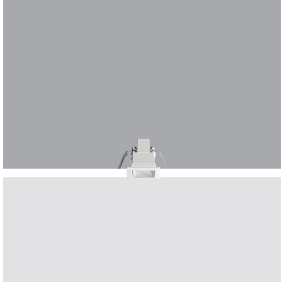


Last information update: February 2025

**Product configuration: MK45.01**

MK45.01: Square Recessed luminaire - LED Neutral white medium - 2W 174lm - 4000K - CRI 95 - White



44



35x35

**Product code**

MK45.01: Square Recessed luminaire - LED Neutral white medium - 2W 174lm - 4000K - CRI 95 - White

**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. Neutral white high colour rendering LED.

**Installation**

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

**Colour**

White (01)

**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)

Complies with EN60598-1 and pertinent regulations



IP20

IP23

On the visible part of the product once installed

**Technical data**

Im system:	174	CRI (typical):	97
W system:	2	Colour temperature [K]:	4000
Im source:	210	MacAdam Step:	3
W source:	2	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	87	Lamp code:	LED
Im 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.) [%]:	83	Number of optical assemblies:	1
Beam angle [°]:	32°	LED current [mA]:	700
CRI (minimum):	95		

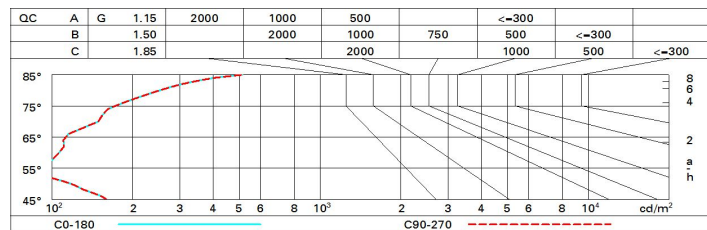
**Polar**

Imax=584 cd		Lux			
h	d	Em	Emax		
1	0.6	454	584		
2	1.1	114	146		
3	1.7	50	65		
4	2.3	28	37		

# 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

Corrected UGR values (at 210 lm bare lamp luminous flux)										
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise			
2H	2H	-2.5	-2.0	-2.2	-1.8	-1.5	-2.5	-2.0	-2.2	-1.8
	3H	-2.6	-2.1	-2.3	-1.9	-1.6	-2.6	-2.2	-2.3	-1.9
	4H	-2.6	-2.2	-2.3	-1.9	-1.6	-2.7	-2.3	-2.4	-2.0
	6H	-2.6	-2.2	-2.2	-1.9	-1.5	-2.8	-2.4	-2.4	-2.1
	8H	-2.5	-2.1	-2.2	-1.8	-1.5	-2.8	-2.4	-2.4	-2.1
	12H	-2.4	-2.1	-2.1	-1.7	-1.4	-2.8	-2.5	-2.5	-2.1
4H	2H	-2.7	-2.3	-2.4	-2.0	-1.7	-2.6	-2.2	-2.3	-1.9
	3H	-2.8	-2.4	-2.4	-2.1	-1.7	-2.7	-2.3	-2.3	-2.0
	4H	-2.8	-2.4	-2.4	-2.1	-1.7	-2.8	-2.4	-2.4	-2.1
	6H	-2.7	-2.4	-2.2	-2.0	-1.6	-2.8	-2.5	-2.4	-2.1
	8H	-2.6	-2.3	-2.1	-1.9	-1.4	-2.8	-2.6	-2.4	-2.2
	12H	-2.3	-2.1	-1.9	-1.7	-1.2	-2.9	-2.6	-2.4	-2.2
8H	4H	-2.8	-2.6	-2.4	-2.2	-1.7	-2.6	-2.3	-2.1	-1.9
	6H	-2.6	-2.4	-2.2	-2.0	-1.5	-2.5	-2.3	-2.0	-1.8
	8H	-2.5	-2.3	-2.0	-1.8	-1.3	-2.5	-2.3	-2.0	-1.8
	12H	-2.1	-1.9	-1.6	-1.4	-0.9	-2.4	-2.2	-1.9	-1.8
12H	4H	-2.9	-2.6	-2.4	-2.2	-1.7	-2.3	-2.1	-1.9	-1.7
	6H	-2.6	-2.5	-2.2	-2.0	-1.5	-2.2	-2.0	-1.7	-1.6
	8H	-2.4	-2.2	-1.9	-1.8	-1.2	-2.1	-1.9	-1.6	-1.4
Variations with the observer position at spacing:										
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			