



## IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-FTR-LED-23L-45.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3050

[TESTLAB] TUV SUD America

[TESTDATE] 2/9/2017 2:19:18 PM

[ISSUE DATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[\_SEARCH\_SOURCE TYPE] LED

[\_SEARCH\_APPLICATION] Outdoor

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[\_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[LUMCAT] TEL22-FTR-LED-23L-45

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24921
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	221.83
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11219
Maximum Candela Angle	340H 65V
Maximum Candela (<90 Degrees Vertical)	11219
Maximum Candela Angle (<90 Degrees Vertical)	340H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1596 (6.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : TEL22-FTR-LED-23L-45.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2153.6	N.A.	8.6
FM - Front-Medium (30-60)	5841.9	N.A.	23.4
FH - Front-High (60-80)	4395.3	N.A.	17.6
FVH - Front-Very High (80-90)	69.9	N.A.	0.3
BL - Back-Low (0-30)	2153.6	N.A.	8.6
BM - Back-Medium (30-60)	5841.9	N.A.	23.4
BH - Back-High (60-80)	4395.3	N.A.	17.6
BVH - Back-Very High (80-90)	69.9	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	24921.4	N.A.	100.0
BUG Rating	B4-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0</b>	5933	5933	5933	5933	5933	5933	5933	5933	5933	5933
<b>5</b>	5828	5702	5594	5501	5419	5357	5309	5281	5264	5260
<b>10</b>	5545	5283	5084	4932	4823	4754	4721	4700	4701	4696
<b>15</b>	5126	4736	4479	4320	4242	4205	4200	4198	4210	4206
<b>20</b>	4640	4161	3882	3763	3750	3753	3765	3760	3753	3750
<b>25</b>	4252	3709	3432	3364	3373	3389	3385	3381	3370	3368
<b>30</b>	4139	3514	3205	3131	3135	3127	3127	3091	3068	3071
<b>35</b>	4325	3629	3189	3004	2956	2950	2926	2967	3037	3085
<b>40</b>	4802	4017	3371	2976	2826	2811	2948	3127	3250	3336
<b>45</b>	5419	4565	3687	3057	2727	2724	2972	3271	3412	3581
<b>50</b>	6051	5180	4064	3189	2642	2553	2856	3140	3163	3193
<b>55</b>	6668	5635	4359	3276	2536	2292	2595	2882	2811	2736
<b>60</b>	6828	5664	4306	3199	2317	1993	2297	2574	2443	2308
<b>65</b>	6438	4921	3817	2687	1936	1710	1910	2100	2003	1888
<b>70</b>	4270	2730	2176	1607	1303	1303	1564	1652	1530	1451
<b>75</b>	718	627	674	684	688	887	1075	1093	991	918
<b>80</b>	166	165	193	216	232	302	391	430	381	366
<b>85</b>	30	24	23	24	25	30	32	35	36	35
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>170</b>	<b>180</b>	<b>190</b>
<b>0</b>	5933	5933	5933	5933	5933	5933	5933	5933	5933	5933
<b>5</b>	5264	5281	5309	5357	5419	5501	5594	5702	5828	5990
<b>10</b>	4701	4700	4721	4754	4823	4932	5084	5283	5545	5832
<b>15</b>	4210	4198	4200	4205	4242	4320	4479	4736	5126	5569
<b>20</b>	3753	3760	3765	3753	3750	3763	3882	4161	4640	5232
<b>25</b>	3370	3381	3385	3389	3373	3364	3432	3709	4252	4958
<b>30</b>	3068	3091	3127	3127	3135	3131	3205	3514	4139	4908
<b>35</b>	3037	2967	2926	2950	2956	3004	3189	3629	4325	5147
<b>40</b>	3250	3127	2948	2811	2826	2976	3371	4017	4802	5595
<b>45</b>	3412	3271	2972	2724	2727	3057	3687	4565	5419	6169
<b>50</b>	3163	3140	2856	2553	2642	3189	4064	5180	6051	6834
<b>55</b>	2811	2882	2595	2292	2536	3276	4359	5635	6668	7544

