



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

Report No: L061706802



**Report No:** L061706802

**Issue Date:** 6/30/2017

**Report Prepared For:** Beachside Lighting  
905 Kalaniana'ole Hwy., #2901 Kailua, Hawaii 96734

**Model Number:** E1-S-24-3W

**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:** 6/26/17

**Date of Tests:** 6/27/17 - 6/29/17

**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.

**Test Summary**

<b>Manufacturer:</b>	Beachside Lighting
<b>Model Number:</b>	E1-S-24-3W
<b>Driver Model Number:</b>	N/A
<b>Total Lumens:</b>	97.80
<b>Input Voltage (VAC/60Hz):</b>	12.00
<b>Input Current (Amp):</b>	0.32
<b>Input Power (W):</b>	2.84
<b>Input Power Factor:</b>	0.73
<b>Current ATHD @ 12V(%):</b>	63%
<b>Current ATHD @ 277V(%):</b>	N/A
<b>Efficacy:</b>	34
<b>Color Rendering Index (CRI):</b>	79
<b>Correlated Color Temperature (K):</b>	2911
<b>Chromaticity Coordinate x:</b>	0.4470
<b>Chromaticity Coordinate y:</b>	0.4132
<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:45
<b>Total Operating Time (Hours):</b>	1:45

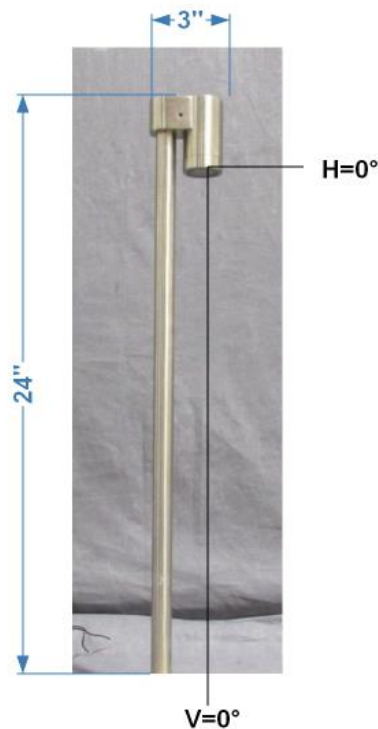
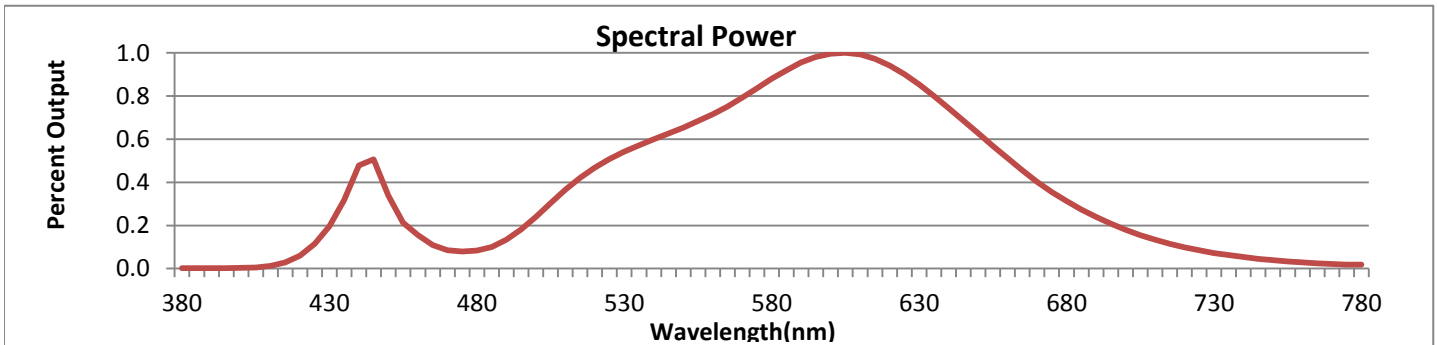


