



8165 E Kaiser Blvd. Anaheim, CA 92808
p. 714.282.2270
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Report No: L091501002

Date: 9/4/2015



NVLAP LAB CODE 200927-0

Report No: L091501002

Report Prepared For: HK Lighting Group
3529 Old Conejo Road #118

Model Number: ZXL-SL-6X4-SM

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 ZXL-SL-6X4-SM . Received in working and undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 8/31/15

Date of Tests: 9/3/15 - 9/3/15

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	11/10/15
Xitron Power Analysis System	2503AH	MT-EL01	10/20/15
BK Precision DC Power Supply	1747	PSDC-04	01/08/16
Fluke Digital Thermometer	52k/J	MT-TP02-GC	01/05/16
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

Manufacturer:	HK Lighting Group
Model Number:	ZXL-SL-6X4-SM
Driver Model Number:	HATCH LCA003-RL-UNI
Total Lumens:	134.60
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.07
Input Power (W):	4.32
Input Power Factor:	0.55
Current ATHD @ 120V(%):	123%
Current ATHD @ 277V(%):	N/A
Efficacy:	31
Color Rendering Index (CRI):	84
Correlated Color Temperature (K):	3081
Chromaticity Coordinate x:	0.4303
Chromaticity Coordinate y:	0.3999
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:20
Total Operating Time (Hours):	2:00
Off State Power(W):	0.00

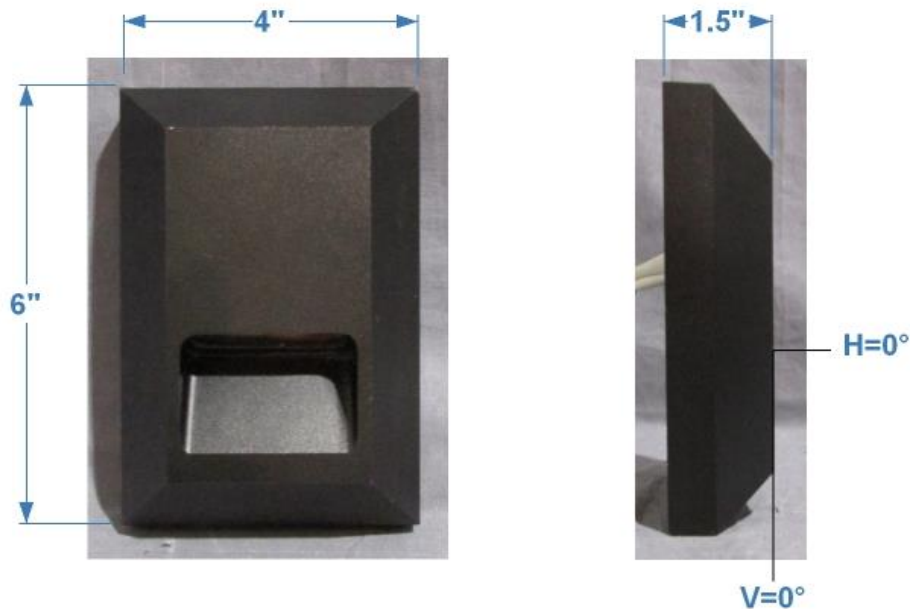
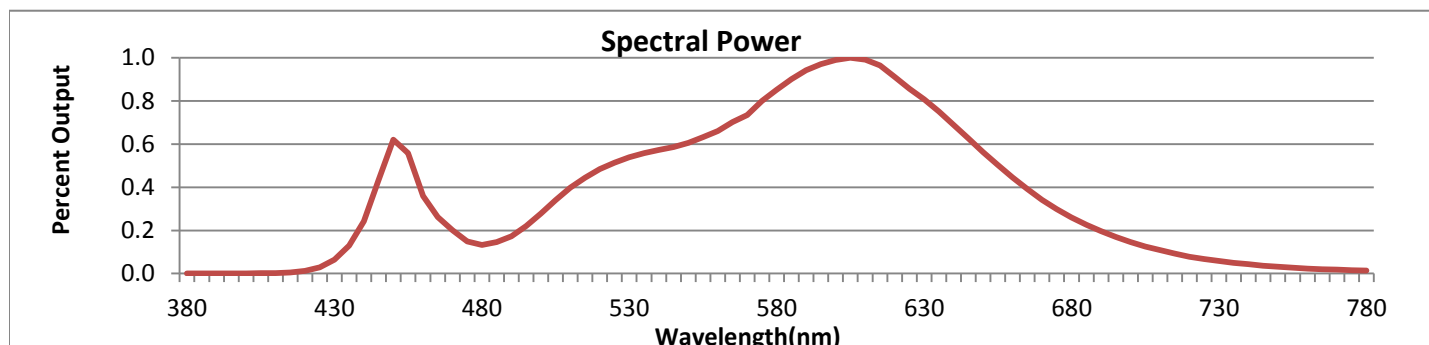


