

Report No: L061606102
Date: 7/19/2016

NVLAP LAB CODE 200927-0

Report No: L061606102

Report Prepared For: Beachside Lighting

905 Kalanianaole Hwy # 29A Kailua, Hl. 96734

Model Number: STL - A

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. Catalog number is STL - A. Received in working and

undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 6/25/16

Date of Tests: 7/12/16 - 7/13/16

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

Equipment List

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.



8165 E Kaiser Blvd. Anaheim, CA 92808

p. 714.282.2270 f. 714.676.5558 Date: 7/19/2016

Report No: L061606102

NVLAP LAB CODE 200927-0

Test Summary	
Manufacturer:	Beachside Lighting
Model Number:	STL - A
Driver Model Number:	N/A
Total Lumens:	0.40
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.022
Input Power (W):	1.03
Input Power Factor:	0.40
Current ATHD @ 120V(%):	223%
Current ATHD @ 277V(%):	N/A
Efficacy:	0.39
Color Rendering Index (CRI):	-24
Correlated Color Temperature (K):	1659
Chromaticity Coordinate x:	0.5769
Chromaticity Coordinate y:	0.4149
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:35
Total Operating Time (Hours):	1:25
Off State Power(W):	0.00

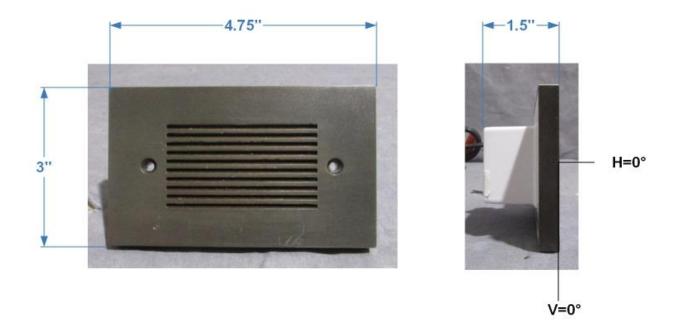


FIG. 1 LUMINAIRE

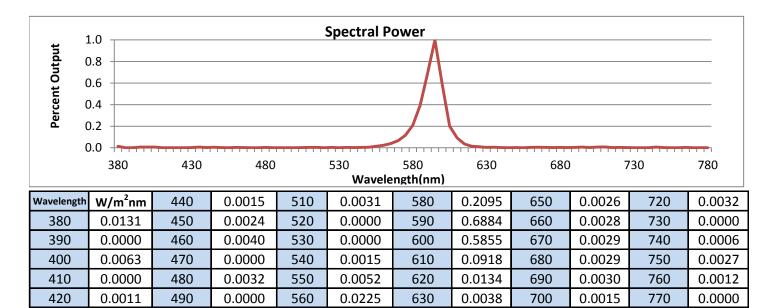
^{*}All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



8165 E Kaiser Blvd. Anaheim, CA 92808 p. 714.282.2270 f. 714.676.5558

Report No: L061606102 Date: 7/19/2016

NVLAP LAB CODE 200927-0



CRI & CCT

430

х	0.5769		
у	0.4149		
u'	0.3381		
v'	0.5471		
CRI	-24.40		
ССТ	1659		
Duv	0.00602		
R Values			
R1	-38.73		

0.0025

500

0.0000

570

0.0654

640

0.0019

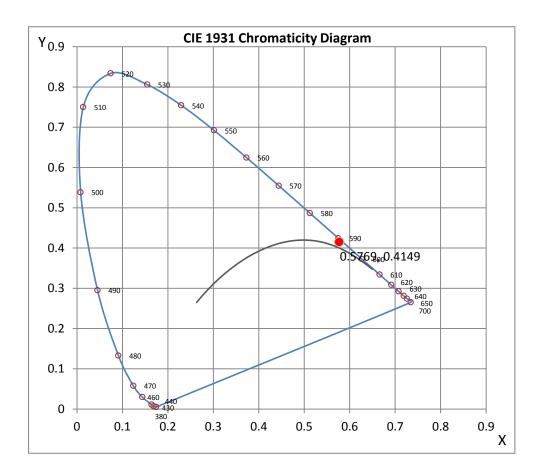
710

0.0075

780

0.0006

R Values	
R1	-38.73
R2	51.22
R3	16.83
R4	-71.42
R5	-43.57
R6	39.23
R7	-9.35
R8	-139.24
R9	-407.50
R10	28.02
R11	-98.97
R12	-9.05
R13	-18.71
R14	45.06