FIG. 1 LUMINAIRE

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



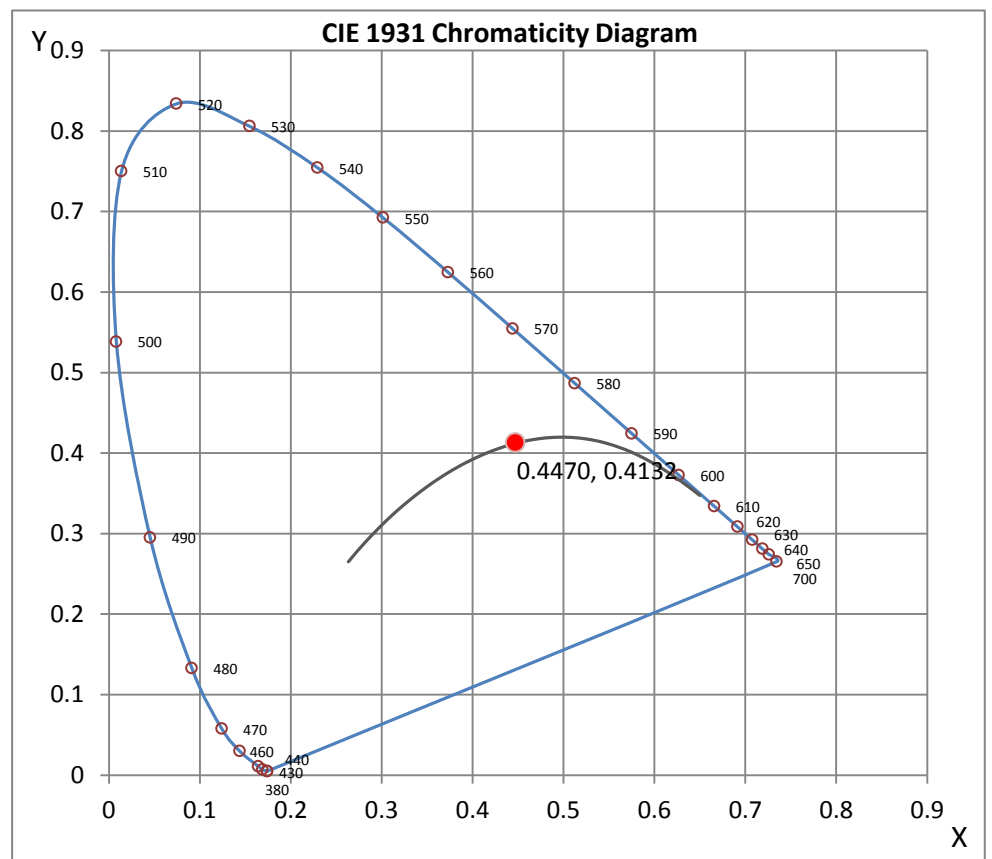
Wavelength	W/m <sup>2</sup> nm	440	0.4786	510	0.3650	580	0.8800	650	0.6279	720	0.0987
380	0.0014	450	0.3389	520	0.4682	590	0.9554	660	0.5126	730	0.0724
390	0.0014	460	0.1551	530	0.5415	600	0.9957	670	0.4033	740	0.0533
400	0.0027	470	0.0846	540	0.5995	610	0.9929	680	0.3137	750	0.0390
410	0.0119	480	0.0837	550	0.6539	620	0.9414	690	0.2391	760	0.0283
420	0.0601	490	0.1336	560	0.7159	630	0.8538	700	0.1795	770	0.0213
430	0.1963	500	0.2390	570	0.7929	640	0.7439	710	0.1335	780	0.0185

**CRI & CCT**

x	0.4470
y	0.4132
u'	0.2531
v'	0.5264
CRI	78.80
CCT	2911
Duv	0.00227

**R Values**

R1	77.28
R2	84.47
R3	91.31
R4	79.34
R5	75.89
R6	79.01
R7	84.02
R8	59.40
R9	3.37
R10	63.99
R11	77.77
R12	58.67
R13	78.16
R14	94.48



\*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: 13*



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

# Photometric Test Report

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L061706802.IES**

## DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L061706802  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 6/30/2017  
[MANUFAC] Beachside Lighting  
[LUMCAT] E1-S-24-3W  
[LUMINAIRE] Pathlight w/ 3 Watt 3000K module  
[BALLASTCAT] N/A  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 12VAC, 2.84W  
[TEST PROCEDURE] IESNA:LM-79-08

## CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	98
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	34
Total Luminaire Watts	2.84
Ballast Factor	1.00
Upward Waste Light Ratio	0.01
Maximum Candela	49.8
Maximum Candela Angle	10H 5V
Maximum Candela (<90 Degrees Vertical)	49.8
Maximum Candela Angle (<90 Degrees Vertical)	10H 5V
Maximum Candela At 90 Degrees Vertical	.58 (0.6% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2.34 (2.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L061706802.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

