2.3	-2.0	
	4H	-3.0	-2.5	-2.6	-2.2	-1.9	-3.1	-2.6	-2.7	-2.3	-2.0	
	бН	-2.9	-2.5	-2.6	-2.2	-1.9	-3.1	-2.7	-2.8	-2.4	-2.1	
	нв	-2.9	-2.5	-2.5	-2.2	-1.8	-3.2	-2.8	-2.8	-2.4	-2.1	
	12H	-2.8	-2.4	-2.4	-2.1	-1.7	-3.2	-2.8	-2.8	-2.5	2.1	
4H	2H	-3.1	-2.6	-2.7	-2.3	-2.0	-3.0	-2.5	-2.6	-2.2	-1.9	
	ЗН	-3.1	-2.7	-2.7	-2.4	-2.1	-3.1	-2.7	-2.7	-2.4	-2.0	
	4H	-3.1	-2.8	-2.7	-2.4	-2.0	-3.1	-2.8	-2.7	-2.4	-2.0	
	6H	-3.0	-2.7	-2.6	-2.3	-1.9	-3.2	-2.9	-2.7	-2.5	-2.1	
	8H	-2.9	-2.6	-2.5	-2.2	-1.8	-3.2	-2.9	-2.7	-2.5	-2.1	
	12H	-2.7	-2.5	-2.2	-2.0	-1.6	-3.2	-3.0	-2.8	-2.5	-2.1	
вн	4H	-3.2	-2.9	-2.7	-2.5	-2.1	-2.9	-2.6	-2.5	-2.2	-1.8	
	6H	-3.0	-2.8	-2.5	-2.3	-1.9	-2.8	-2.6	-2.4	-2.2	-1.7	
	8H	-2.8	-2.6	-2.3	-2.1	-1.7	-2.8	-2.6	-2.3	-2.1	-1.7	
	12H	-2.4	-2.3	-1.9	-1.8	-1.3	-2.7	-2.6	-2.2	-2.1	-1.6	
12H	4H	-3.2	-3.0	-2.8	-2.5	-2.1	-2.7	-2.5	-2.2	-2.0	-1.6	
	бН	-3.0	-2.8	-2.5	-2.3	-1.8	-2.6	-2.4	-2.1	-1.9	-1.4	
	HS	-2.7	-2.6	-2.2	-2.1	-1.6	-2.4	-2.3	-1.9	-1.8	-1.3	
Varia	tions wi	th the ol	bserver	osition a	at spacin	ıg:						
S =	1.0H	5.6 / -3.8					5.6 / -3.8					
	1.5H	8.3 / -4.0					8.3 / -4.0					
	2.0H	10.3 / -4.1					10.3 / -4.1					