

Accreditation for compliance with ISO/IEC 17025

Technical Competence - Testing



Test Report No.: Prüfbericht-Nr.:	AU21VRXC 001	<b>Order N</b> Auftrags	252	103517	<b>Page 1 of 11</b> Seite 1 von 11
Client Reference No.: Kunden-Referenz-Nr.:	2071295	<b>Order d</b> a Auftrags	1/-	Jun-2021	
<b>Client:</b> Auftraggeber:	Advanced Lighting Te 110 Lewis Road, Wanti			a	
<b>Test item:</b> Prüfgegenstand:	Lunio Series LED Lig	ht			
Identification / Type No.: Bezeichnung / Typ-Nr.:	Refer to page 2				
Order content.: Auftrags-Inhalt:	Lamp Circuit Power (I	LCP) Measurem	ent		
Test specification: Prüfgrundlage:	Refer to page 3				
Date of sample receipt: Wareneingangsdatum:	17-Jun-2021			d'	
<b>Test sample No.:</b> Prüfmuster-Nr.:	A003074049-001 to A003074049-010				
<b>Testing period:</b> Prüfzeitraum:	17-Jun-2021 to 29-Jun-2021				
Place of testing: Ort der Prüfung:	TUV Rheinland Austra Pty Ltd	alia	REA .		
<b>Testing laboratory:</b> Prüflaboratorium:	TUV Rheinland Austra Pty Ltd				
<b>Test result*:</b> Prüfergebnis*:	Samples were submit for measurement only compliance limits				
reviewed by / überprüft vo	n:	authorized b	<b>y I</b> genehmig	gt von:	
Sathvik Varm 29-Jun-2021 Test Enginee		29-Jun-2021	Daniel Ngo Reviewer	/	
Date Name / Position	- J	Date Datum	Name / Posi Name / Stellu		Signature Unterschrift
<b>Other /</b> <i>Sonstiges</i> : - Power consumption meas condition (Ambient (20±5)%	surement at rated voltage	for AEMO (Aust			
<b>Condition of the test item</b> Zustand des Prüfgegenstar	ndes bei Anlieferung:	New sample	s, no damag	e	
Legend: $P(ass) = passed a.m. tes$		a.m. test specification(s		ot applicable	N/T = not tested
	to the a. m. test sample	t does not entitle ster und darf ohne (	ssion of the t to carry any to Genehmigung of	<b>est mark.</b> der Prüfstelle	nicht auszugsweise
		reconnent piccht zur M	ממם המתוחמ בוחו	LS Pri 1720/000	US



### Test Report

General	remarks:	
1.This re	port shall not l	n

- 1. This report shall not be reproduced, except in full.
- 2.Details in test data / test plan no. 252103517.
- 3.Reporting of results herein is in accordance with NATA recommendations taking into account U of M. (a)For minimum limits Where measurement is on the limit or above the limit it is deemed to comply.
  - Where measurement is below the limit it is deemed not to comply.
  - (b)For maximum limits Where measurement is on the limit or below the limit it is deemed to comply. Where measurement is above the limit it is deemed not to comply.
- 4. For reporting of results the estimated uncertainty for measurement taken into account at 95% confidence level.
- 5. This test report is based on assessment and tests applied to the specific test item(s) as submitted by the client.
- 6. TÜV Rheinland Australia disclaims any and all responsibility or obligation for any other item.

7. LCP test was conducted on 10 fittings as per requested schemes.

8. Tests were conducted on submitted sample model AL735230R-C12-DALIAO as representative for model series fitted with PE cell and model AL735230-C12-DALIAO as representative for model series without PE cell.

#### Description of the test item:

Tradename: Advance Lighting Technologies Australia / Manufacturer: ARCLUCE. Model / type number: AL\*35\*\*\*\*\*\*; Rating: 220-240V, 50/60Hz, 35W, IP66; Class II. The urban lighting with stylish touchLUNIO7 is the post-top luminaire comprises of double insulated construction, LED modules, PE cell fitted to NEMA base and a LED programmable driver (brand: MILANOin; Model: 40W/200-1050 4PN; Input: 220-240Vac, 50/60Hz; Output: 15-56Vdc 200-1050mA, 40W; ^≥0.95, ta= -40°C to 60°C; tc=80°C).

