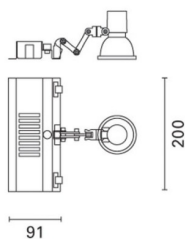


Last information update: September 2023

Product configuration: MA69

MA69: LED spotlight complete with electronic ballast

**Product code**MA69: LED spotlight complete with electronic ballast **Attention! Code no longer in production****Technical description**

Element for accent lighting set up to use LED 6 x 2W lamp - warm white tone – optical assembly made of thermoplastic material with spot emission. Die-cast aluminium dissipater block, joints and arms. Shaped sheet steel container base for electronic control gear components. Steel fixing springs.

Installation

Mechanical fixing on the structural section using steel springs. The kit can be freely positioned along the channel installed with open 180 opening, observing a centre-to-centre distance of 350 mm between spotlights. We advise against installing spotlight kits and fluorescent modules on the same side of the channel.

Colour

White (01) | Black (04)

Wiring

The kit comes complete with electronic ballast in the base. Set up for through wiring with quick coupling in and out connectors. For power supply connections the plate with terminal block is available, code MWQ0.

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	837	CRI (minimum):	80
W system:	10.7	Colour temperature [K]:	3000
lm source:	1000	Life Time LED 1:	50,000h - L80 - B20 (Ta 25°C)
W source:	8.7	Ballast losses [W]:	2
Luminous efficiency (lm/W, real value):	78.2	Lamp code:	LED
lm 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.) [%]:	84	Number of optical assemblies:	1
Beam angle [°]:	14°		

Polar

Imax=10599 cd		Lux			
90°	180°	h	d	Em	E _{max}
		2	0.5	2040	2650
		4	1	510	662
		6	1.5	227	294
		8	2	128	166
α = 14°					

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	70	67	65	69	67	66	63	76
1.0	78	74	71	69	73	71	70	67	80
1.5	82	79	77	75	78	76	75	73	87
2.0	85	82	81	79	81	80	79	76	91
2.5	86	85	83	82	83	82	81	79	94
3.0	87	86	85	84	85	84	83	81	96
4.0	89	88	87	86	86	86	84	82	98
5.0	89	89	88	88	87	87	85	83	99

Luminance curve limit