**ZONAL LUMEN SUMMARY**

	Lumens	% Lamp	% Luminaire	Zone	%
FL - Front-Low (0-30)	17.9	N.A.	18.3		
FM - Front-Medium (30-60)	28.5	N.A.	29.2	0-20	15.8
FH - Front-High (60-80)	7.5	N.A.	7.7	0-30	32.7
FVH - Front-Very High (80-90)	0.6	N.A.	0.6	0-40	51.8
BL - Back-Low (0-30)	14.1	N.A.	14.4	0-60	84.5
BM - Back-Medium (30-60)	22.1	N.A.	22.6	0-80	97.7
BH - Back-High (60-80)	5.5	N.A.	5.6	0-90	98.6
BVH - Back-Very High (80-90)	0.3	N.A.	0.3	10-90	94.4
UL - Uplight-Low (90-100)	0.3	N.A.	0.4	20-40	36
UH - Uplight-High (100-180)	1.0	N.A.	1.0	20-50	54.2
				40-70	41.9
Total	97.8	N.A.	100.0	60-80	13.3
				70-80	4
BUG Rating	B0-U1-G0			80-90	0.9
				90-110	0.7
				90-120	1
				90-130	1.3
				90-150	1.4
				90-180	1.4
				110-180	0.7
				0-180	100

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35
5	49.72	49.80	49.80	49.75	49.56	49.47	49.45	49.38	49.24	49.10
10	48.17	48.12	48.05	47.96	47.91	47.87	47.82	47.71	47.63	47.57
15	45.71	45.68	45.64	45.61	45.54	45.48	45.47	45.41	45.36	45.29
20	43.29	43.29	43.26	43.20	43.11	43.08	42.97	42.90	42.89	42.85
25	40.45	40.45	40.43	40.38	40.32	40.27	40.18	40.08	40.03	39.95
30	37.46	37.43	37.39	37.36	37.29	37.18	37.11	36.99	36.90	36.83
35	33.99	34.00	33.99	33.92	33.85	33.78	33.65	33.55	33.44	33.34
40	30.41	30.39	30.39	30.33	30.28	30.23	30.14	30.00	29.93	29.84
45	26.51	26.53	26.51	26.49	26.42	26.37	26.28	26.14	26.07	25.98
50	22.61	22.61	22.61	22.59	22.56	22.51	22.38	22.24	22.14	22.08
55	18.61	18.61	18.57	18.57	18.52	18.45	18.33	18.24	18.15	18.05
60	14.71	14.69	14.69	14.66	14.61	14.52	14.43	14.33	14.25	14.15
65	10.92	10.92	10.92	10.88	10.83	10.78	10.69	10.62	10.53	10.48
70	7.48	7.48	7.46	7.43	7.39	7.32	7.27	7.18	7.13	7.04
75	4.60	4.58	4.58	4.56	4.53	4.48	4.42	4.37	4.32	4.27
80	2.32	2.34	2.32	2.30	2.28	2.25	2.21	2.18	2.14	2.09
85	1.02	1.02	1.02	1.00	1.00	0.97	0.95	0.93	0.91	0.88
90	0.56	0.58	0.58	0.58	0.56	0.56	0.54	0.54	0.51	0.49
95	0.53	0.51	0.53	0.51	0.49	0.49	0.49	0.47	0.46	0.44
100	0.46	0.46	0.46	0.46	0.44	0.44	0.44	0.44	0.40	0.40
105	0.39	0.39	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39
110	0.39	0.37	0.37	0.37	0.37	0.35	0.35	0.35	0.37	0.37
115	0.35	0.35	0.35	0.35	0.35	0.35	0.33	0.35	0.37	0.37
120	0.35	0.35	0.33	0.33	0.33	0.33	0.33	0.35	0.35	0.37
125	0.35	0.35	0.35	0.35	0.33	0.33	0.35	0.35	0.37	0.37
130	0.39	0.37	0.37	0.35	0.35	0.35	0.35	0.35	0.37	0.39
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35
5	49.00	48.93	48.75	48.56	48.33	48.26	48.22	48.24	48.21	48.15
10	47.49	47.42	47.26	47.13	46.96	46.84	46.66	46.54	46.49	46.34
15	45.27	45.24	45.20	45.10	45.03	44.98	44.89	44.84	44.66	44.55
20	42.76	42.76	42.73	42.68	42.61	42.52	42.47	42.38	42.32	42.25
25	39.94	39.92	39.85	39.80	39.73	39.69	39.60	39.55	39.52	39.46
30	36.78	36.74	36.72	36.65	36.57	36.48	36.41	36.39	36.34	36.30
35	33.30	33.28	33.23	33.16	33.07	32.97	32.90	32.85	32.79	32.70
40	29.77	29.74	29.65	29.56	29.46	29.33	29.25	29.19	29.07	28.95
45	25.89	25.81	25.74	25.65	25.56	25.42	25.33	25.19	25.00	24.86
50	21.96	21.86	21.77	21.68	21.61	21.49	21.35	21.15	21.00	20.86
55	17.92	17.84	17.73	17.66	17.59	17.47	17.29	17.10	16.94	16.84

