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Report No: L061606304

Date: 8/1/2016



NVLAP LAB CODE 200927-0

**Report No:** L061606304  
**Prepared For:** Beachside Lighting  
 905 Kalaniana'ole Hwy # 29A Kailua, HI. 96734  
**Model Number:** E8-2W-A-FL  
**Test:** Photometric/Electrical Test

**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. Catalog number is E8-2W-A-FL . Received in working and undamaged condition. No modifications were necessary.

**Testing Condition:** Fixture is tested with no special conditions.

**Sample Arrival Date:** 7/25/16

**Date of Tests:** 7/26/16 - 8/1/16

**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	11/18/16
Xitron Power Analyzer	2503AH	MT-EL01	11/30/16
ITECH DC Power Supply	IT6122	PSDC-03-S1	11/17/16
Fluke Digital Thermometer	52k/J	MT-TP02-GC	11/24/16
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.

**Test Summary**

<b>Manufacturer:</b>	Beachside Lighting
<b>Model Number:</b>	E8-2W-A-FL
<b>Driver Model Number:</b>	N/A
<b>Total Lumens:</b>	53.54
<b>Input Voltage (VAC/60Hz):</b>	12.00
<b>Input Current (Amp):</b>	0.26
<b>Input Power (W):</b>	2.26
<b>Input Power Factor:</b>	0.73
<b>Current ATHD @ 12V(%):</b>	84%
<b>Current ATHD @ 277V(%):</b>	N/A
<b>Efficacy:</b>	24
<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	1:05
<b>Total Operating Time (Hours):</b>	1:50
<b>Off State Power(W):</b>	0.00



FIG.1 LUMINAIRE

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

## 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:



Jeff Ahn  
Engineering Manager

Test Report Reviewed by:



Steve Kang  
Quality Assurance

*\*Attached are photometric data reports. Total number of pages: 10*



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# Photometric Test Report

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L061606304.IES**

## DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L061606304  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 8/1/2016  
[MANUFAC] BEACHSIDE LIGHTING  
[LUMCAT] E8-2W-A-FL  
[LUMINAIRE] SMALL DIRECTIONAL ON KNUCKLE  
[BALLASTCAT] N/A  
[LAMPPOSITION] 0,0  
[LAMPCAT] N/A  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 12VAC, 2.26W  
[TEST PROCEDURE] IESNA:LM-79-08

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

## CHARACTERISTICS

NEMA Type	4 H x 4 V
Maximum Candela	140.11
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	29.2
Vertical Beam Angle (50%)	29.2
Horizontal Field Angle (10%)	61.0
Vertical Field Angle (10%)	61.0
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	21
Beam Efficiency	N.A.
Field Lumens	42
Field Efficiency	N.A.
Spill Lumens	12
Luminaire Lumens	54
Total Efficiency	N.A.
Total Luminaire Watts	2.26
Ballast Factor	1.00