FIG. 1 LUMINAIRE



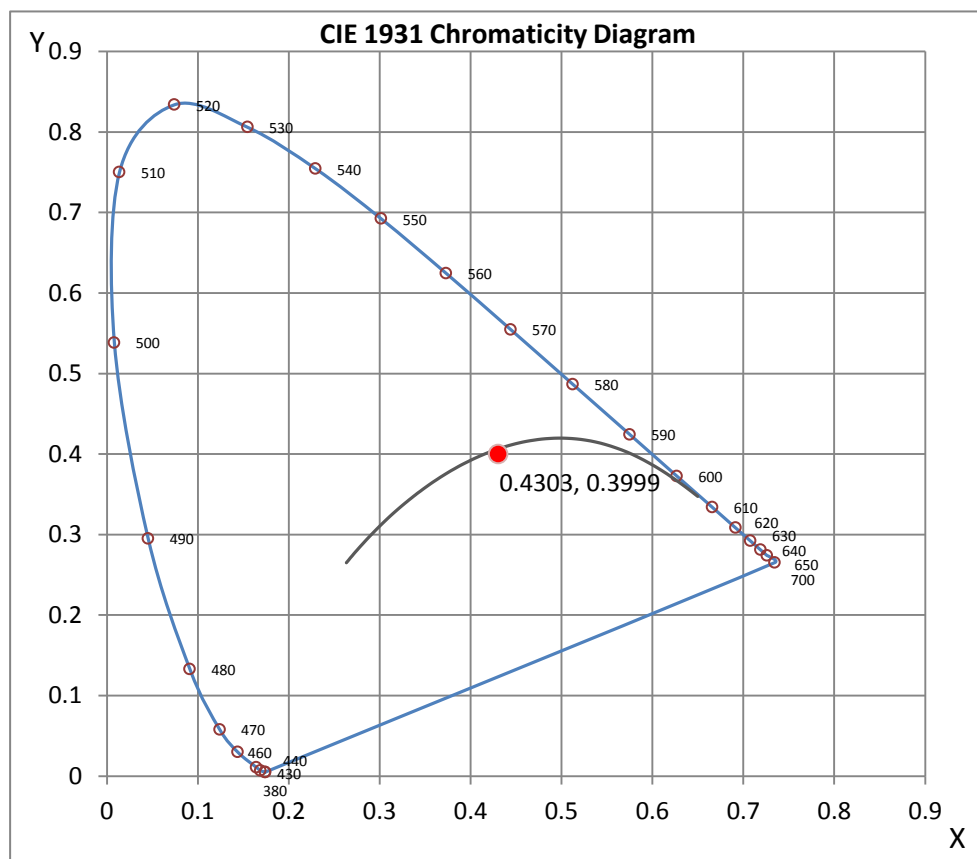
Wavelength	W/m ² nm	440	0.2418	510	0.3976	580	0.8524	650	0.5636	720	0.0780
380	0.0008	450	0.6206	520	0.4839	590	0.9426	660	0.4453	730	0.0579
390	0.0007	460	0.3599	530	0.5387	600	0.9905	670	0.3418	740	0.0429
400	0.0010	470	0.2014	540	0.5733	610	0.9924	680	0.2606	750	0.0318
410	0.0027	480	0.1332	550	0.6060	620	0.9120	690	0.1963	760	0.0233
420	0.0129	490	0.1731	560	0.6609	630	0.8077	700	0.1458	770	0.0176
430	0.0642	500	0.2786	570	0.7350	640	0.6891	710	0.1084	780	0.0131

CRI & CCT

x	0.4303
y	0.3999
u'	0.2481
v'	0.5187
CRI	83.70
CCT	3081
Duv	-0.00073

R Values

R1	82.87
R2	90.36
R3	96.19
R4	83.38
R5	82.44
R6	87.84
R7	84.28
R8	61.86
R9	11.15
R10	77.21
R11	83.66
R12	66.88
R13	84.74
R14	97.73