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	2443	2574	2297	1993	2317	3199	4306	5664	6828	8404
<b>65</b>	2003	2100	1910	1710	1936	2687	3817	4921	6438	9285
<b>70</b>	1530	1652	1564	1303	1303	1607	2176	2730	4270	6972
<b>75</b>	991	1093	1075	887	688	684	674	627	718	1368
<b>80</b>	381	430	391	302	232	216	193	165	166	238
<b>85</b>	36	35	32	30	25	24	23	24	30	47
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0
<b>135</b>	0	0	0	0	0	0	0	0	0	0
<b>140</b>	0	0	0	0	0	0	0	0	0	0
<b>145</b>	0	0	0	0	0	0	0	0	0	0
<b>150</b>	0	0	0	0	0	0	0	0	0	0
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

**Vert.  
Angles**

**Horizontal Angles**

	<b><u>200</u></b>	<b><u>210</u></b>	<b><u>220</u></b>	<b><u>230</u></b>	<b><u>240</u></b>	<b><u>250</u></b>	<b><u>260</u></b>	<b><u>270</u></b>	<b><u>280</u></b>	<b><u>290</u></b>
<b>0</b>	5933	5933	5933	5933	5933	5933	5933	5933	5933	5933
<b>5</b>	6089	6191	6293	6373	6445	6503	6529	6551	6529	6503
<b>10</b>	6056	6270	6474	6649	6804	6922	7002	7043	7002	6922
<b>15</b>	5935	6287	6572	6776	6932	7058	7182	7238	7182	7058
<b>20</b>	5753	6224	6557	6793	6916	7003	7142	7208	7142	7003
<b>25</b>	5584	6069	6417	6634	6639	6573	6594	6624	6594	6573
<b>30</b>	5556	6007	6265	6402	6377	6257	6217	6221	6217	6257
<b>35</b>	5762	6135	6339	6438	6456	6433	6470	6490	6470	6433
<b>40</b>	6171	6468	6597	6652	6694	6702	6887	6902	6887	6702
<b>45</b>	6678	6855	6826	6870	6868	6917	6987	6687	6987	6917
<b>50</b>	7263	7271	7163	7021	6803	6720	6636	6432	6636	6720
<b>55</b>	8060	7826	7613	7230	7064	6927	6842	6467	6842	6927
<b>60</b>	9402	9126	8396	7864	7844	7665	7411	6968	7411	7665
<b>65</b>	11219	11032	10107	9419	9394	8938	8055	7485	8055	8938
<b>70</b>	8398	8633	9949	10688	11053	10621	9012	8183	9012	10621
<b>75</b>	1488	1737	2839	7288	10342	8225	5900	5000	5900	8225
<b>80</b>	287	350	416	939	1596	819	466	316	466	819
<b>85</b>	48	45	46	57	49	39	36	35	36	39
<b>90</b>	0	0	0	0	0	0	0	0	0	0
<b>95</b>	0	0	0	0	0	0	0	0	0	0
<b>100</b>	0	0	0	0	0	0	0	0	0	0
<b>105</b>	0	0	0	0	0	0	0	0	0	0
<b>110</b>	0	0	0	0	0	0	0	0	0	0
<b>115</b>	0	0	0	0	0	0	0	0	0	0
<b>120</b>	0	0	0	0	0	0	0	0	0	0
<b>125</b>	0	0	0	0	0	0	0	0	0	0
<b>130</b>	0	0	0	0	0	0	0	0	0	0

