



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

Test #: L06134301

Date: 6/18/2013



NVLAP LAB CODE 200927-0

**Test Report:** L06134301

**Model Number:** L131

**Report Prepared For:** Cole Lighting  
2560 N. Rosemead Blvd. South El Monte, CA 91733

**Test:** Electrical and Photometric tests as required by the IESNA test standards.

**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

**Description of Sample:** Client submitted the sample. Fixture catalog number is L131. Received in working and undamaged condition. No modifications were necessary.

**Testing Condition:** Fixture is tested with no modifications.

**Sample Arrival Date:** 6/12/13

**Date of Tests:** 6/17/13 - 6/18/13

**Seasoning of Sample SSL:** 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	01/04/14
Xitron Power Analysis System	2503AH	MT-EL01	01/09/14
Fluke Digital Thermometer	52k/J	MT-TP02-GC	01/04/14
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.

### LM-79 Test Summary

<b>Manufacturer:</b>	Cole Lighting
<b>Model Number:</b>	L131
<b>LAMPCAT:</b>	N/A
<b>Driver Model Number:</b>	N/A
<b>Total Lumens:</b>	44.20
<b>Input Voltage (VAC/60Hz):</b>	120.00
<b>Input Current (Amp):</b>	0.04
<b>Input Power (W):</b>	3.96
<b>Input Power Factor:</b>	0.8487
<b>Total Harmonic Distortion @ 120V(%):</b>	51.8%
<b>Total Harmonic Distortion @ 277V(%):</b>	N/A
<b>Efficacy:</b>	11.18
<b>Color Rendering Index (CRI):</b>	79.00
<b>Correlated Color Temperature (K):</b>	3058
<b>Chromaticity Coordinate x:</b>	0.4310
<b>Chromaticity Coordinate y:</b>	0.3986
<b>Ambient Temperature (°F):</b>	77.0
<b>Stabilization Time (Hours):</b>	1:10
<b>Total Operating Time (Hours):</b>	2:20
<b>Off State Power(W):</b>	0.00

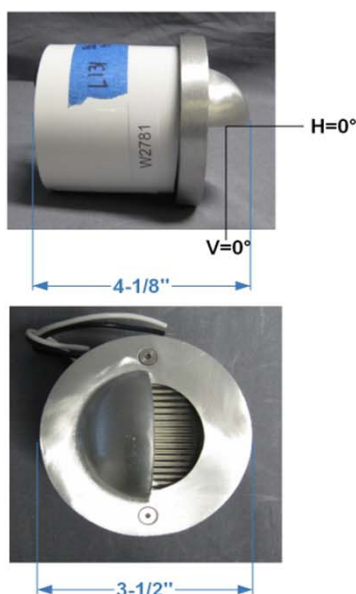
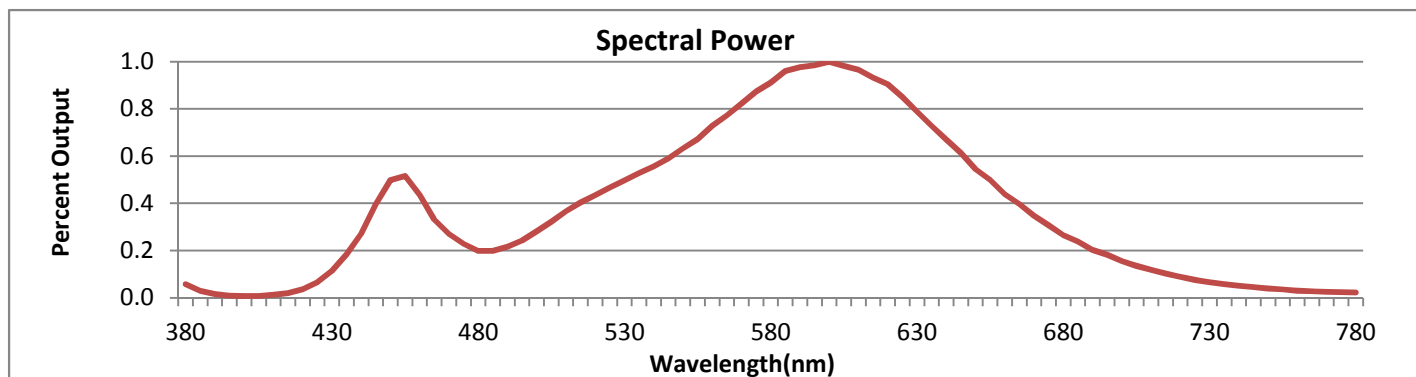


