



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-05L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11767
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/27/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-FT-LED-05L-50
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[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	5291
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3510
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3510
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	52 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1137 (21.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	245.2	N.A.	4.6
FM - Front-Medium (30-60)	1588.7	N.A.	30.0
FH - Front-High (60-80)	1979.5	N.A.	37.4
FVH - Front-Very High (80-90)	118.7	N.A.	2.2
BL - Back-Low (0-30)	230.1	N.A.	4.3
BM - Back-Medium (30-60)	761.1	N.A.	14.4
BH - Back-High (60-80)	328.2	N.A.	6.2
BVH - Back-Very High (80-90)	28.3	N.A.	0.5
UL - Uplight-Low (90-100)	4.0	N.A.	0.1
UH - Uplight-High (100-180)	7.4	N.A.	0.1
Total	5291.2	N.A.	100.0
BUG Rating	B1-U1-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	441	441	441	441	441	441	441	441	441	441
2.5	438	439	430	432	434	434	439	444	441	442
5.0	387	396	407	418	430	425	411	411	408	404
7.5	377	392	407	387	388	381	387	402	432	425
10.0	384	389	396	378	390	402	416	424	430	434
12.5	388	419	397	393	415	412	427	434	448	466
15.0	420	444	433	449	465	441	451	473	484	501
17.5	447	471	454	472	489	497	504	499	523	558
20.0	521	523	516	519	533	536	544	556	563	597
22.5	568	583	597	596	593	575	585	621	615	649
25.0	641	635	654	651	659	670	651	673	671	679
27.5	732	775	768	731	720	742	741	729	718	746
30.0	843	826	819	813	788	794	816	791	793	812
32.5	981	981	912	877	891	883	864	873	865	848
35.0	1100	1075	1030	989	954	956	952	940	912	908
37.5	1214	1196	1138	1072	1057	1035	1019	1013	977	929
40.0	1303	1307	1262	1195	1152	1134	1120	1082	1040	975
42.5	1384	1392	1345	1332	1252	1226	1219	1177	1093	1003
45.0	1479	1488	1460	1423	1381	1343	1331	1269	1155	1043
47.5	1586	1597	1572	1540	1490	1460	1433	1376	1235	1100
50.0	1698	1710	1695	1665	1627	1602	1557	1502	1341	1180
52.5	1806	1824	1818	1799	1767	1751	1707	1658	1485	1279
55.0	1897	1920	1935	1930	1918	1899	1887	1853	1659	1405
57.5	1974	1993	2027	2048	2073	2067	2079	2083	1892	1568
60.0	2051	2070	2115	2150	2224	2251	2296	2364	2150	1755
62.5	2170	2186	2242	2290	2403	2454	2544	2674	2425	1914
65.0	2270	2295	2390	2500	2654	2703	2836	2957	2614	1980
67.5	2320	2354	2519	2691	3017	3045	3149	3140	2643	1814
70.0	2189	2231	2477	2875	3361	3372	3376	3123	2308	1369
72.5	1792	1838	2131	2700	3459	3510	3424	2728	1657	860
75.0	1152	1157	1501	2064	2901	3060	2907	1977	1026	509
77.5	521	572	801	1271	1894	2093	1988	1215	611	332
80.0	244	280	466	715	1030	1137	1097	731	382	201
82.5	152	165	309	453	511	630	605	390	216	109
85.0	114	124	217	288	325	315	294	176	108	61
87.5	79	87	141	153	197	154	72	61	39	28
90.0	30	36	52	26	28	18	9	5	3	3
92.5	5	5	6	4	2	2	2	2	2	2
95.0	2	2	2	2	2	2	2	2	2	2
97.5	2	2	2	2	2	2	2	2	2	2
100.0	1	1	2	2	2	2	2	2	2	2
102.5	1	1	1	1	1	2	2	2	1	1
105.0	1	1	1	1	2	1	2	1	1	2
107.5	1	1	1	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1	1	1	2
112.5	1	1	1	1	1	1	1	1	1	2
115.0	1	1	1	1	1	1	1	1	1	2
117.5	1	2	2	2	2	2	1	1	2	2
120.0	2	2	2	2	2	1	2	1	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2

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PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-05L-50.IES

CANDELA TABULATION - (Cont.)