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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 : JEFF AHN

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: 14*

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



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Photometric Test Report

IES ROAD REPORT

PHOTOMETRIC FILENAME : L091501002.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L091501002
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUEDATE] 9/4/2015
[MANUFAC] HK LIGHTING GROUP
[LUMCAT] ZXL-SL-6X4-SM
[LUMINAIRE] 6" x 4" LED surface mount steplight
[BALLASTCAT] HATCH LCA003-RL-UNI
[LAMPPOSITION] 0,0
[LAMPCAT] N/A
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 4.32W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	135
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	31
Total Luminaire Watts	4.32
Ballast Factor	1.00
Upward Waste Light Ratio	0.02
Maximum Candela	100.8
Maximum Candela Angle	0H 40V
Maximum Candela (<90 Degrees Vertical)	100.8
Maximum Candela Angle (<90 Degrees Vertical)	0H 40V
Maximum Candela At 90 Degrees Vertical	6.93 (5.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	34.93 (25.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091501002.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	13.6	N.A.	10.1
FM - Front-Medium (30-60)	71.4	N.A.	53.1
FH - Front-High (60-80)	40.5	N.A.	30.1
FVH - Front-Very High (80-90)	6.8	N.A.	5.1
BL - Back-Low (0-30)	0.0	N.A.	0.0
BM - Back-Medium (30-60)	0.0	N.A.	0.0
BH - Back-High (60-80)	0.0	N.A.	0.0
BVH - Back-Very High (80-90)	0.0	N.A.	0.0
UL - Uplight-Low (90-100)	1.2	N.A.	0.9
UH - Uplight-High (100-180)	1.0	N.A.	0.7
Total	134.5	N.A.	100.0
BUG Rating	B0-U1-G0		

ZONAL LUMEN SUMMARY

Zone	%
0-20	1.4
0-30	10.1
0-40	25.1
0-60	63.2
0-80	93.3
0-90	98.4
10-90	98.4
20-40	23.7
20-50	42.4
40-70	55.5
60-80	30.1
70-80	12.6
80-90	5.1
90-110	1.2
90-120	1.4
90-130	1.5
90-150	1.6
90-180	1.6
110-180	0.4
0-180	100

