

Last information update: May 2018

**10 - cell Frameless Recessed luminaire - LED - Warm white flood****Product code**

MK40

**Technical description**

rectangular miniaturised recessed luminaire with 10 optical elements with LED lamps - fixed optics - flood beam angle. Main body with die-cast aluminium radiant surface; minimal (frameless) version for mounting flush with the ceiling. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled glare. Supplied with DALI dimmable electronic control gear connected to the luminaire. Warm white LED.

**Installation**

recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (12.5 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation hole 35 x 271

**Dimension (mm)**

264x30x56

**Colour**

White (01) | Black (04)

**Weight (Kg)**

0.73

**Mounting**

wall recessed|ceiling recessed

**Wiring**

on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations



IP20

IP23

On the visible part of the product once installed

**Product configuration: MK40****Product characteristics**

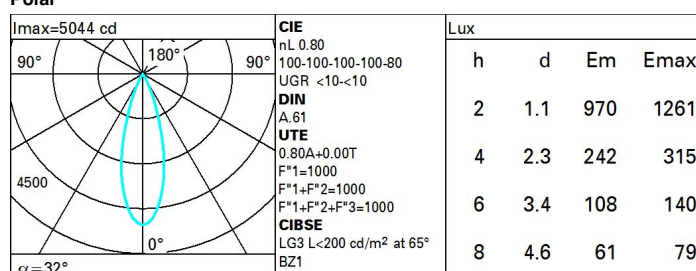
Total lighting output [Lm]: 1469.6  
Total power [W]: 24.5  
Luminous efficacy [Lm/W]: 60  
Life Time: 50,000h - L90 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0  
Emergency luminous flux [Lm]: /  
Voltage [V]: -  
Number of optical assemblies: 1

**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 80  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 21  
Nominal luminous [Lm]: 1840  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 32°

Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 3.5  
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	72	69	66	64	68	66	65	63	78
1.0	75	72	70	68	71	69	69	66	83
1.5	79	77	75	73	76	74	73	71	89
2.0	81	80	78	77	79	77	76	74	93
2.5	83	82	81	80	80	79	79	77	96
3.0	84	83	82	81	82	81	80	78	98
4.0	85	84	84	83	83	82	81	79	99
5.0	85	85	85	84	84	83	82	80	100

# UGR diagram

Corrected UGR values (at 1840 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling	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	-3.4	-2.9	-3.2	-2.7	-2.5	-3.4	-2.9	-3.2	-2.7	-2.5
	3H	-3.6	-3.1	-3.3	-2.8	-2.6	-3.6	-3.1	-3.3	-2.8	-2.6
	4H	-3.6	-3.2	-3.3	-2.9	-2.6	-3.6	-3.2	-3.3	-2.9	-2.6
	6H	-3.7	-3.3	-3.4	-3.0	-2.7	-3.7	-3.3	-3.4	-3.0	-2.7
	8H	-3.8	-3.4	-3.4	-3.0	-2.7	-3.8	-3.4	-3.4	-3.0	-2.7
	12H	-3.8	-3.4	-3.4	-3.1	-2.7	-3.8	-3.4	-3.4	-3.1	-2.7
4H	2H	-3.6	-3.2	-3.3	-2.9	-2.6	-3.6	-3.2	-3.3	-2.9	-2.6
	3H	-3.8	-3.4	-3.4	-3.1	-2.7	-3.8	-3.4	-3.4	-3.1	-2.7
	4H	-3.9	-3.6	-3.5	-3.2	-2.8	-3.9	-3.6	-3.5	-3.2	-2.8
	6H	-4.0	-3.7	-3.5	-3.3	-2.9	-4.0	-3.7	-3.5	-3.3	-2.9
	8H	-4.0	-3.8	-3.6	-3.3	-2.9	-4.0	-3.8	-3.6	-3.3	-2.9
	12H	-4.1	-3.8	-3.6	-3.4	-2.9	-4.1	-3.8	-3.6	-3.4	-2.9
8H	4H	-4.0	-3.8	-3.6	-3.3	-2.9	-4.0	-3.8	-3.6	-3.3	-2.9
	6H	-4.1	-3.9	-3.6	-3.4	-3.0	-4.1	-3.9	-3.6	-3.4	-3.0
	8H	-4.2	-4.0	-3.7	-3.5	-3.0	-4.2	-4.0	-3.7	-3.5	-3.0
	12H	-4.2	-4.1	-3.7	-3.6	-3.1	-4.2	-4.1	-3.7	-3.6	-3.1
12H	4H	-4.1	-3.8	-3.6	-3.4	-2.9	-4.1	-3.8	-3.6	-3.4	-2.9
	6H	-4.2	-4.0	-3.7	-3.5	-3.0	-4.2	-4.0	-3.7	-3.5	-3.0
	8H	-4.2	-4.1	-3.7	-3.6	-3.1	-4.2	-4.1	-3.7	-3.6	-3.1
Variations with the observer position at spacing:											
S =		0.8 / -18.5					0.8 / -18.5				
		1.5H					9.6 / -18.7				
		2.0H					11.6 / -23.0				