



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4-LED-26L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3036

[TESTLAB] TUV SUD America

[TESTDATE] 1/13/2017 3:47:37 PM

[ISSUEDATE] 11/15/2019

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] TEL22-4-LED-26L-45

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

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

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27096
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	265.13
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16155
Maximum Candela Angle	310H 70V
Maximum Candela (<90 Degrees Vertical)	16155
Maximum Candela Angle (<90 Degrees Vertical)	310H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4822 (17.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2152.3	N.A.	7.9
FM - Front-Medium (30-60)	8397.4	N.A.	31.0
FH - Front-High (60-80)	8320.2	N.A.	30.7
FVH - Front-Very High (80-90)	267.4	N.A.	1.0
BL - Back-Low (0-30)	1830.7	N.A.	6.8
BM - Back-Medium (30-60)	4335.7	N.A.	16.0
BH - Back-High (60-80)	1740.2	N.A.	6.4
BVH - Back-Very High (80-90)	52.3	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	27096.2	N.A.	100.0
BUG Rating	B3-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361
5	4640	4594	4572	4545	4517	4479	4450	4412	4378	4345
10	4918	4848	4793	4735	4674	4620	4571	4522	4463	4386
15	5190	5092	5022	4939	4892	4839	4773	4683	4599	4499
20	5437	5335	5256	5181	5153	5101	5018	4897	4770	4632
25	5677	5605	5564	5506	5470	5414	5320	5168	4965	4764
30	5923	5870	5865	5861	5805	5741	5649	5468	5191	4920
35	6430	6338	6316	6265	6167	6097	6034	5866	5495	5064
40	6743	6825	6859	6835	6747	6619	6621	6403	5834	5238
45	7146	7062	7044	7136	7322	7305	7072	6673	6255	5535
50	7910	7633	7527	7619	7663	7267	7415	7373	6937	5909
55	9535	9149	8848	8496	8025	7860	8395	8504	7693	6185
60	11394	11460	11246	10502	9267	9373	10237	9687	7951	5994
65	10322	11384	12105	13167	12823	12888	12273	9485	6726	4617
70	4166	6382	8983	11715	16039	16155	12719	9084	5028	2753
75	1348	1988	2944	5028	12131	13558	9646	5861	2747	1153
80	463	655	882	1186	2950	4822	2739	1430	677	312
85	68	119	125	133	194	168	71	66	55	48
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
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>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361
5	4310	4282	4258	4243	4225	4217	4208	4203	4215	4203
10	4328	4284	4247	4214	4186	4165	4148	4141	4146	4141
15	4417	4346	4300	4248	4223	4204	4199	4200	4199	4200
20	4517	4431	4377	4329	4301	4293	4279	4262	4248	4262
25	4634	4511	4426	4389	4380	4297	4231	4213	4189	4213
30	4717	4543	4466	4449	4313	4345	4377	4371	4365	4371
35	4760	4572	4543	4381	4410	4389	4332	4277	4348	4277
40	4837	4667	4451	4350	4141	3909	3733	3641	3851	3641
45	5005	4792	4264	3788	3431	3186	3007	2932	2969	2932
50	5280	4391	3500	2955	2765	2765	2882	2917	2871	2917
55	5084	3336	2614	2443	2601	2835	2981	3000	2969	3000

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CANDELA TABULATION - (Cont.)

