



IES ROAD REPORT

PHOTOMETRIC FILENAME : TEL22-4-LED-41L-45.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3101

[TESTLAB] TUV SUD America

[TESTDATE] 4/6/2017 12:15:06 PM

[MANUFAC] LSI INDUSTRIES, INC.

[ISSUEDATE] 11/15/2019

[LUMCAT] TEL22-4-LED-41L-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	36449
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	356.22
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19137
Maximum Candela Angle	320H 70V
Maximum Candela (<90 Degrees Vertical)	19137
Maximum Candela Angle (<90 Degrees Vertical)	320H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	5023 (13.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3023.7	N.A.	8.3
FM - Front-Medium (30-60)	11809.0	N.A.	32.4
FH - Front-High (60-80)	10528.9	N.A.	28.9
FVH - Front-Very High (80-90)	330.8	N.A.	0.9
BL - Back-Low (0-30)	2525.1	N.A.	6.9
BM - Back-Medium (30-60)	5917.4	N.A.	16.2
BH - Back-High (60-80)	2242.0	N.A.	6.2
BVH - Back-Very High (80-90)	72.1	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	36449.0	N.A.	100.0
BUG Rating	B4-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	6125	6125	6125	6125	6125	6125	6125	6125	6125	6125
5	6534	6476	6456	6429	6383	6334	6285	6232	6174	6119
10	6977	6897	6835	6744	6642	6532	6440	6356	6271	6158
15	7392	7283	7148	7013	6896	6815	6711	6564	6431	6294
20	7731	7619	7492	7306	7220	7138	7027	6840	6639	6446
25	7984	7897	7823	7721	7650	7552	7424	7204	6904	6621
30	8318	8236	8221	8171	8096	8004	7874	7618	7218	6835
35	8953	8842	8786	8708	8549	8489	8386	8136	7628	7090
40	9515	9481	9420	9326	9189	9140	9109	8834	8173	7384
45	10291	10063	9896	9819	9834	9726	9789	9538	8990	7910
50	11505	11100	10829	10730	10487	10239	10717	10952	10427	8808
55	13305	12961	12523	12050	11373	11263	12221	12408	11398	9149
60	14712	14913	14775	14324	12976	13453	14070	13303	11373	8482
65	12507	13788	14679	16086	16717	17193	15312	12193	9555	6375
70	6351	8762	11486	13782	19137	18766	14903	11026	7150	3916
75	2151	3037	4393	7805	14219	14087	11066	7515	4273	1708
80	610	893	1269	1858	4088	5023	3236	1897	1094	413
85	77	123	124	150	171	150	87	77	67	61
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	6125	6125	6125	6125	6125	6125	6125	6125	6125	6125
5	6066	6018	5976	5944	5917	5900	5884	5872	5884	5872
10	6059	5982	5919	5860	5806	5769	5746	5729	5736	5729
15	6153	6032	5926	5851	5791	5766	5760	5758	5748	5758
20	6260	6102	5989	5909	5888	5888	5880	5866	5851	5866
25	6393	6186	6038	5991	6001	5904	5839	5821	5792	5821
30	6525	6235	6109	6077	5906	5981	6057	6046	6037	6046
35	6626	6275	6186	5963	6046	6041	5939	5824	5904	5824
40	6734	6379	6069	5954	5655	5348	5144	5016	5158	5016
45	6983	6556	5814	5172	4743	4443	4217	4073	4121	4073
50	7491	6110	4821	4080	3743	3615	3681	3697	3650	3697
55	7390	4770	3575	3102	3218	3527	3751	3775	3715	3775

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CANDELA TABULATION - (Cont.)