132.5	2	2	2	2	2	2	2	2	2	2
135.0	2	2	2	2	2	2	2	2	2	2
137.5	1	1	1	1	2	1	1	1	1	2
140.0	0	0	1	1	1	1	1	1	1	1
142.5	0	0	1	1	1	1	1	1	1	1
145.0	0	0	1	1	1	1	1	1	1	1
147.5	0	0	1	1	1	1	1	1	1	1
150.0	0	0	1	1	1	1	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	1	1	1	1	1	1	1	1
157.5	0	0	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	1	1
162.5	0	0	1	1	1	1	1	1	1	1
165.0	0	0	1	1	1	1	1	1	1	1
167.5	0	0	1	1	1	1	1	1	1	1
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	0	1	1	1	1	1	1	1	1
175.0	0	0	1	1	1	1	1	1	1	1
177.5	0	0	0	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	441	441	441	441	441	441	441	441	441	441
2.5	444	445	446	441	441	446	448	450	439	433
5.0	406	405	407	417	425	423	427	429	423	412
7.5	430	427	432	449	426	408	384	397	388	401
10.0	424	428	431	442	409	412	400	400	390	410
12.5	466	466	478	459	433	412	418	444	441	461
15.0	505	504	501	468	432	454	462	484	492	483
17.5	555	543	539	500	464	495	517	516	514	517
20.0	598	604	591	516	494	529	528	541	545	549
22.5	677	652	646	568	552	568	571	564	558	571
25.0	716	724	710	594	632	608	585	576	587	593
27.5	781	759	767	643	674	628	603	596	612	622
30.0	826	804	804	685	704	671	628	620	619	631
32.5	848	835	820	733	740	704	665	641	639	660
35.0	893	865	853	774	758	724	701	649	668	675
37.5	916	901	874	795	769	739	704	679	665	700
40.0	920	895	865	807	772	740	705	680	672	702
42.5	916	895	854	784	745	730	694	682	662	687
45.0	935	902	851	761	714	705	677	665	668	640
47.5	964	919	855	741	678	674	648	640	643	590
50.0	1013	943	869	722	641	641	617	625	600	549
52.5	1088	991	899	710	602	606	582	601	550	507
55.0	1185	1063	944	705	561	570	548	564	504	467
57.5	1300	1147	1000	706	521	531	516	521	459	416
60.0	1418	1228	1032	707	481	494	483	474	401	370
62.5	1482	1244	969	692	441	455	447	425	355	333
65.0	1436	1145	785	641	401	415	403	389	317	303
67.5	1168	881	544	532	356	372	365	359	287	283
70.0	782	552	364	398	306	325	332	327	263	266
72.5	407	300	248	289	252	278	293	293	233	237
75.0	261	187	159	205	197	225	249	244	169	160
77.5	169	118	108	142	149	175	195	154	119	126

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CANDELA TABULATION - (Cont.)

80.0	88	67	76	104	115	130	121	116	94	98
82.5	58	44	52	76	88	80	85	88	65	73
85.0	34	24	31	50	48	50	55	50	30	46
87.5	14	7	15	22	24	24	22	19	14	20
90.0	2	1	4	6	7	6	5	3	1	1
92.5	1	1	4	5	7	6	5	3	1	0
95.0	1	2	4	5	6	6	4	3	1	1
97.5	1	2	3	5	5	5	4	3	1	1
100.0	1	2	3	4	4	4	4	3	1	1
102.5	1	2	2	3	3	3	3	2	1	1
105.0	2	2	2	2	3	3	3	2	1	1
107.5	2	2	2	2	2	2	2	2	1	1
110.0	2	2	2	2	2	2	2	2	2	1
112.5	2	2	2	2	2	2	2	2	1	1
115.0	2	2	2	2	2	2	2	2	2	1
117.5	2	2	2	2	2	2	2	2	2	2
120.0	2	2	2	2	2	3	2	2	2	2
122.5	2	2	2	3	3	3	3	3	2	2
125.0	2	2	2	3	3	3	3	2	2	2
127.5	2	2	2	2	3	3	2	2	2	2
130.0	2	2	2	2	3	2	2	2	2	2
132.5	2	2	2	2	2	2	2	2	2	1
135.0	2	2	2	2	2	2	2	1	1	1
137.5	2	2	2	2	2	1	1	1	0	0
140.0	1	1	1	1	1	1	1	0	0	0
142.5	1	1	1	1	1	1	0	0	0	0
145.0	1	1	1	1	1	1	0	0	0	0
147.5	1	1	1	1	1	1	0	0	0	0
150.0	1	1	1	1	1	0	0	0	0	0
152.5	1	1	1	1	1	0	0	0	0	0
155.0	1	1	1	1	1	0	0	0	0	0
157.5	1	1	1	1	1	0	0	0	0	0
160.0	1	1	1	1	1	0	0	0	0	0
162.5	1	1	1	1	0	0	0	0	0	0
165.0	1	1	1	1	1	0	0	0	0	0
167.5	1	1	1	1	1	0	0	0	0	0
170.0	1	1	1	1	0	0	0	0	0	0
172.5	1	1	1	1	0	0	0	0	0	0
175.0	1	1	1	1	1	0	0	0	0	0
177.5	1	1	1	1	1	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	175	180
0.0	441	441
2.5	427	424
5.0	406	415
7.5	399	398
10.0	422	422
12.5	472	475
15.0	505	516
17.5	533	540
20.0	562	570
22.5	568	598
25.0	607	627