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L061606304.IES**

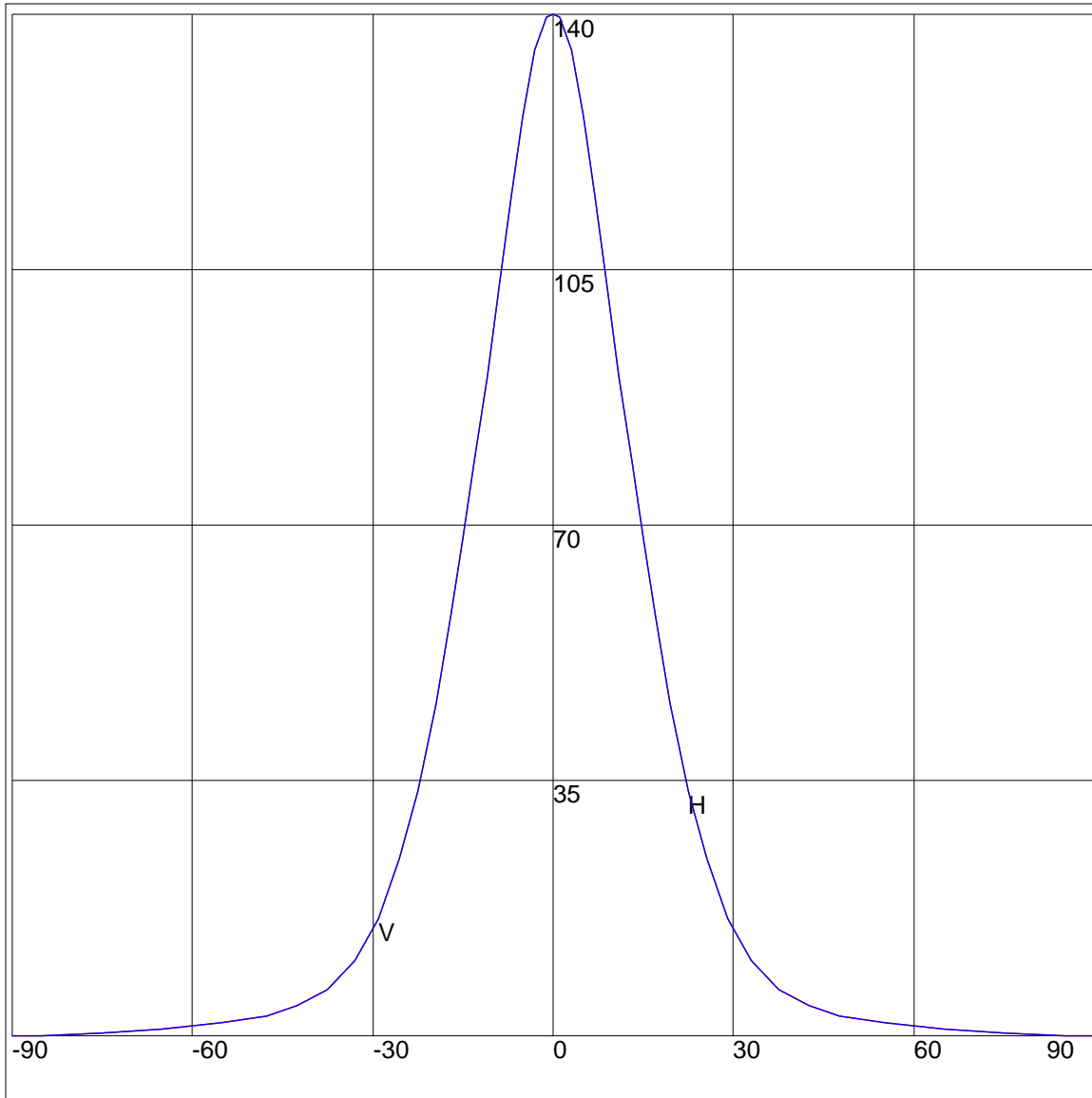
**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	.11	85	.11
75	.43	75	.43
65	.97	65	.97
55	1.81	55	1.81
47.5	2.88	47.5	2.88
42.5	4.17	42.5	4.17
37.5	6.47	37.5	6.47
33	10.29	33	10.29
29	16.2	29	16.2
25.5	24.44	25.5	24.44
22.5	33.6	22.5	33.6
19.5	45.81	19.5	45.81
17	57.7	17	57.7
15	67.93	15	67.93
13	78.91	13	78.91
11	90.54	11	90.54
9	102.85	9	102.85
7	115.08	7	115.08
5	126.2	5	126.2
3	135.15	3	135.15
1	139.8	1	139.8
0	140.11	0	140.11
-1	139.8	-1	139.8
-3	135.15	-3	135.15
-5	126.2	-5	126.2
-7	115.08	-7	115.08
-9	102.85	-9	102.85
-11	90.54	-11	90.54
-13	78.91	-13	78.91
-15	67.93	-15	67.93
-17	57.7	-17	57.7
-19.5	45.81	-19.5	45.81
-22.5	33.6	-22.5	33.6
-25.5	24.44	-25.5	24.44
-29	16.2	-29	16.2
-33	10.29	-33	10.29
-37.5	6.47	-37.5	6.47
-42.5	4.17	-42.5	4.17
-47.5	2.88	-47.5	2.88
-55	1.81	-55	1.81
-65	.97	-65	.97
-75	.43	-75	.43
-85	.11	-85	.11
-90	0	-90	0