FIG1. LUMINAIRE



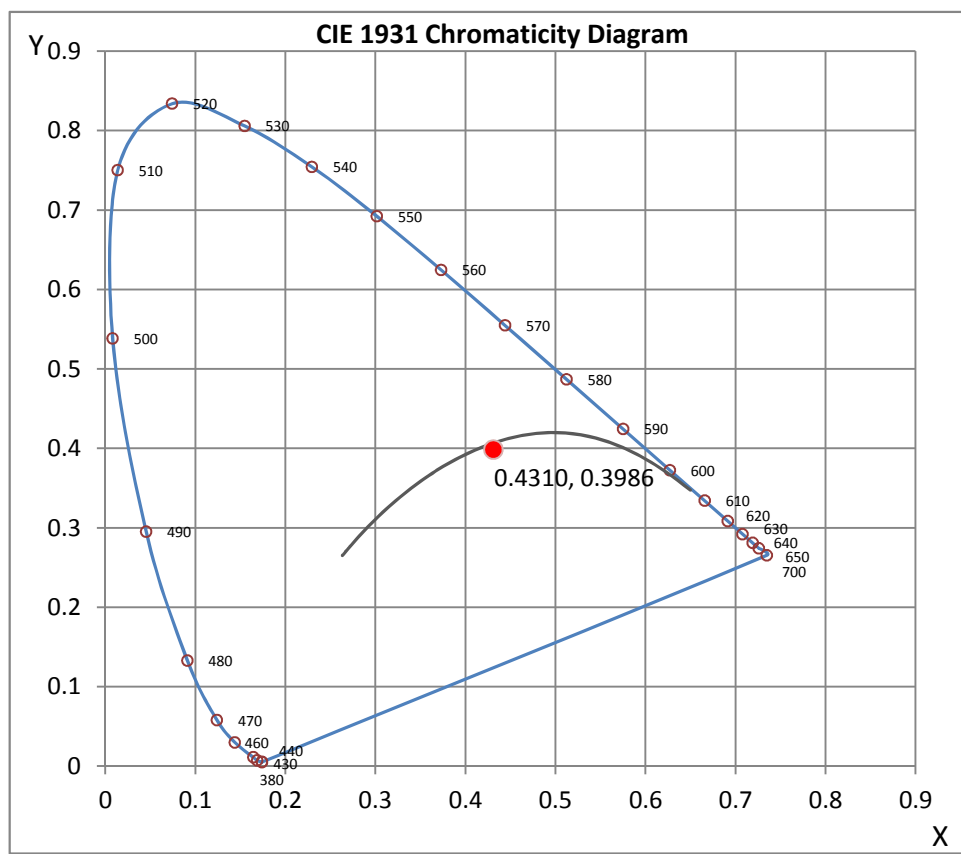
Wavelength	W/m <sup>2</sup> nm	440	0.0011	510	0.0015	580	0.0039	650	0.0023	720	0.0004
380	0.0002	450	0.0021	520	0.0018	590	0.0041	660	0.0019	730	0.0003
390	0.0001	460	0.0018	530	0.0021	600	0.0042	670	0.0015	740	0.0002
400	0.0000	470	0.0011	540	0.0024	610	0.0041	680	0.0011	750	0.0002
410	0.0001	480	0.0008	550	0.0027	620	0.0038	690	0.0009	760	0.0001
420	0.0002	490	0.0009	560	0.0031	630	0.0033	700	0.0007	770	0.0001
430	0.0005	500	0.0012	570	0.0035	640	0.0028	710	0.0005	780	0.0001

**CRI & CCT**

x	0.4310
y	0.3986
u'	0.2491
v'	0.5183
CRI	79.00
CCT	3058
Duv	-0.00137

**R Values**

R1	76.67
R2	88.64
R3	95.55
R4	75.06
R5	76.33
R6	84.74
R7	80.79
R8	54.31
R9	-3.91
R10	73.63
R11	71.93
R12	65.72
R13	79.86
R14	97.99





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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.