**IES ROAD REPORT**  
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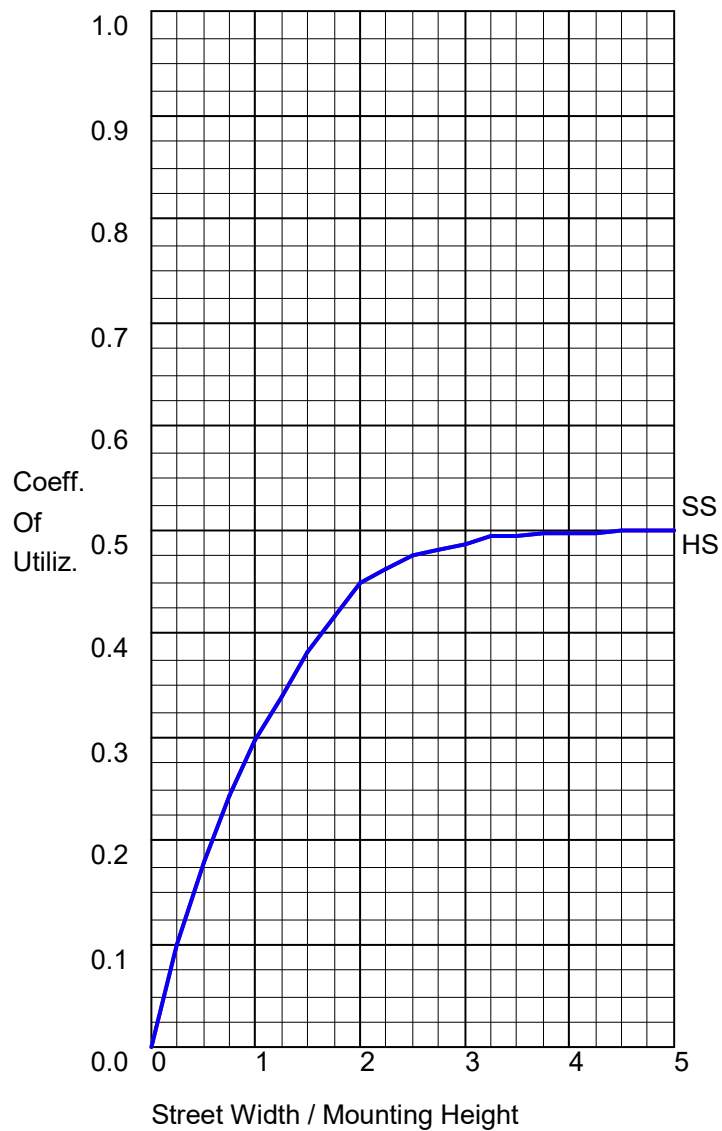
**CANDELA TABULATION - (Cont.)**

135	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

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

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	5933	5933	5933	5933	5933	5933	5933
5	6445	6373	6293	6191	6089	5990	5828
10	6804	6649	6474	6270	6056	5832	5545
15	6932	6776	6572	6287	5935	5569	5126
20	6916	6793	6557	6224	5753	5232	4640
25	6639	6634	6417	6069	5584	4958	4252
30	6377	6402	6265	6007	5556	4908	4139
35	6456	6438	6339	6135	5762	5147	4325
40	6694	6652	6597	6468	6171	5595	4802
45	6868	6870	6826	6855	6678	6169	5419
50	6803	7021	7163	7271	7263	6834	6051
55	7064	7230	7613	7826	8060	7544	6668
60	7844	7864	8396	9126	9402	8404	6828
65	9394	9419	10107	11032	11219	9285	6438
70	11053	10688	9949	8633	8398	6972	4270
75	10342	7288	2839	1737	1488	1368	718
80	1596	939	416	350	287	238	166
85	49	57	46	45	48	47	30
90	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

