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Project No: 4788828849  
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Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

**Issue**

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
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2019/06/17	1	21	Cert of Compliance	
2019/06/17	1	21	Add New Proc/Report Sect	

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

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MIL File

## INDEX

Model Nos.	Sec. No.	Issued Date	Requirements Evaluated to (US and CN)
Series "Light Nova", models "SUN03Lxxynn[WWWWW]", "SUN23Lxxynn[WWWWW]", "MUN13Lxxynn[WWWWW]".	13	2017-10-18	USL, CNL
Series "Light 103L", models "SU103Lxxy16[WWWWW]" "SU103Lxxy24[WWWWW]".	14	2017-11-20	USL, CNL
Series "Light Antares", models: "M[U]AN1Lyyynn[WWWWW]", "M[U]AN2Lyyynn[WWWWW]".	15	2018-07-31	USL, CNL
Series "Light Chara", models: "S[U]020Lxxy32[WWWWW]", "S[U]020Lxxy24[WWWWW]".	16	2019-02-08	USL, CNL
Series "Villa Neri", models: "6999.041.XXX[WWWWW]"	17	2019-02-26	USL, CNL
Series "Brenta", models: B-XL, B-L, B-M, B-S, W-L, W-S	18	2019-02-07	USL, CNL
Series "Light 804L", models: "S[U]804Lxxynn[WWWWW]", "P[U]804Lxxynn[WWWWW]"	19	2019-03-25	USL, CNL
Series "Bollard River Line", model: 2952.XXX	20	2019-05-29	USL, CNL
<b>Series "Light Lang", models: Lang 32+32, Lang 32, Lang 32+16, Lang 16+16, Lang 16</b>	<b>21</b>	<b>2019-06-17</b>	<b>USL, CNL</b>

Note: USL - United States Standard Listed  
CNL - Canadian Standard Listed

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190625-E359248  
**Report Reference** E359248-20190617  
**Issue Date** 2019-JUNE-25

**Issued to:** NERI SPA  
SS EMILIA 1622  
47020 LONGIANO FC ITALY

**This certificate confirms that  
representative samples of**

LIGHT-EMITTING-DIODE SURFACE-MOUNTED  
LUMINAIRES

Light Lang

Lang 32+32; Lang 32; Lang 32+16; Lang 16+16; Lang 16

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:**

UL 1598 - Luminaires

CSA C22.2 NO 250.0 - Luminaires

UL 8750 - Light Emitting Diode (LED) Equipment for Use in  
Lighting Products

CSA C22.2 No. 250.13 - LED Equipment for Lighting  
Applications

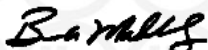
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Bruce Mahrenholz, Director North American Certification Program

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File E359248  
Project 4788828849

June 17, 2019

REPORT

on

LIGHT-EMITTING-DIODE SURFACE-MOUNTED LUMINAIRES

NERI SPA  
LONGIANO FC, ITALY

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## DESCRIPTION

PRODUCT COVERED:	USL, CNL - LED Surface-mounted Luminaire, pole.	
MODELS COVERED /NOMENCLATURE:	Series "Light Lang", models:  Lang 32+32; Lang 32; Lang 32+16; Lang 16+16; Lang 16	
ENVIRONMENTAL RATING:	Suitable for Wet locations	
GENERAL CONSTRUCTION:	This product complies with the applicable Standards for USL and/or CNL luminaires as explained under the "Technical Considerations" section noted below, the Section General pages (if provided), the UL 1598 FUII (Follow-Up Inspection Instructions), and the Description within this report.	
TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):	USL indicates product complies with the Standard for Luminaires, UL 1598 and the United States country specific requirements contained within the Standard, along with the relevant parts of the UL Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750.	CNL indicates product complies with the Standard for Luminaires, CSA C22.2 No. 250.0 and the Canadian country-specific requirements contained within the Standard. CSA-C22.2 No. 250.13, "Light Emitting Diode (LED) Equipment for Lighting Applications."

ELECTRICAL RATINGS:			
	Model	Ratings	LED Module type
	Lang 32+32	165 W, 120-277 Vac, 50/60Hz	2 x LA32
	Lang 32	85 W, 120-277 Vac, 50/60Hz	1 x LA32
	Lang 32+16	105 W, 120-277 Vac, 50/60Hz	1 x LA32 + 1 x LA16
	Lang 16+16	85 W, 120-277 Vac, 50/60Hz	2 x LA16
	Lang 16	43 W, 120-277 Vac, 50/60Hz	1 x LA16
MARKINGS:	In accordance with the FUII's, the UL 1598 Standard and the following.  SUITABLE FOR WET LOCATIONS (Verbatim)		
INSTRUCTIONS:	In accordance with the Standard. Shall also indicate the proper dimming method to regulate the luminous flux during the installation, which shall be demanded to qualified personnel only.		