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CANDELA TABULATION - (Cont.)

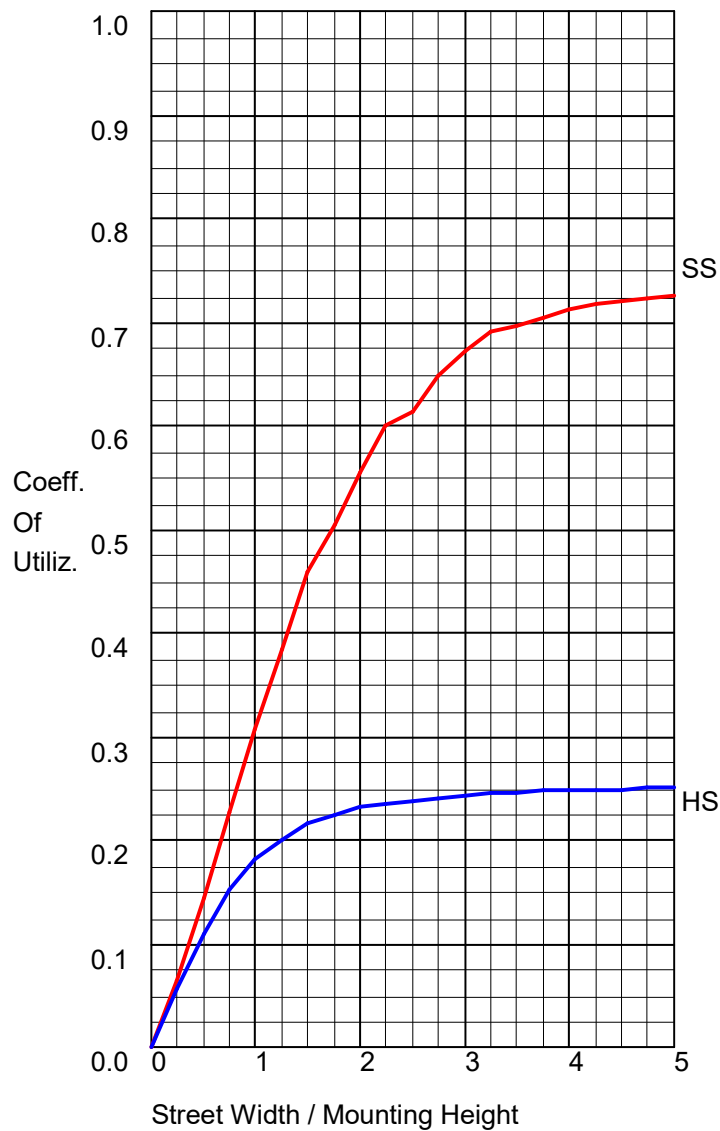
27.5	623	652
30.0	639	679
32.5	676	702
35.0	686	717
37.5	711	744
40.0	711	738
42.5	661	682
45.0	615	632
47.5	574	588
50.0	534	545
52.5	496	507
55.0	455	466
57.5	403	410
60.0	361	361
62.5	327	327
65.0	303	303
67.5	289	289
70.0	277	278
72.5	255	254
75.0	189	193
77.5	168	173
80.0	142	152
82.5	111	120
85.0	76	88
87.5	40	50
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	1
122.5	2	1
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