60	5569	3171	2745	2710	3025	3436	3632	3740	3739	3740
65	3412	2211	2272	2393	2539	3038	3442	3562	3568	3562
70	1759	1792	1909	1785	2203	2498	2714	2736	2770	2736
75	973	1154	1288	1298	1463	1520	1572	1398	1463	1398
80	369	440	573	520	509	516	452	301	348	301
85	56	50	45	43	39	35	25	20	28	20
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	6125	6125	6125	6125	6125	6125	6125	6125	6125	6125
5	5884	5900	5917	5944	5976	6018	6066	6119	6174	6232
10	5746	5769	5806	5860	5919	5982	6059	6158	6271	6356
15	5760	5766	5791	5851	5926	6032	6153	6294	6431	6564
20	5880	5888	5888	5909	5989	6102	6260	6446	6639	6840
25	5839	5904	6001	5991	6038	6186	6393	6621	6904	7204
30	6057	5981	5906	6077	6109	6235	6525	6835	7218	7618
35	5939	6041	6046	5963	6186	6275	6626	7090	7628	8136
40	5144	5348	5655	5954	6069	6379	6734	7384	8173	8834
45	4217	4443	4743	5172	5814	6556	6983	7910	8990	9538
50	3681	3615	3743	4080	4821	6110	7491	8808	10427	10952
55	3751	3527	3218	3102	3575	4770	7390	9149	11398	12408
60	3632	3436	3025	2710	2745	3171	5569	8482	11373	13303
65	3442	3038	2539	2393	2272	2211	3412	6375	9555	12193
70	2714	2498	2203	1785	1909	1792	1759	3916	7150	11026
75	1572	1520	1463	1298	1288	1154	973	1708	4273	7515
80	452	516	509	520	573	440	369	413	1094	1897
85	25	35	39	43	45	50	56	61	67	77
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

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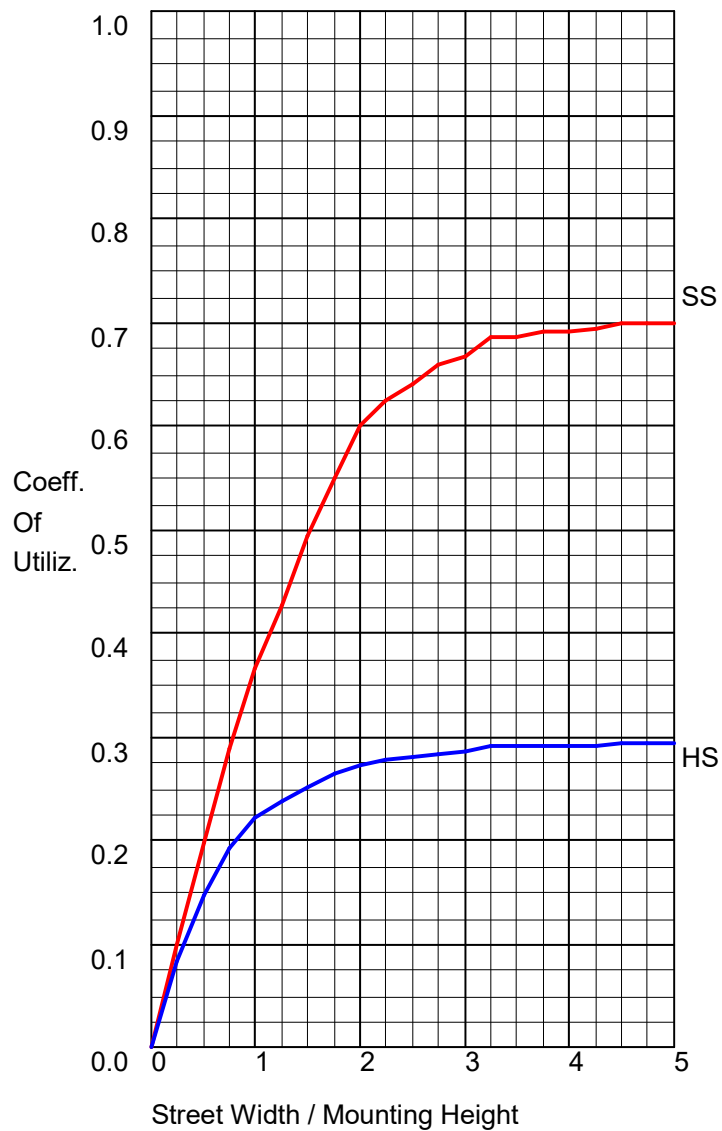
CANDELA TABULATION - (Cont.)