Photo #	CONSTRUCTION FEATURE:	TECHNICAL DATA and/or DESCRIPTION
1, 2, 3, 4	Luminaire Body	<p>Made of die-cast aluminum, composed by two main parts:</p> <p>Upper cover, shaped as shown in Ill.1, intended as heat sink and components supporting means;</p> <p>Lower part, shaped as shown in Ill.2, intended as supporting means of the luminaire.</p> <p>The two parts are joined together by six screws.</p>
	Diffuser	Tempered flat glass, Shaped as shown in Ill.3, min. 4 mm thick. Two pieces provided in models with two LED modules. Any color or finishing
6	Closure panel (optional)	Made of metal, shaped as shown in Ill.4, intended to replace one Diffuser in models with only one LED module.
7	Component Mounting Plate	<p>Galvanized steel, minimum 1 mm thick., shaped as shown in Ill.5. Fixed to Luminaire Body's Upper cover by screws, intended as fixing plate for components in models with one LED driver.</p> <p>Alternate:</p> <p>Same as above except shaped as shown in Ill.6, in models with two LED drivers</p>
8	Plastic Reflector	Made of generic plastic, shaped as shown in Ill.7, rated min HB, 80°C, located into the Luminaire Body and fixed to it by screws over the diffuser or the Closure panel. Two provided.
4	Aesthetic decoration (optional)	Any shape and material, located outside the Luminaire body (see Ill.8 for an example of possible shape)
	Grounding/Bonding	In accordance with the Standard.
	Labels	PGDQ2/CN or PGJI2/CN suitable for surface, environment.

Photo #	COMPONENTS	TECHNICAL DATA and/or DESCRIPITON
	Supply connector (optionally provided)	Components described as R/C (by CCN identifier) or Listed must be UL Certified for the USA. Unless otherwise specified, components described as /CN must be UL Certified for Canada or CSA Certified.  Listed (CYJV/CN) E355693, manufactured by TECHNO SRL, model THB.387.A5A.L + THB.387.B5A.L, rated 400V, 10A, located on the external extremity of Supply Cord.
	Supply Cord	Any Listed (ZJCZ/CN), type SJTW, min 3 or 4 or 5x18AWG, rated min 300 V, 60°C.
	Internal Wiring	Primary circuit: any Listed (ZJCZ/CN) cord type min. SPT-2 or R/C (AVLV2/CN), rated min. 18 AWG, 300 V, 90°C.  Secondary circuit: any Listed (ZJCZ/CN) cord type min. SPT-2 or R/C (AVLV2/CN), rated min. 24 AWG, 300V, 105°C, located between LED driver(s) and LED module(s)
	Terminal Block (for internal connection in primary circuit)	R/C (XCFR2/CN) manufactured by Wago Kontakttechnik GmbH, (E45172) model 261 or 264, rated 300V, 15A, and min. 60°C; snap fitted into Component mounting plate and secured to main body by screws.  Alternate: R/C (XCFR2/CN), manufactured by ADELS-CONTACT ELEKTROTECHNISCHE FABRIK GMBH & CO. KG (E63492), model 500 RZ MDS, rated 300 V, 30 A, 105°C  Alternate: any Listed (ZMVV/CN), rated min 300V, 10 A, min. 90°C
	Terminals (for internal connection in secondary circuit)	Any Listed (ZMVV/CN), rated min 300V, 10 A, min. 90°C
	Surge Protector (Optionally provided)	R/C (VZCA2/CN), manufactured by LITTLEFUSE INC (E320116), model LSP10277P, type 4CA, rated 277 Vac, MCOV 320 Vac, 85°C. Secured to Component mounting plate.  Alternate: Same as above except for: model LSP10120P, type 4CA, rated 120 Vac, MCOV 150 Vac, 85°C.



