



## IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4L-LED-34L-45.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 2,912

[TESTLAB] TUV SUD America

[TESTDATE] 5/10/2016 1:39:37 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] TEL22-4L-LED-34L-45

### CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30849
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	300.32
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15848
Maximum Candela Angle	140H 70V
Maximum Candela (<90 Degrees Vertical)	15848
Maximum Candela Angle (<90 Degrees Vertical)	140H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	6803 (22.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2336.1	N.A.	7.6
FM - Front-Medium (30-60)	6816.0	N.A.	22.1
FH - Front-High (60-80)	4873.6	N.A.	15.8
FVH - Front-Very High (80-90)	206.2	N.A.	0.7
BL - Back-Low (0-30)	2454.6	N.A.	8.0
BM - Back-Medium (30-60)	7838.0	N.A.	25.4
BH - Back-High (60-80)	6024.1	N.A.	19.5
BVH - Back-Very High (80-90)	300.6	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	30849.2	N.A.	100.0
BUG Rating	B5-U0-G5		

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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>	5284	5284	5284	5284	5284	5284	5284	5284	5284	5284
<b>5</b>	5286	5330	5373	5426	5464	5507	5541	5567	5585	5594
<b>10</b>	5266	5356	5448	5525	5604	5682	5771	5838	5890	5912
<b>15</b>	5314	5465	5585	5671	5754	5843	5992	6120	6230	6271
<b>20</b>	5410	5620	5763	5883	5974	6035	6127	6323	6499	6592
<b>25</b>	5470	5753	5978	6140	6232	6288	6398	6609	6788	6848
<b>30</b>	5391	5722	5966	6229	6498	6581	6704	6880	7006	7103
<b>35</b>	5556	5978	6273	6372	6433	6879	7047	7228	7365	7505
<b>40</b>	5745	6322	6616	6676	6744	6856	7415	7636	7849	7941
<b>45</b>	5994	6771	7042	7119	7099	7159	7644	8040	8401	8575
<b>50</b>	6148	7212	7745	7850	7557	7528	7736	8510	8934	9262
<b>55</b>	6586	7934	8519	8391	8229	8004	8514	9559	10225	10488
<b>60</b>	6396	8187	8992	9313	8649	8886	9765	10570	11661	11863
<b>65</b>	5329	7259	8621	9820	10362	10231	11221	11211	11733	11336
<b>70</b>	3616	5882	7789	9928	11777	12293	9654	9464	9175	8607
<b>75</b>	1720	3867	5967	8843	10140	10483	7479	4753	3306	2946
<b>80</b>	293	823	2264	4131	5092	4390	1763	1209	894	796
<b>85</b>	42	55	77	189	454	327	199	158	137	136
<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>	5284	5284	5284	5284	5284	5284	5284	5284	5284	5284
<b>5</b>	5585	5582	5562	5540	5508	5469	5429	5376	5347	5274
<b>10</b>	5906	5874	5815	5756	5693	5644	5592	5509	5473	5350
<b>15</b>	6251	6168	6089	6012	5982	5929	5851	5744	5670	5479
<b>20</b>	6541	6453	6347	6356	6363	6293	6169	6022	5863	5613
<b>25</b>	6848	6817	6774	6786	6786	6691	6520	6292	6096	5786
<b>30</b>	7135	7177	7234	7203	7159	7094	6907	6612	6328	5957
<b>35</b>	7571	7675	7731	7641	7509	7448	7354	7002	6619	6104
<b>40</b>	8071	8197	8176	7994	7918	7897	7865	7517	6907	6270
<b>45</b>	8620	8620	8613	8447	8475	8564	8545	8234	7440	6596
<b>50</b>	9225	9103	8958	8895	9092	9559	9756	9255	8127	7045
<b>55</b>	10561	10128	9859	9575	10027	10743	10754	9968	8316	6691

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**CANDELA TABULATION - (Cont.)**