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. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0	6125	6125	6125	6125	6125	6125	6125
5	6285	6334	6383	6429	6456	6476	6534
10	6440	6532	6642	6744	6835	6897	6977
15	6711	6815	6896	7013	7148	7283	7392
20	7027	7138	7220	7306	7492	7619	7731
25	7424	7552	7650	7721	7823	7897	7984
30	7874	8004	8096	8171	8221	8236	8318
35	8386	8489	8549	8708	8786	8842	8953
40	9109	9140	9189	9326	9420	9481	9515
45	9789	9726	9834	9819	9896	10063	10291
50	10717	10239	10487	10730	10829	11100	11505
55	12221	11263	11373	12050	12523	12961	13305
60	14070	13453	12976	14324	14775	14913	14712
65	15312	17193	16717	16086	14679	13788	12507
70	14903	18766	19137	13782	11486	8762	6351
75	11066	14087	14219	7805	4393	3037	2151
80	3236	5023	4088	1858	1269	893	610
85	87	150	171	150	124	123	77
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

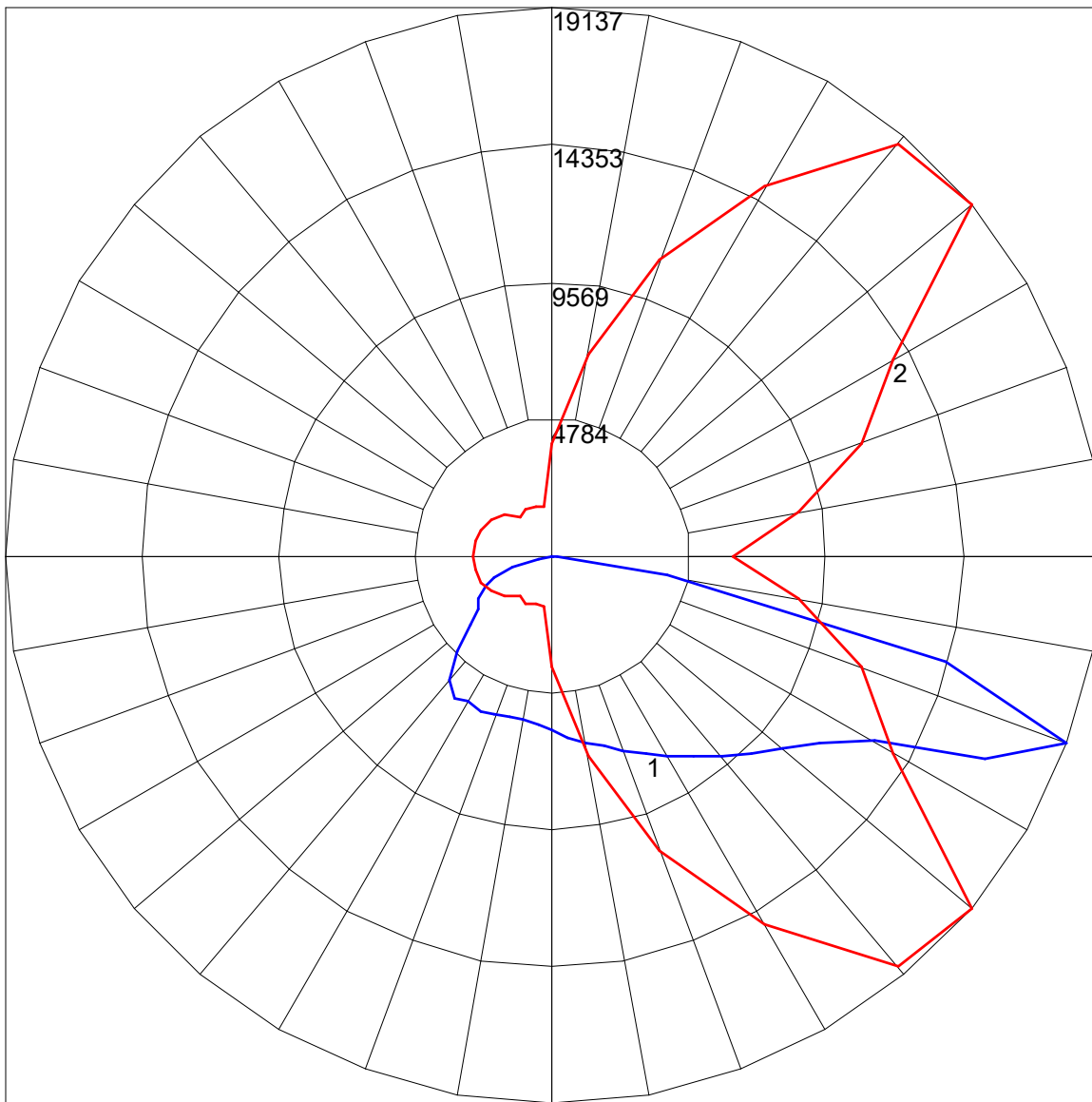
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