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L061706802.IES**

**CANDELA TABULATION - (Cont.)**

60	14.06	13.97	13.87	13.80	13.73	13.61	13.45	13.27	13.15	13.06
65	10.38	10.32	10.25	10.20	10.13	10.01	9.85	9.71	9.64	9.57
70	7.00	6.95	6.88	6.85	6.79	6.71	6.58	6.51	6.44	6.39
75	4.21	4.18	4.11	4.07	4.04	3.95	3.86	3.81	3.77	3.74
80	2.05	2.00	1.98	1.93	1.90	1.83	1.77	1.74	1.72	1.69
85	0.84	0.81	0.77	0.74	0.70	0.67	0.63	0.60	0.60	0.56
90	0.47	0.46	0.42	0.39	0.37	0.33	0.32	0.30	0.28	0.26
95	0.42	0.39	0.39	0.35	0.32	0.30	0.28	0.26	0.26	0.26
100	0.39	0.37	0.35	0.32	0.30	0.30	0.26	0.26	0.26	0.25
105	0.37	0.35	0.33	0.32	0.30	0.28	0.28	0.26	0.26	0.25
110	0.37	0.35	0.35	0.32	0.32	0.28	0.28	0.28	0.28	0.28
115	0.37	0.35	0.35	0.35	0.32	0.32	0.32	0.32	0.28	0.28
120	0.37	0.37	0.37	0.35	0.35	0.35	0.33	0.32	0.32	0.32
125	0.39	0.39	0.39	0.37	0.37	0.37	0.35	0.35	0.35	0.33
130	0.39	0.39	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.37
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35	46.35
5	48.07	48.03	47.92	47.82	47.29	47.13	47.26	46.92	45.13	37.43
10	46.13	46.08	46.06	45.99	45.89	45.82	45.55	45.27	44.98	44.62
15	44.43	44.29	44.13	43.97	43.92	43.75	43.64	43.52	43.34	43.03
20	42.18	42.04	41.92	41.89	41.80	41.69	41.55	41.32	41.06	40.76
25	39.39	39.32	39.24	39.16	39.08	39.01	38.87	38.67	38.45	38.18
30	36.25	36.18	36.11	36.04	35.97	35.88	35.74	35.57	35.34	35.07
35	32.63	32.53	32.44	32.35	32.32	32.25	32.14	31.99	31.81	31.58
40	28.84	28.76	28.67	28.63	28.65	28.58	28.49	28.39	28.18	27.97
45	24.79	24.74	24.66	24.70	24.70	24.66	24.61	24.52	24.37	24.19
50	20.77	20.70	20.75	20.87	20.80	20.73	20.70	20.63	20.47	20.33
55	16.73	16.68	16.69	16.71	16.75	16.73	16.68	16.61	16.55	16.45
60	12.97	12.90	12.85	12.85	12.87	12.85	12.85	12.83	12.83	12.75
65	9.50	9.41	9.37	9.36	9.36	9.34	9.29	9.27	9.27	9.25
70	6.34	6.27	6.23	6.21	6.20	6.16	6.13	6.09	6.07	6.04
75	3.69	3.65	3.62	3.58	3.56	3.55	3.51	3.49	3.46	3.44
80	1.65	1.62	1.58	1.56	1.55	1.51	1.51	1.49	1.49	1.48
85	0.54	0.53	0.51	0.47	0.47	0.47	0.46	0.46	0.46	0.42
90	0.26	0.25	0.23	0.23	0.23	0.19	0.19	0.19	0.21	0.19
95	0.25	0.21	0.21	0.23	0.19	0.19	0.19	0.19	0.19	0.19
100	0.25	0.23	0.23	0.23	0.19	0.19	0.19	0.21	0.21	0.21
105	0.25	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.21
110	0.26	0.26	0.23	0.25	0.25	0.23	0.23	0.23	0.23	0.25
115	0.28	0.26	0.26	0.26	0.25	0.26	0.26	0.26	0.26	0.26
120	0.30	0.30	0.30	0.30	0.28	0.28	0.30	0.30	0.30	0.30
125	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33
130	0.37	0.37	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.37