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*

*\*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 : L06134301.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L06134301  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 06/18/2013  
[MANUFAC] COLE LIGHTING  
[LUMCAT] L131  
[LUMINAIRE] 4-1/8"L. X 3-1/2"DIA. INDIRECT LED STEPLITE  
[MORE] TEMPERED GLASS SPREAD LENS  
[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, 3.96W  
[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	44
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	11
Total Luminaire Watts	3.96
Ballast Factor	1.00
Upward Waste Light Ratio	0.04
Maximum Candela	39.97
Maximum Candela Angle	0H 75V
Maximum Candela (<90 Degrees Vertical)	39.97
Maximum Candela Angle (<90 Degrees Vertical)	0H 75V
Maximum Candela At 90 Degrees Vertical	1.35 (3.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	10.41 (23.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L06134301.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3.6	N.A.	8.3
FM - Front-Medium (30-60)	16.6	N.A.	37.7
FH - Front-High (60-80)	17.2	N.A.	38.9
FVH - Front-Very High (80-90)	1.4	N.A.	3.2
BL - Back-Low (0-30)	1.4	N.A.	3.2
BM - Back-Medium (30-60)	1.3	N.A.	3.1
BH - Back-High (60-80)	0.6	N.A.	1.3
BVH - Back-Very High (80-90)	0.2	N.A.	0.3
UL - Uplight-Low (90-100)	0.6	N.A.	1.5
UH - Uplight-High (100-180)	1.2	N.A.	2.8
Total	44.1	N.A.	100.0
BUG Rating	B0-U1-G0		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L06134301.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>10</b></u>	<u><b>15</b></u>	<u><b>20</b></u>	<u><b>25</b></u>	<u><b>30</b></u>	<u><b>35</b></u>	<u><b>40</b></u>	<u><b>45</b></u>
<b>0</b>	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79
<b>5</b>	8.56	8.56	8.55	8.49	8.44	8.38	8.31	8.23	8.13	8.03
<b>10</b>	9.31	9.31	9.28	9.24	9.20	9.14	9.07	8.99	8.90	8.81
<b>15</b>	9.55	9.55	9.54	9.52	9.50	9.44	9.39	9.34	9.28	9.22
<b>20</b>	9.41	9.41	9.41	9.41	9.41	9.40	9.40	9.39	9.39	9.32
<b>25</b>	8.87	8.88	8.91	8.96	9.01	9.09	9.18	9.27	9.28	9.26
<b>30</b>	8.05	8.11	8.24	8.50	8.90	9.23	9.19	9.04	9.21	9.26
<b>35</b>	12.55	12.60	12.64	12.54	12.52	12.59	12.97	12.48	11.53	10.81
<b>40</b>	15.65	15.99	16.62	17.33	17.73	18.05	17.02	16.29	15.41	13.96
<b>45</b>	19.37	19.82	21.24	21.19	21.27	20.02	19.26	18.91	17.04	16.27
<b>50</b>	24.56	25.04	24.95	24.06	23.27	21.82	21.72	19.20	18.76	18.21
<b>55</b>	30.80	28.98	27.63	26.86	24.90	23.66	23.88	21.20	21.02	16.94
<b>60</b>	33.90	33.69	30.44	30.23	25.71	27.17	24.21	24.07	21.84	18.17
<b>65</b>	36.25	37.29	32.31	32.22	28.20	29.67	25.30	25.97	21.79	19.55
<b>70</b>	38.44	39.27	34.95	32.39	30.83	30.12	25.48	27.25	20.88	19.84
<b>75</b>	39.97	38.32	32.95	30.76	29.50	24.83	23.13	21.46	17.28	16.00
<b>80</b>	6.69	10.21	10.41	9.28	9.30	8.13	7.84	8.11	5.80	6.23
<b>85</b>	1.77	1.86	1.89	1.91	1.92	1.93	1.91	1.88	1.87	1.85
<b>90</b>	1.28	1.30	1.30	1.33	1.33	1.33	1.35	1.35	1.35	1.33
<b>95</b>	0.99	1.00	1.00	1.01	1.03	1.05	1.08	1.10	1.09	1.10
<b>100</b>	0.82	0.82	0.83	0.85	0.88	0.90	0.92	0.94	0.95	0.95
<b>105</b>	0.72	0.73	0.74	0.75	0.76	0.79	0.81	0.83	0.84	0.82
<b>110</b>	0.65	0.67	0.67	0.67	0.68	0.71	0.72	0.74	0.73	0.73
<b>115</b>	0.61	0.61	0.61	0.62	0.62	0.65	0.65	0.66	0.65	0.63
<b>120</b>	0.58	0.58	0.57	0.56	0.58	0.58	0.57	0.56	0.54	0.50
<b>125</b>	0.55	0.54	0.53	0.51	0.52	0.50	0.47	0.46	0.43	0.40
<b>130</b>	0.44	0.43	0.41	0.39	0.38	0.36	0.34	0.33	0.32	0.31
<b>135</b>	0.17	0.20	0.21	0.23	0.23	0.22	0.22	0.21	0.21	0.21
<b>140</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>50</b></u>	<u><b>55</b></u>	<u><b>60</b></u>	<u><b>65</b></u>	<u><b>70</b></u>	<u><b>75</b></u>	<u><b>80</b></u>	<u><b>85</b></u>	<u><b>90</b></u>	<u><b>95</b></u>
<b>0</b>	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79
<b>5</b>	7.91	7.79	7.67	7.53	7.39	7.25	7.10	6.95	6.80	6.71
<b>10</b>	8.70	8.59	8.48	8.20	7.92	7.63	7.33	7.04	6.74	6.56
<b>15</b>	9.10	8.92	8.74	8.55	8.36	7.95	7.52	7.08	6.65	6.39
<b>20</b>	9.21	9.10	8.96	8.72	8.47	8.21	7.67	7.11	6.55	6.21
<b>25</b>	9.22	9.11	8.94	8.77	8.48	8.16	7.72	7.07	6.43	6.01
<b>30</b>	9.09	9.01	8.86	8.65	8.45	8.09	7.74	7.00	6.28	5.80
<b>35</b>	10.07	9.16	8.89	8.46	8.24	7.96	7.60	6.90	6.07	5.55
<b>40</b>	12.31	10.95	9.62	8.42	7.94	7.69	7.33	6.70	5.85	5.26
<b>45</b>	13.89	11.51	10.12	8.83	7.76	7.34	6.97	6.42	5.58	4.94
<b>50</b>	15.06	13.06	11.08	9.06	7.66	6.97	6.53	6.08	5.22	4.56
<b>55</b>	16.06	14.25	10.26	8.89	7.51	6.53	6.01	5.63	4.88	4.19