60	3753	2291	2243	2246	2455	2712	2819	2872	2864	2872
65	2354	1821	1896	1982	2081	2419	2729	2804	2838	2804
70	1376	1498	1606	1458	1779	1967	2128	2080	2167	2080
75	797	971	1064	1057	1102	1131	1179	1042	1099	1042
80	295	361	435	387	358	356	310	205	237	205
85	41	36	33	29	25	20	14	11	17	11
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
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>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361
5	4208	4217	4225	4243	4258	4282	4310	4345	4378	4412
10	4148	4165	4186	4214	4247	4284	4328	4386	4463	4522
15	4199	4204	4223	4248	4300	4346	4417	4499	4599	4683
20	4279	4293	4301	4329	4377	4431	4517	4632	4770	4897
25	4231	4297	4380	4389	4426	4511	4634	4764	4965	5168
30	4377	4345	4313	4449	4466	4543	4717	4920	5191	5468
35	4332	4389	4410	4381	4543	4572	4760	5064	5495	5866
40	3733	3909	4141	4350	4451	4667	4837	5238	5834	6403
45	3007	3186	3431	3788	4264	4792	5005	5535	6255	6673
50	2882	2765	2765	2955	3500	4391	5280	5909	6937	7373
55	2981	2835	2601	2443	2614	3336	5084	6185	7693	8504
60	2819	2712	2455	2246	2243	2291	3753	5994	7951	9687
65	2729	2419	2081	1982	1896	1821	2354	4617	6726	9485
70	2128	1967	1779	1458	1606	1498	1376	2753	5028	9084
75	1179	1131	1102	1057	1064	971	797	1153	2747	5861
80	310	356	358	387	435	361	295	312	677	1430
85	14	20	25	29	33	36	41	48	55	66
90	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : TEL22-4-LED-26L-45.IES

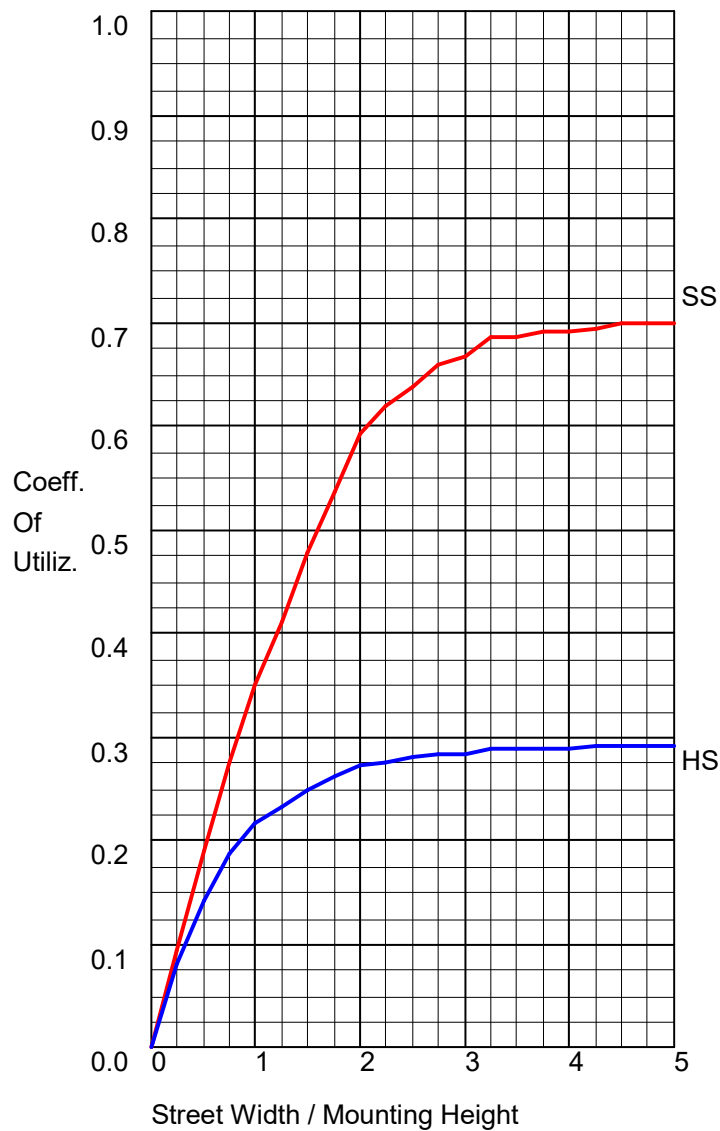
CANDELA TABULATION - (Cont.)