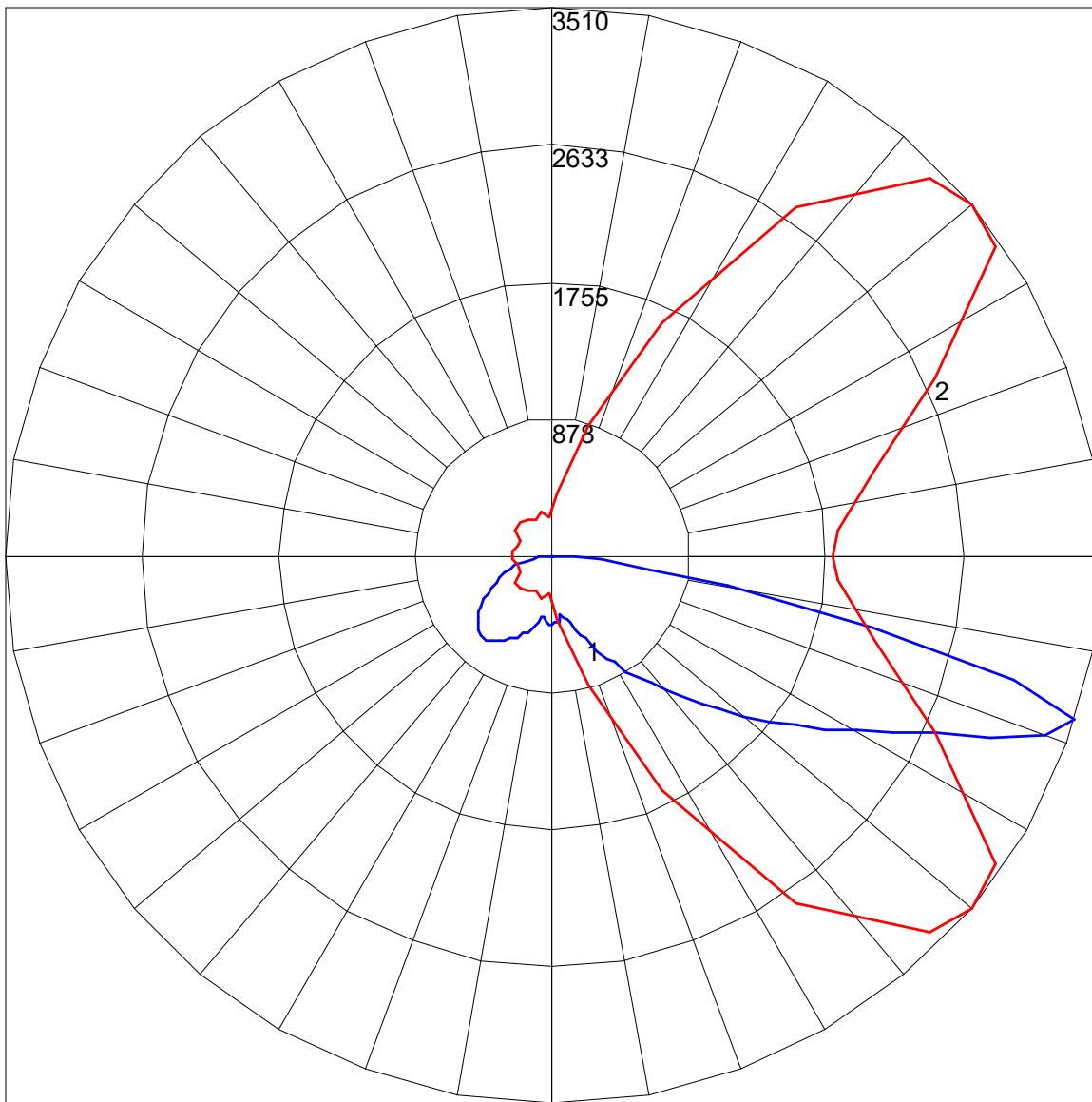
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