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L06134301.IES**

**CANDELA TABULATION - (Cont.)**

<b>60</b>	17.52	13.16	10.20	8.88	7.22	5.99	5.45	5.16	4.50	3.75
<b>65</b>	17.47	13.26	10.94	8.61	6.58	5.57	4.75	4.50	3.96	3.19
<b>70</b>	15.88	12.32	10.58	7.61	5.89	4.67	3.82	3.71	3.16	2.49
<b>75</b>	12.50	10.11	8.23	5.59	4.74	3.49	2.82	2.68	2.23	1.83
<b>80</b>	4.91	4.55	3.82	2.97	2.62	2.21	1.96	1.76	1.38	1.15
<b>85</b>	1.79	1.77	1.71	1.57	1.49	1.39	1.27	1.11	0.70	0.58
<b>90</b>	1.30	1.26	1.19	1.11	1.06	0.97	0.87	0.68	0.31	0.24
<b>95</b>	1.09	1.05	1.02	0.96	0.88	0.81	0.70	0.53	0.21	0.15
<b>100</b>	0.93	0.91	0.87	0.82	0.75	0.69	0.61	0.46	0.21	0.16
<b>105</b>	0.80	0.77	0.73	0.67	0.62	0.56	0.50	0.40	0.19	0.16
<b>110</b>	0.71	0.66	0.60	0.54	0.50	0.45	0.38	0.28	0.17	0.16
<b>115</b>	0.60	0.54	0.49	0.44	0.40	0.36	0.31	0.26	0.17	0.17
<b>120</b>	0.47	0.44	0.40	0.37	0.33	0.30	0.27	0.23	0.17	0.17
<b>125</b>	0.38	0.34	0.32	0.30	0.28	0.25	0.23	0.20	0.17	0.17
<b>130</b>	0.29	0.28	0.26	0.24	0.22	0.21	0.20	0.18	0.17	0.17
<b>135</b>	0.22	0.21	0.20	0.19	0.19	0.19	0.18	0.17	0.17	0.17
<b>140</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	<b><u>100</u></b>	<b><u>105</u></b>	<b><u>110</u></b>	<b><u>115</u></b>	<b><u>120</u></b>	<b><u>125</u></b>	<b><u>130</u></b>	<b><u>135</u></b>	<b><u>140</u></b>	<b><u>145</u></b>
<b>0</b>	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79	6.79
<b>5</b>	6.62	6.53	6.44	6.36	6.28	6.20	6.13	6.06	6.00	5.94
<b>10</b>	6.38	6.20	6.03	5.87	5.71	5.51	5.32	5.15	4.99	4.85
<b>15</b>	6.14	5.88	5.65	5.29	4.97	4.67	4.38	4.05	3.70	3.38
<b>20</b>	5.88	5.57	5.09	4.65	4.22	3.66	3.12	2.61	2.16	1.88
<b>25</b>	5.60	5.10	4.54	3.97	3.23	2.52	1.95	1.54	1.16	0.84
<b>30</b>	5.33	4.66	4.00	3.13	2.27	1.66	1.16	0.76	0.52	0.30
<b>35</b>	4.97	4.21	3.35	2.36	1.61	1.00	0.62	0.35	0.20	0.16
<b>40</b>	4.58	3.76	2.71	1.74	1.07	0.60	0.29	0.18	0.14	0.13
<b>45</b>	4.18	3.27	2.12	1.29	0.67	0.34	0.18	0.12	0.12	0.12
<b>50</b>	3.75	2.76	1.60	0.89	0.46	0.22	0.15	0.14	0.13	0.12
<b>55</b>	3.33	2.28	1.26	0.58	0.30	0.18	0.14	0.14	0.14	0.14
<b>60</b>	2.88	1.82	0.95	0.45	0.22	0.14	0.14	0.15	0.14	0.14
<b>65</b>	2.36	1.41	0.71	0.34	0.19	0.14	0.15	0.14	0.14	0.14
<b>70</b>	1.85	1.06	0.51	0.27	0.18	0.16	0.15	0.16	0.16	0.15
<b>75</b>	1.35	0.75	0.37	0.23	0.17	0.17	0.17	0.18	0.18	0.18
<b>80</b>	0.89	0.53	0.28	0.21	0.17	0.18	0.18	0.19	0.20	0.20
<b>85</b>	0.48	0.33	0.21	0.19	0.19	0.19	0.20	0.20	0.21	0.22
<b>90</b>	0.24	0.22	0.19	0.19	0.19	0.19	0.21	0.22	0.22	0.22
<b>95</b>	0.17	0.17	0.17	0.17	0.19	0.21	0.21	0.22	0.23	0.24
<b>100</b>	0.15	0.16	0.17	0.17	0.19	0.21	0.21	0.21	0.23	0.24
<b>105</b>	0.15	0.17	0.17	0.18	0.19	0.21	0.22	0.22	0.23	0.23
<b>110</b>	0.17	0.17	0.18	0.18	0.19	0.20	0.21	0.22	0.22	0.22
<b>115</b>	0.16	0.17	0.18	0.18	0.18	0.19	0.20	0.20	0.21	0.22
<b>120</b>	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20	0.20	0.21
<b>125</b>	0.17	0.17	0.18	0.19	0.18	0.18	0.18	0.19	0.19	0.21
<b>130</b>	0.17	0.17	0.17	0.18	0.17	0.17	0.18	0.19	0.19	0.21