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

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	4361	4361	4361	4361	4361	4361	4361
5	4450	4479	4517	4545	4572	4594	4640
10	4571	4620	4674	4735	4793	4848	4918
15	4773	4839	4892	4939	5022	5092	5190
20	5018	5101	5153	5181	5256	5335	5437
25	5320	5414	5470	5506	5564	5605	5677
30	5649	5741	5805	5861	5865	5870	5923
35	6034	6097	6167	6265	6316	6338	6430
40	6621	6619	6747	6835	6859	6825	6743
45	7072	7305	7322	7136	7044	7062	7146
50	7415	7267	7663	7619	7527	7633	7910
55	8395	7860	8025	8496	8848	9149	9535
60	10237	9373	9267	10502	11246	11460	11394
65	12273	12888	12823	13167	12105	11384	10322
70	12719	16155	16039	11715	8983	6382	4166
75	9646	13558	12131	5028	2944	1988	1348
80	2739	4822	2950	1186	882	655	463
85	71	168	194	133	125	119	68
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

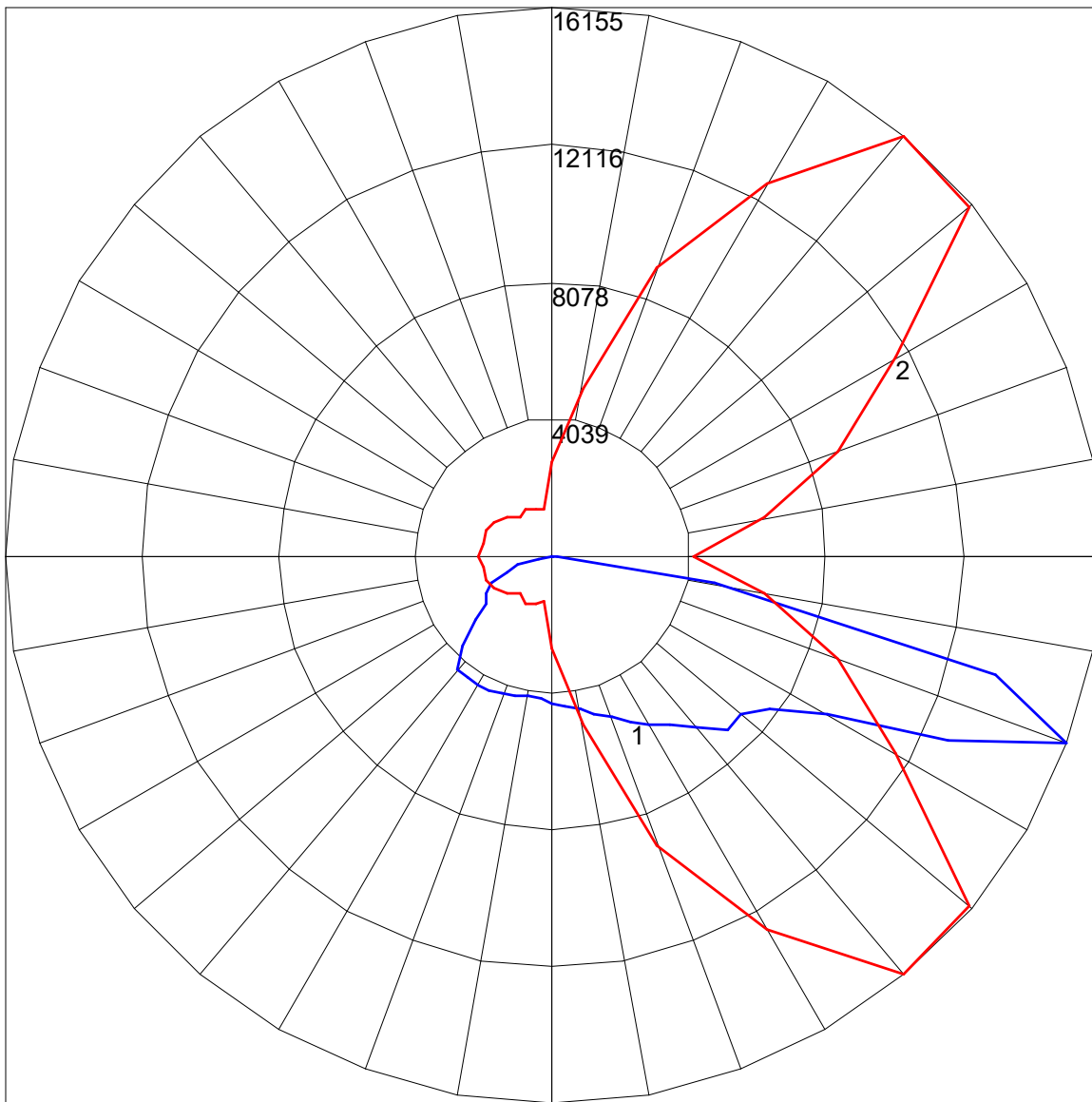
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

