



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L032510802



**Report No:** L032510802  
**Report Prepared For:** Beachside Lighting  
905 Kalaniana'ole Hwy, #2901, Kailua HI 96734  
**Model Number:** E8-H-2x9-2W-DC-30  
**Test:** Photometric/Electrical Test

**Issue Date:** 4/28/2025  
**Reference:** N/A  
**Amendment:** N/A

**Standards Used:** Appropriate part or all test guidelines were used for test performed:  
*IES LM79: 2008* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products  
*ANSI/IES LM79: 2019* Approved Methods for Optical and Electrical Measurements of Solid-State Lighting Products  
*ANSI/NEMA C78.377: 2017* Specification of the Chromaticity of Solid State Lighting Products  
*ANSI C82.77-10:2014:* 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.

**Special Test Condition:** Fixture is tested with no special conditions.

**Date of Tests:** 4/25/25

**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-S3	6/21/26
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	6/25/26
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**

<b>Manufacturer:</b>	Beachside Lighting
<b>Model Number:</b>	E8-H-2x9-2W-DC-30
<b>Driver Model Number:</b>	N/A

**Photometric & Electrical Test Results**

<b>Total Lumens:</b>	24.00
<b>Efficacy:</b>	10.58
<b>Input Voltage (VAC/60Hz):</b>	12.00
<b>Input Current (Amp):</b>	0.2923
<b>Input Power (W):</b>	2.27
<b>Input Power Factor:</b>	0.6468
<b>Current ATHD (%):</b>	88.7%

**Test Condition**

<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:35
<b>Total Operating Time (Hours):</b>	1:45

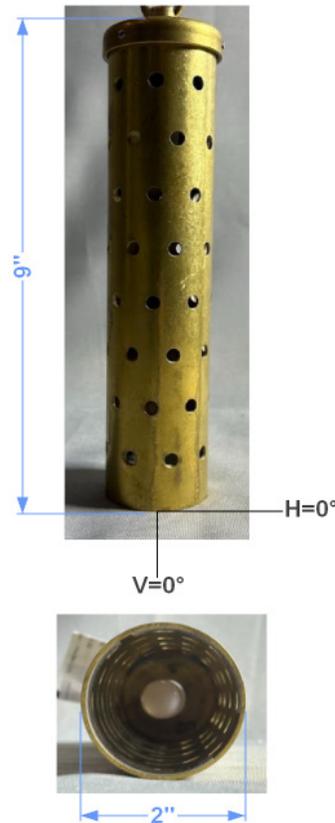


FIG. 1 LUMINAIRE





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# Photometric Test Report

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L032510802.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L032510802  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUE DATE] 4/25/2025  
 [MANUFAC] Beachside Lighting  
 [LUMCAT] E8-H-2x9-2W-DC-30  
 [LUMINAIRE] 2" x 9" Hanging Fixture with 2 watt Bayonet Base Lamp, 3000K  
 [BALLASTCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [INPUT] 12V AC  
 [TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

IES Classification	Type V
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	11
Total Luminaire Watts	2.27
Ballast Factor	1.00
Upward Waste Light Ratio	0.21
Maximum Candela	20.9
Maximum Candela Angle	0H 5V
Maximum Candela (<90 Degrees Vertical)	20.9
Maximum Candela Angle (<90 Degrees Vertical)	0H 5V
Maximum Candela At 90 Degrees Vertical	.7 (2.9% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1.8 (7.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L032510802.IES**

