

Report No:	L081912701R01	Issue Date: 5/27/2021
Report Prepared For:	Beachside Lighting 905 Kalanianaole Hwy., #2901, Kailua, HI 96734 USA	
Model Number:	L-016-F-11W-930-NFL	
Test:	Photometric/Colorimetric/Electrical Test	
Standards Used: Appropr IESNA LM79: 2008 Approved Mether ANSI NEMA ANSLG C78.377: 2008 ANSI C82.77:2002: Harmonic Emis	iate part or all test guidelines were used for test performed: ods for Electrical and Photometric Measurements of Solid-State Lighting Products 3 Specification of the Chromaticity of Solid State Lighting Products sion Limits-Related Quality Requirements for Lighting Equipment	
Description of Sample:	Client submitted the sample. Received in working and undamaged modifications were necessary.	condition. No
Special Test Condition:	Fixture is tested with no special conditions.	
Sample Arrival Date:	8/29/19	

 Date of Tests:
 8/29/19
 8/30/19

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-S4	1/9/21
BK PRECISION	1747	PS-DC04	1/10/21
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/21
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





General Information	
Manufacturer:	Beachside Lighting
Model Number:	L-016-F-11W-930-NFL
Driver Model Number:	CLASS H TRANSFORMER TJ-H-120-50-1
Test Summary	
Total Lumens:	678.36
Efficacy:	50.90
Color Redering Index:	91.9

Correlated Color Temperature:	3121
Input Voltage (VAC/60Hz):	120.01
Input Current (Amp):	0.1401
Input Power (W):	13.33
Input Power Factor:	0.7928
Current ATHD (%):	51.8%

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:00
Total Operating Time (Hours):	1:30



V=0°



FIG. 1 LUMINAIRE





Colorimetry Test Results



CRI & CCT

....

х	0.4285	
У	0.4009	
u'	0.2465	
v'	0.5189	
CRI	91.90	
ССТ	3121	
Duv	-0.00005	
R Values		
R1	92.48	
R2	97.97	
R3	96.96	
R4	91.09	
R5	92.77	
R6	96.97	
R7	89.17	
R8	78.03	
R9	52.89	
R10	94.64	
R11	92.33	
R12	82.73	
R13	94.24	
R14	99.15	
R15	87.46	







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 Reviewed by:

Stareforz

Steve Kang Quality Assurance

*Attached are photometric data reports. Total number of pages: 8



Photometric Test Report

IES FLOOD REPORT PHOTOMETRIC FILENAME : L081912701R01.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L081912701R01 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com) [ISSUEDATE] 5/27/21 [MANUFAC] Beachside Lighting [LUMCAT] L-016-F-11W-930-NFL [LUMINAIRE] L-016-F Fixture with Clear Borosilicate Lens, Narrow Flood Lamping [BALLASTCAT] CLASS H TRANSFORMER TJ-H-120-50-1 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS. [INPUT] 120.01VAC, 13.33W [TEST PROCEDURE] IESNA:LM-79-08

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

CHARACTERISTICS

NEMA Type Maximum Candela Maximum Candela Angle Horizontal Beam Angle (50%) Vertical Beam Angle (50%) Horizontal Field Angle (10%) Vertical Field Angle (10%) Lumens Per Lamp Total Lamp Lumens Beam Lumens Beam Efficiency Field Lumens Field Efficiency Spill Lumens Luminaire Lumens Total Efficiency Total Lefficiency Total Luminaire Watts	4 H x 4 V 2197 0H 0V 29.7 51.7 51.7 N.A. (absolute) N.A. (absolute) 346 N.A. 567 N.A. 111 678 N.A. 13.33
Total Luminaire Watts	13.33
Ballast Factor	1.00