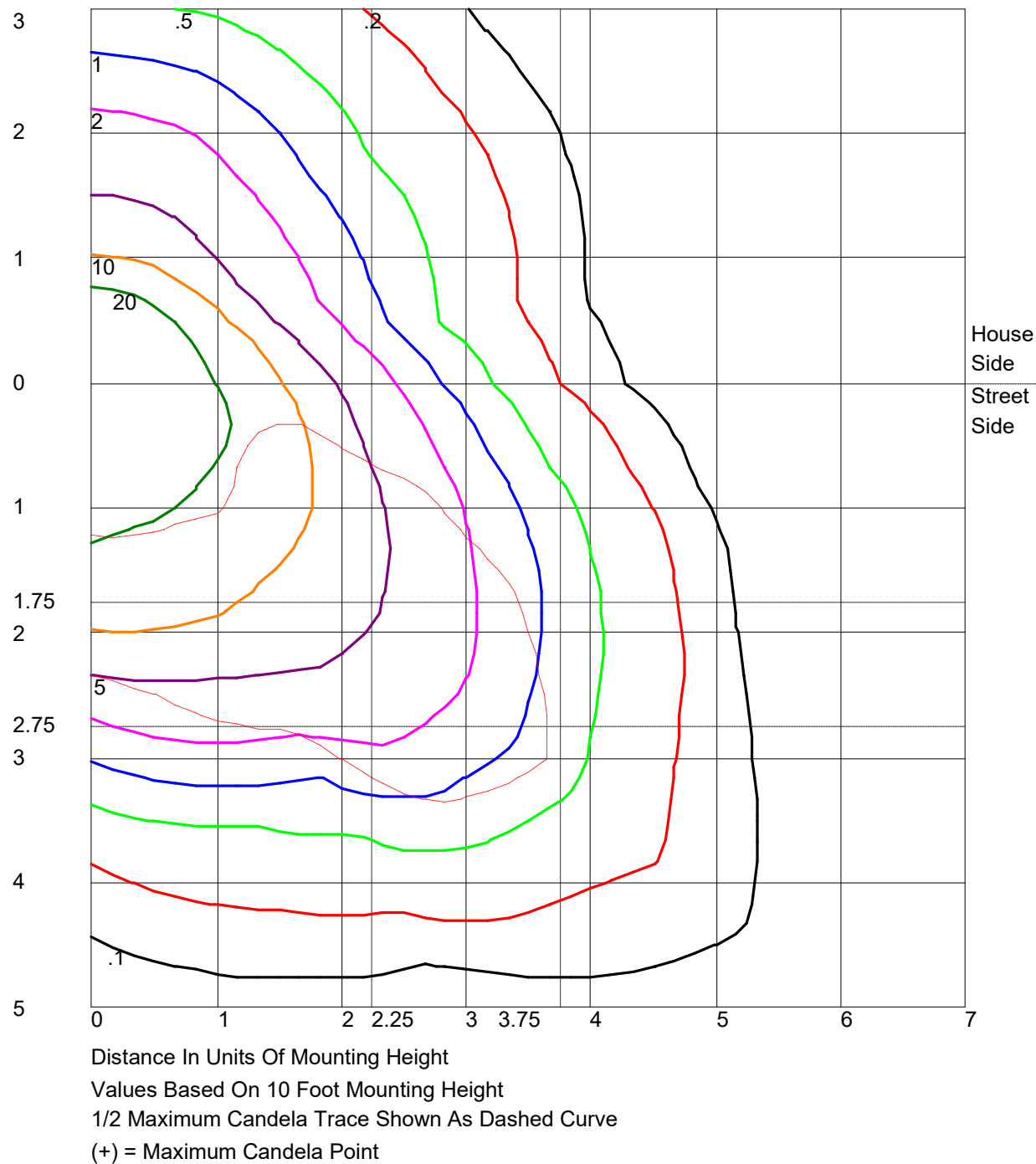
	Lumens	Percent Of Luminaire
Downward Street Side	19137.3	70.6
Downward House Side	7959.0	29.4
Downward Total	27096.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27096.3	100.0