<b>60</b>	11875	11714	11287	10730	11189	11775	11287	10110	7857	5192
<b>65</b>	12009	12548	12837	12831	13013	12791	11498	9366	6262	3471
<b>70</b>	9401	10703	12116	15338	15848	12371	10540	7978	4106	2048
<b>75</b>	3673	5641	9543	13494	13343	10997	8027	5135	1860	1224
<b>80</b>	1031	1551	2524	6005	6803	5249	3393	2016	568	513
<b>85</b>	147	203	306	513	619	402	255	220	65	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>	5284	5284	5284	5284	5284	5284	5284	5284	5284	5284
<b>5</b>	5220	5159	5104	5048	5007	4981	4961	4948	4949	4957
<b>10</b>	5231	5119	5027	4957	4916	4895	4883	4876	4859	4840
<b>15</b>	5299	5165	5096	5053	5019	5005	4995	4977	4956	4925
<b>20</b>	5400	5289	5242	5206	5169	5142	5111	5093	5070	5040
<b>25</b>	5547	5447	5399	5357	5331	5302	5251	5262	5200	5180
<b>30</b>	5702	5603	5556	5517	5500	5481	5434	5447	5383	5342
<b>35</b>	5825	5754	5701	5662	5527	5305	5144	5109	5106	5195
<b>40</b>	5956	5839	5655	5224	4801	4471	4277	4276	4227	4315
<b>45</b>	6109	5582	4945	4378	3924	3612	3424	3363	3350	3412
<b>50</b>	5821	4685	3922	3480	3286	3302	3243	3153	3109	2967
<b>55</b>	4676	3554	3094	3130	3290	3533	3509	3447	3340	3002
<b>60</b>	3247	2859	2814	3005	3329	3637	3538	3403	3377	3016
<b>65</b>	2576	2593	2626	2760	3011	3395	3411	3282	3159	2702
<b>70</b>	2152	2199	2090	2363	2627	2863	2740	2641	2453	2301
<b>75</b>	1418	1497	1462	1541	1626	1693	1562	1506	1387	1278
<b>80</b>	566	617	581	492	473	450	377	344	331	342
<b>85</b>	45	35	28	18	14	12	11	11	8	9
<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**  
**PHOTOMETRIC FILENAME : TEL22-4L-LED-34L-45.IES**