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : L06134301.IES**

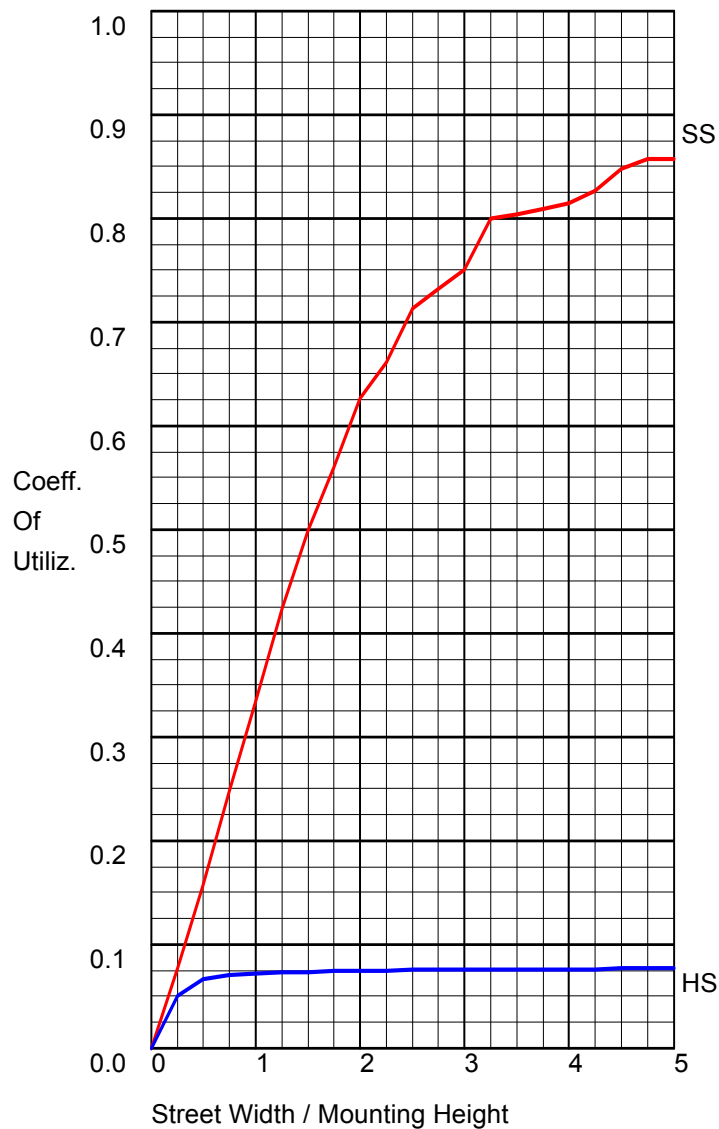
**CANDELA TABULATION - (Cont.)**

<b>135</b>	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.19	0.19	0.21
<b>140</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