POLAR GRAPH

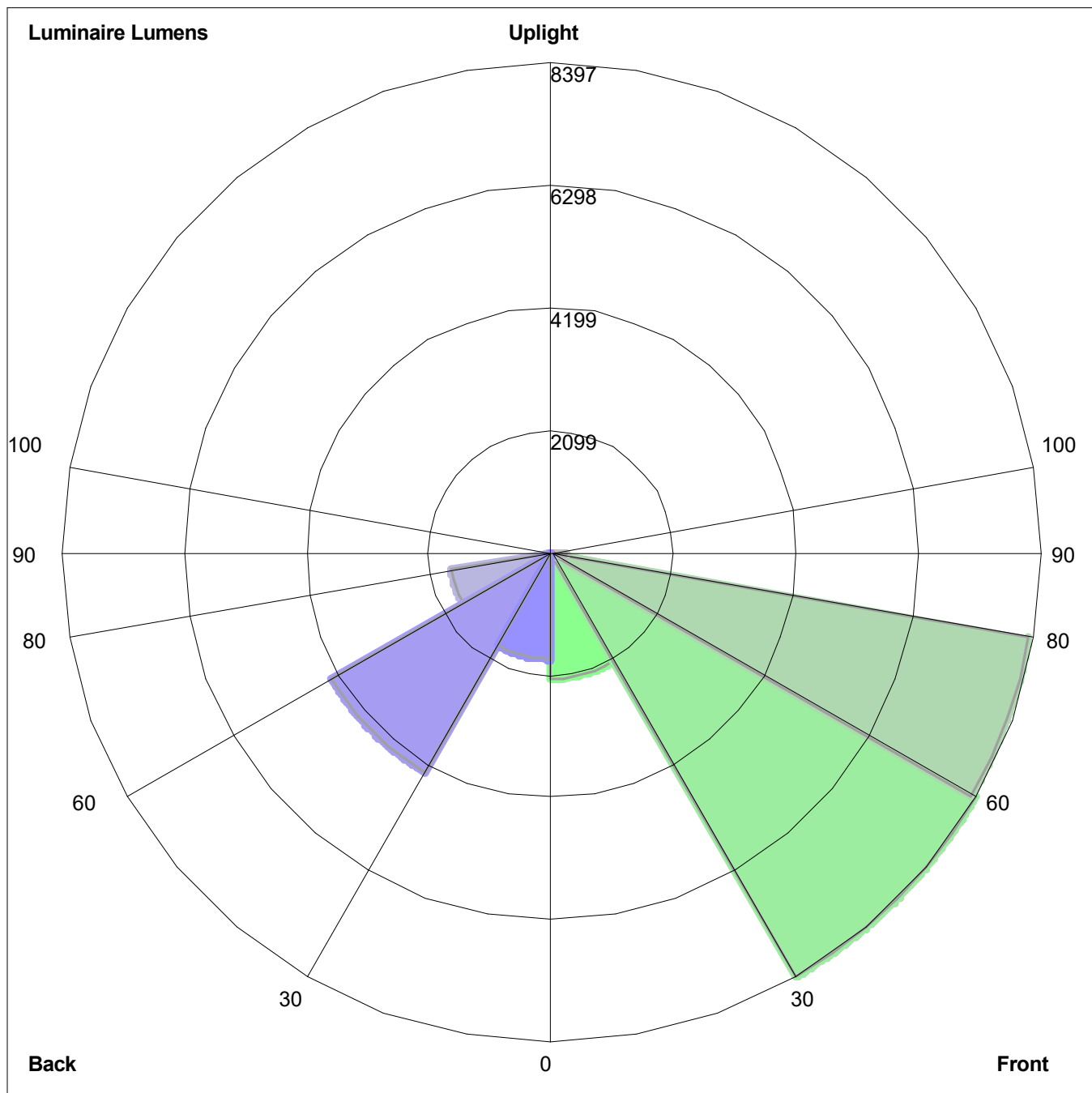


Maximum Candela = 16155 Located At Horizontal Angle = 310, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (310 - 130) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2152.3, Medium=8397.4, High=8320.2, Very High=267.4
Back: Low=1830.7, Medium=4335.7, High=1740.2, Very High=52.3
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4