IES FLOOD REPORT PHOTOMETRIC FILENAME : L081912701R01.IES

AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90 85 75 65 55 42.5 32 92 5.5 17 15 13 19 7 5 3 10 -1 3-5 -7 9 -11 3-15 -25.5 -29 -37.5 -25.5 -7 -9 -11 3-15 -25.5 -7 -9 -11 3-15 -25.5 -7 -9 -11 3-15 -25.5 -7 -9 -11 3-15 -25.5 -7 -9 -11 3-15 -7 -9 -11 -15 -25.5 -7 -9 -11 -15 -25.5 -7 -9 -11 -15 -25.5 -7 -9 -11 -15 -25.5 -7 -9 -11 -15 -25.5 -7 -9 -11 -15 -25.5 -7 -9 -11 -15 -25.5 -7 -9 -11 -15 -25.5 -7 -9 -11 -15 -7 -25.5 -7 -9 -11 -15 -7 -25.5 -7 -9 -11 -15 -7 -25.5 -7 -9 -11 -15 -7 -25.5 -7 -9 -11 -15 -7 -25.5 -7 -9 -11 -15 -7 -25.5 -7 -9 -11 -15 -7 -5 -7 -9 -11 -15 -7 -5 -7 -9 -11 -15 -7 -25.5 -7 -9 -11 -15 -7 -5 -7 -9 -11 -15 -7 -5 -7 -9 -11 -15 -7 -5 -7 -9 -11 -15 -7 -5 -7 -9 -11 -15 -7 -5 -7 -5 -7 -9 -11 -15 -7 -5 -7 -9 -11 -25.5 -5 -7 -7 -7 -5 -7 -7 -7 -25 -5 -7 -7 -7 -7 -7 -25 -5 -7 -7 -7 -7 -7 -7 -7 -5 -7 -7 -7 -7 -7 -5 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	$egin{array}{c} 0 \\ 2 \\ 2 \\ 5 \\ 11 \\ 19 \\ 27 \\ 42 \\ 73 \\ 131 \\ 229 \\ 365 \\ 588 \\ 841 \\ 1082 \\ 1314 \\ 1565 \\ 1782 \\ 1971 \\ 2082 \\ 2154 \\ 2191 \\ 2197 \\ 2191 \\ 2154 \\ 2082 \\ 1971 \\ 1782 \\ 1565 \\ 1314 \\ 1082 \\ 841 \\ 588 \\ 365 \\ 229 \\ 131 \\ 73 \\ 42 \\ 27 \\ 19 \\ 11 \\ 5 \\ 2 \\ 20 \\ 0 \end{array}$	$\begin{array}{c} 90\\ 85\\ 75\\ 65\\ 55\\ 42.5\\ 37.5\\ 32\\ 925.5\\ 17\\ 15\\ 13\\ 11\\ 9\\ 7\\ 5\\ 3\\ 1\\ 0\\ -1\\ -3\\ -5\\ -7\\ -9\\ -11\\ -13\\ -15\\ -25.5\\ -29\\ -33\\ -42.5\\ -55\\ -65\\ -75\\ -85\\ -90\\ \end{array}$	$\begin{array}{c} 0 \\ 2 \\ 2 \\ 5 \\ 11 \\ 19 \\ 27 \\ 42 \\ 73 \\ 131 \\ 229 \\ 365 \\ 841 \\ 1082 \\ 1314 \\ 1565 \\ 1782 \\ 1971 \\ 2154 \\ 2197 \\ 2191 \\ 2154 \\ 2082 \\ 1971 \\ 2154 \\ 2197 \\ 1565 \\ 1314 \\ 1082 \\ 841 \\ 588 \\ 365 \\ 229 \\ 131 \\ 73 \\ 42 \\ 719 \\ 11 \\ 52 \\ 20 \end{array}$

ZONAL LUMEN SUMMARY

Zone	%
0-20	68.8
0-30	87.6
0-40	93.4
0-60	98
0-80	99.6
0-90	100
10-90	77.2
20-40	24.6
20-50	27.7
40-70	5.6
60-80	1.6
70-80	0.5
80-90	0.4
90-110	0
90-120	0
90-130	0
90-150	0
90-180	0
110-180	0
0-180	100

IES FLOOD REPORT PHOTOMETRIC FILENAME : L081912701R01.IES

AXIAL CANDELA DISPLAY



Maximum Candela = 2197 Located At Horizontal Angle = 0, Vertical Angle = 0

H - Horizontal Axial Candela

V - Vertical Axial Candela

IES FLOOD REPORT PHOTOMETRIC FILENAME : L081912701R01.IES

ISOCANDELA CURVES



Maximum Candela = 2197 Located At Horizontal Angle = 0, Vertical Angle = 0 50% Maximum Candela = 1098.5 10% Maximum Candela = 219.7

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