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



Report No: L061606102
Date: 7/19/2016

NVLAP LAB CODE 200927-0

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

Steve Kang

Quality Assurance

^{*}Attached are photometric data reports. Total number of pages: 6

Photometrics Pro

Luminaire Photometric Report

Filename: L061606102

Manufacturer: BEACHSIDE LIGHTING

Luminaire: STEP LIGHT Luminaire Cat: STL-A Lamp Cat: N/A Ballast Cat: N/A

Lamp Output: Total luminaire Lumens: 0.4

Max Candela: 0.4 at Horizontal: 0°, Vertical: 60°

Input Wattage: 1.03

Luminous Opening: (L: 0", W: 2.76", H: 1.56")

Test: L061606102

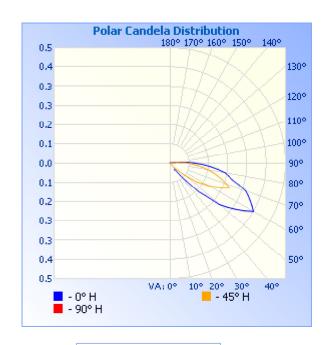
Test Lab: LIGHT LABORATORY, INC.

Photometry: Type C Nema Type: 7 X 4

Roadway Summary

Cutoff Classification: NONCUTOFF Distribution: TYPE IV, VERY SHORT Max Cd, 90 Deg Vert: Max Cd, 80 to <90 Deg: 0.2

Lumens % Lamp 97.4% Downward Street Side: 0.3 Downward House Side: 0 0% **Downward Total:** 0.3 97.4% **Upward Street Side:** 0.0 2.6% Upward House Side: 0 0% **Upward Total:** 0.0 2.6% Total Lumens: 0.4 100%

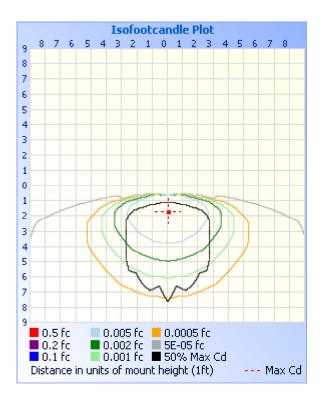


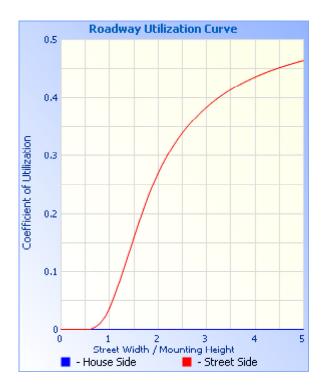
Zonal Lumen Summary

Zone	Lumens %	Luminaire
0-30	0	0%
0-40	0.0	0.8%
0-60	0.1	26.5%
60-90	0.3	70.9%
70-100	0.2	44.5%
90-120	0.0	2.6%
0-90	0.3	97.4%
90-180	0.0	2.6%
0-180	0.4	100%

Lumens	Per	Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0	0.0%	90-100	0.0	2.6%
10-20	0	0.0%	100-110	0	0%
20-30	0	0.0%	110-120	0	0%
30-40	0.0	0.8%	120-130	0	0%
40-50	0.0	6.6%	130-140	0	0%
50-60	0.1	19.1%	140-150	0	0%
60-70	0.1	29.0%	150-160	0	0%
70-80	0.1	26.4%	160-170	0	0%
80-90	0.1	15.5%	170-180	0	0%





Photometrics Pro 1.3.29 copyright 2003-2016 by jSolutions, Inc. Reported data calculated from manufacturer's data file, based on IES recommended methods.