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L061706802.IES**

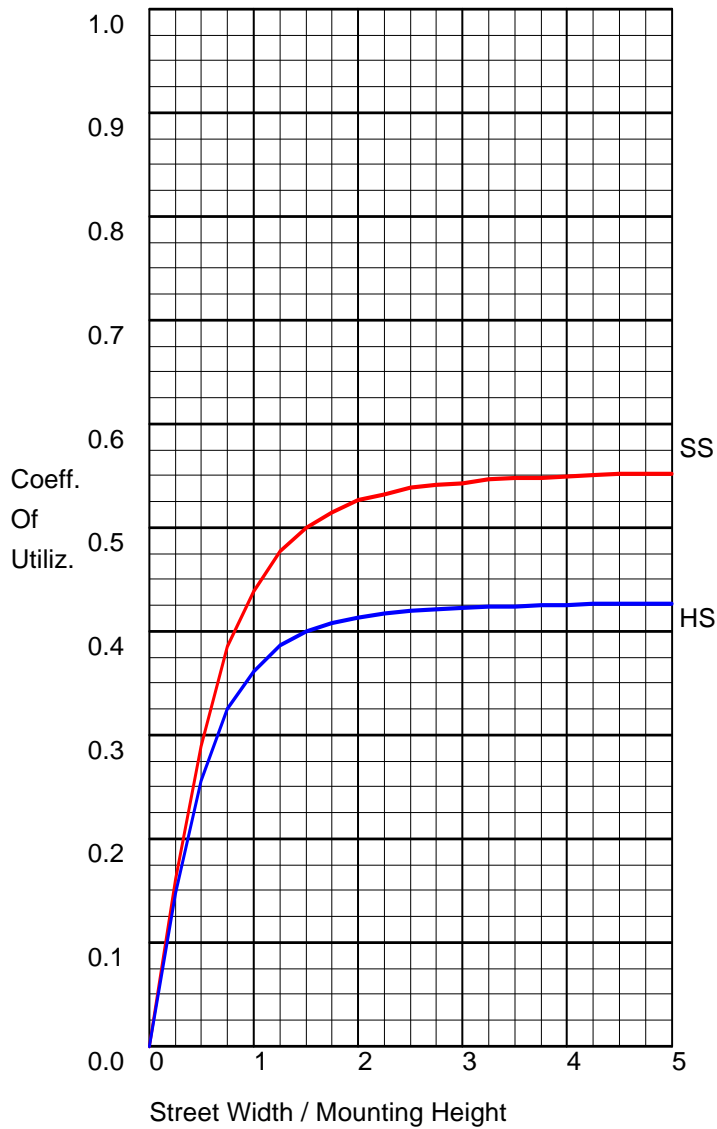
**CANDELA TABULATION - (Cont.)**

135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	46.35	46.35	46.35	46.35	46.35	46.35	46.35
5	44.64	40.64	23.91	21.10	3.65	0.91	0.60
10	44.05	42.34	23.66	16.57	1.26	0.53	0.25
15	42.36	40.96	30.23	12.71	1.11	0.51	0.25
20	40.31	39.36	35.39	13.22	1.63	0.54	0.25
25	37.73	36.87	33.79	12.62	1.58	0.54	0.25
30	34.67	33.90	31.41	12.59	1.49	0.53	0.25
35	31.21	30.53	28.53	11.04	1.37	0.49	0.25
40	27.63	27.00	25.02	9.80	1.26	0.47	0.25
45	23.89	23.23	21.38	8.20	1.14	0.42	0.25
50	20.12	19.63	17.75	6.86	0.97	0.40	0.25
55	16.29	15.89	14.47	5.34	0.90	0.35	0.21
60	12.59	12.29	11.20	4.58	0.76	0.32	0.21
65	9.15	8.92	8.16	3.32	0.60	0.30	0.21
70	5.99	5.85	5.21	2.21	0.49	0.28	0.21
75	3.41	3.32	3.04	1.39	0.39	0.25	0.21
80	1.46	1.40	1.32	0.69	0.26	0.21	0.21
85	0.42	0.42	0.39	0.28	0.21	0.21	0.21
90	0.21	0.21	0.21	0.19	0.21	0.21	0.00
95	0.21	0.21	0.21	0.21	0.21	0.21	0.00
100	0.21	0.21	0.21	0.21	0.21	0.21	0.00
105	0.23	0.23	0.23	0.21	0.21	0.23	0.00
110	0.25	0.25	0.25	0.25	0.25	0.25	0.00
115	0.26	0.28	0.28	0.28	0.28	0.28	0.00
120	0.30	0.30	0.30	0.30	0.28	0.28	0.00
125	0.33	0.33	0.32	0.32	0.33	0.32	0.00
130	0.37	0.35	0.35	0.35	0.35	0.35	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