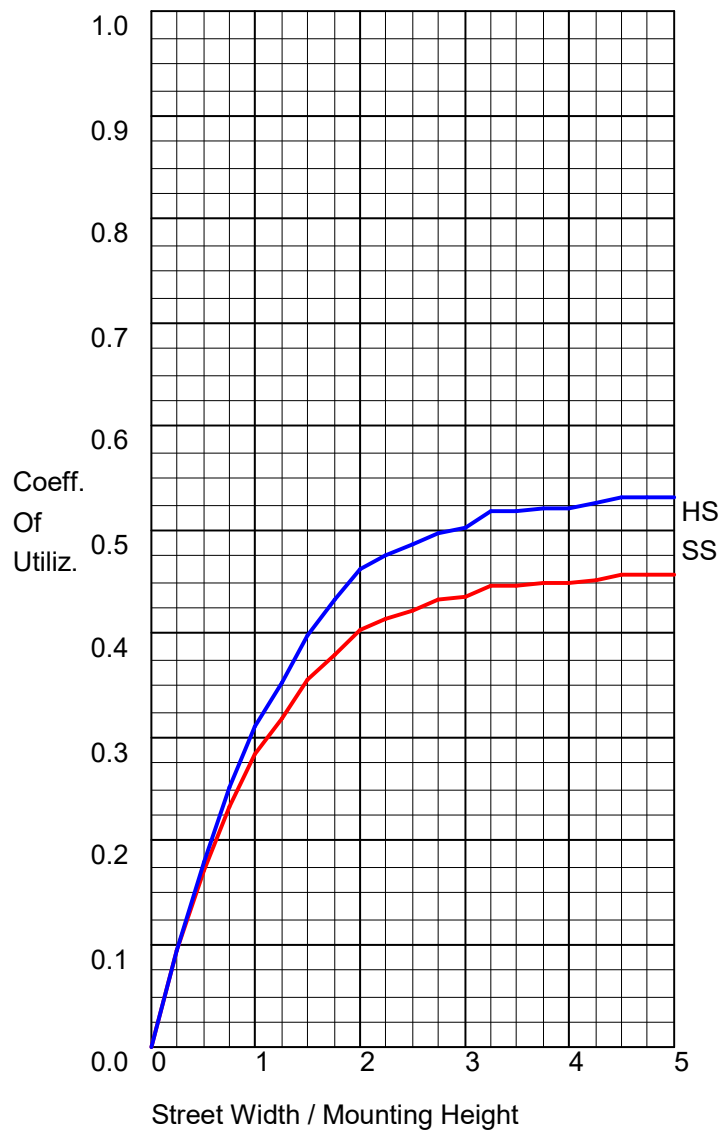
**CANDELA TABULATION - (Cont.)**

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. Horizontal Angles**  
**Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
0	5284	5284	5284	5284	5284	5284	5284
5	4971	5006	5053	5110	5167	5222	5286
10	4832	4841	4889	4968	5070	5183	5266
15	4891	4872	4871	4915	5022	5190	5314
20	5007	4985	4942	4936	5018	5226	5410
25	5138	5074	5029	5010	5008	5123	5470
30	5258	5185	5038	4876	4921	5120	5391
35	5287	5165	4953	4933	4974	5189	5556
40	4523	4639	4892	4951	5018	5268	5745
45	3491	3799	4264	4772	5107	5466	5994
50	2777	2918	3330	3918	4686	5504	6148
55	2710	2577	2430	2831	3805	5406	6586
60	2708	2385	2156	2131	2491	4046	6396
65	2342	2121	1890	1793	1742	2643	5329
70	2096	1614	1435	1434	1344	1326	3616
75	1250	1032	937	890	776	602	1720
80	345	321	342	300	189	119	293
85	11	12	12	11	9	8	42
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

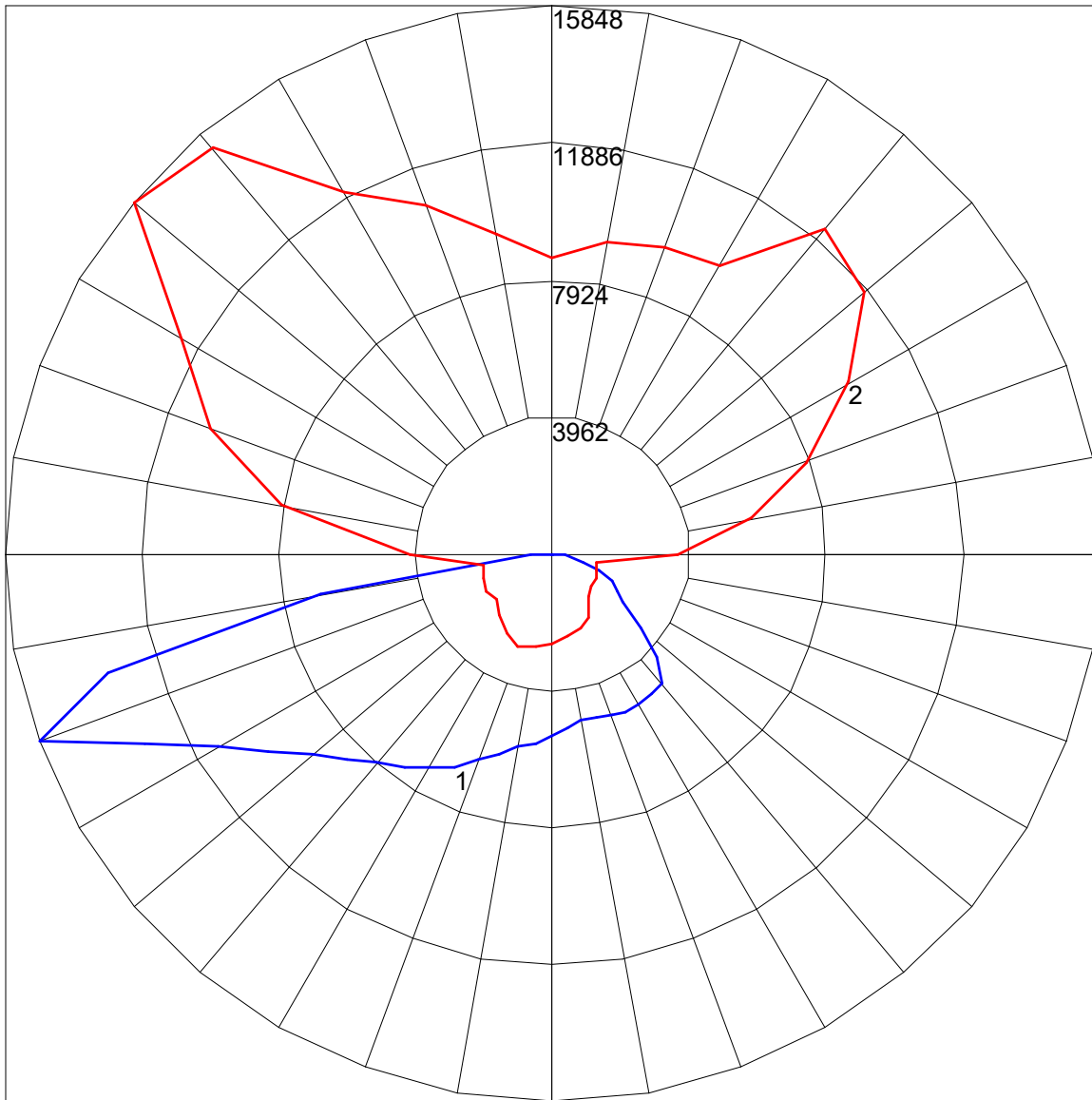
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