IES ROAD REPORT
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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>
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.0	0.37	0.37	0.37	0.37	0.36	0.36	0.35	0.34	0.33	0.32
10.0	0.48	0.48	0.47	0.47	0.46	0.46	0.45	0.44	0.43	0.42
15.0	15.22	15.48	15.04	14.39	13.46	12.54	11.01	8.87	6.09	2.74
20.0	95.54	95.46	90.35	84.08	75.62	65.32	53.46	40.61	26.83	20.73
25.0	96.76	96.56	96.31	95.86	95.33	94.64	93.85	93.05	78.34	60.55
30.0	96.93	96.85	96.69	96.32	95.75	94.93	93.84	92.55	91.28	89.77
35.0	100.19	100.02	99.49	98.63	97.31	95.73	93.97	92.21	90.05	87.77
37.5	100.50	100.39	100.02	99.40	98.44	96.55	94.49	92.31	89.79	86.94
40.0	100.80	100.67	100.22	99.44	98.35	97.01	94.95	92.41	89.54	86.35
42.5	99.87	99.82	99.55	99.08	98.15	96.57	94.91	92.20	89.08	85.46
45.0	98.93	98.88	98.51	97.88	97.06	95.94	93.86	91.66	88.03	84.50
47.5	97.05	97.02	96.80	96.42	95.57	94.27	92.68	89.88	86.79	82.81
50.0	95.16	95.06	94.75	94.24	93.51	92.24	90.55	87.99	84.73	80.94
52.5	92.72	92.66	92.43	92.04	91.07	89.85	88.07	85.60	82.28	78.47
55.0	90.27	90.20	89.92	89.36	88.44	87.05	85.53	82.66	79.56	76.08
57.5	87.07	87.05	87.00	86.49	85.38	84.23	82.14	79.54	76.54	72.00
60.0	83.86	83.78	83.54	83.09	82.27	80.76	78.45	76.23	72.36	67.92
62.5	80.20	80.17	79.86	79.44	78.41	76.99	73.41	71.67	68.15	63.75
65.0	76.55	76.43	75.79	75.24	74.19	72.78	69.78	67.72	63.90	59.46
67.5	71.39	71.41	71.50	70.34	69.42	67.95	66.14	63.16	59.29	54.70
70.0	66.23	66.14	66.18	65.26	64.33	62.95	61.16	58.06	54.22	49.87
72.5	59.86	59.97	60.37	59.52	58.93	57.64	55.57	52.57	49.07	44.93
75.0	53.49	53.29	52.87	53.00	52.71	51.39	49.41	46.88	43.66	39.80
77.5	43.49	44.08	44.28	44.81	44.50	43.91	42.51	40.65	37.85	34.44
80.0	33.49	33.36	33.85	34.48	34.93	34.91	34.50	33.44	31.39	28.82
85.0	12.57	14.08	14.00	14.66	15.47	17.23	17.59	18.42	18.27	17.89
90.0	4.83	4.93	4.98	5.11	5.37	5.74	6.03	6.23	6.25	6.71
95.0	2.72	2.80	2.76	2.72	2.70	2.62	2.47	2.41	2.30	2.13
100.0	1.83	1.87	1.87	1.82	1.76	1.67	1.53	1.35	1.14	0.93
105.0	1.29	1.29	1.27	1.24	1.19	1.11	1.00	0.87	0.75	0.62
110.0	0.78	0.81	0.81	0.78	0.76	0.71	0.64	0.58	0.53	0.47
115.0	0.51	0.51	0.50	0.53	0.51	0.48	0.45	0.43	0.40	0.37
120.0	0.34	0.35	0.35	0.36	0.35	0.35	0.35	0.34	0.34	0.33
125.0	0.24	0.25	0.26	0.27	0.28	0.29	0.31	0.30	0.30	0.29
130.0	0.20	0.22	0.22	0.24	0.24	0.25	0.26	0.27	0.28	0.28
135.0	0.20	0.20	0.20	0.22	0.22	0.23	0.24	0.25	0.26	0.26
140.0	0.17	0.18	0.20	0.20	0.21	0.22	0.23	0.23	0.23	0.24
145.0	0.17	0.18	0.19	0.19	0.20	0.21	0.22	0.22	0.22	0.23
150.0	0.17	0.18	0.19	0.19	0.19	0.20	0.21	0.21	0.21	0.21
155.0	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.20	0.20	0.20
160.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
165.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
170.0	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17
175.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
180.0	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>
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.0	0.31	0.29	0.28	0.27	0.25	0.24	0.22	0.20	0.00	0.00
10.0	0.40	0.39	0.37	0.34	0.31	0.28	0.25	0.22	0.00	0.00

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091501002.IES

CANDELA TABULATION - (Cont.)