	<b><u>150</u></b>	<b><u>155</u></b>	<b><u>160</u></b>	<b><u>165</u></b>	<b><u>170</u></b>	<b><u>175</u></b>	<b><u>180</u></b>
<b>0</b>	6.79	6.79	6.79	6.79	6.79	6.79	6.79
<b>5</b>	5.90	5.85	5.82	5.80	5.78	5.77	5.76
<b>10</b>	4.73	4.62	4.52	4.45	4.40	4.37	4.37
<b>15</b>	3.09	2.84	2.64	2.47	2.35	2.28	2.25
<b>20</b>	1.63	1.40	1.20	1.03	0.79	0.54	0.34
<b>25</b>	0.68	0.53	0.41	0.30	0.22	0.16	0.14
<b>30</b>	0.18	0.16	0.15	0.13	0.13	0.13	0.14
<b>35</b>	0.14	0.12	0.12	0.12	0.12	0.12	0.14
<b>40</b>	0.14	0.14	0.12	0.12	0.12	0.14	0.14
<b>45</b>	0.13	0.14	0.13	0.12	0.12	0.14	0.14
<b>50</b>	0.12	0.13	0.14	0.13	0.12	0.12	0.14
<b>55</b>	0.14	0.13	0.14	0.14	0.13	0.13	0.14
<b>60</b>	0.14	0.13	0.12	0.14	0.13	0.12	0.14
<b>65</b>	0.14	0.13	0.13	0.14	0.14	0.12	0.14
<b>70</b>	0.15	0.15	0.14	0.12	0.14	0.13	0.14
<b>75</b>	0.18	0.18	0.18	0.16	0.15	0.14	0.14
<b>80</b>	0.20	0.22	0.22	0.21	0.19	0.14	0.14
<b>85</b>	0.24	0.24	0.24	0.24	0.22	0.21	0.14
<b>90</b>	0.26	0.26	0.26	0.26	0.24	0.26	0.21
<b>95</b>	0.24	0.23	0.24	0.24	0.24	0.22	0.14
<b>100</b>	0.24	0.24	0.24	0.24	0.22	0.21	0.14
<b>105</b>	0.23	0.23	0.23	0.22	0.22	0.21	0.21
<b>110</b>	0.22	0.22	0.22	0.22	0.21	0.24	0.24
<b>115</b>	0.22	0.22	0.22	0.22	0.24	0.27	0.27
<b>120</b>	0.22	0.22	0.24	0.25	0.27	0.29	0.27
<b>125</b>	0.22	0.23	0.25	0.27	0.28	0.29	0.27
<b>130</b>	0.21	0.23	0.25	0.27	0.27	0.27	0.27
<b>135</b>	0.22	0.23	0.24	0.25	0.25	0.26	0.27
<b>140</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>145</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>155</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>175</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00

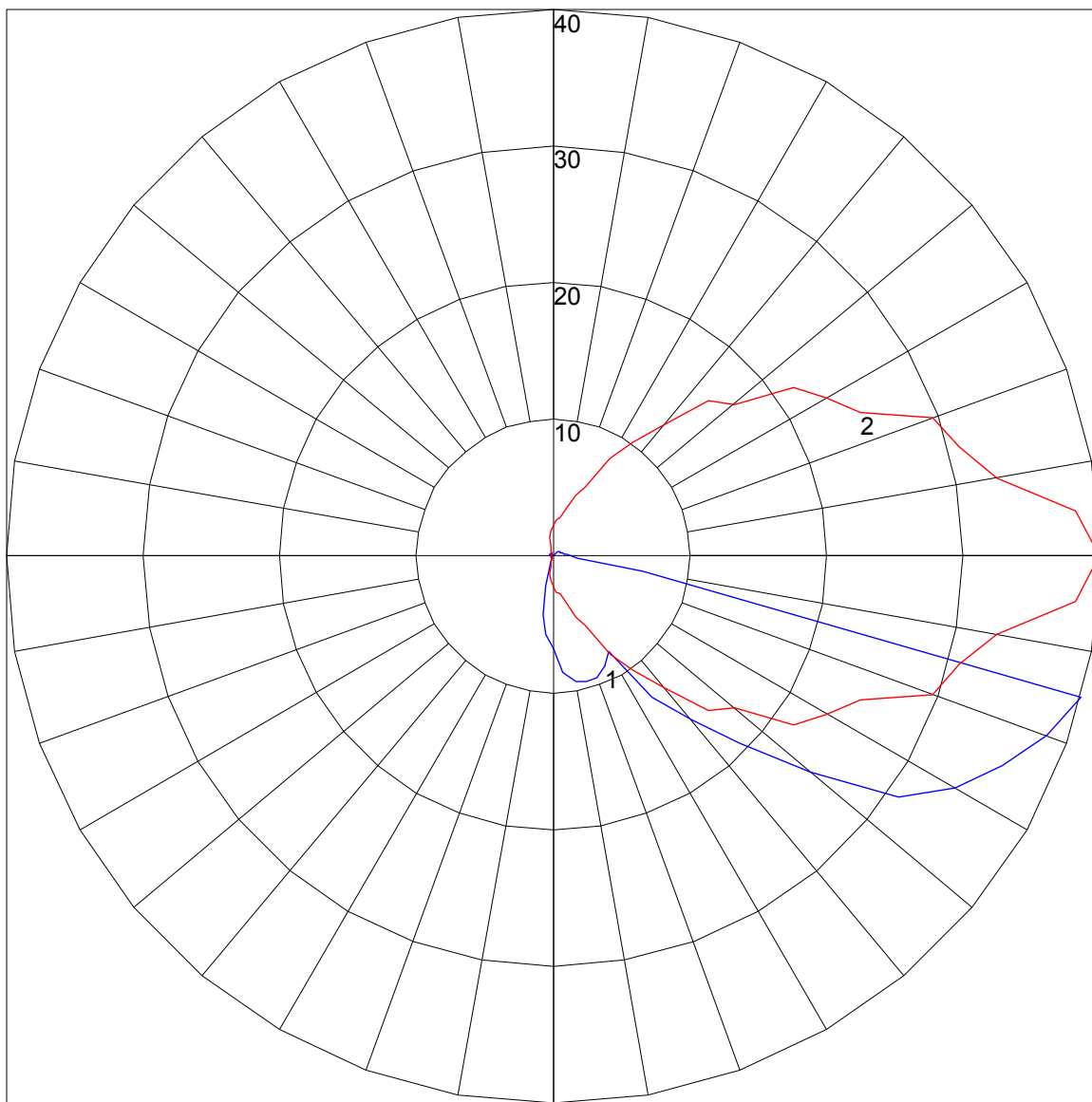
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