**ZONAL LUMEN SUMMARY**

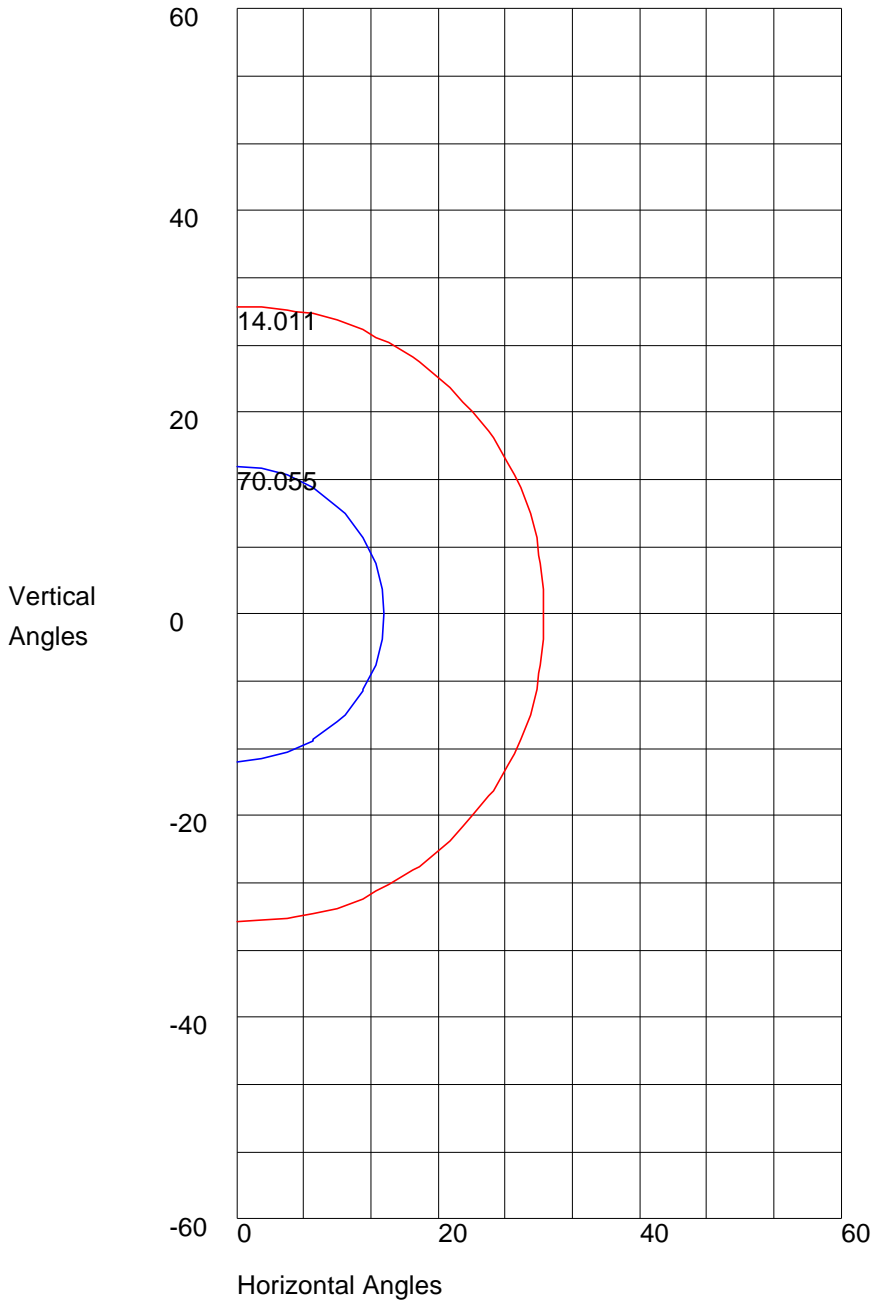
Zone	%
0-20	54.1
0-30	76.7
0-40	86.7
0-60	95.6
0-80	99.4
0-90	100
10-90	82.7
20-40	32.7
20-50	38.7
40-70	11.3
60-80	3.8
70-80	1.3
80-90	0.6
90-110	0
90-120	0
90-130	0
90-150	0
90-180	0
110-180	0
0-180	100

AXIAL CANDELA DISPLAY



Maximum Candela = 140.11 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 140.11 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 70.055  
10% Maximum Candela = 14.011

## SAMPLE Illuminance cone diagram

Mounting Height = 4ft