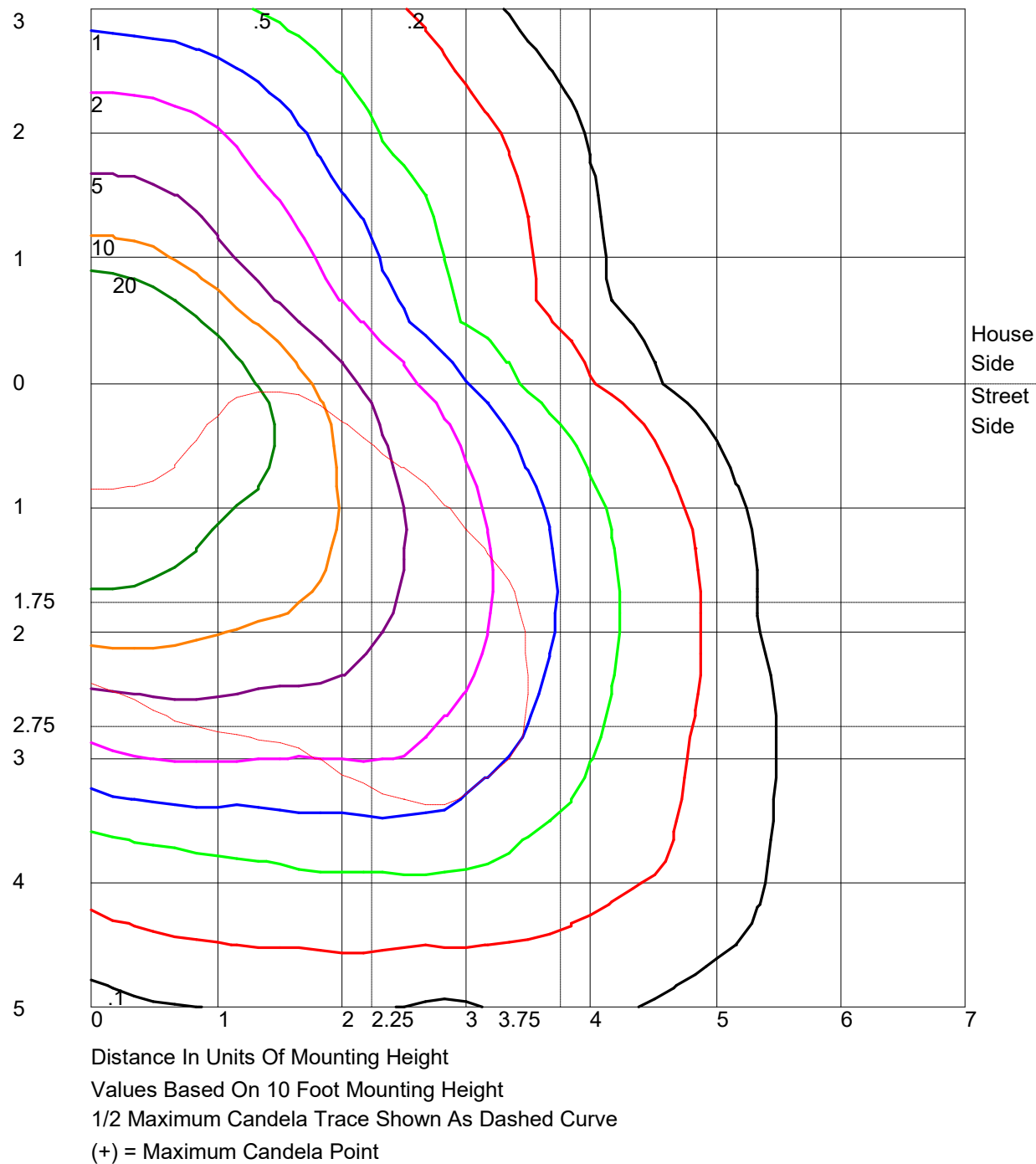
	Lumens	Percent Of Luminaire
Downward Street Side	25692.4	70.5
Downward House Side	10756.7	29.5
Downward Total	36449.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	36449.1	100.0