	COMPONENTS	TECHNICAL DATA and/or DESCRIPITON (CONT'D)												
	LED Drivers	<p>R/C (FKSZ2/CN), OSRAM SPA, (E466937) model OT50/120-277/800 2DIMLT2 P. Input Ratings: 120-277 Vac, 50/60 Hz, 59.5 W; Output ratings: 30-115 Vdc, max 50 W, 0.35-0.8 A, CC.</p> <p>R/C (FKSZ2/CN), OSRAM SPA, (E466937) model OT100/120-277/800 2DIMLT2 P. Input Ratings: 120-277 Vac, 0.875 A, 50/60 Hz. Output Ratings: 50-186 Vdc, 350-800 mA, max 100 W, CC, isolated.</p> <p>R/C (FKSZ2/CN), OSRAM SPA, (E320395) model OT180/UNV/800C/2DIMLT2/P6. Input Ratings: 120-277 Vac, 1.7 A, 50/60 Hz. Output Ratings: max 280 Vdc, 350-800 mA, max 180 W, CC, isolated.</p> <p>Secured to Component mounting plate by screws; the following combination are considered with the characteristics listed above:</p> <table><tr><td>Luminaire</td><td>LED Drivers</td></tr><tr><td>Lang 32+32</td><td>: 1 x OT180 or 2 x OT100;</td></tr><tr><td>Lang 32</td><td>: 1 x OT100;</td></tr><tr><td>Lang 32+16</td><td>: 1 x OT100 or 1 x OT100 + 1 x OT50;</td></tr><tr><td>Lang 16+16</td><td>: 1 x OT100 or 2 x OT50;</td></tr><tr><td>Lang 16</td><td>: 1 x OT50</td></tr></table> <p>May be optionally provided also with a dimming potentiometer, connected between "Prog+/NTCSet/LT2" and "LED-" pins, for adjusting the output current from 50% to 100% of the max rated value. This device is composed by a 4.7kOhm resistor, covered by thermosetting sleeving R/C (YPDU2/CN) rated min. 300 V, connected in series to a 0-4.7 kOhm potentiometer, fixed to LED driver mounting bracket; connection wires, R/C (AVLV2/CN) rated min 300 V, 105°C.</p> <p>(Eng. Note: The installation instruction shall also indicate the proper dimming method to regulate the luminous flux during the installation, which shall be demanded to qualified personnel only).</p>	Luminaire	LED Drivers	Lang 32+32	: 1 x OT180 or 2 x OT100;	Lang 32	: 1 x OT100;	Lang 32+16	: 1 x OT100 or 1 x OT100 + 1 x OT50;	Lang 16+16	: 1 x OT100 or 2 x OT50;	Lang 16	: 1 x OT50
Luminaire	LED Drivers													
Lang 32+32	: 1 x OT180 or 2 x OT100;													
Lang 32	: 1 x OT100;													
Lang 32+16	: 1 x OT100 or 1 x OT100 + 1 x OT50;													
Lang 16+16	: 1 x OT100 or 2 x OT50;													
Lang 16	: 1 x OT50													
	LED Module	<p>R/C (OOQA2/CN), manufactured by NERI SPA (E471470), model LA32, rated 96 Vdc, max 0.9 A, 86 W;</p> <p>R/C (OOQA2/CN), manufactured by NERI SPA (E471470), model LA16, rated 48 Vdc, max 0.9 A, 43 W.</p> <p>Provided as follow:</p> <p>Lang 32+32: 2 x LA32; Lang 32: 1 x LA32; Lang 32+16: 1 x LA32 + 1 x LA16; Lang 16+16: 2 x LA16; Lang 16: 1 x LA16</p>												

## Photos

Photo 1

Luminaire  
overview

Photo 2

Luminaire  
overview

Photo 3

Luminaire  
overview  
(top)



Photo 4

Luminaire  
overview  
(model  
with  
Aesthetic  
decoratio  
n)



Photo 5

Bottom  
view  
(model  
with two  
LED  
modules)

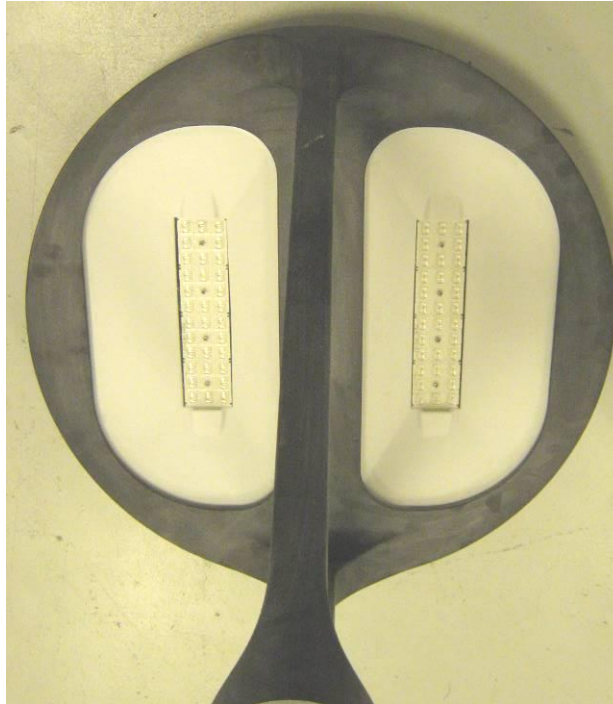


Photo 6

Bottom  
view  
(model  
with one  
LED  
module)