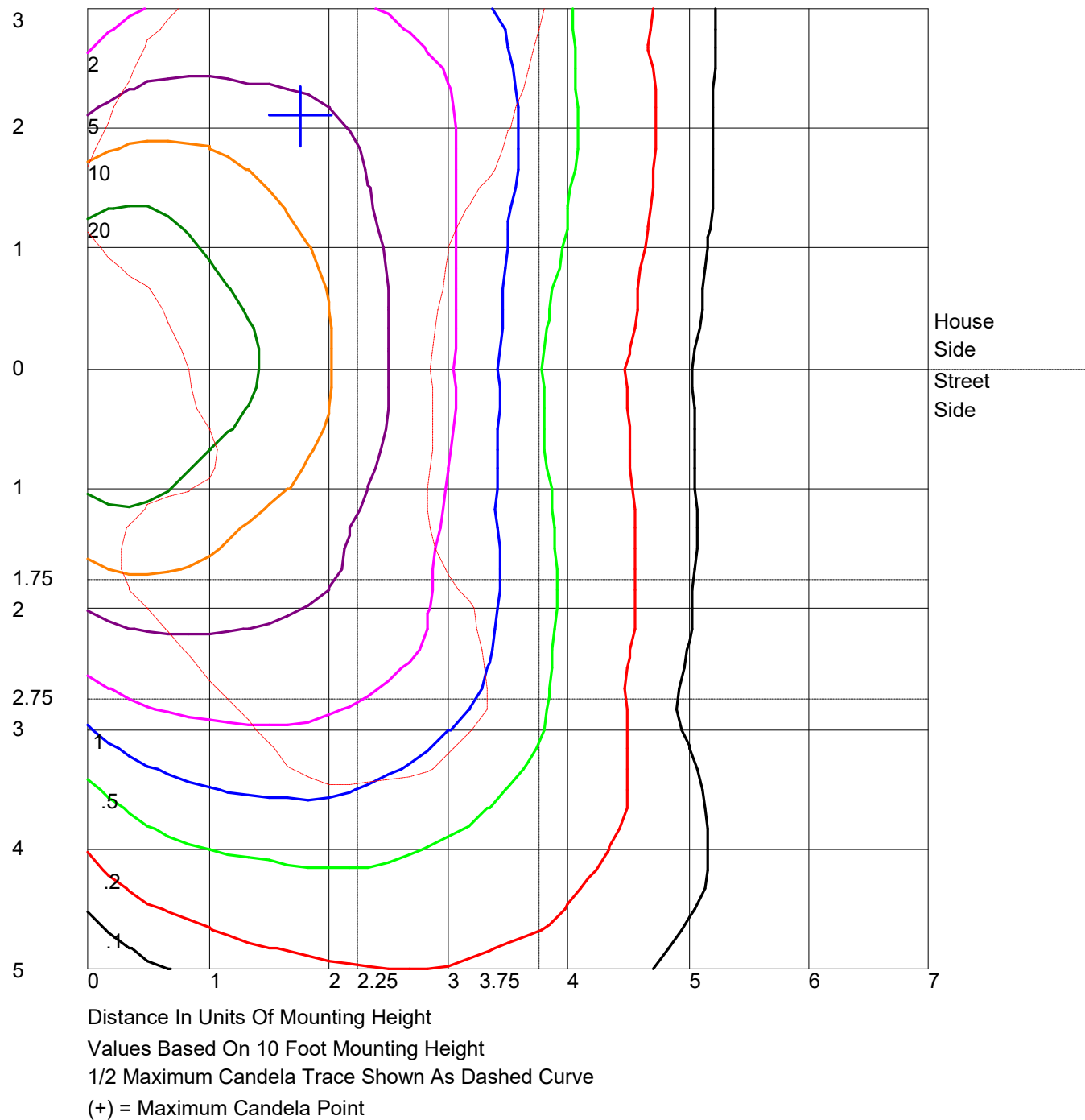
	Lumens	Percent Of Luminaire
Downward Street Side	14231.9	46.1
Downward House Side	16617.3	53.9
Downward Total	30849.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30849.2	100.0