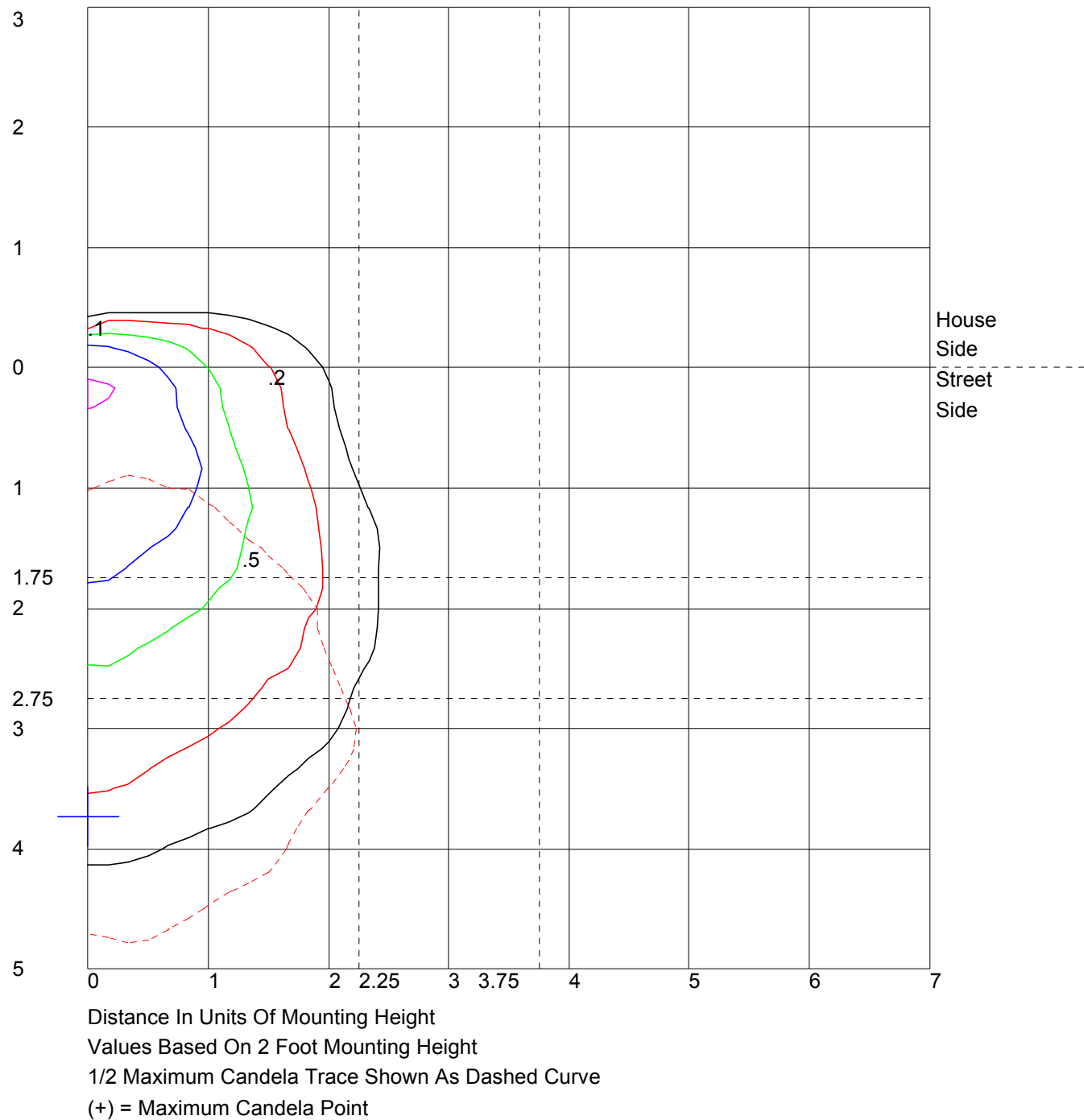
	Lumens	Percent Of Luminaire
Downward Street Side	38.8	87.9
Downward House Side	3.5	7.8
Downward Total	42.3	95.7
Upward Street Side	1.4	3.2
Upward House Side	0.5	1.1
Upward Total	1.9	4.3
Total Flux	44.2	100.0