Model **AL\*35**\*\*\*\*\*\* is represented as below:

The first star \* represents the style of luminaire. It may up to 1 character as below:

S – Lunio street

**7** – Lunio 7

The second star \* represents the LED optic type. It may be up to 2 characters as below: 2, 3, 4 or 5S

The third star \* represents the colour temperature of LEDs. It may be up to 3 characters as below: **30K** – LEDs with CCT 3000K **40K** – LEDs with CCT 4000K

The forth star \* represents as below:

R – Light fitted with PE cell

"Blank" – Light without PE cell

The fifth star \* represents the quality of paints as below:

-C - Light have coastal paint

-. - Light does not have coast paint

The sixth star \* represents the colour of the light housing. It may be up to 2 characters as below:

12 - Black

16 – Grey

**21** – Aluminium

The seventh star \* represents the dimming function as below:

-DALI – dimmable

-CEI - non-dimmable

The eighth star \* represents as below: **AO** – Light is listed for AEMO NEM load table



### **Options/accessories/ancillary equipment:**

The equipment was tested without any optional accessory installed. Hence, this report does not cover parameters that are influenced by the installation of optional accessory that might affect safety in the meaning of this standard.

### Uncertainty of equipment used:

Equipment	Equipment No.	Range used	Uncertainty	Calibration Due Date
Digital Power		Voltage: 200V - 300V	±0.2V	
Meter	MEL-1464	Current: 75mA – 100mA	±0.1mA	10 4 0000
Model:		Power: 115mW – 4.6kW	±2.5%	12-Apr-2022
WT310		Power Factor: 1	±0.001pf	

#### Test procedure:

The submitted test samples (consisted of the supplied lamp and control gear combination, if applicable) for the lamp circuit power consumption measurement were placed in a draught free room and at the laboratory condition (Ambient (20±5)°C, Relative Humidity (45–75)%) for 24 hours before and during the measurement. The test samples were connected to the power source and supplied with voltage and frequency as listed in "TABLE: Power Measurement". The test samples were operated until the conditions of overall temperature equilibrium were established or at least 4 hours in stabilized operation with the supplied sources. Then the total power consumption measurements have been taken by power meter.



	TABLE: Power Measurement					
	Test Item	Supplied Voltage (V)	Frequency (Hz)	Measured Input Power (W)	Measured Input Current (mA)	Power Factor
1	AL735230R-C12-DALIAO	250.08	50	36.160	147.98	0.9771
2	AL735230R-C12-DALIAO	250.24	50	36.246	148.10	0.9780
3	AL735230R-C12-DALIAO	250.14	50	36.393	148.50	0.9798
4	AL735230R-C12-DALIAO	250.25	50	36.147	147.38	0.9801
5	AL735230R-C12-DALIAO	250.11	50	36.145	147.65	0.9788
6	AL735230R-C12-DALIAO	250.02	50	36.067	147.17	0.9802
7	AL735230R-C12-DALIAO	250.00	50	36.494	148.91	0.9803
8	AL735230R-C12-DALIAO	250.01	50	36.206	148.08	0.9780
9	AL735230R-C12-DALIAO	250.11	50	36.071	147.61	0.9771
10	AL735230R-C12-DALIAO	250.02	50	36.237	147.87	0.9802
	Average 250.098 50 36.217 147.925 0.9790					

	TABLE: Power Measurement					
	Test Item	Supplied Voltage (V)	Frequency (Hz)	Measured Input Power (W)	Measured Input Current (mA)	Power Factor
1	AL735230-C12-DALIAO	250.17	50	35.878	147.01	0.9755
2	AL735230-C12-DALIAO	250.00	50	36.045	147.48	0.9776
3	AL735230-C12-DALIAO	250.00	50	36.117	147.62	0.9787
4	AL735230-C12-DALIAO	250.15	50	35.934	146.79	0.9786
5	AL735230-C12-DALIAO	250.20	50	35.905	146.70	0.9782
6	AL735230-C12-DALIAO	250.27	50	35.803	146.11	0.9791
7	AL735230-C12-DALIAO	250.12	50	36.268	148.06	0.9793
8	AL735230-C12-DALIAO	250.02	50	35.915	146.99	0.9773
9	AL735230-C12-DALIAO	250.00	50	35.766	146.46	0.9768
10	AL735230-C12-DALIAO	250.25	50	35.948	146.60	0.9799
	Average 250.118 50 35.958 146.982 0.9781					

