

## Action

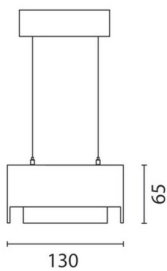
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### Product configuration: MM45+L105

MM45: Individual pendant Dark-VDU  $L \leq 1000 \text{ cd/m}^2$   $\alpha > 65^\circ$  up/down with electronic control gear and permanent emergency lighting  
T16 2x35/49W



### Product code

MM45: Individual pendant Dark-VDU  $L \leq 1000 \text{ cd/m}^2$   $\alpha > 65^\circ$  up/down with electronic control gear and permanent emergency lighting  
T16 2x35/49W **Attention! Code no longer in production**

### Technical description

Suspended lighting system designed for fluorescent light sources with up/down light emission. The product permits downlight-only emission by means of a top cover (to be ordered separately) made of plastic material. The specular optics can be removed without tools for ordinary maintenance operations. The product has a controlled-luminance optic for  $65^\circ$  suitable to be used in environments with VDUs according to Standard EN 12464-1. The lamellar optic with bi-parabolic profile and its external surface are made of anodised specular superpure aluminium and are equipped with fall-prevention system. The structure of the fitting is made of painted extruded aluminium; the lamp-holding supports are made of galvanised painted sheet steel; the end caps (supplied with the product) are of polycarbonate. The top protection screen (to be ordered separately) is made of transparent polycarbonate subjected to anti-UV treatment. The power-supply cable is transparent and the cables are subjected to antioxidant treatment. Suspended installation. The suspension system (supplied with the product) has sheet-steel supporting plates with polycarbonate covering bases and steel suspension cables with millimetric adjustment system (applied to the modules).

### Installation

Pendant

**Colour**  
White (01) | Grey (15)

**Weight (Kg)**  
5.78

**Mounting**  
ceiling pendant

### Wiring

Electronic control gear set up for emergency light, complete with inverter and rechargeable battery unit. Terminal blocks set up for REST MODE. Permanent emergency light; 1.5 hours autonomy with 12 hour recharging cycle - 3 hours autonomy with 24 hour recharging cycle. Conforms to EN60598-2-22.

Complies with EN60598-1 and pertinent regulations



850°C

IP20

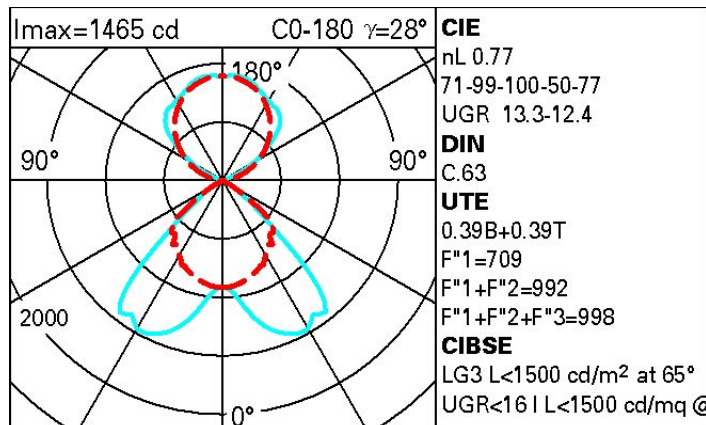


### Technical data

Im system:	4728
W system:	78
Im source:	3050
W source:	35
Luminous efficiency (Im/W, real value):	60.6
Im in emergency mode:	6100
Total light flux at or above an angle of $90^\circ$ [Lm]:	2375
Light Output Ratio (L.O.R.) [%]:	78
CRI:	86

Colour temperature [K]:	6500
Ballast losses [W]:	8
Voltage [Vin]:	230
Lamp code:	L105
Socket:	G5
Number of lamps for optical assembly:	2
ZVEI Code:	T 16
Number of optical assemblies:	1

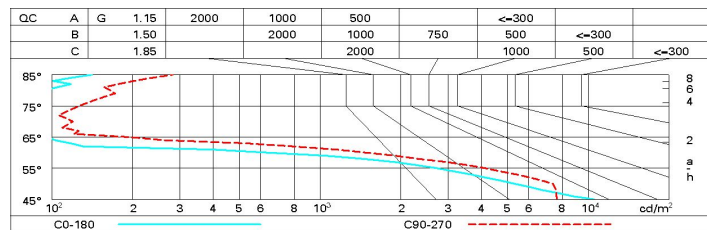
### Polar



# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	47	40	36	33	36	32	29	22	57
1.0	51	45	41	38	40	37	33	25	64
1.5	57	53	49	46	46	44	38	29	76
2.0	61	57	54	52	50	48	42	32	83
2.5	63	60	57	55	52	50	44	33	87
3.0	64	62	59	57	54	52	45	34	89
4.0	66	64	62	60	55	54	47	35	92
5.0	67	65	63	62	56	55	47	36	93

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 0°100 lm bare lamp luminous flux)										
Reflect.: ceiling walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise			
2H	2H	14.2	14.7	15.1	15.6	16.7	13.3	13.8	14.2	14.7
	3H	14.0	14.4	14.9	15.3	16.4	13.2	13.6	14.1	14.5
	4H	13.8	14.2	14.6	15.1	16.3	13.0	13.4	14.0	14.3
	6H	13.7	14.1	14.6	15.0	16.2	12.9	13.3	13.8	14.2
	8H	13.6	14.0	14.6	14.9	16.1	12.8	13.2	13.8	14.1
	12H	13.6	13.9	14.5	14.9	16.1	12.8	13.1	13.7	14.1
4H	2H	13.9	14.3	14.8	15.2	16.4	13.0	13.4	13.9	14.3
	3H	13.6	14.0	14.6	14.9	16.1	12.8	13.1	13.7	14.1
	4H	13.5	13.8	14.5	14.7	16.0	12.6	12.9	13.6	13.9
	6H	13.4	13.6	14.4	14.6	15.9	12.5	12.7	13.5	13.7
	8H	13.3	13.5	14.3	14.5	15.8	12.4	12.6	13.4	13.6
	12H	13.2	13.4	14.2	14.4	15.7	12.3	12.5	13.4	13.5
8H	4H	13.3	13.5	14.3	14.5	15.8	12.4	12.6	13.4	13.6
	6H	13.1	13.3	14.2	14.3	15.7	12.3	12.5	13.3	13.5
	8H	13.1	13.2	14.1	14.2	15.6	12.2	12.4	13.2	13.4
	12H	13.0	13.1	14.0	14.2	15.5	12.1	12.3	13.2	13.3
12H	4H	13.2	13.4	14.2	14.4	15.7	12.3	12.6	13.4	13.6
	6H	13.1	13.2	14.1	14.2	15.6	12.2	12.4	13.2	13.4
	8H	13.0	13.1	14.0	14.2	15.5	12.1	12.3	13.2	13.3
Variations with the observer position at spacing:										
S =		1.0H	2.7 / -5.5				1.3 / -2.3			
		1.5H	5.2 / -19.8				2.5 / -13.8			
		2.0H	7.1 / -20.6				4.5 / -17.4			