



Report No: L051704301 Issue Date: 5/23/2017

Report Prepared For: Aubrey Industries Clarte Lighting

975 N Todd Ave, Azusa, CA 91702

Model Number: PAR8 FLOOD

Test: Electrical and Photometric tests

Standards Used: Appropriate part or all test guidelines were used for test performed: *IESNA LM79: 2008* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products *ANSI NEMA ANSLG C78.377: 2008* Specification of the Chromaticity of Solid State Lighting Products *ANSI C82.77:2002:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No

modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 5/12/17

Date of Tests: 5/16/17 - 5/23/17

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	
Yokogawa Digital Power Meter	WT210	MT-EL06-S1	11/28/17
ITECH	IT6122	PS-DC03-S1	11/28/17
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/28/17
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	
LLI 2M Sphere	2MR97	CD-SN03-S2	
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

^{*}All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



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TESTING

NVLAP LAB CODE 200927-0

Test Summary	
Manufacturer:	Aubrey Industries Clarte Lighting
Model Number:	PAR8 FLOOD
Driver Model Number:	ERP ESS010W-0750-12
Total Lumens:	907.12
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.088
Input Power (W):	10.43
Input Power Factor:	0.98
Current ATHD @ 120V(%):	9%
Current ATHD @ 277V(%):	N/A
Efficacy:	87
Color Rendering Index (CRI):	82
Correlated Color Temperature (K):	2991
Chromaticity Coordinate x:	0.4390
Chromaticity Coordinate y:	0.4072
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:45
Total Operating Time (Hours):	1:45

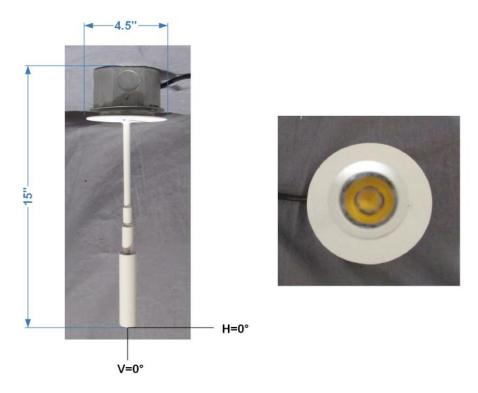
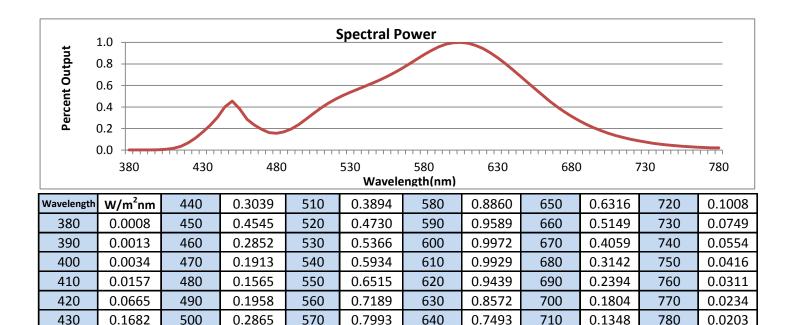


FIG. 1 LUMINAIRE

^{*}All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

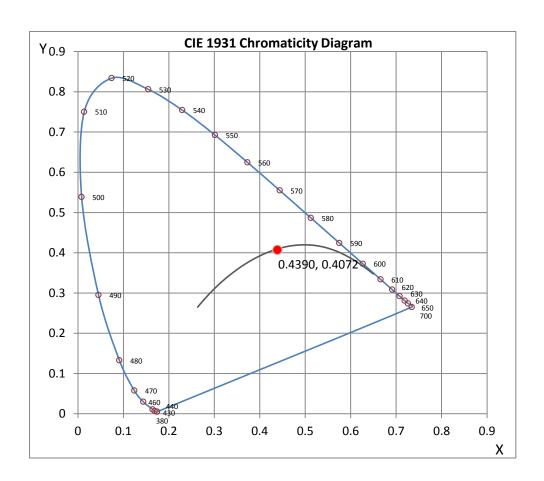




CDI	0.	\boldsymbol{c}	г
CRI	α	CC	ı

CRI & CCT		
х	0.4390	
у	0.4072	
u'	0.2506	
v'	0.5229	
CRI	81.70	
ССТ	2991	
Duv	0.00096	
R Values		
R1	79.83	
D2	00 12	

R1	79.83
R2	88.12
R3	95.36
R4	80.63
R5	79.14
R6	84.39
R7	84.74
R8	61.23
R9	9.63
R10	72.25
R11	78.96
R12	67.09
R13	81.38
R14	97.00



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Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Keyur Patel

Test Report Released by:

Test Report Reviewed by:

Jeff Ahn Engineering Manager

UM

Steve Kang Quality Assurance

*Attached are photometric data reports. Total number of pages: 9



Photometric Test Report

IES FLOOD REPORT

PHOTOMETRIC FILENAME: L051704301.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L051704301