15.0	0.48	0.47	0.44	0.42	0.39	0.34	0.29	0.24	0.00	0.00
20.0	15.10	8.09	0.54	0.50	0.45	0.39	0.33	0.27	0.00	0.00
25.0	43.15	29.44	17.02	2.82	0.54	0.47	0.39	0.32	0.00	0.00
30.0	76.59	57.40	38.07	19.08	0.69	0.57	0.44	0.35	0.00	0.00
35.0	85.32	76.54	54.45	33.14	11.26	0.85	0.56	0.39	0.00	0.00
37.5	83.81	78.07	58.51	39.06	15.91	1.04	0.64	0.40	0.00	0.00
40.0	82.39	75.07	60.79	40.29	19.05	1.25	0.73	0.42	0.00	0.00
42.5	81.72	73.56	62.08	41.28	20.80	1.69	0.77	0.43	0.00	0.00
45.0	79.89	72.82	60.42	40.77	20.73	3.69	0.77	0.44	0.00	0.00
47.5	78.31	71.90	57.85	39.54	19.63	4.87	0.77	0.46	0.00	0.00
50.0	75.45	68.69	55.62	38.44	18.37	5.37	0.75	0.48	0.00	0.00
52.5	72.33	65.26	53.21	36.83	17.36	5.42	0.77	0.50	0.00	0.00
55.0	69.89	62.45	50.66	34.98	16.47	5.09	0.79	0.52	0.00	0.00
57.5	66.75	59.22	48.18	32.38	15.47	4.67	0.81	0.54	0.00	0.00
60.0	62.51	55.64	44.37	30.13	14.67	4.17	0.84	0.56	0.00	0.00
62.5	58.48	51.74	40.78	27.56	13.88	3.76	0.86	0.56	0.00	0.00
65.0	54.33	47.58	37.44	25.90	13.52	3.37	0.87	0.56	0.00	0.00
67.5	49.74	43.10	33.98	23.70	12.58	3.05	0.87	0.55	0.00	0.00
70.0	44.95	38.68	30.56	21.00	10.88	2.73	0.86	0.55	0.00	0.00
72.5	40.12	34.36	26.94	18.52	9.39	2.47	0.83	0.54	0.00	0.00
75.0	35.28	30.35	23.90	16.77	8.14	2.20	0.80	0.54	0.00	0.00
77.5	30.66	26.47	20.68	14.58	7.04	1.95	0.76	0.52	0.00	0.00
80.0	25.95	22.36	17.73	11.84	5.97	1.69	0.71	0.49	0.00	0.00
85.0	17.08	15.53	10.98	7.23	3.85	1.24	0.60	0.46	0.00	0.00
90.0	6.93	6.05	4.98	3.53	1.78	0.70	0.51	0.43	0.00	0.00
95.0	1.83	1.54	1.25	0.91	0.57	0.47	0.44	0.41	0.00	0.00
100.0	0.75	0.59	0.50	0.46	0.44	0.42	0.41	0.37	0.00	0.00
105.0	0.52	0.45	0.42	0.41	0.40	0.39	0.37	0.37	0.00	0.00
110.0	0.42	0.39	0.38	0.38	0.37	0.36	0.36	0.36	0.00	0.00
115.0	0.37	0.35	0.35	0.34	0.34	0.34	0.33	0.31	0.00	0.00
120.0	0.32	0.32	0.33	0.33	0.32	0.32	0.32	0.31	0.00	0.00
125.0	0.30	0.30	0.31	0.31	0.31	0.30	0.30	0.30	0.00	0.00
130.0	0.28	0.29	0.28	0.28	0.28	0.29	0.29	0.29	0.00	0.00
135.0	0.26	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.00	0.00
140.0	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.00	0.00
145.0	0.23	0.22	0.23	0.23	0.23	0.24	0.24	0.24	0.00	0.00
150.0	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.00	0.00
155.0	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.00	0.00
160.0	0.17	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.00	0.00
165.0	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.00	0.00
170.0	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.00	0.00
175.0	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.00	0.00
180.0	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>
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091501002.IES

CANDELA TABULATION - (Cont.)

40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

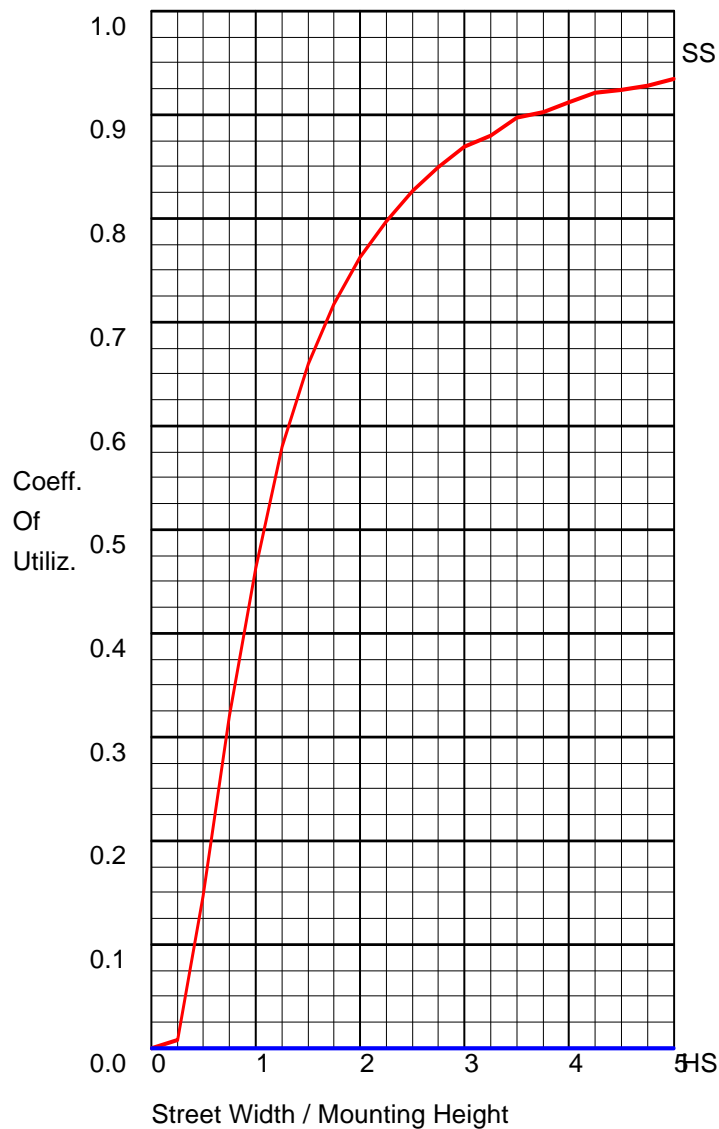
	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES ROAD REPORT
PHOTOMETRIC FILENAME : L091501002.IES