Photo 7

Upper  
cover  
(internal  
view)  
with  
component  
s

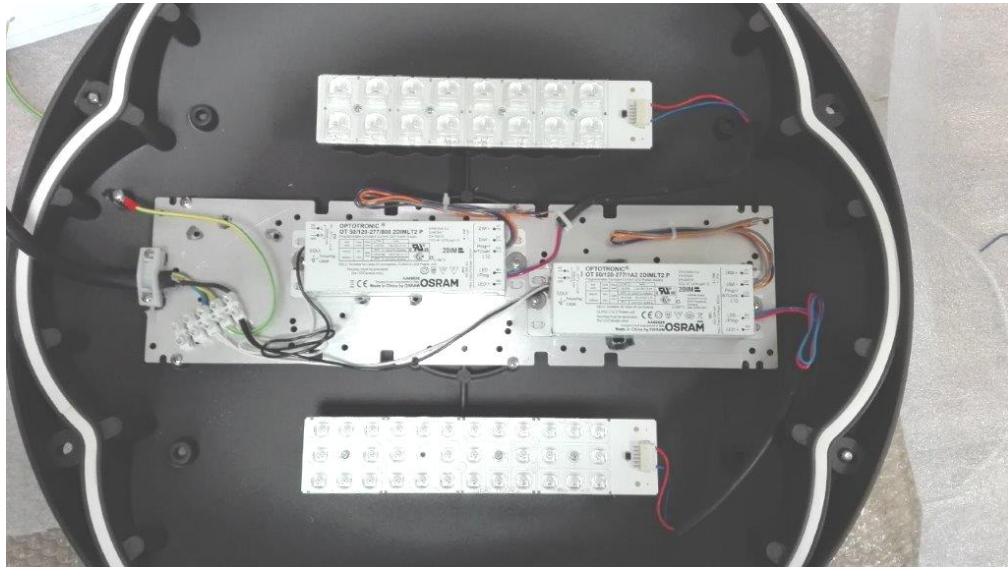
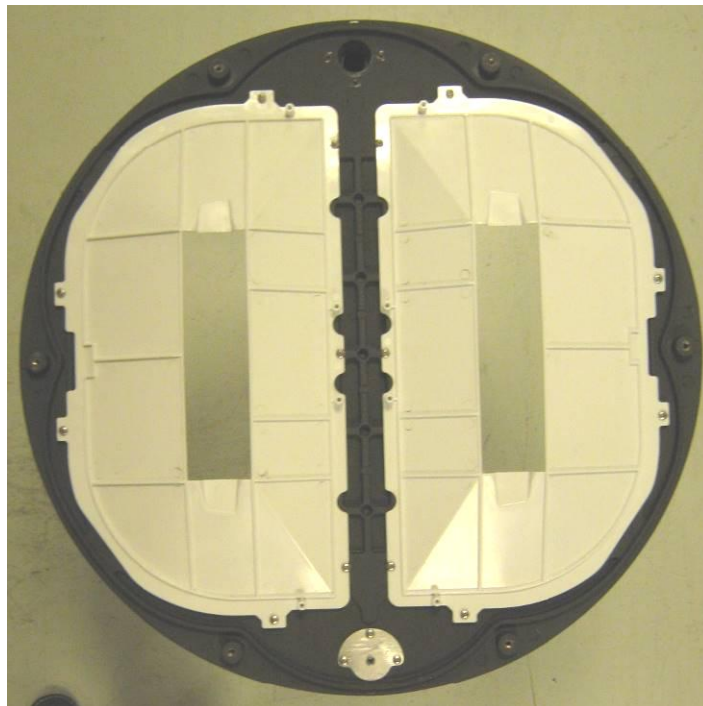


