

Mini Light Air

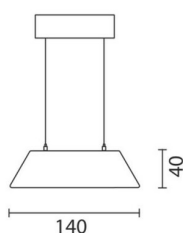
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Last information update: February 2023

Product configuration: M109+L147

M109: Individual pendant Dark-VDU $L \leq 1000 \text{ cd/m}^2$ $\alpha > 65^\circ$ up/down with electronic control gear and permanent emergency light T16 35/49/80W



Product code

M109: Individual pendant Dark-VDU $L \leq 1000 \text{ cd/m}^2$ $\alpha > 65^\circ$ up/down with electronic control gear and permanent emergency light T16 35/49/80W **Attention! Code no longer in production**

Technical description

Suspended lighting system designed for fluorescent light sources with up/down dark light luminous emission. The product permits down-light-only emission by means of a top cover made of plastic material. Controlled-luminance optic $L \leq 1000 \text{ cd/m}^2$ for $\alpha > 65^\circ$ suitable for use in environments with VDUs according to standard EN 12464-1. The lamellar optic with bi-parabolic profile is made of anodised specular superpure aluminium. The structure of the fitting is made of galvanised painted sheet-steel; the lamp-holding supports are made of galvanised painted sheet-steel; the end caps are made 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. The suspension system is included in the fitting.

Installation

Suspended installation. The suspension system, supplied with the product, is provided with sheet-steel supporting plates, polycarbonate covering bases and steel suspension cables with millimetric adjustment system (applied to the modules).

Colour

White (01) | Grey (15)

Mounting

ceiling pendant

Wiring

The fittings is equipped with T16 25/49/80W Multiwatt electronic ballast with inverter and battery pack for emergency light. The fitting is designed for through wiring. The special terminal boards designed for REST MODE ensure permanent emergency light for 1 hour.

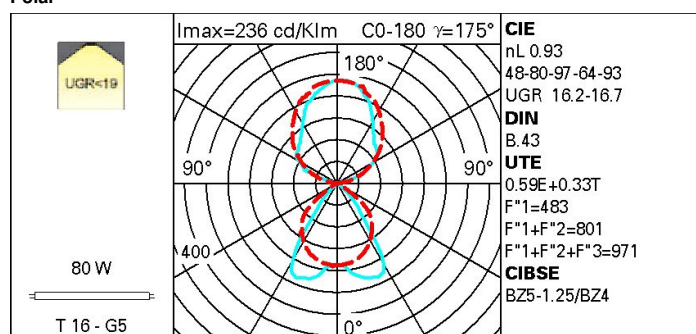
Complies with EN60598-1 and pertinent regulations



Technical data

Im system:	5701,7	Colour temperature [K]:	4000
W system:	91	Ballast losses [W]:	11
Im source:	6150	Voltage [Vin]:	230
W source:	80	Lamp code:	L147
Luminous efficiency (lm/W, real value):	62,7	Socket:	G5
Im in emergency mode:	520,9	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	3653,1	ZVEI Code:	T 16
Light Output Ratio (L.O.R.) [%]:	93	Number of optical assemblies:	1
CRI:	86		

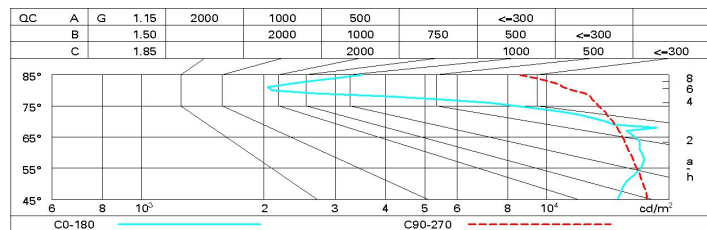
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	54	45	39	34	40	35	32	24	40
1.0	59	51	45	40	46	41	37	28	47
1.5	68	61	56	52	55	51	46	36	60
2.0	73	68	63	59	61	57	52	41	69
2.5	76	72	68	64	65	61	55	45	75
3.0	79	75	71	68	67	64	58	47	79
4.0	81	78	75	73	70	68	61	50	84
5.0	83	80	78	76	72	70	63	52	87

Luminance curve limit



UGR diagram

Photometric curve code: 31880000.147										
Uncorrected UGR values (at 1000 lm bare lamp luminous flux)										
Reflect.:										
ceiling	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										
2H	2H	13.8	14.6	14.6	15.4	16.3	13.8	14.6	14.6	15.3
	3H	15.3	16.0	16.1	16.8	17.8	14.3	14.9	15.0	15.7
	4H	15.5	16.2	16.3	17.0	18.0	14.4	15.1	15.2	15.9
	6H	15.5	16.0	16.3	16.9	17.9	14.5	15.0	15.3	15.9
	8H	15.4	16.0	16.3	16.8	17.9	14.4	15.0	15.3	15.8
	12H	15.4	15.9	16.2	16.8	17.8	14.4	14.9	15.2	15.7
4H	2H	14.4	15.1	15.2	15.9	16.9	15.8	16.4	16.6	17.2
	3H	16.0	16.6	16.9	17.4	18.4	16.4	16.9	17.2	17.8
	4H	16.3	16.8	17.1	17.6	18.7	16.6	17.1	17.5	17.9
	6H	16.2	16.7	17.1	17.5	18.6	16.7	17.1	17.6	18.0
	8H	16.2	16.6	17.1	17.5	18.6	16.7	17.1	17.6	17.9
	12H	16.1	16.5	17.0	17.4	18.5	16.6	17.0	17.5	17.9
8H	4H	16.4	16.8	17.3	17.6	18.7	17.2	17.6	18.1	18.5
	6H	16.4	16.7	17.3	17.6	18.7	17.4	17.7	18.3	18.6
	8H	16.3	16.6	17.3	17.5	18.7	17.4	17.7	18.3	18.6
	12H	16.3	16.5	17.2	17.5	18.6	17.4	17.6	18.3	18.6
12H	4H	16.3	16.7	17.2	17.6	18.7	17.3	17.6	18.2	18.5
	6H	16.4	16.6	17.3	17.5	18.7	17.5	17.7	18.4	18.7
	8H	16.4	16.6	17.3	17.5	18.7	17.5	17.8	18.5	18.7
Variations with the observer position at spacing:										
S =	1.0H		0.1	/	-0.1			0.1	/	-0.1
	1.5H		0.4	/	-0.6			0.2	/	-0.3
	2.0H		0.6	/	-0.8			0.5	/	-0.6