POLAR GRAPH

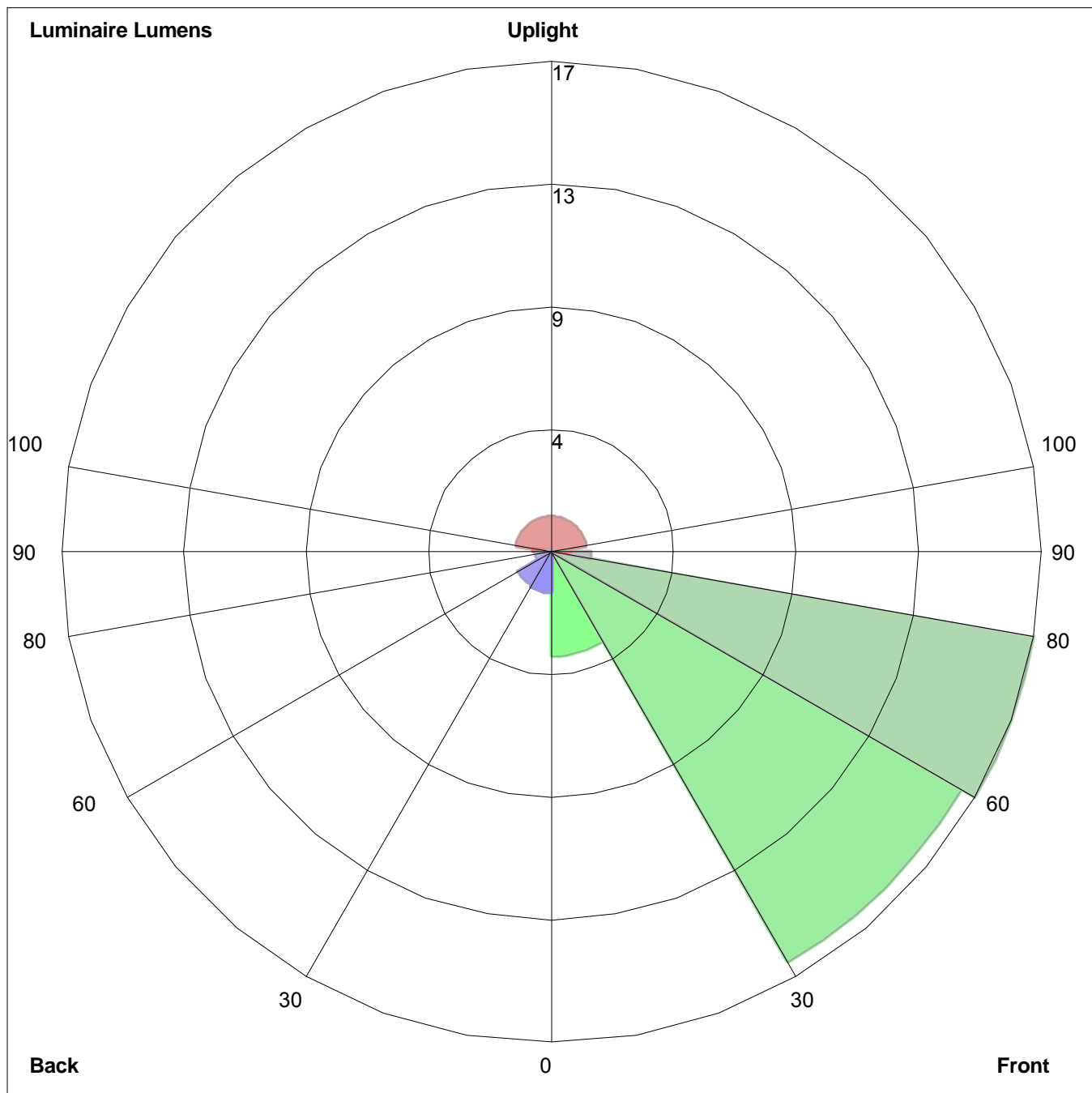


Maximum Candela = 39.97 Located At Horizontal Angle = 0, Vertical Angle = 75  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (75) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=3.6, Medium=16.6, High=17.2, Very High=1.4  
Back: Low=1.4, Medium=1.3, High=0.6, Very High=0.2  
Uplight: Low=0.6, High=1.2

BUG Rating : B0-U1-G0