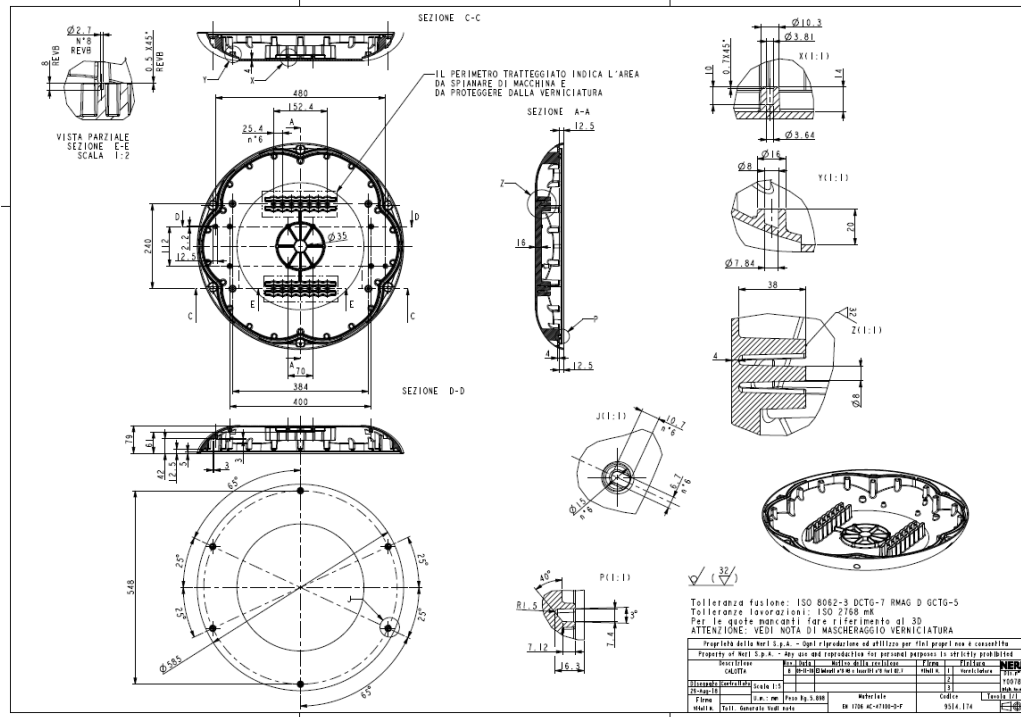
Photo 8

Lower  
part  
(internal  
view)  
with  
Plastic  
Reflector  
s

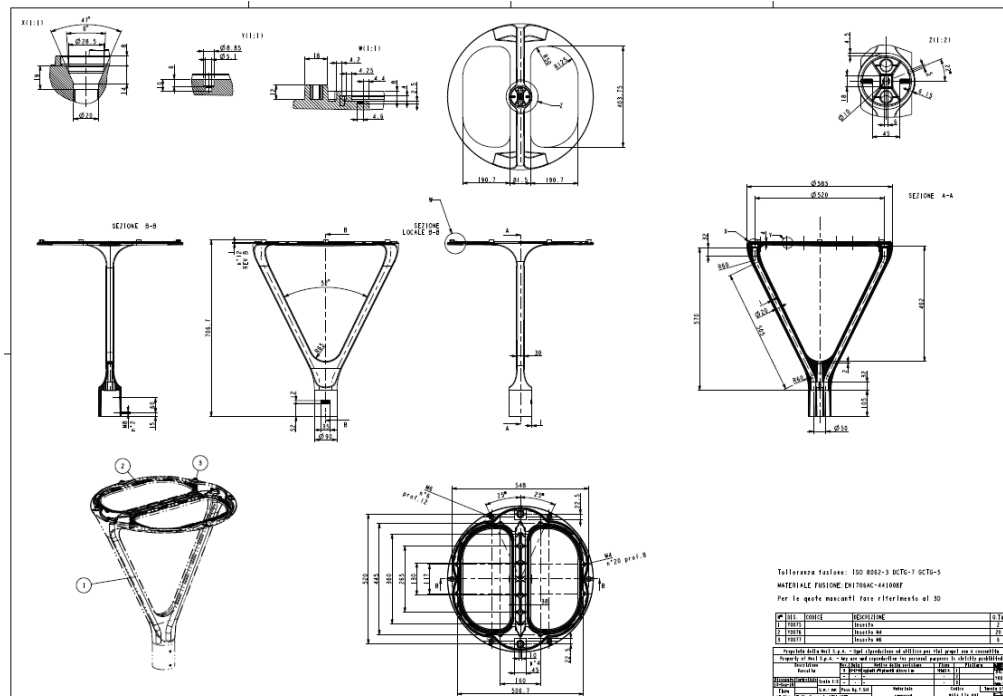