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUEDATE] 5/23/2017

[MANUFAC] Aubrey Industries Clarte Lighting

[LUMCAT] PAR8 FLOOD

[LUMINAIRE] Surface Round 1 light 4" Canopy Plate

[BALLASTCAT] ERP ESS010W-0750-12

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

[INPUT] 120VAC, 10.43W

[TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

5 H x 5 V
1615
-1H 0V
40.4
40.4
75.3
75.3

Lumens Per Lamp N.A. (absolute)
Total Lamp Lumens N.A. (absolute)

Beam Lumens 449 Beam Efficiency N.A. Field Lumens 807 Field Efficiency N.A. Spill Lumens 100 **Luminaire Lumens** 907 **Total Efficiency** N.A. **Total Luminaire Watts** 10.43 **Ballast Factor** 1.00

IES FLOOD REPORT

PHOTOMETRIC FILENAME: L051704301.IES

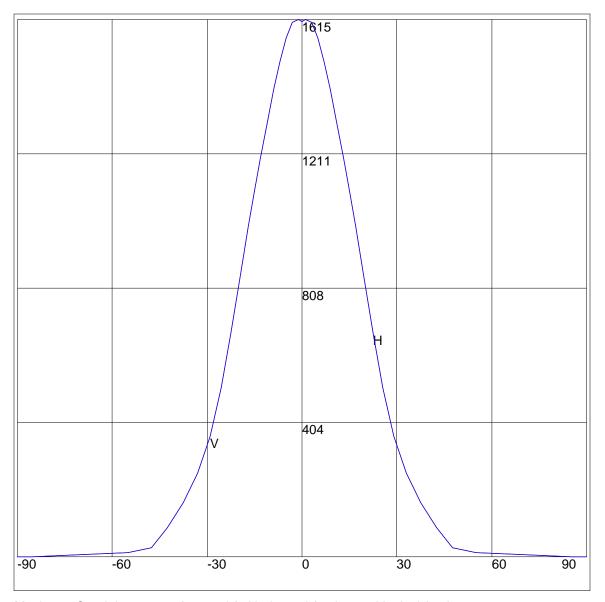
AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90 85 75 65 547.5 33 29 25.5 17 15 13 11 9 7 5 3 1 0 -1 -3 -5 -7 -9 -13 -15 -17 -22.5 -25 -37 -5 -7 -9 -7 -7 -9 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	0 2 6 9 13 29 89 164 253 363 508 672 849 991 1098 1202 1307 1405 1489 1558 1606 1615 1608 1615 1606 1558 1489 1405 1307 1202 1307 1202 1098 991 891 891 891 891 891 891 891 891 8	90 85 75 65 547.5 33 29 25.5 17 15 31 10 -1 -3 -5 -7 -9 -11 -15 -7 -9 -15 -7 -9 -15 -7 -9 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	0 2 6 9 13 29 89 164 253 363 508 672 849 991 1098 1202 1307 1405 1408 1615 1606 1558 1405 1405 1307 1202 1098 991 849 672 508 363 253 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 899 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 89 164 89 164 89 164 89 164 89 164 89 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 164 89 89 164 89 164 89 89 164 89 89 89 89 164 89 89 89 89 89 89 89 89 89 89 89 89 89

ZONAL LUMEN SUMMARY

Zone	%
0-20	47.3
0-30	74.3
0-40	88.5
0-60	97.5
0-80	99.5
0-90	100
10-90	87.1
20-40	41.2
20-50	48.7
40-70	10.1
60-80	2
70-80	0.9
80-90	0.5
90-110	0
90-120	0
90-130	0
90-150	0
90-180	0
110-180	0
0-180	100

AXIAL CANDELA DISPLAY



Maximum Candela = 1615 Located At Horizontal Angle =-1, Vertical Angle = 0

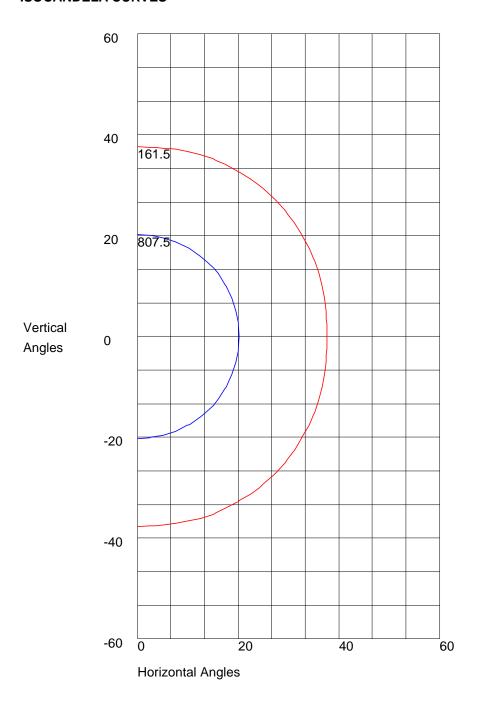
H - Horizontal Axial Candela

V - Vertical Axial Candela

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ISOCANDELA CURVES



Maximum Candela = 1615 Located At Horizontal Angle =-1, Vertical Angle = 0 50% Maximum Candela = 807.5 10% Maximum Candela = 161.5

Illuminance cone diagram

Mounting Height = 12 ft.

