

# Test Report No 06/2021

Tested By



NIP 786 16 16 166  
VAT EU PL 786 16 16 166  
REGON 634635800  
Kapitał akcyjny 1.243.752,50zł  
W całości wpłacony

Bank: Santander Bank Polska S.A. o/ Środa Wlkp.  
PLN PL 59 1090 1418 0000 0000 4104 6436  
USD PL 74 1090 1418 0000 0000 4104 6457  
EUR PL 47 1090 1418 0000 0000 4104 6458  
SWIFT: WBKPPLPP

Sąd Rejonowy Poznań  
Nowe Miasto  
I Wilda w Poznaniu  
IX Wydział Gospodarczy  
KRS 0000224210

Bank: BNP Paribas Bank Polska S.A.  
PLN PL 14 1600 1462 1814 9652 2000 0001  
USD PL 03 1600 1462 1814 9652 2000 0005  
EUR PL 30 1600 1462 1814 9652 2000 0004  
SWIFT: PPABPLPK

**Lena Lighting S.A.**  
ul. Kórnicka 52  
63-000 Środa Wielkopolska

tel. +48 (61) 28 60 300  
office@lenalighting.pl  
www.lenalighting.pl

**I. General information****1. Manufacturer:**

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

**2. Date:** 15-11-2021

**3. Test item description:**

Luminaire for UV-C tube

**4. Type**

UV-C STERILON MAX 288W

**5. Technical data**

220-240V, 50/60Hz, 2G11, class of protection I, IP20, 8x36W

**6. Test specification**

EN ISO 15858:2016	UV-C Devices - Safety information - Permissible human exposure
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**LENA**  
**LIGHTING**

**7. Result of test: POSITIVE**

Środa Wielkopolska

Technical Department

report No 06/2021

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**8. Marking:**

LENA LIGHTING S. A.

UV-C STERILON MAX 288W

220-240V~, 50/60Hz, 2G11, 8x36W, IP20

Symbol: CE, I class of protection

**9. End of test 22-11-2021**

**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)

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**II. Program of tests and results**

<p>EN ISO 15858 4.2</p>	<p>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>	<p>P</p>						
<p>EN ISO 15858 4.3</p>	<p>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>	<p>P</p>						
<p>Measure table:</p>	<table border="1"> <tr> <td data-bbox="391 884 841 1031"> <p>STERILON MAX 800</p> </td> <td data-bbox="841 884 1287 1031"> <p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p> </td> </tr> <tr> <td data-bbox="391 1031 841 1178"> <p>STERILON MAX 1200</p> </td> <td data-bbox="841 1031 1287 1178"> <p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p> </td> </tr> <tr> <td data-bbox="391 1178 841 1325"> <p>STERILON MAX 1500</p> </td> <td data-bbox="841 1178 1287 1325"> <p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p> </td> </tr> </table>	<p>STERILON MAX 800</p>	<p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p>	<p>STERILON MAX 1200</p>	<p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p>	<p>STERILON MAX 1500</p>	<p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p>	<p>P</p>
<p>STERILON MAX 800</p>	<p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p>							
<p>STERILON MAX 1200</p>	<p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p>							
<p>STERILON MAX 1500</p>	<p>0.000 W/m<sup>2</sup> 0.000 J/m<sup>2</sup></p>							
<p>EN ISO 15858 5.2</p>	<p>The maximum allowable exposure to UVC radiation must not exceed 60 J / m<sup>2</sup> for 8 hours per day and 40 hours per working week, when exposed to UV radiation of 254 nm.</p>	<p>P</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.