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# <u>Markings</u>



# Prod.: AL735230R-C12-DALIAO

Made in ITALY

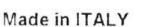
WORK ORDER 43491 DATE 17/06/2021



Rating label for street light model fitted with PE cell



# Prod.: AL735230-C12-DALIAO



WORK ORDER 43491 DATE 17/06/2021



Rating label for street light model without PE cell

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**General rating label** 

	LED+] & MILANO in LED-] & MILANO in 40W/200-1050 4PN LTZ/ Jog 70 Programmable Constant Current LED Power Supply NTC Jack Programmable Constant Current LED Power Supply
	$ \begin{array}{c} \hline LT2/ \\ NTC \\ \hline DA \\ \hline DA \\ \hline \\ $
	SELV Suitable for class I/II luminaires
J	COD. 145011 Made in Europe professional led applications

LED programmable driver marking

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# Photos



Product overview – bottom



Product overview - top

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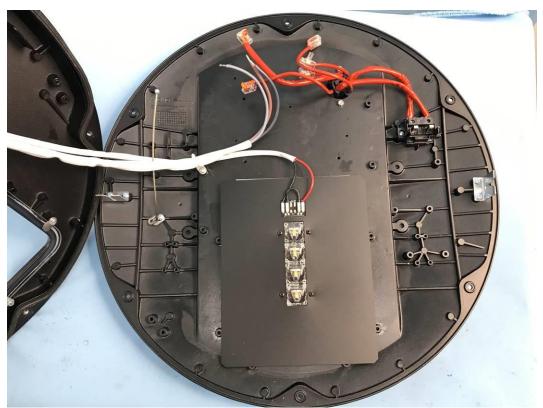




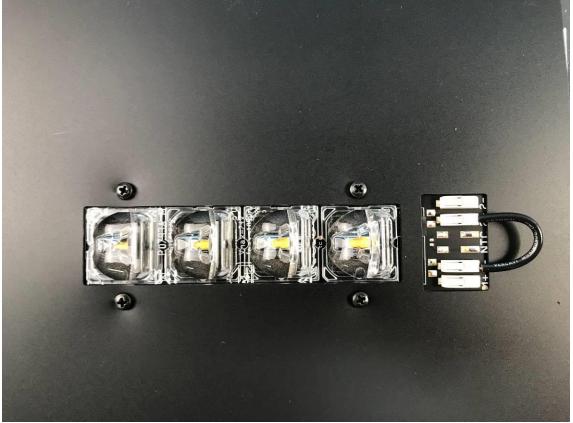
Mains Electrical Connection Compartment

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# **TÜV**Rheinland<sup>®</sup>



LEDs Connection Compartment



LED modules overview

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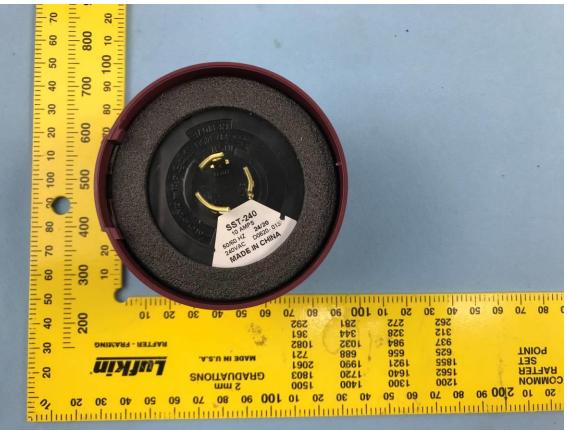




**PE cell overview** 

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**PE cell overview** 

End of the Test Report