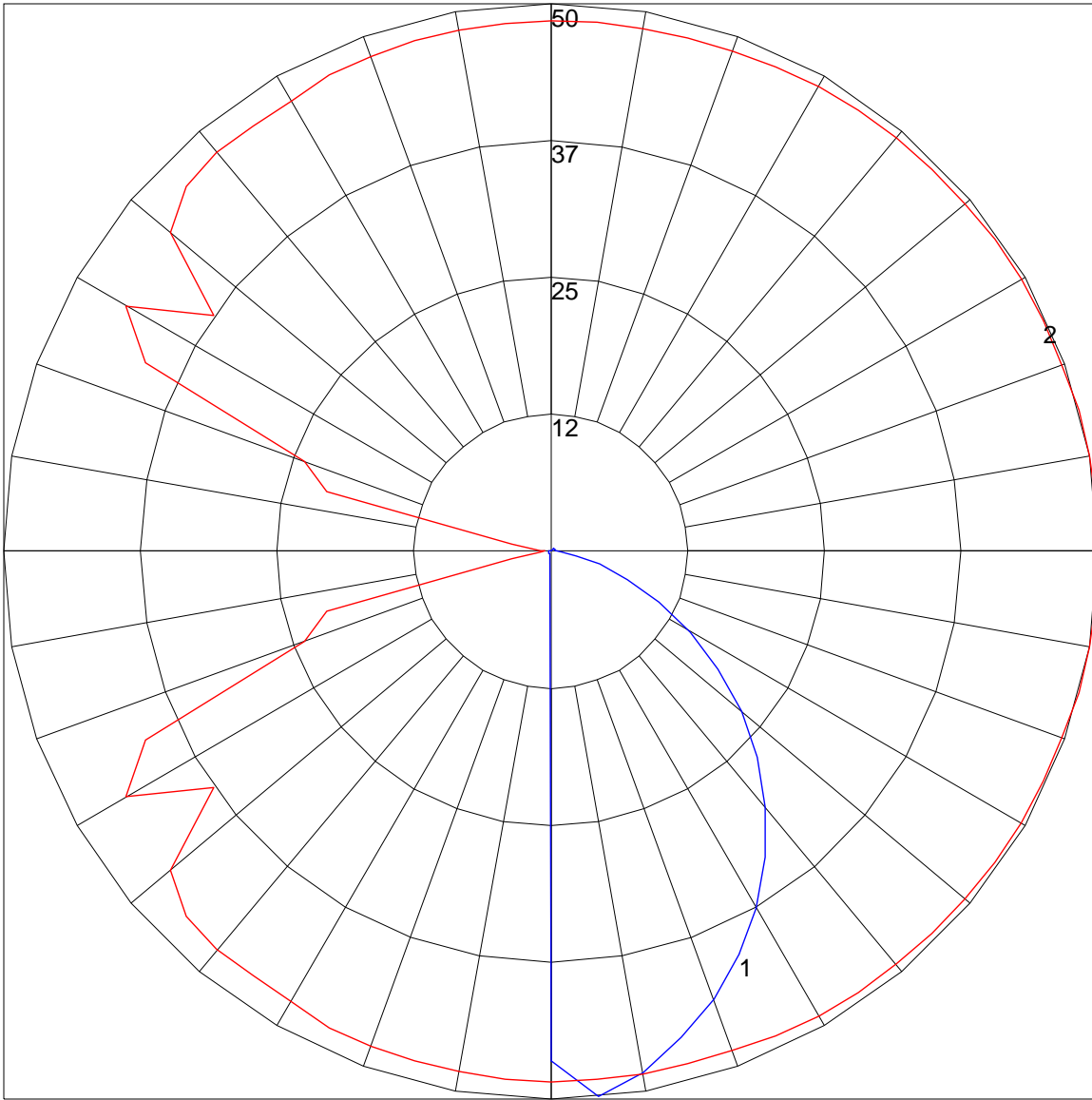
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

