



# REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G102738199

Date: September 27, 2016

REPORT NO. 102738199LAX-001

TEST OF ONE LED UV BAR

MODEL NO. ECO UV BAR PLUS IR  
LED MODEL NO. PROLIGHT OPTO PM2L1LL

RENDERED TO

ADJ PRODUCTS  
6122 S. EASTERN AVE.  
COMMERCE, CA 90040 USA

TEST: Electrical and Photometric tests as required to the IESNA test standard.

STATEMENT OF LIMITATION: This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the federal government.

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-00648726-1.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

DESCRIPTION OF SAMPLE: The client submitted one production sample of model number ECO UV BAR PLUS IR. The sample was received by Intertek on September 14, 2016, in undamaged condition and one sample was tested as received. The sample designation was LAN1609141019-002.

DATES OF TESTS: September 22, 2016

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SUMMARY

Model No.:	ECO UV BAR PLUS IR
Description:	LED UV Bar

Criteria	Result
Total Lumen Output (Lumens)	25.80
Total Power (W)	50.04
Luminaire Efficacy (LPW)	0.52
Power Factor	0.984

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
LSI High Speed Mirror Goniometer	6440T	000943	09/12/16	10/12/16	09/22/16
Elgar Power Supply	CW1251	000944	VBU	VBU	09/22/16
Yokogawa Power Analyzer	WT210	000945	12/04/15	12/04/16	09/22/16
Temp. & RH Meter	971	001380	12/17/15	12/17/16	09/22/16
Extech Instruments Stop Watch	365510	001379	11/19/15	11/19/16	09/22/16
Tape Measure	C1-25	000915	12/04/15	12/04/16	09/22/16
Protractor	939840	000087	12/22/15	12/22/16	09/22/16



## TEST METHODS

### Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IESNA LM-79.

### Photometric and Electrical Measurements – Distribution Method

A LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

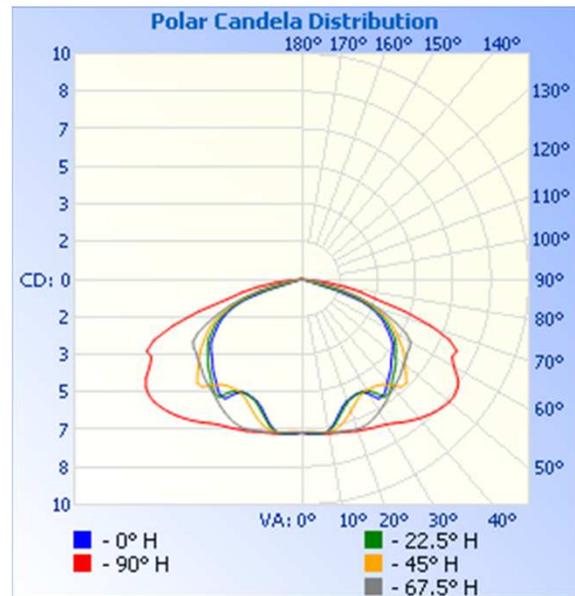
**RESULTS OF TEST**

**Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method**

Intertek Sample No.	Base Orientation	Input Voltage {Vac}	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (Lumens Per Watt)
LAN1609141019-002	UP	119.9	423.5	50.04	0.984	25.80	0.52

**Intensity (Candlepower) Summary at 25°C - Candelas**

Angle	0	22.5	45	67.5	90
0	7	7	7	7	7
5	7	7	7	7	7
10	7	7	7	7	7
15	6	6	7	7	7
20	6	6	6	7	7
25	6	6	6	7	7
30	6	6	6	7	7
35	6	6	6	7	8
40	6	6	6	6	8
45	6	6	7	6	8
50	5	5	6	6	8
55	5	5	5	6	8
60	4	5	5	6	8
65	4	4	4	5	8
70	3	3	3	3	6
75	0	1	2	2	3
80	0	0	0	1	2
85	0	0	0	0	0
90	0	0	0	0	0

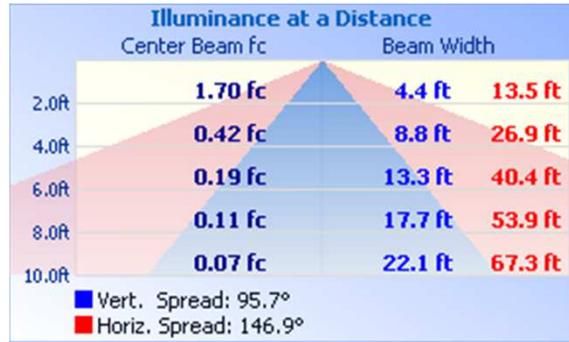




RESULTS OF TEST

Illumination Plots

Mounting Height: 10 ft.  
Illuminance - Cone of Light



Zonal Lumen Summary and Percentages at 25°C

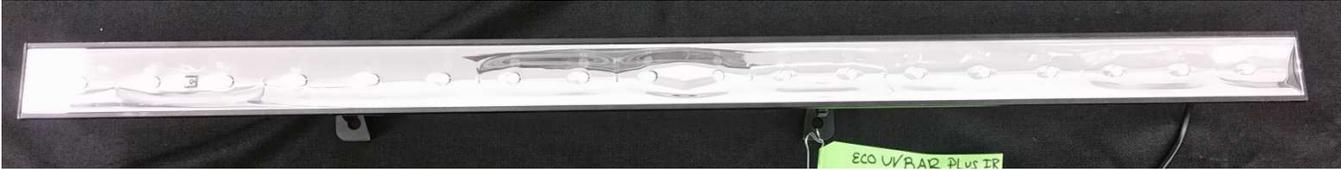
Zone	Lumens	% Luminaire
0-30	5.4	21.1
0-40	9.4	36.6
0-60	19.4	75.1
60-90	6.4	24.9
0-90	25.8	100.0
90-180	0.0	0.0
0-180	25.8	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	0.7	2.5
10-20	1.9	7.3
20-30	2.9	11.2
30-40	4.0	15.5
40-50	4.9	18.8
50-60	5.1	19.7
60-70	4.4	17.2
70-80	1.8	7.1
80-90	0.2	0.6



PICTURE (not to scale)



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

Report Reviewed By:

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Lighting Division

Melanie Brittain  
Associate Engineer  
Lighting Division

Attachment: None