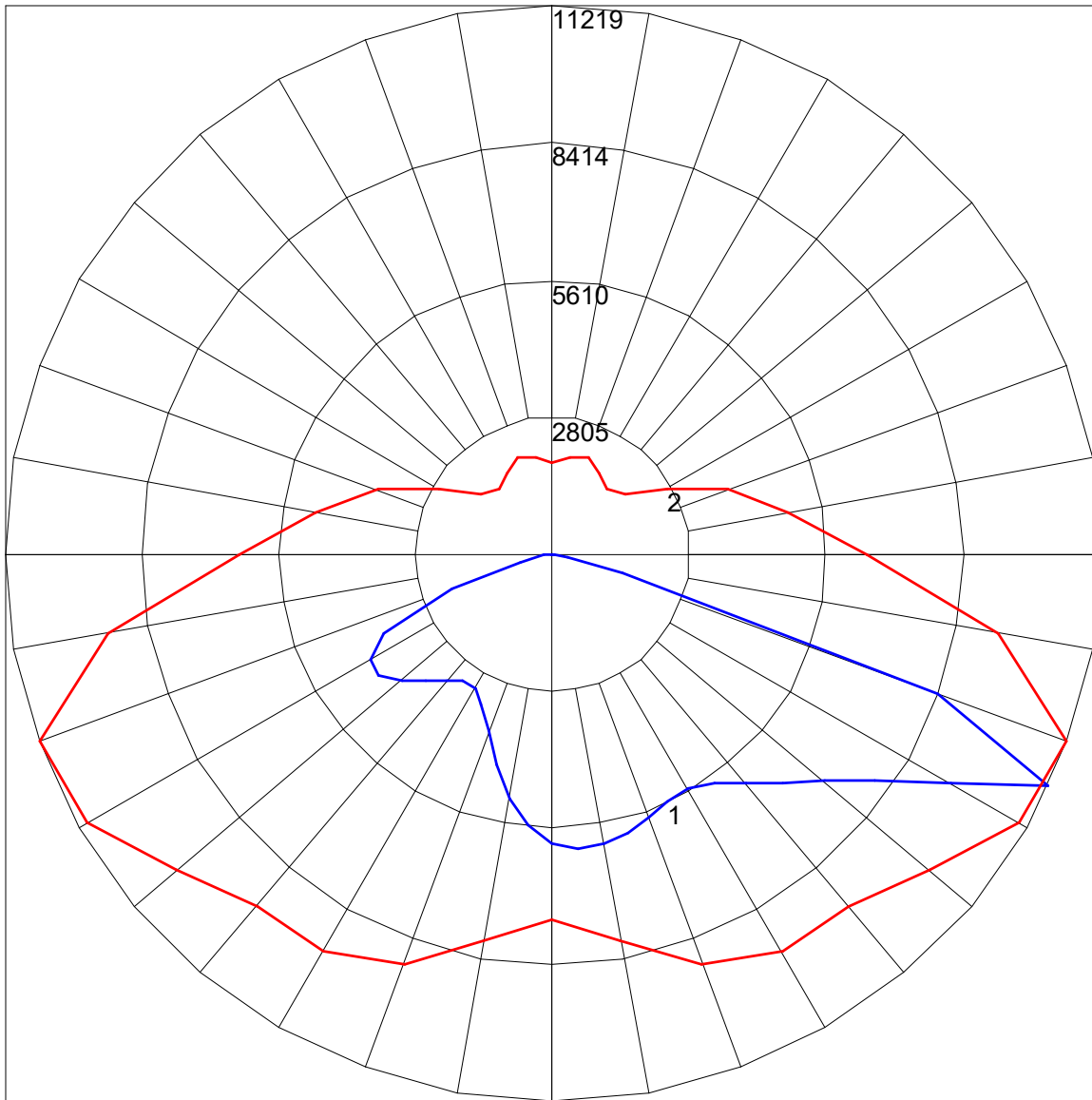
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