CANDELA TABULATION - (Cont.)

55.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

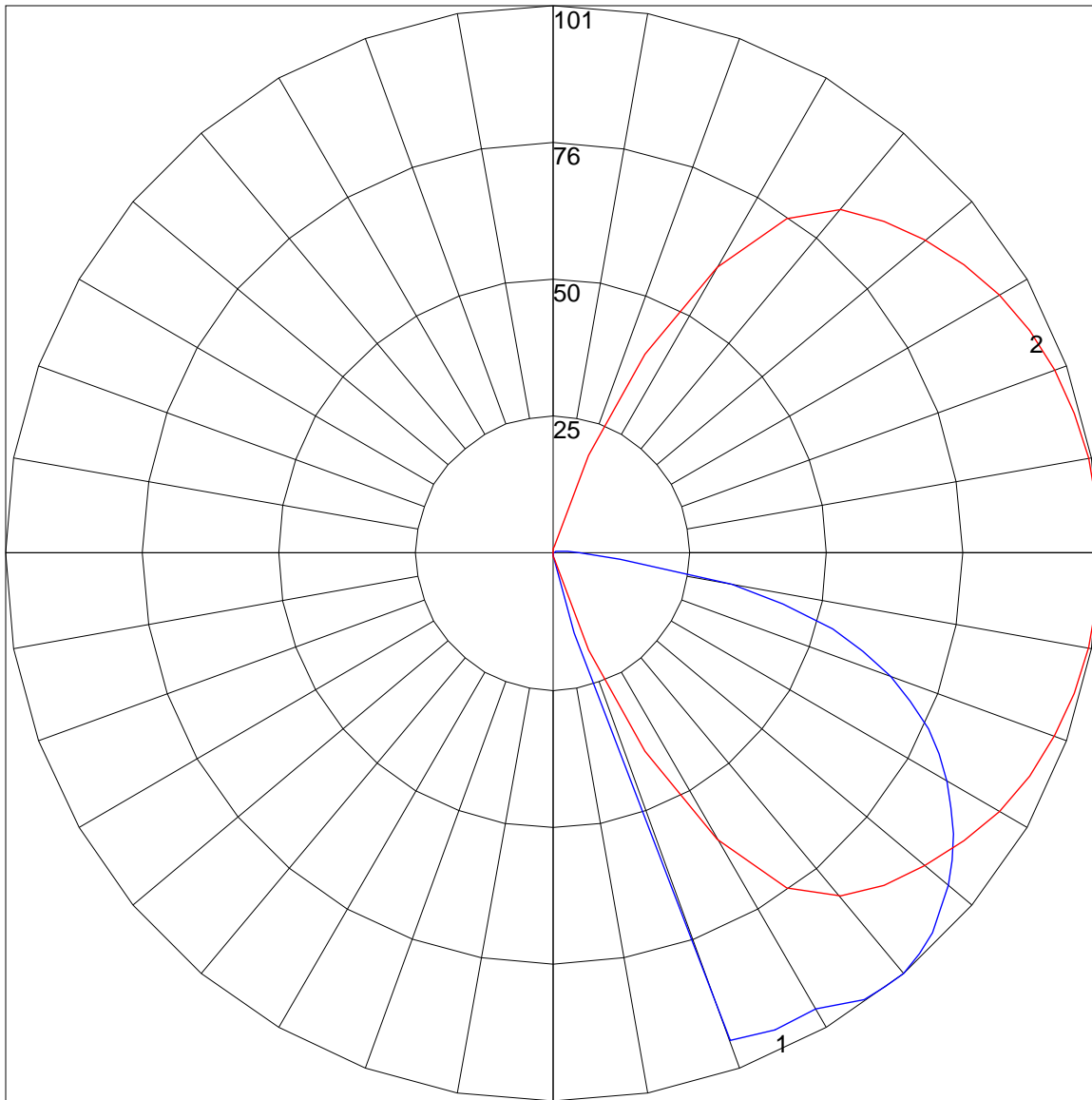
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