POLAR GRAPH



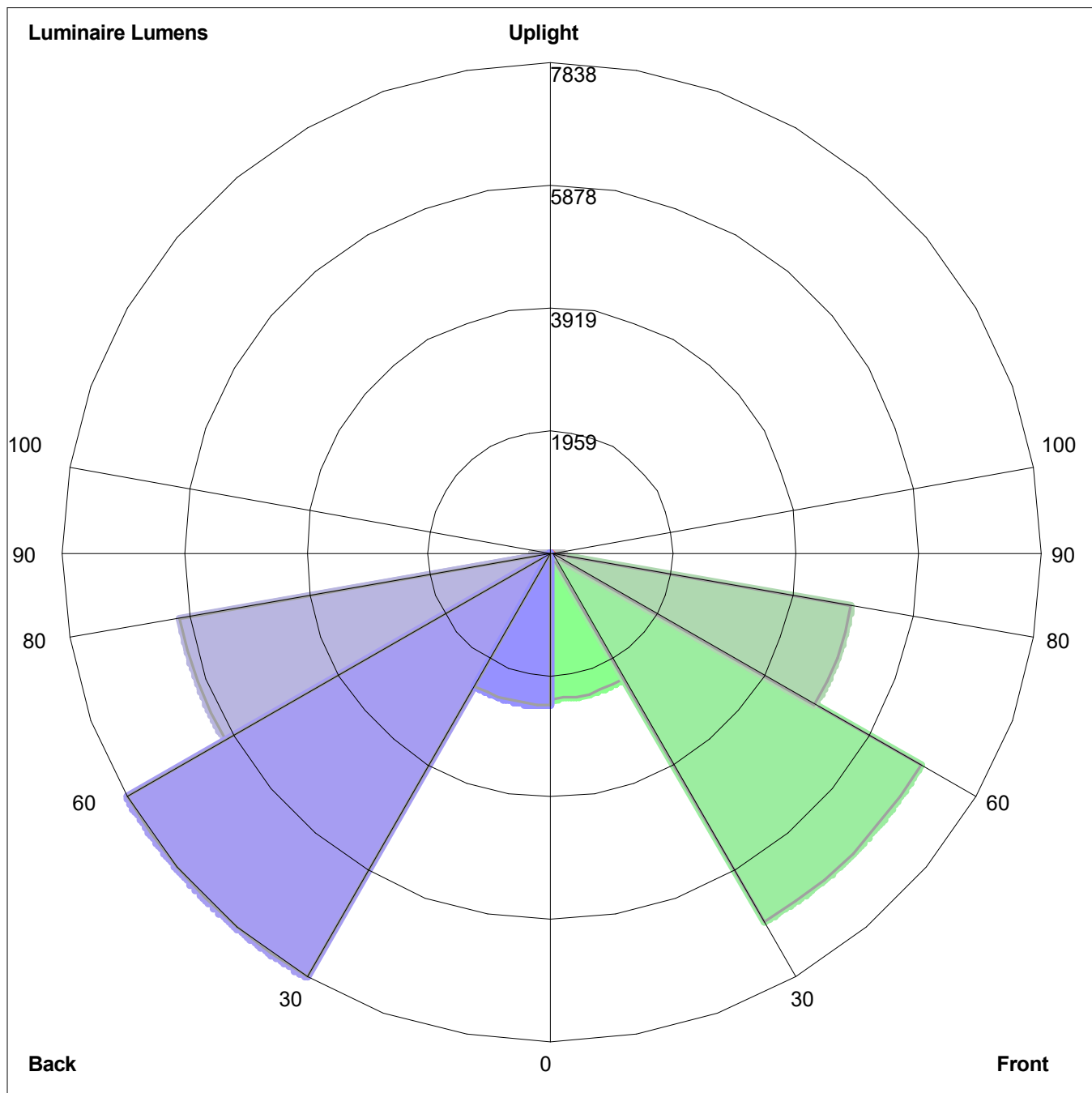
Maximum Candela = 15848 Located At Horizontal Angle = 140, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (140 - 320) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2336.1, Medium= 6816.0, High=4873.6, Very High=206.2  
Back: Low=2454.6, Medium= 7838.0, High=6024.1, Very High=300.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G5