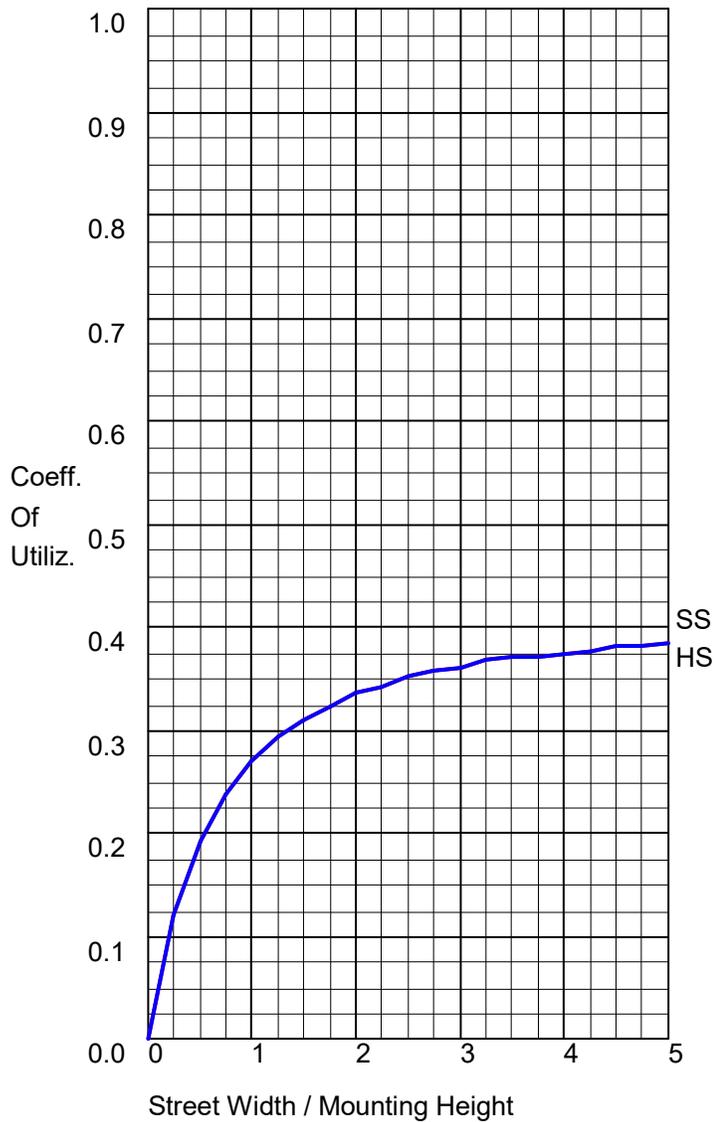
**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3.3	N.A.	13.4
FM - Front-Medium (30-60)	3.3	N.A.	13.5
FH - Front-High (60-80)	2.4	N.A.	10.0
FVH - Front-Very High (80-90)	0.6	N.A.	2.6
BL - Back-Low (0-30)	3.3	N.A.	13.4
BM - Back-Medium (30-60)	3.3	N.A.	13.5
BH - Back-High (60-80)	2.4	N.A.	10.0
BVH - Back-Very High (80-90)	0.6	N.A.	2.6
UL - Uplight-Low (90-100)	0.8	N.A.	3.4
UH - Uplight-High (100-180)	4.4	N.A.	17.9
Total	24.4	N.A.	100.0
BUG Rating	B0-U1-G0		

CANDELA TABULATION

Vert. Angles	Horizontal Angles
	<u>0</u>
0	20.3
5	20.9
10	11.4
15	8.9
20	7.8
25	4.4
30	3.6
35	3.1
40	3.0
45	2.9
50	2.7
55	2.7
60	2.5
65	2.5
70	2.5
75	2.4
80	1.8
85	1.1
90	0.7
95	0.7
100	0.9
105	1.2
110	1.5
115	1.7
120	1.6
125	1.2
130	0.9
135	0.5
140	0.0
145	0.0
150	0.0
155	0.0
160	0.0
165	0.0
170	0.0
175	0.0
180	0.0