## Illustrations

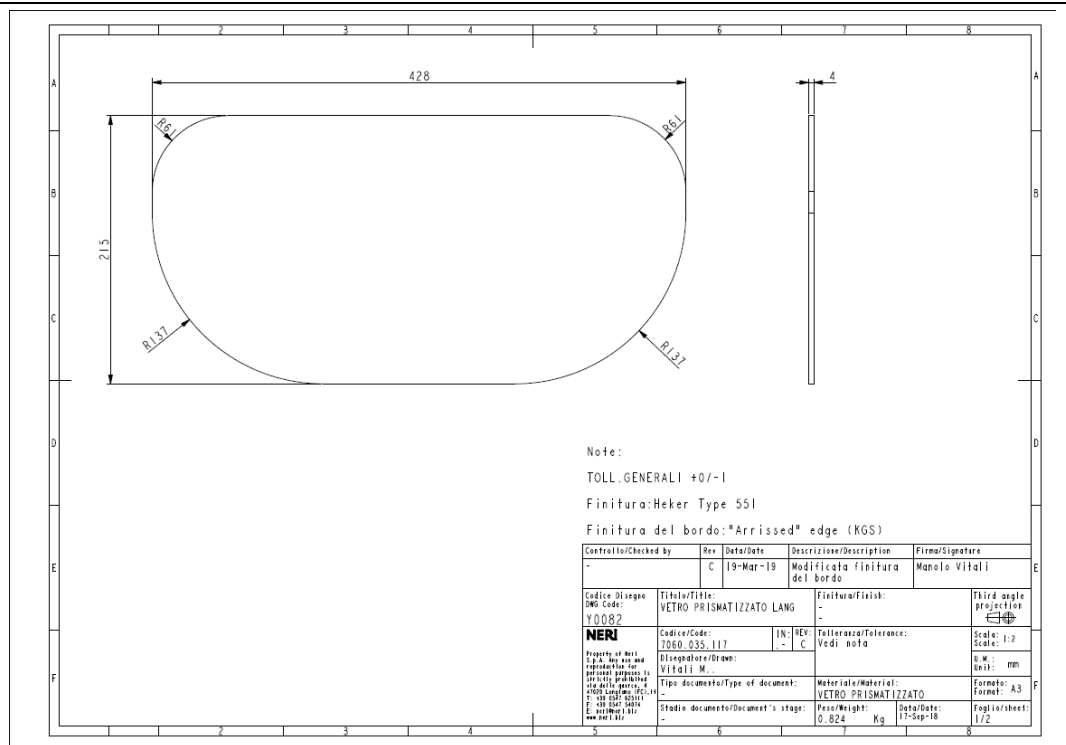
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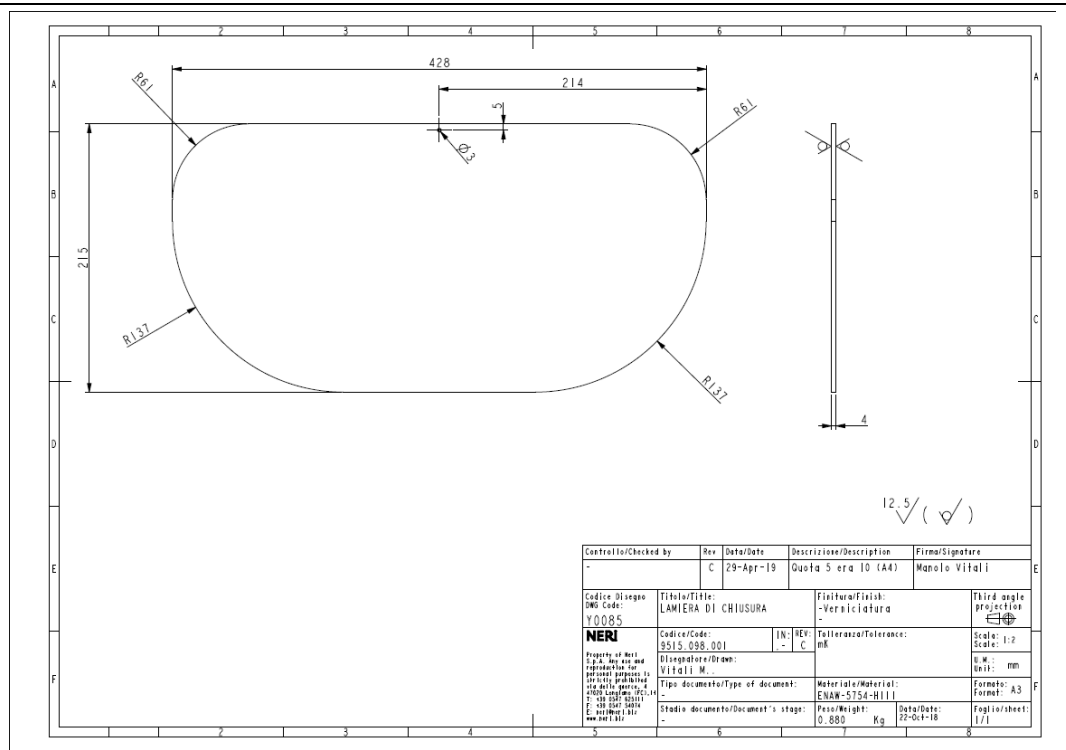
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111.2