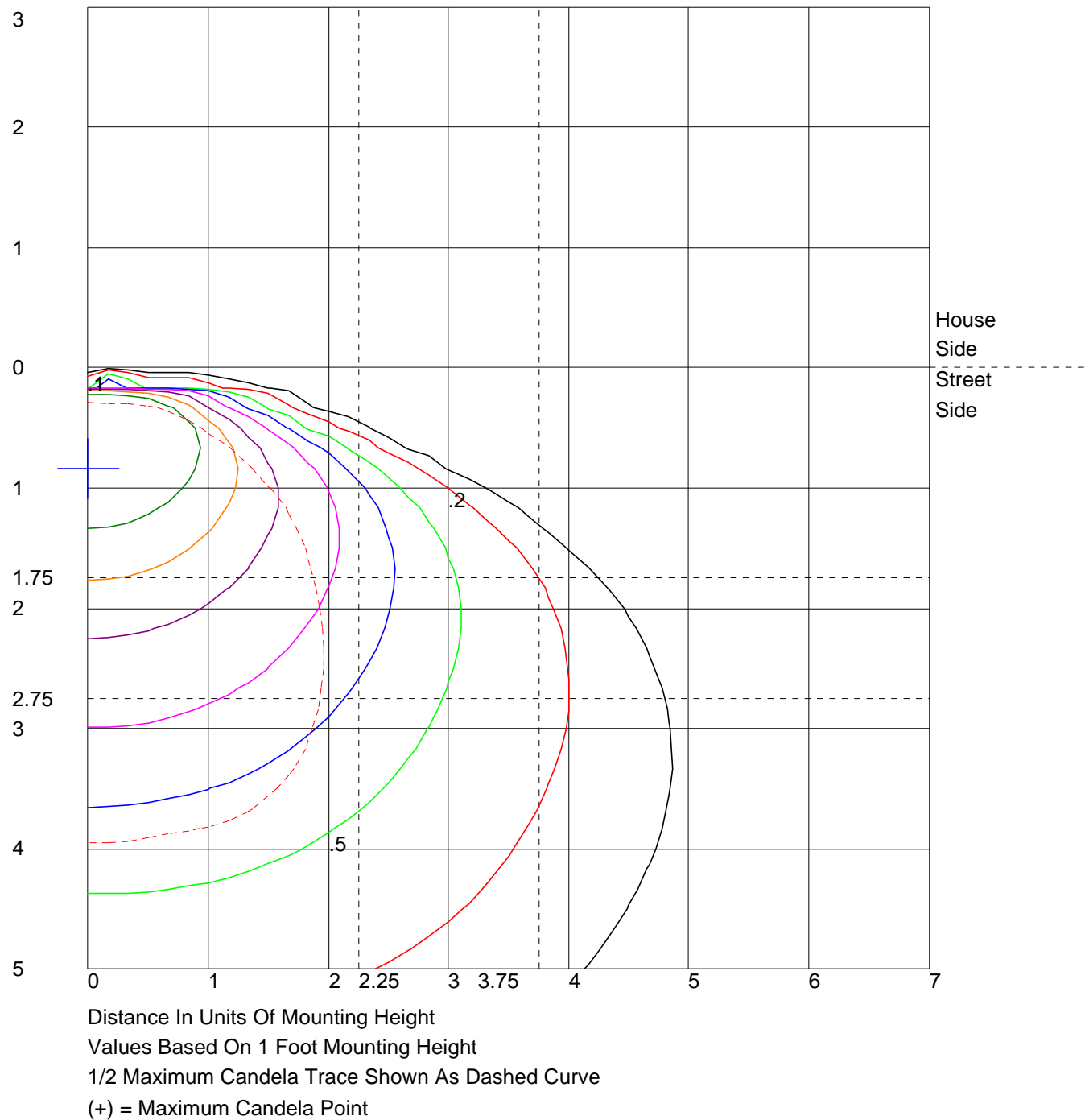
	Lumens	Percent Of Luminaire
Downward Street Side	132.4	98.4
Downward House Side	0.0	0.0
Downward Total	132.4	98.4
Upward Street Side	2.2	1.6
Upward House Side	0.0	0.0
Upward Total	2.2	1.6
Total Flux	134.6	100.0