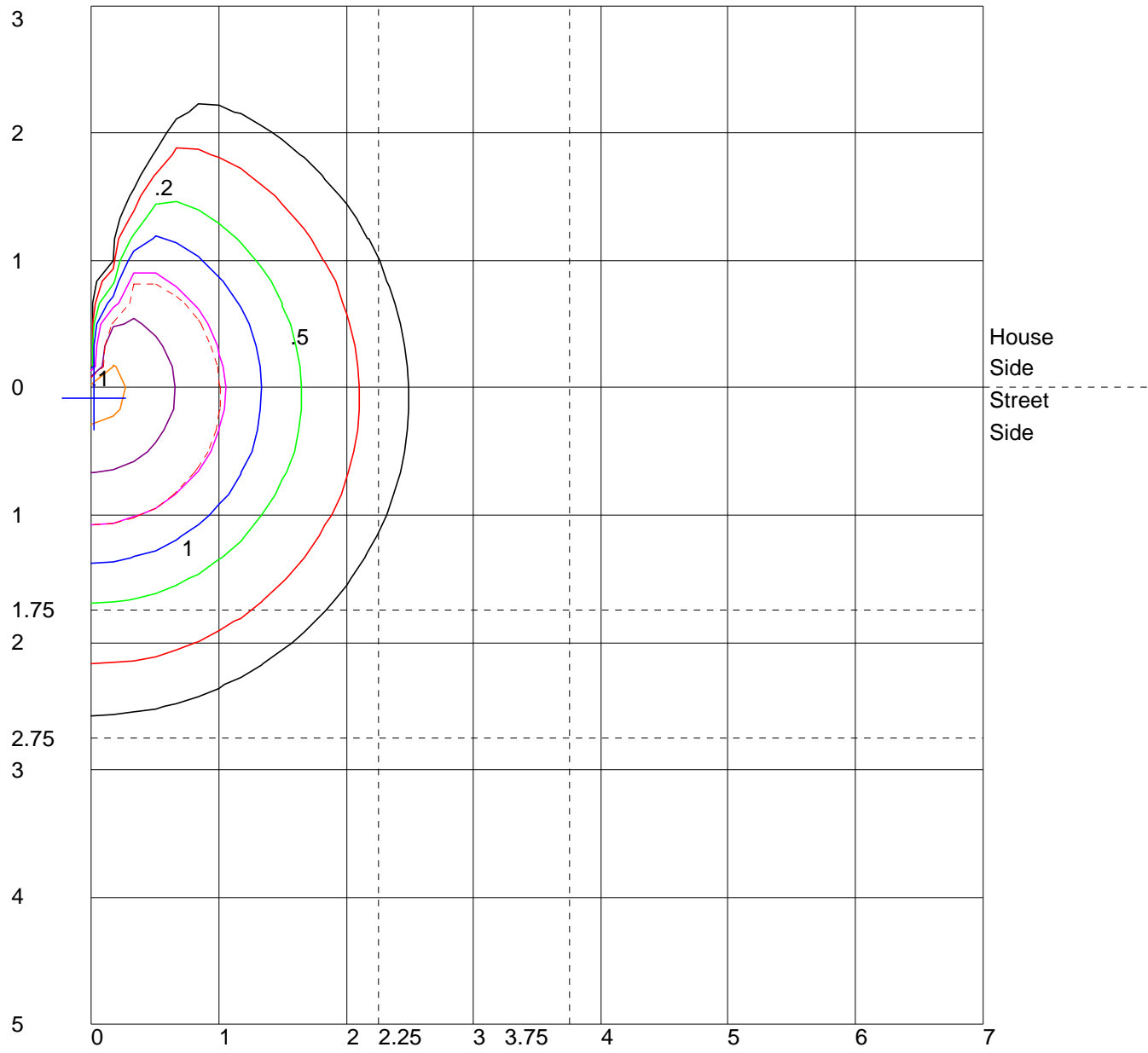
	Lumens	Percent Of Luminaire
Downward Street Side	54.5	55.7
Downward House Side	42.0	42.9
Downward Total	96.5	98.6
Upward Street Side	0.8	0.8
Upward House Side	0.5	0.6
Upward Total	1.3	1.3
<b>Total Flux</b>	<b>97.8</b>	<b>100.0</b>

