Cestello

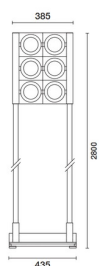**Design G. Aulenti - P. Castiglioni**   **iGuzzini**

Last information update: August 2023

Product configuration: MH46
MH46: standard lamp luminaire with 6 optical assemblies - warm white passive dissipation LEDs - integrated electronic control gear - medium

Product code
MH46: standard lamp luminaire with 6 optical assemblies - warm white passive dissipation LEDs - integrated electronic control gear - medium **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. Textured PMMA additional optic screens - medium 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

Technical data

lm system:	8847	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):	61.3	Ballast losses [W]:	5.1
		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.) [%]:	82	Number of optical assemblies:	6
Beam angle [°]:	30°		

Polar

lmax=3731 cd

CIE			
nL 0.82			
87-97-100-100-82			
UGR 14.0-14.0			

DIN A.61
UTE 0.82A+0.00T
F"1=870
F"1+F"2=970
F"1+F"2+F"3=997
CIBSE LG3 L<3000 cd/m² at 65°
UGR<16 | L<3000 cd/mq @65°

h	d	Em	Emax
2	1.1	764	933
4	2.1	191	233
6	3.2	85	104
8	4.3	48	58

α=30°

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	64	61	58	63	60	60	56	69
1.0	73	69	65	63	68	65	64	61	74
1.5	78	75	72	70	74	71	70	67	82
2.0	81	79	77	75	77	76	75	72	88
2.5	83	81	79	78	80	78	77	75	91
3.0	84	83	81	80	81	80	79	77	94
4.0	86	84	84	83	83	82	81	79	96
5.0	86	85	85	84	84	83	82	80	97

Luminance curve limit

QC	A	G	1.15	2000	1000	500		<=300			
	B		1.50		2000	1000	750	500	<=300		
	C		1.85			2000		1000	500	<=300	

	10²	2	3	4 5 6	8 10³	2	3	4 5 6	8 10⁴	cd/m²

C0-180
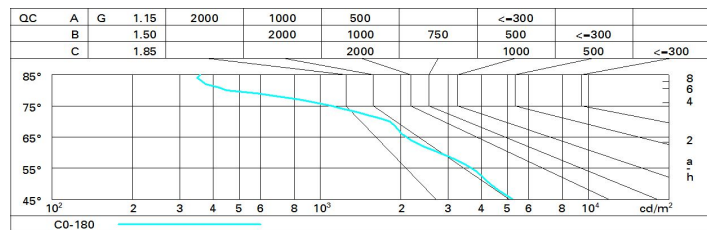
UGR diagram

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					viewed				
x	y	crosswise					endwise				
2H	2H	13.1	13.8	13.4	14.1	14.3	13.1	13.8	13.4	14.1	14.3
	3H	13.6	14.2	13.9	14.5	14.8	13.3	13.9	13.6	14.2	14.5
	4H	13.7	14.2	14.0	14.5	14.8	13.3	13.9	13.7	14.2	14.5
	6H	13.6	14.2	14.0	14.5	14.8	13.3	13.9	13.7	14.2	14.5
	8H	13.6	14.1	14.0	14.4	14.8	13.3	13.8	13.7	14.1	14.5
	12H	13.6	14.1	13.9	14.4	14.8	13.2	13.7	13.6	14.1	14.4
4H	2H	13.3	13.9	13.7	14.2	14.5	13.7	14.2	14.0	14.5	14.8
	3H	13.9	14.4	14.3	14.8	15.1	14.0	14.4	14.3	14.8	15.1
	4H	14.0	14.5	14.4	14.8	15.2	14.0	14.5	14.4	14.8	15.2
	6H	14.0	14.4	14.4	14.8	15.2	14.0	14.4	14.5	14.8	15.2
	8H	14.0	14.3	14.4	14.7	15.2	14.0	14.3	14.4	14.8	15.2
	12H	13.9	14.2	14.4	14.7	15.1	13.9	14.3	14.4	14.7	15.2
8H	4H	14.0	14.3	14.4	14.8	15.2	14.0	14.3	14.4	14.7	15.2
	6H	14.0	14.3	14.5	14.7	15.2	14.0	14.3	14.5	14.7	15.2
	8H	13.9	14.2	14.4	14.7	15.2	13.9	14.2	14.4	14.7	15.2
	12H	13.9	14.1	14.4	14.6	15.1	13.9	14.1	14.4	14.6	15.1
12H	4H	13.9	14.3	14.4	14.7	15.2	13.9	14.2	14.4	14.7	15.1
	6H	13.9	14.2	14.4	14.7	15.2	13.9	14.2	14.4	14.7	15.2
	8H	13.9	14.1	14.4	14.6	15.1	13.9	14.1	14.4	14.6	15.1

Variations with the observer position at spacing:

S =	1.0H	0.6 / -0.8	0.6 / -0.8
	1.5H	1.5 / -2.3	1.5 / -2.3
	2.0H	2.8 / -3.0	2.8 / -3.0