POLAR GRAPH

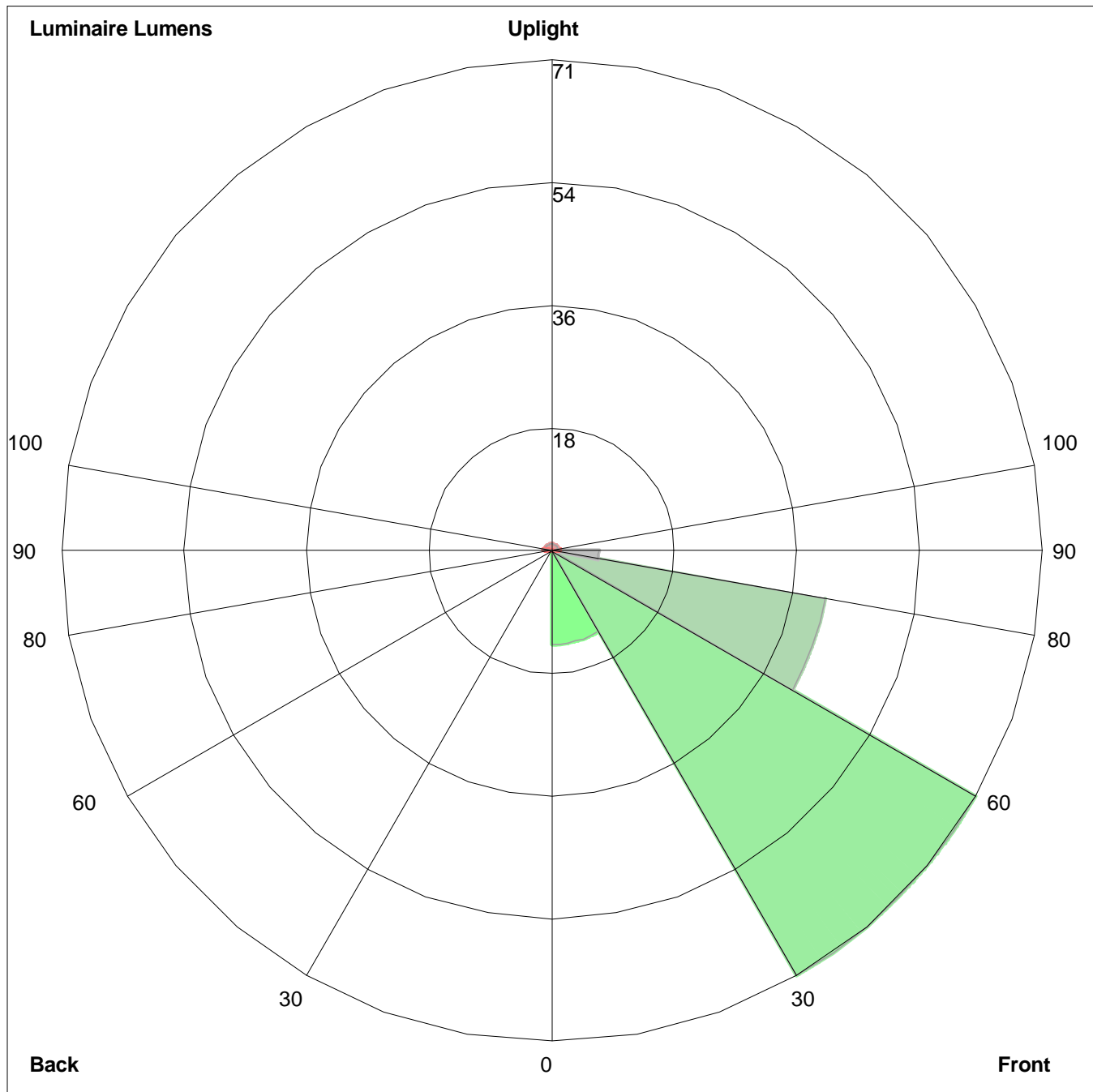


Maximum Candela = 100.8 Located At Horizontal Angle = 0, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=13.6, Medium=71.4, High=40.5, Very High=6.8
Back: Low=0.0, Medium=0.0, High=0.0, Very High=0.0
Uplight: Low=1.2, High=1.0

BUG Rating : B0-U1-G0