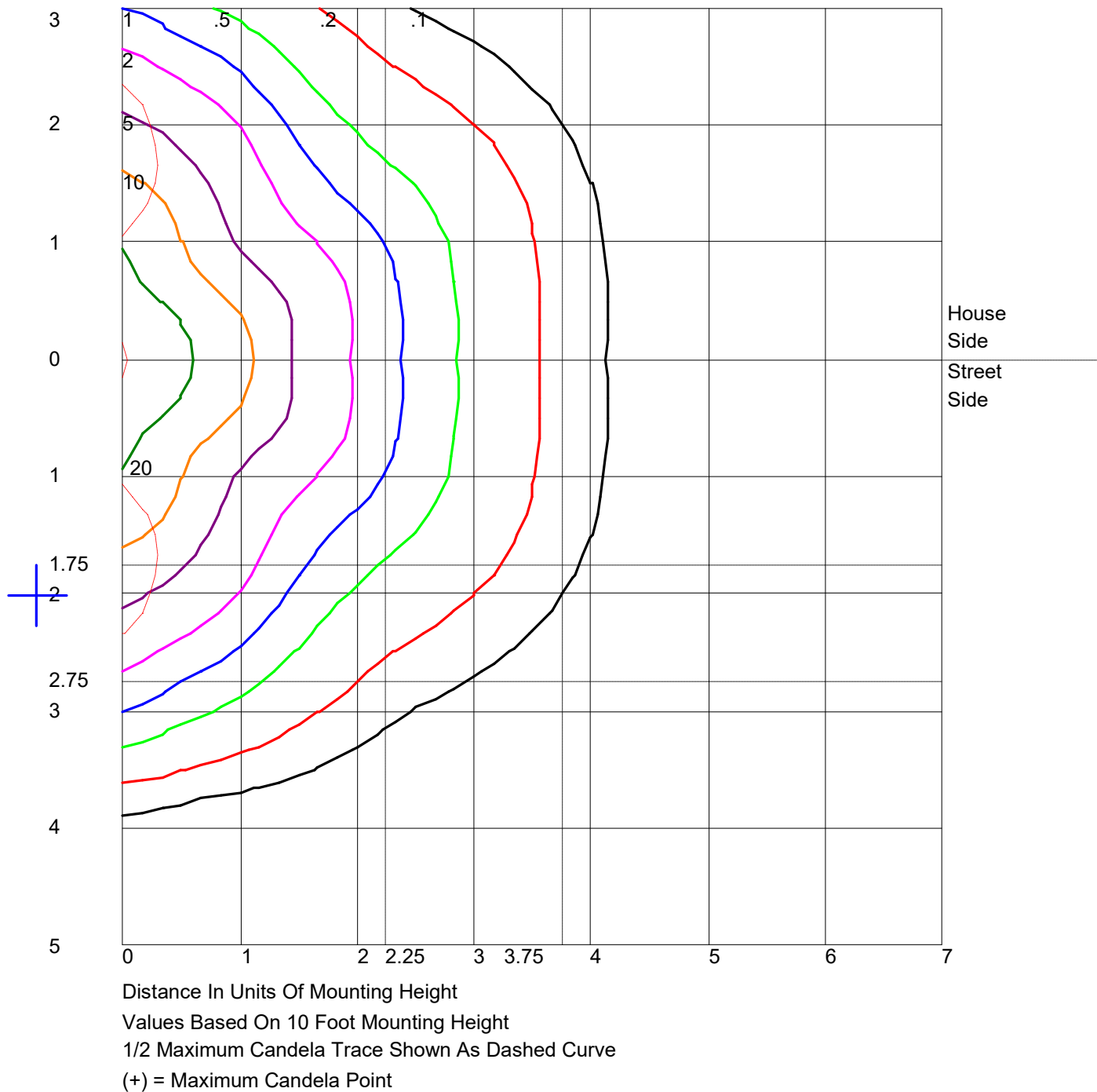
	Lumens	Percent Of Luminaire
Downward Street Side	12460.7	50.0
Downward House Side	12460.7	50.0
Downward Total	24921.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	24921.4	100.0