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### III. Parts of luminaire

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

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## TUV PL-L

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

#### Product data

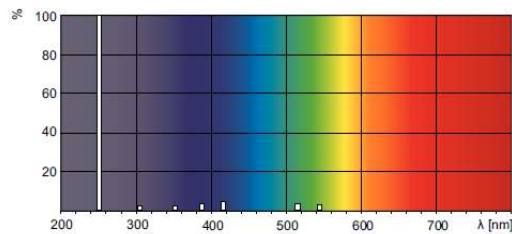
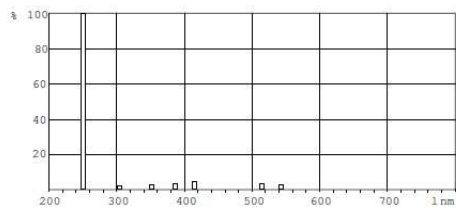
General Information		Voltage (Nom)	
Cap-Base	2G11 [ 2G11]		105 V
Main Application	Disinfection	Mechanical and Housing	
Useful Life (Nom)	9000 h	Cap-Base Information	4 Pins
System Description	-	UV	
		UV-C Radiation at 100 hr	12.0 W
Light Technical		Product Data	
Color Code	TUV	Full product code	87150062878740
Color Designation	- [ Not Specified]	Order product name	TUV PL-L 36W/4P 1CT/25
Depreciation at Useful Lifetime	15 %	EAN/UPC - Product	871500628787
		Order code	927903404007
Operating and Electrical		Numerator - Quantity Per Pack	1
Power (Nom)	36 W		
Lamp Current (Nom)	0.44 A		
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

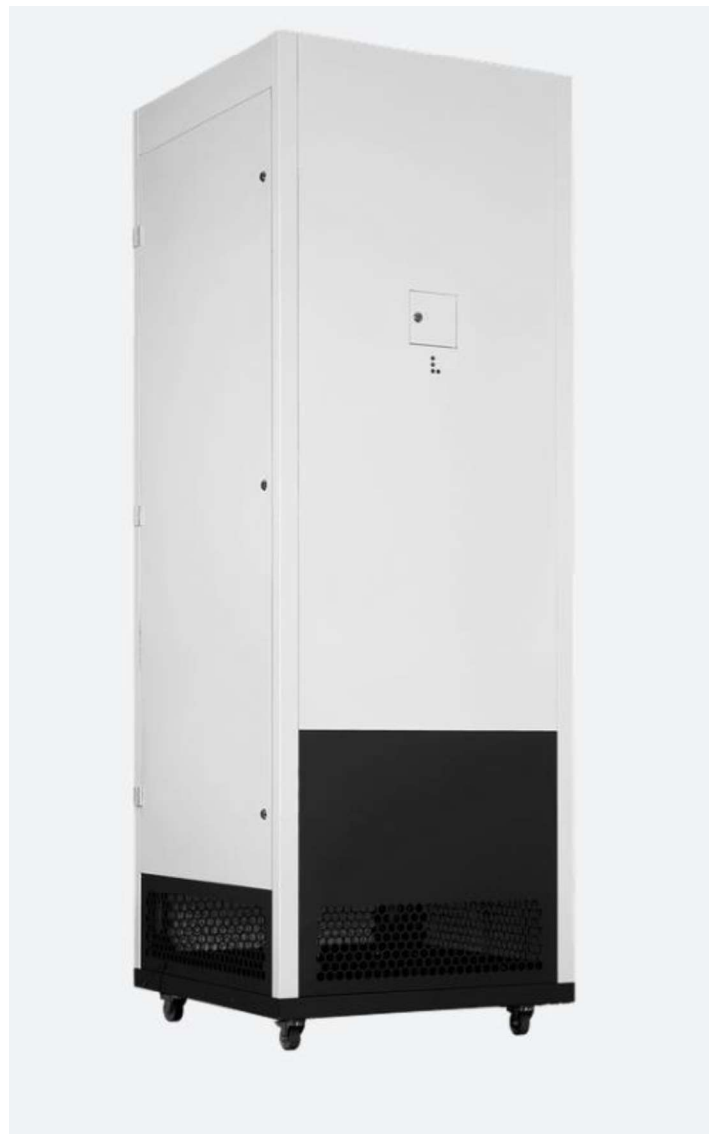


## Data sheet

Luminaire for UV-C tube

Data sheet:

220-240V, 50/60Hz, 2G11, class of protection I, IP20, 8x36W



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