

Test Report No 04/2020

Tested By

A handwritten signature in blue ink, reading "Mateusz Eickler".

I. General information

1. Manufacturer:

Lena Lighting S. A.
63-000 Środa Wlkp.
Ul. Kórnicka 52

2. Date: 07-12-2020

3. Test item description:

Luminaire for UV tube

4. Type

UV-C Sterilon AIR 72W, UV-C Sterilon AIR 144W, UV-C Sterilon AIR LIGHT 72W, UV-C Sterilon AIR LIGHT 144W

5. Technical data

220-240V, 50/60Hz, 2G11, class of protection I, IP20, 2x36W or 4x36W

6. Test specification

EN ISO 15858:2016	UV-C Devices - Safety information - Permissible human exposure
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7. Result of test: POSITIVE

8. Marking:

LENA LIGHTING S. A.

UV-C Sterilon AIR144W

220-240V~, 50/60Hz, 2G11, 4x36W, IP20

Symbol: CE, I class of protection

9. End of test 29-12-2020

10. Test case verdicts:

Test case does not apply to the test object: N

Test item does meet the requirement: P (pass)

Test item does not meet the requirement: F (fail)

II. Program of tests and results

EN ISO 15858 4.2	If you observe a blue glow in the UV lamp, it is necessary to take a measurement to make sure there is no risk of exposure. (Ultraviolet energy is invisible to humans. However, it follows the same optical path as the visible blue light spectrum generated by a UVC lamp).	P								
EN ISO 15858 4.3	Measurement of UVC radiation was carried out in accordance with the measurement method described in EN 14255-1 using a hand-held radiometer with sensors tuned to read wavelengths from 240 nm to 270 nm.	P								
Measure table:	<table> <tr> <td>STERILON FLOW 72W</td> <td>0.000 W/m2 0.000 J/m2</td> </tr> <tr> <td>STERILON FLOW 144W</td> <td>0.000 W/m2 0.000 J/m2</td> </tr> <tr> <td>STERILON AIR LIGHT 72W</td> <td>0.000 W/m2 0.000 J/m2</td> </tr> <tr> <td>STERILON AIR LIGHT 144W</td> <td>0.000 W/m2 0.000 J/m2</td> </tr> </table>	STERILON FLOW 72W	0.000 W/m2 0.000 J/m2	STERILON FLOW 144W	0.000 W/m2 0.000 J/m2	STERILON AIR LIGHT 72W	0.000 W/m2 0.000 J/m2	STERILON AIR LIGHT 144W	0.000 W/m2 0.000 J/m2	P
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STERILON AIR LIGHT 144W	0.000 W/m2 0.000 J/m2									
EN ISO 15858 5.2	The maximum allowable exposure to UVC radiation must not exceed 60 J / m2 for 8 hours per day and 40 hours per working week, when exposed to UV radiation of 254 nm.	P								

* The test was performed on a representative sample, potentially creating the worst conditions for measurement. The construction of other devices is similar.

Table 1 — Maximum permissible UVC exposure for radiation at 254 nm

Permissible exposure time	Effective irradiance $\mu\text{W}/\text{cm}^2$
24 h	0,07
18 h	0,09
12 h	0,14
10 h	0,17
8 h	0,2
4 h	0,4
2 h	0,8
1 h	1,7
30 min	3,3
15 min	6,7
10 min	10
5 min	20
1 min	100
30 s	200
15 s	400
5 s	1 200
1 s	6 000
NOTE This table is based on NIOSH/ACGIH maximum UV exposure times.	

Summary: on the basis of the measurements carried out in relation to the EN ISO 15858 standard, it is concluded that the product is completely safe.

III. Parts of luminaire

- body
- metal protective mesh
- lamp holder 2G11
- ballast
- wiring
- terminal
- TUV PL-L 36W/4P 1CT/25



TUV PL-L

TUV PL-L 36W/4P 1CT/25

Product data

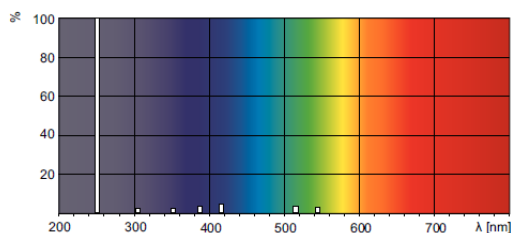
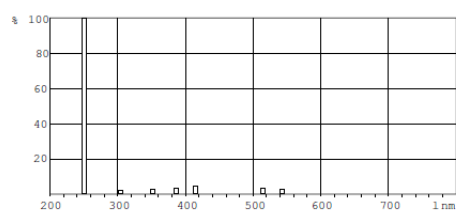
General Information		Voltage (Nom)	
Cap-Base	2G11 [2G11]	105 V	
Main Application	Disinfection	Mechanical and Housing	
Useful Life (Nom)	9000 h	Cap-Base Information	
System Description	-	4 Pins	
Light Technical		UV	
Color Code	TUV	UV-C Radiation at 100 hr	
Color Designation	- [Not Specified]	12.0 W	
Depreciation at Useful Lifetime	15 %	Product Data	
Operating and Electrical		Full product code	
Power (Nom)	36 W	871150062878740	
Lamp Current (Nom)	0.44 A	Order product name	
		TUV PL-L 36W/4P 1CT/25	
		EAN/UPC - Product	
		8711500628787	
		Order code	
		927903404007	
		Numerator - Quantity Per Pack	
		1	
Numerator - Packs per outer box		25	
Material Nr. (12NC)		927903404007	
Net Weight (Piece)		104.000 g	

Dimensional drawing

Product	D1 (max)	D (max)	A (max)	B (max)	C (max)
TUV PL-L 36W/4P 1CT/25	18 mm	38 mm	385 mm	410 mm	415 mm

TUV PL-L 36W/4P

Photometric data



Data sheet

Luminaire for UV tube

Data sheet:

220-240V, 50/60Hz, 2G11, class of protection I, IP20, 2x36W or 4x36W

