iN90

Last information update: April 2024

Product configuration: M458+M493.01+L042
M458: Frame version extruded aluminium intermediate/end profile complete
M493.01: Folded sheet steel lamp holder plate - White

Product code
M458: Frame version extruded aluminium intermediate/end profile complete **Attention! Code no longer in production**

Technical description
Frame version extruded aluminium intermediate/end profile complete with direct joints; methacrylate opal screen set up for connecting several lengths by overlapping; set up for housing 3 wired plates 28/54W T16

Installation
Fitted in continuous rows. Installation is recessed, using suitable brackets included in the pack

Colour	**Weight (Kg)**
White (01)	Aluminium (12)	8.76

Mounting
ceiling recessed|ceiling surface

Wiring
Initial profiles are supplied with 7-pole pass-through wiring for continuous rows. Quick coupling terminal blocks for easier luminaire installation

Notes
Order composition and continuous row configuration can be found in the catalogue. Wiring, plates, end cap sets and fixing accessories must be ordered separately.

Complies with EN60598-1 and pertinent regulations

850°C

Product code
M493.01: Folded sheet steel lamp holder plate - White **Attention! Code no longer in production**

Technical description
Folded sheet steel lamp holder plate with wiring set up for overlapping of 2 T16 tubular lamps.

Colour
White (01)

Mounting
ceiling recessed|ceiling surface|ceiling pendant

Wiring
Electronic multiwatt DALI 2x28W T16

Notes
Order composition and continuous row configuration can be found in the catalogue. Wiring, plates, end cap sets and fixing accessories must be ordered separately.For information on wattage of recessed applications please refer to the instructions sheet

Complies with EN60598-1 and pertinent regulations

CE   ⎓03   CCC pending

Technical data

lm system:	8811	CRI:	86
W system:	192	Colour temperature [K]:	4000
lm source:	2600	Voltage [Vin]:	230
W source:	28	Lamp code:	L042
Luminous efficiency (lm/W, real value):	45.9	Socket:	G5
lm in emergency mode:	-	Number of lamps for optical assembly:	6
Total light flux at or above an angle of 90° [Lm]:	1	ZVEI Code:	T 16
Light Output Ratio (L.O.R.) [%]:	56	Number of optical assemblies:	1

Polar

Imax=3161 cd	C85-265	**CIE**

nL 0.56
47-78-95-100-56
UGR 24.0-23.9
DIN
A.41
UTE
0.56E+0.00T
F"1=472
F"1+F"2=782
F"1+F"2+F"3=951

180°
90°   90°
3000
0°
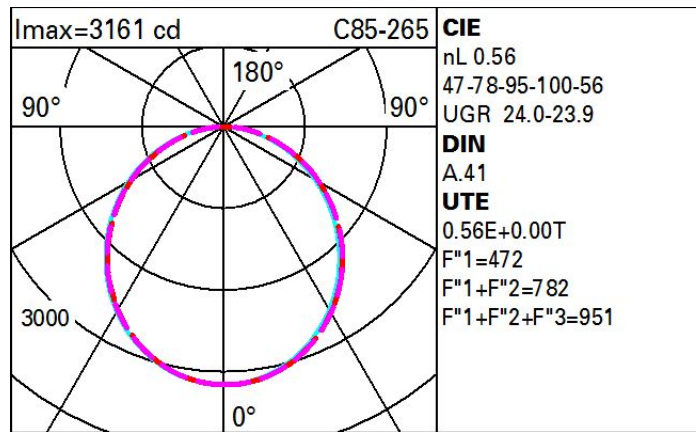
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	37	31	27	24	30	26	26	22	39
1.0	41	35	31	28	34	30	30	26	46
1.5	47	42	38	35	41	38	37	33	59
2.0	50	46	43	41	45	42	42	38	68
2.5	52	49	46	44	48	45	45	41	73
3.0	54	51	49	46	50	48	47	44	78
4.0	55	53	51	50	52	50	49	47	83
5.0	56	55	53	52	53	52	51	48	86

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

85°
75°
65°
55°
45°

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

8
6
4
2
a
h

C0-180   C90-270
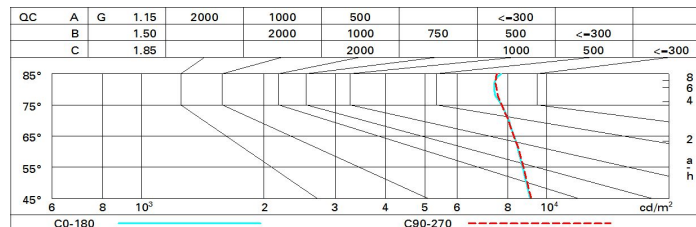
UGR diagram

Corrected UGR values (at 15600 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 x	y			viewed crosswise					viewed endwise		
2H	2H	20.0	21.2	20.3	21.5	21.7	20.3	21.4	20.6	21.7	22.0
	3H	21.6	22.7	21.9	22.9	23.3	20.8	21.8	21.1	22.1	22.4
	4H	22.2	23.2	22.6	23.5	23.8	21.0	22.0	21.3	22.3	22.6
	6H	22.7	23.6	23.1	23.9	24.3	21.0	22.0	21.4	22.3	22.6
	8H	22.9	23.8	23.3	24.1	24.5	21.1	21.9	21.4	22.3	22.6
	12H	23.0	23.8	23.4	24.2	24.6	21.0	21.9	21.4	22.2	22.6
4H	2H	20.7	21.7	21.1	22.0	22.3	22.6	23.6	22.9	23.9	24.2
	3H	22.5	23.3	22.9	23.7	24.1	23.3	24.1	23.7	24.5	24.9
	4H	23.2	24.0	23.6	24.4	24.8	23.6	24.3	24.0	24.7	25.1
	6H	23.8	24.5	24.3	24.9	25.3	23.8	24.5	24.3	24.9	25.3
	8H	24.0	24.7	24.5	25.1	25.5	23.9	24.5	24.4	24.9	25.4
	12H	24.2	24.8	24.7	25.2	25.7	23.9	24.5	24.4	24.9	25.4
8H	4H	23.5	24.1	24.0	24.6	25.0	24.6	25.2	25.0	25.6	26.0
	6H	24.3	24.8	24.7	25.2	25.7	25.0	25.5	25.4	25.9	26.4
	8H	24.6	25.0	25.1	25.5	26.0	25.1	25.6	25.6	26.0	26.6
	12H	24.8	25.2	25.3	25.7	26.2	25.2	25.6	25.7	26.1	26.6
12H	4H	23.5	24.1	24.0	24.5	25.0	24.8	25.3	25.2	25.8	26.2
	6H	24.3	24.8	24.8	25.2	25.8	25.2	25.7	25.7	26.1	26.7
	8H	24.7	25.1	25.2	25.6	26.1	25.4	25.8	25.9	26.3	26.8

Variations with the observer position at spacing:

S =			
1.0H	0.1 / -0.1	0.1 / -0.1
1.5H	0.2 / -0.3	0.2 / -0.3
2.0H	0.4 / -0.5	0.3 / -0.5