

REPORT

25800 COMMERCENTRE DRIVE, LAKE FOREST, CA 92630

Project No. G102328456

Date: April 2, 2016

REPORT NO. 102328456LAX-051

TEST OF ONE CYCLORAMA WALL WASH LUMINAIRE

MODEL NO. TVL CYC RGBW

RENDERED TO

ACCLAIM LIGHTING
6122 S. EASTERN AVE
COMMERCE CA 90040

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.

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 prototype sample of model number TVL CYC RGBW. The sample was received by Intertek on February 3, 2016, in undamaged condition and one sample was tested as received. The sample designation was LAN1603210811-003.

DATES OF TESTS: March 31, 2016



SUMMARY

Model No.: TVL CYC RGBW
Description: Cyclorama Wall Wash Luminaire

Criteria	Result
Total Lumen Output (Lumens)	3953
Total Power (W)	159.2
Luminaire Efficacy (LPW)	24.83

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date
LSI High Speed Mirror Goniometer	6440T	000943	03/08/16	04/08/16
Elgar Power Supply	CW1251	000944	VBU	VBU
Yokogawa Power Analyzer	WT210	000945	12/04/15	12/04/16
Temp. & RH Meter	971	001380	12/17/15	12/17/16
Extech Instruments Stop Watch	9/23/2900	001379	11/19/15	11/19/16
Tape Measure	C1-25	000915	12/04/15	12/04/16

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 (cont'd)

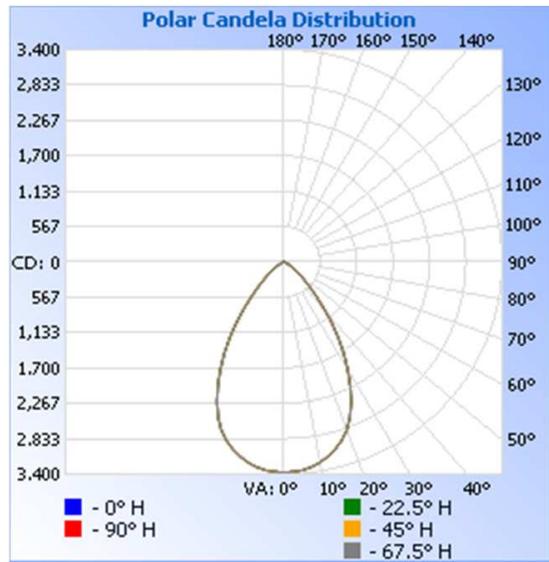
Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

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)
LAN1603210811-003	UP	120.0	1344	159.2	0.982	3953	24.83

Intensity (Candlepower) Summary at 25°C - Candelas

Maximum Candela Value: 3,370.0

Angle	0	22.5	45	67.5	90
0	3370	3370	3370	3370	3370
5	3346	3346	3346	3346	3346
10	3257	3257	3257	3257	3257
15	3097	3097	3097	3097	3097
20	2860	2860	2860	2860	2860
25	2472	2472	2472	2472	2472
30	1982	1982	1982	1982	1982
35	1469	1469	1469	1469	1469
40	967	967	967	967	967
45	585	585	585	585	585
50	351	351	351	351	351
55	207	207	207	207	207
60	114	114	114	114	114
65	56	56	56	56	56
70	26	26	26	26	26
75	13	13	13	13	13
80	5	5	5	5	5
85	2	2	2	2	2
90	0	0	0	0	0

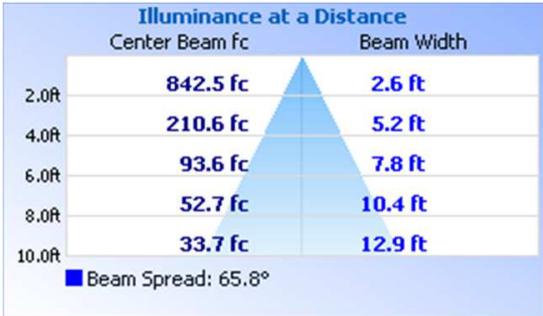


RESULTS OF TEST (cont'd)

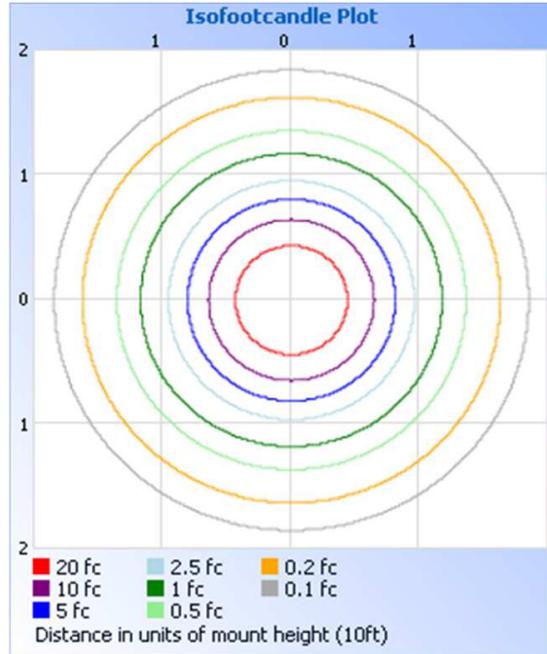
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	2306	58.3
0-40	3216	81.4
0-60	3876	98.1
60-90	77.0	1.9
0-90	3953	100.0
90-180	0.0	0.0
0-180	3953	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	316.4	8.0
10-20	867.8	22.0
20-30	1122	28.4
30-40	910.2	23.0
40-50	467.7	11.8
50-60	191.7	4.9
60-70	60.5	1.5
70-80	14.2	0.4
80-90	2.2	0.1

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:



Ameet Alawi
Technician
Lighting Division

Attachment: None

Report Reviewed By:



Kenda Branch
Lighting Performance Team Lead
Lighting Division