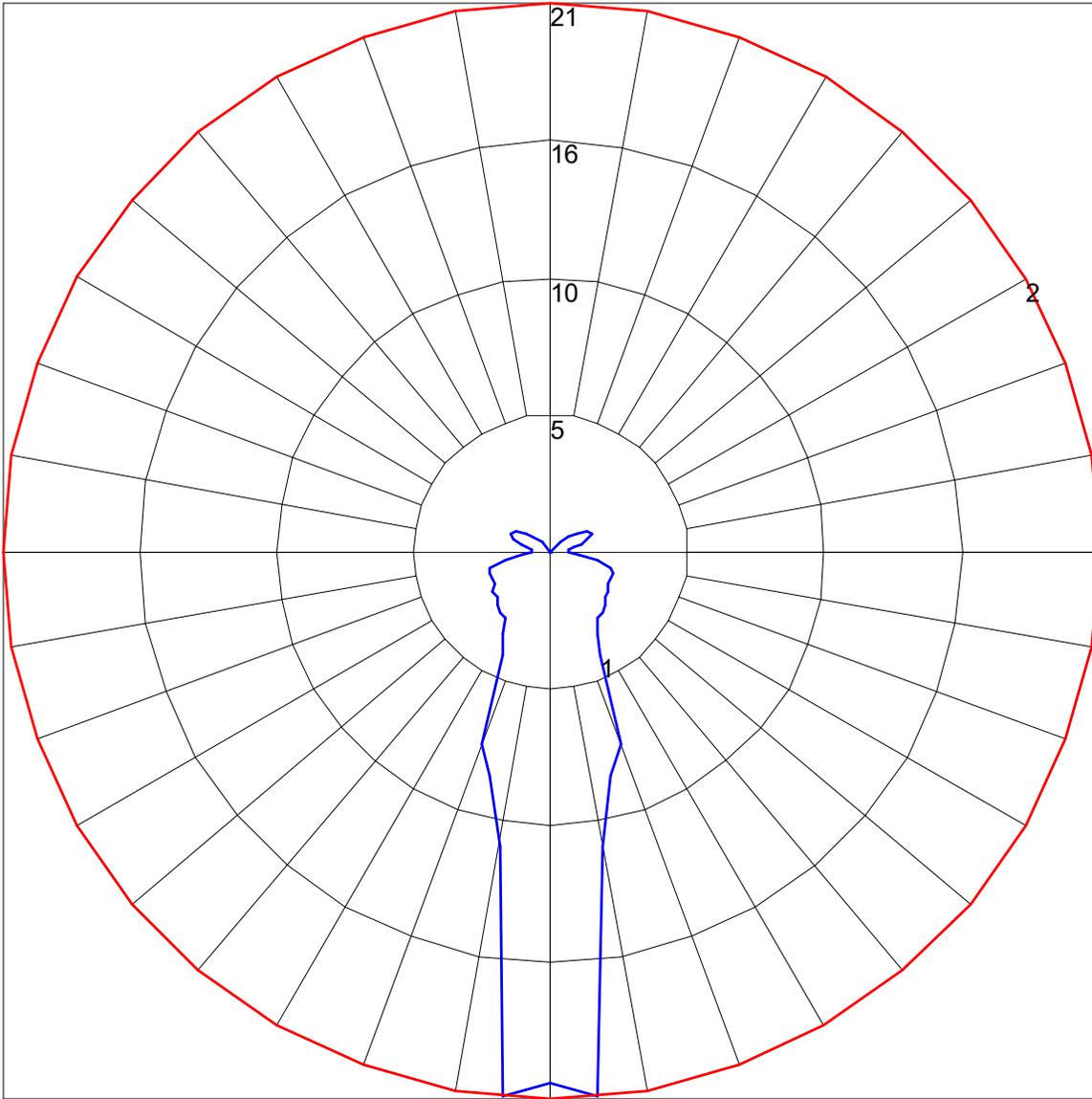
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

	Lumens	Percent Of Luminaire
Downward Street Side	9.6	39.4
Downward House Side	9.6	39.4
Downward Total	19.2	78.5
Upward Street Side	2.6	10.6
Upward House Side	2.6	10.6
Upward Total	5.2	21.3
Total Flux	24.4	99.7

POLAR GRAPH



Maximum Candela = 20.9 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

