Cestello

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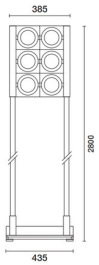
Last information update: August 2023

Product configuration: MH45
MH45: standard lamp luminaire with 6 optical assemblies - warm white passive dissipation LEDs - integrated electronic control gear - spot



Product code
MH45: standard lamp luminaire with 6 optical assemblies - warm white passive dissipation LEDs - integrated electronic control gear - spot **Attention! Code no longer in production**

Technical description
Multi-lamp standard lamp luminaire. LED lamps with passive heat dissipation system. Entirely aluminium frame; die-cast aluminium universal joints; can be adjusted +/- 45° relative to the horizontal and vertical axes; two extruded aluminium supporting rods with (+/- 45°) adjustable joints coupling to frame; lever-operated mechanical locks. Aluminium and steel base housing electronic control gear units and control switches. Die-cast aluminium optical assemblies. Shaped so that heat is effectively carried away, guaranteeing that the performance of the lamps remains unaffected. PMMA emission optics; spot beam angle. Warm white high efficiency LEDs; CRI (Ra) > 90.

Installation
standing on the floor on surface-protector rubber elements

Colour
Grey (15)

Mounting
free standing

Wiring
power cable L 2500 mm with Schuko plug; set up for multiple switch on in groups of two assemblies; control switch on base.

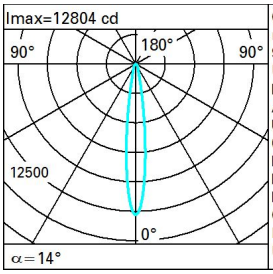
Complies with EN60598-1 and pertinent regulations

850°C IP20

Technical data

lm system:	9722	CRI:	95
W system:	144.4	Colour temperature [K]:	3000
lm source:	1800	MacAdam Step:	3
W source:	19	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	67.3	Ballast losses [W]:	5.1
lm in emergency mode:	-	Lamp code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of lamps for optical assembly:	1
Light Output Ratio (L.O.R.) [%]:	90	ZVEI Code:	LED
Beam angle [°]:	14°	Number of optical assemblies:	6

Polar



CIE
nL 0.90
91-99-100-100-90
UGR 10.8-10.8
DIN
A.61
UTE
0.90A+0.00T
F"1=914
F"1+F"2=991
F"1+F"2+F"3=999
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 I L<1500 cd/mq @65°

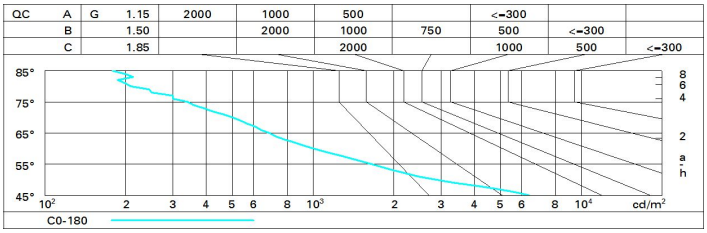
Lux

h	d	Em	Emax
2	0.5	2502	3201
4	1	625	800
6	1.5	278	356
8	2	156	200

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	78	73	69	66	72	69	68	65	72
1.0	82	77	74	72	76	73	73	70	77
1.5	87	84	81	79	83	80	79	76	85
2.0	90	88	86	84	86	85	84	81	90
2.5	92	90	89	87	89	87	86	84	93
3.0	93	92	91	90	90	89	88	86	95
4.0	95	94	93	92	92	91	90	87	97
5.0	95	95	94	93	93	92	91	88	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 1800 lm bare lamp luminous flux)

Riflect.: ceil/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	11.5	13.2	11.9	13.5	13.8	11.5	13.2	11.9	13.5	13.8
	3H	11.5	12.6	11.8	12.9	13.2	11.5	12.6	11.8	12.9	13.2
	4H	11.4	12.4	11.8	12.7	13.0	11.4	12.4	11.8	12.7	13.0
	6H	11.4	12.2	11.7	12.5	12.9	11.3	12.2	11.7	12.5	12.9
	8H	11.3	12.2	11.7	12.5	12.9	11.3	12.2	11.7	12.5	12.9
	12H	11.2	12.2	11.6	12.6	12.9	11.2	12.2	11.6	12.5	12.9
4H	2H	11.4	12.4	11.8	12.7	13.0	11.4	12.4	11.8	12.7	13.0
	3H	11.3	12.3	11.7	12.6	13.0	11.3	12.3	11.7	12.6	13.0
	4H	11.2	12.3	11.6	12.7	13.1	11.2	12.3	11.6	12.7	13.1
	6H	10.9	12.4	11.4	12.8	13.3	10.9	12.4	11.4	12.8	13.3
	8H	10.8	12.4	11.3	12.9	13.3	10.8	12.4	11.3	12.9	13.3
	12H	10.8	12.3	11.2	12.8	13.3	10.7	12.3	11.2	12.8	13.3
8H	4H	10.8	12.4	11.3	12.9	13.3	10.8	12.4	11.3	12.9	13.3
	6H	10.8	12.2	11.3	12.6	13.2	10.8	12.2	11.3	12.6	13.2
	8H	10.8	11.9	11.3	12.4	12.9	10.8	11.9	11.3	12.4	12.9
	12H	10.9	11.7	11.4	12.2	12.7	10.9	11.7	11.4	12.1	12.7
12H	4H	10.7	12.3	11.2	12.8	13.3	10.8	12.3	11.2	12.8	13.3
	6H	10.8	11.9	11.3	12.4	12.9	10.8	11.9	11.3	12.4	12.9
	8H	10.9	11.7	11.4	12.1	12.7	10.9	11.7	11.4	12.2	12.7

Variations with the observer position at spacing:

S =			
	1.0H	1.9 / -4.9	1.9 / -4.9
	1.5H	4.2 / -7.4	4.2 / -7.4
	2.0H	6.2 / -8.6	6.2 / -8.6