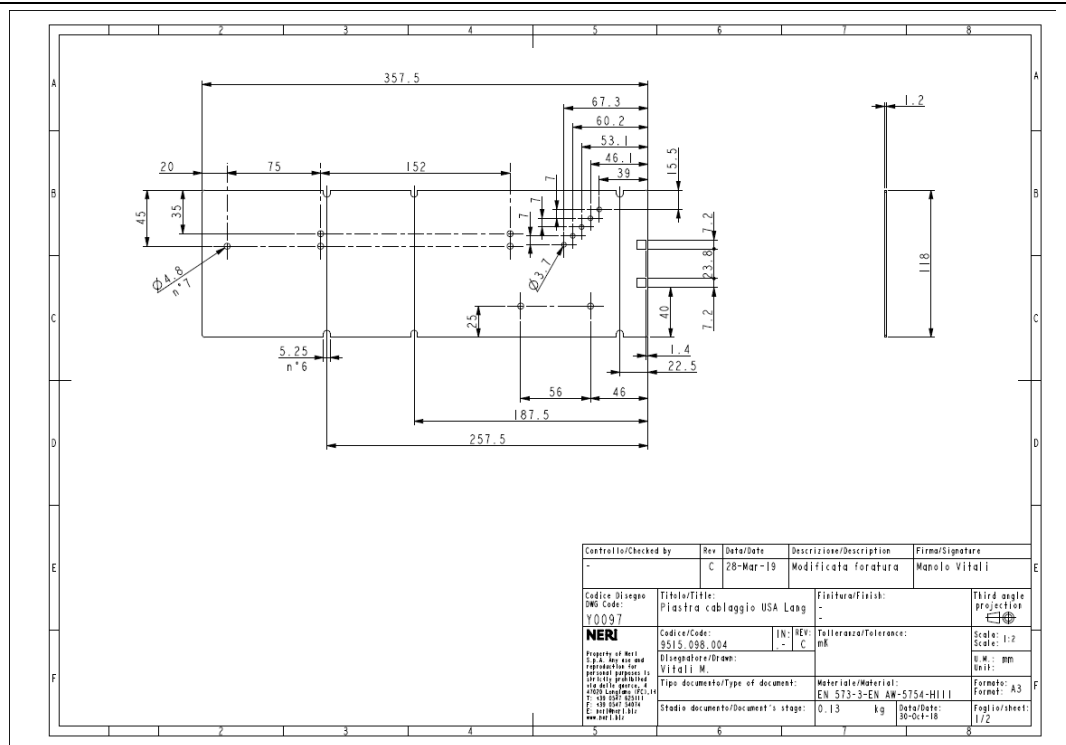
I11.3



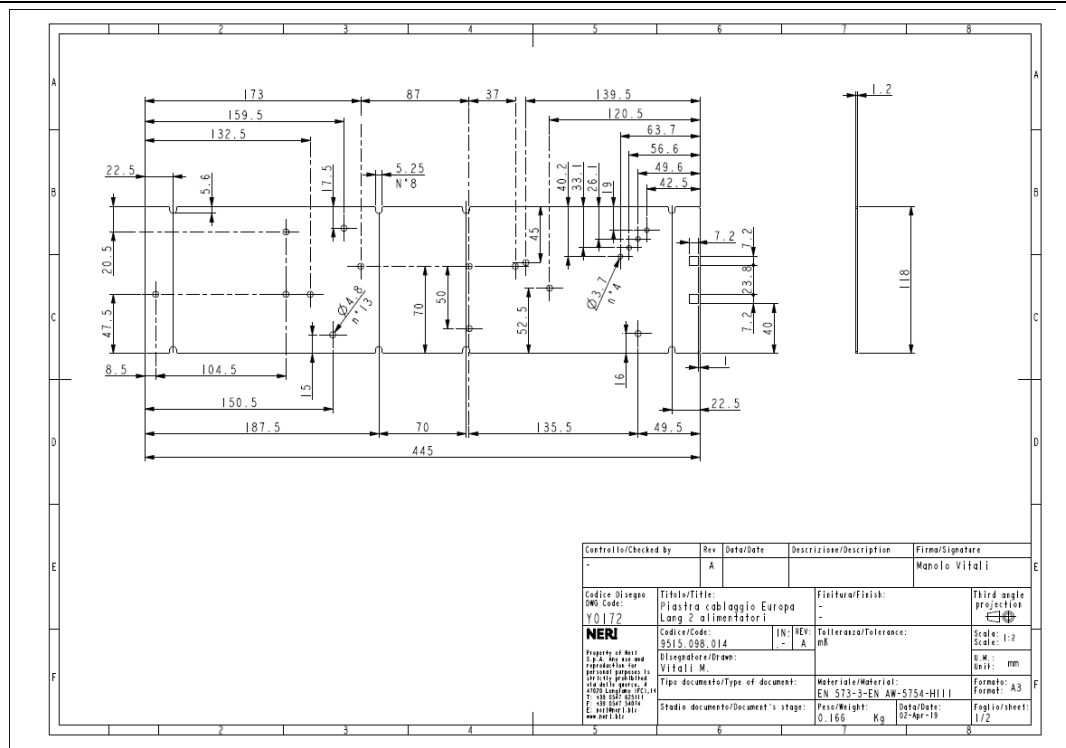
I11.4



I11.5

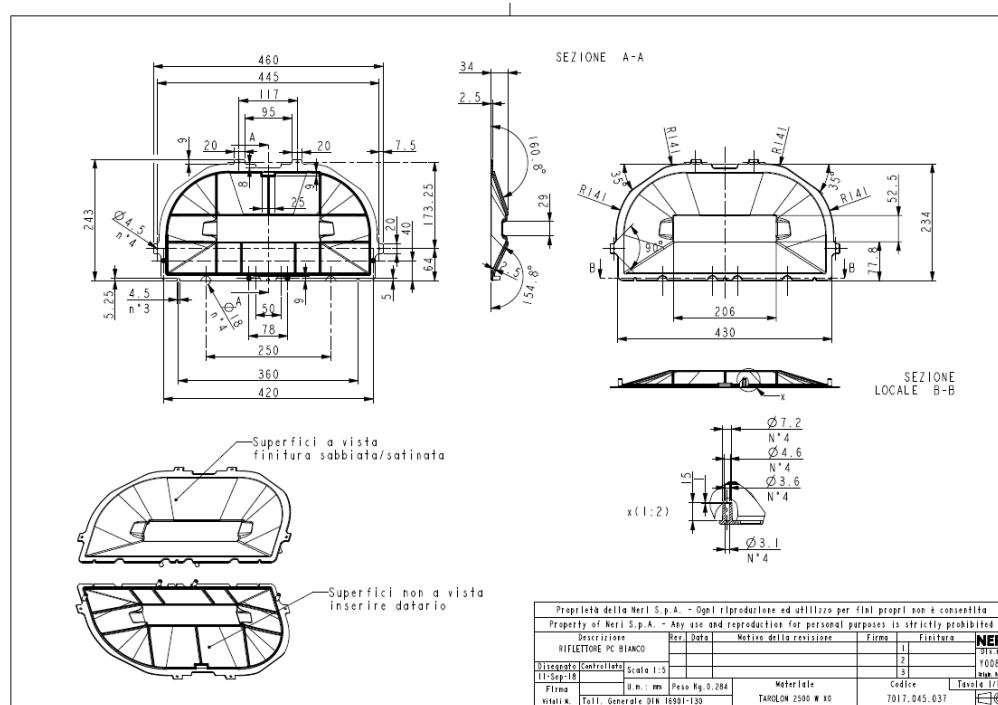


I11.6

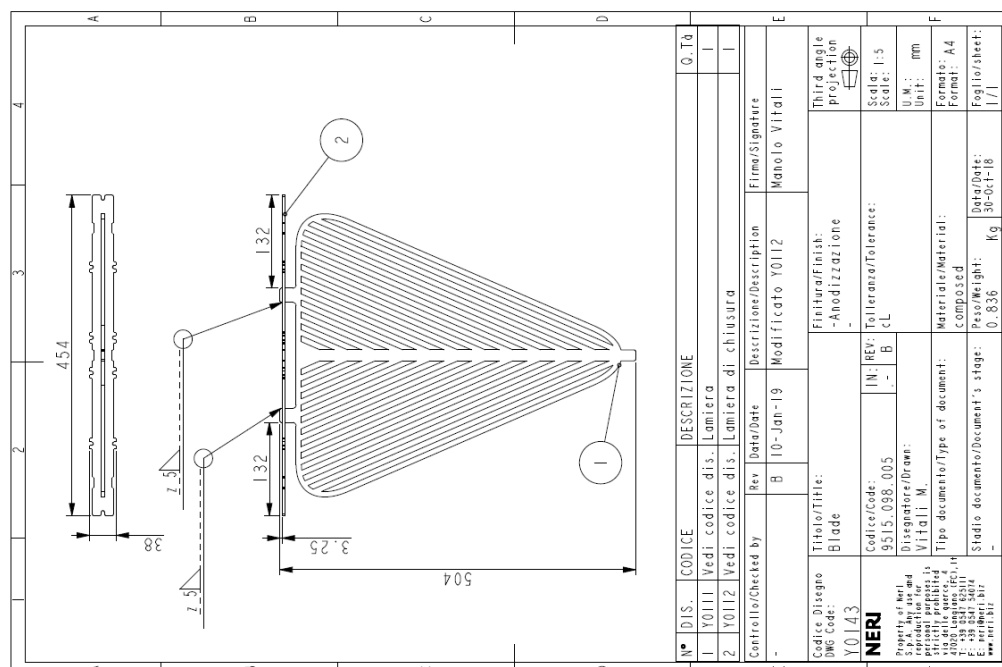




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111.7

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111.8

TEST RECORD NO. 1

## SAMPLES:

Samples of the LED luminaires series "Light Lang" as indicated below and constructed as described herein, were submitted by the manufacturer for examination and test.

Model	Ratings	LED Module type
Lang 32+32	165 W, 120-277 Vac, 50/60Hz	2 x LA32
Lang 32	85 W, 120-277 Vac, 50/60Hz	1 x LA32
Lang 32+16	105 W, 120-277 Vac, 50/60Hz	1 x LA32 + 1 x LA16
Lang 16+16	85 W, 120-277 Vac, 50/60Hz	2 x LA16
Lang 16	43 W, 120-277 Vac, 50/60Hz	1 x LA16

[X]The following tests were conducted:			
TEST	STANDARD	CODE (See Below)	CLAUSE
Dielectric Voltage- Withstand	UL 1598	OS	18.1
Bonding Circuit Impedance	UL 1598	OS	18.2
Led Normal Temperature, Surface, General	UL 1598	OS	15, 19
Input Test	UL 8750 CSA 250.13, 9.2	OS	8.2 9.2
Rain Test	UL 1598	OS	17.5.2
S = Same test. C = Combined test (identified by the test names of two or more similar tests in multiple standards) to represent the worst-case parameters of the similar tests. OS = Testing requirements come from one standard only. MS = One of the two or more standards identified is more severe and the more severe one is indicated by underlining.			
Test results relate only to the items tested.			

Rain Test was performed on model Lang 32+32 and considered representative for entire series.  
All the models were examined and tested.

## Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standard(s) noted below and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition or Publication Date	Revision Date
CSA C22.2 NO 250.0	Luminaires	Fourth	August 28, 2018
UL 1598	Luminaires	Fourth	August 28, 2018
UL 8750	Light Emitting Diode (LED) Equipment for Use in Lighting Products	Second	August 22, 2018
CSA C22.2 No. 250.13	LED Equipment for Lighting Applications	Third	October 1, 2017

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

## CONCLUSION

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the samples investigated by UL and does not signify UL certification or that the products described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Certification Mark of UL on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Certification Mark of UL on the product, or the UL symbol on the product and the Certification Mark of UL on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

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