POLAR GRAPH

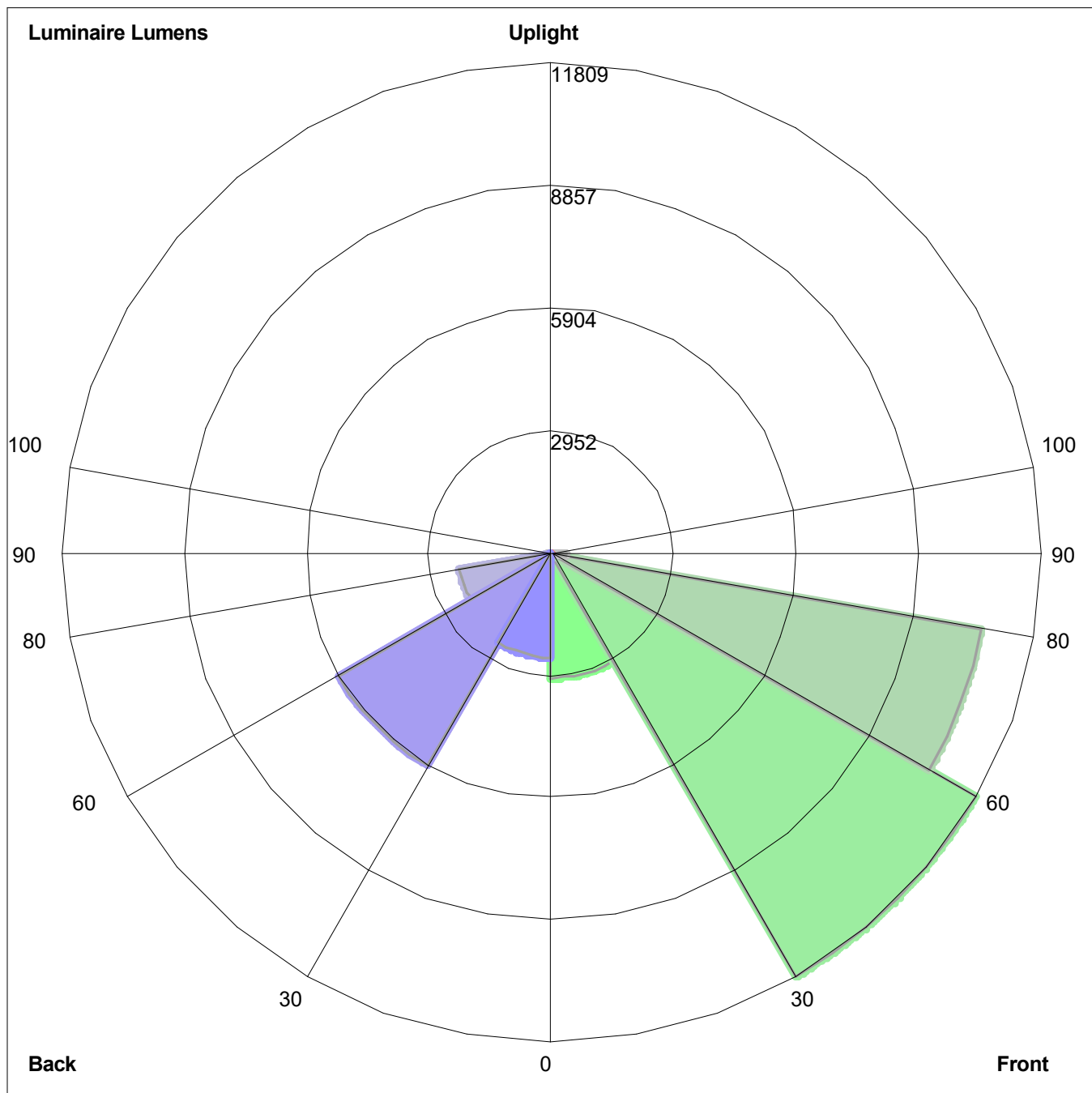


Maximum Candela = 19137 Located At Horizontal Angle = 320, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (320 - 140) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3023.7, Medium= 11809.0, High=10528.9, Very High=330.8
Back: Low=2525.1, Medium=5917.4, High= 2242.0, Very High=72.1
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4