POLAR GRAPH



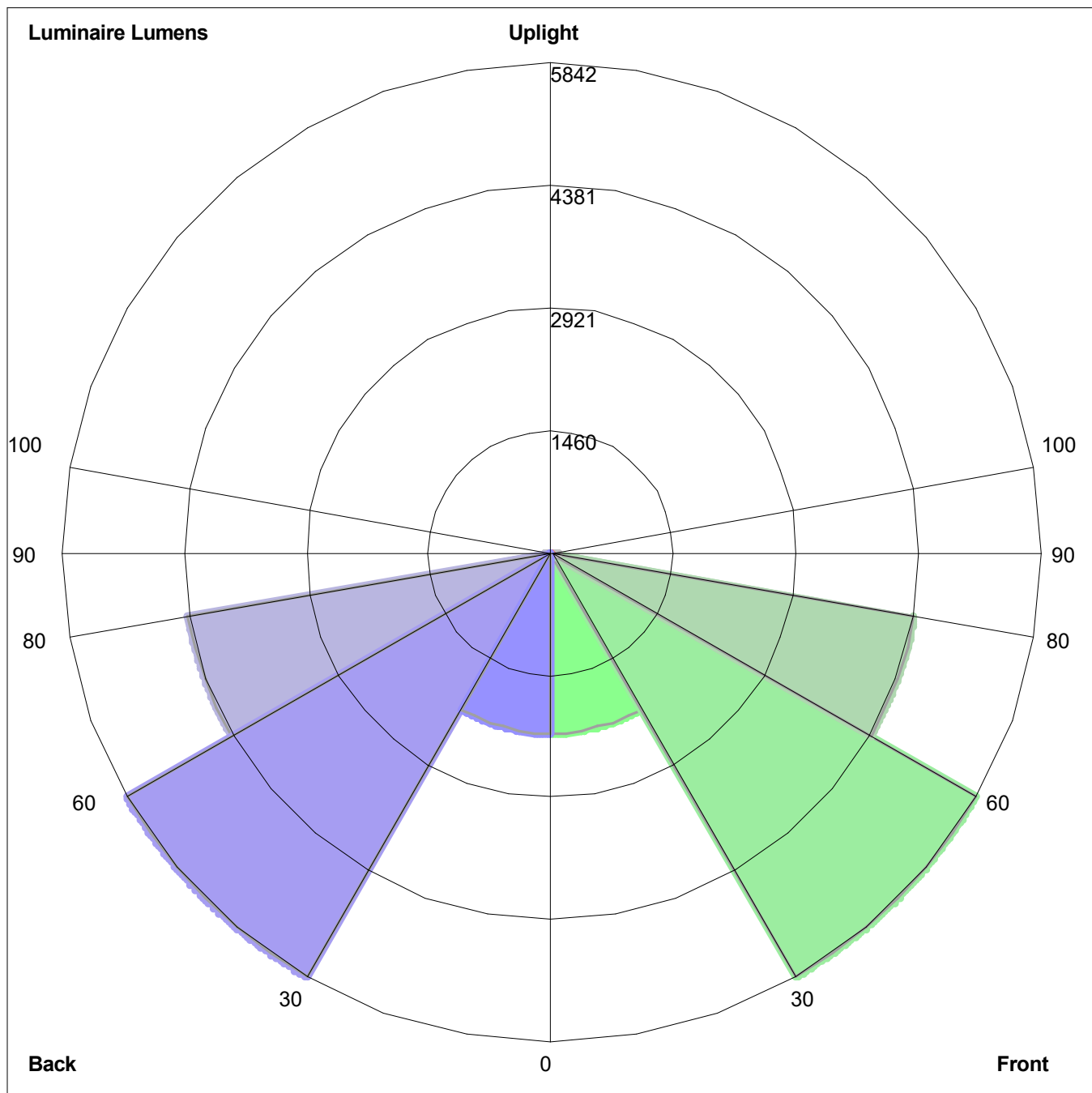
Maximum Candela = 11219 Located At Horizontal Angle = 340, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (340 - 160) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2153.6, Medium=5841.9, High=4395.3, Very High=69.9  
Back: Low=2153.6, Medium=5841.9, High=4395.3, Very High=69.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4