POLAR GRAPH



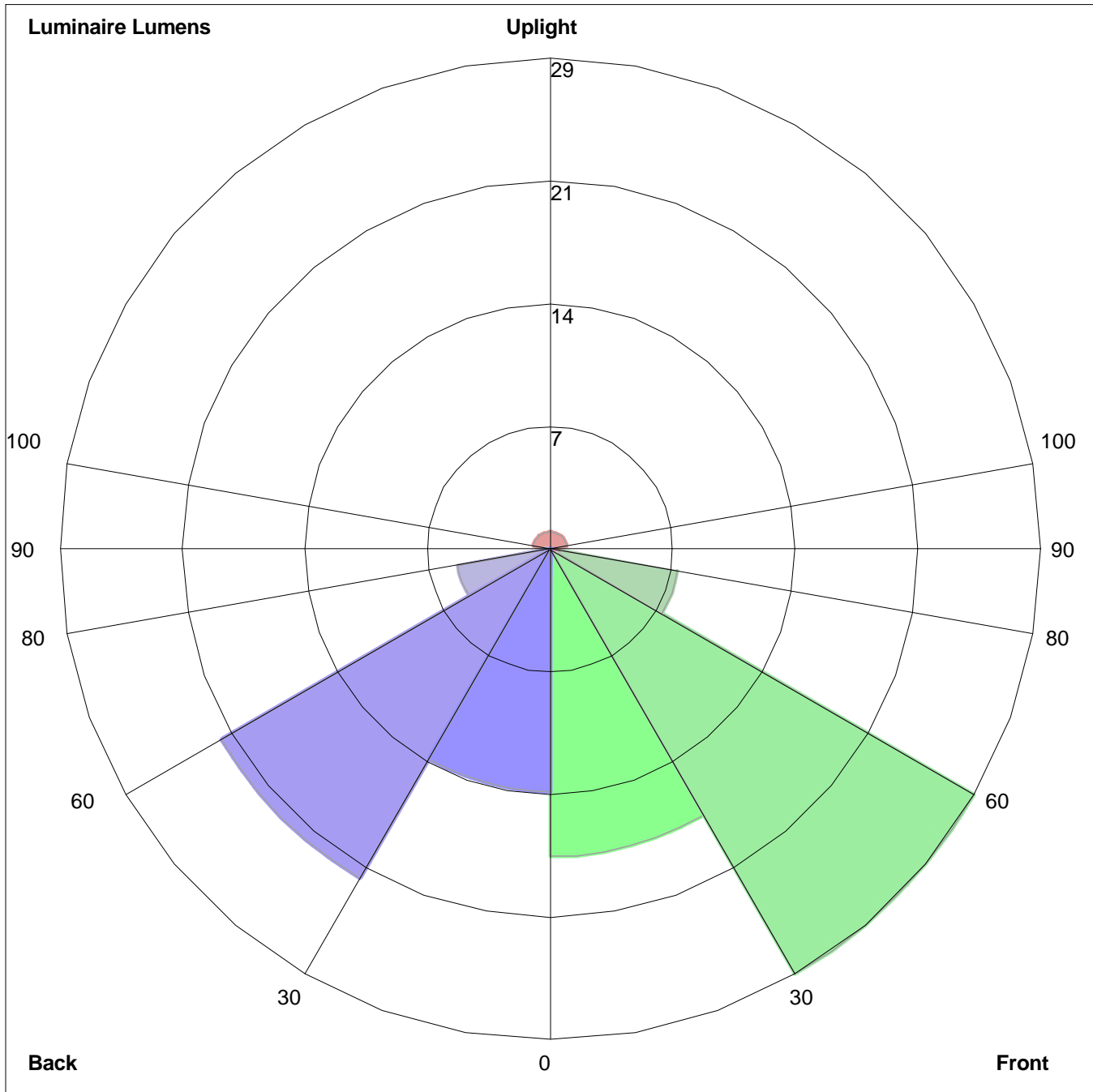
Maximum Candela = 49.8 Located At Horizontal Angle = 10, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height  
 Values Based On 2 Foot Mounting Height  
 1/2 Maximum Candela Trace Shown As Dashed Curve  
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=17.9, Medium=28.5, High=7.5, Very High=0.6  
Back: Low=14.1, Medium=22.1, High=5.5, Very High=0.3  
Uplight: Low=0.3, High=1.0

BUG Rating : B0-U1-G0