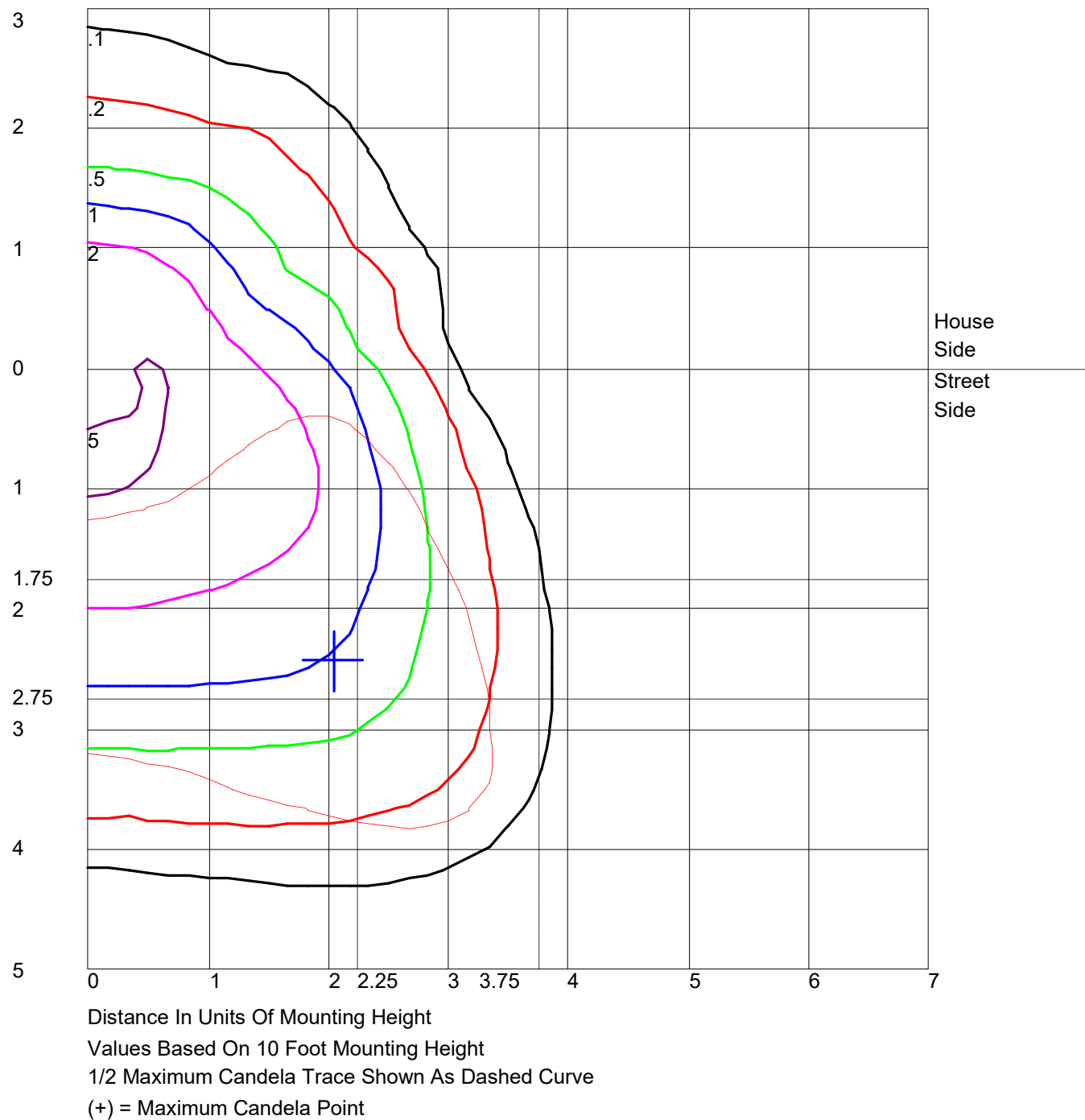
	Lumens	Percent Of Luminaire
Downward Street Side	3932.1	74.3
Downward House Side	1347.7	25.5
Downward Total	5279.8	99.8
Upward Street Side	5.9	0.1
Upward House Side	5.5	0.1
Upward Total	11.4	0.2
Total Flux	5291.2	100.0

POLAR GRAPH

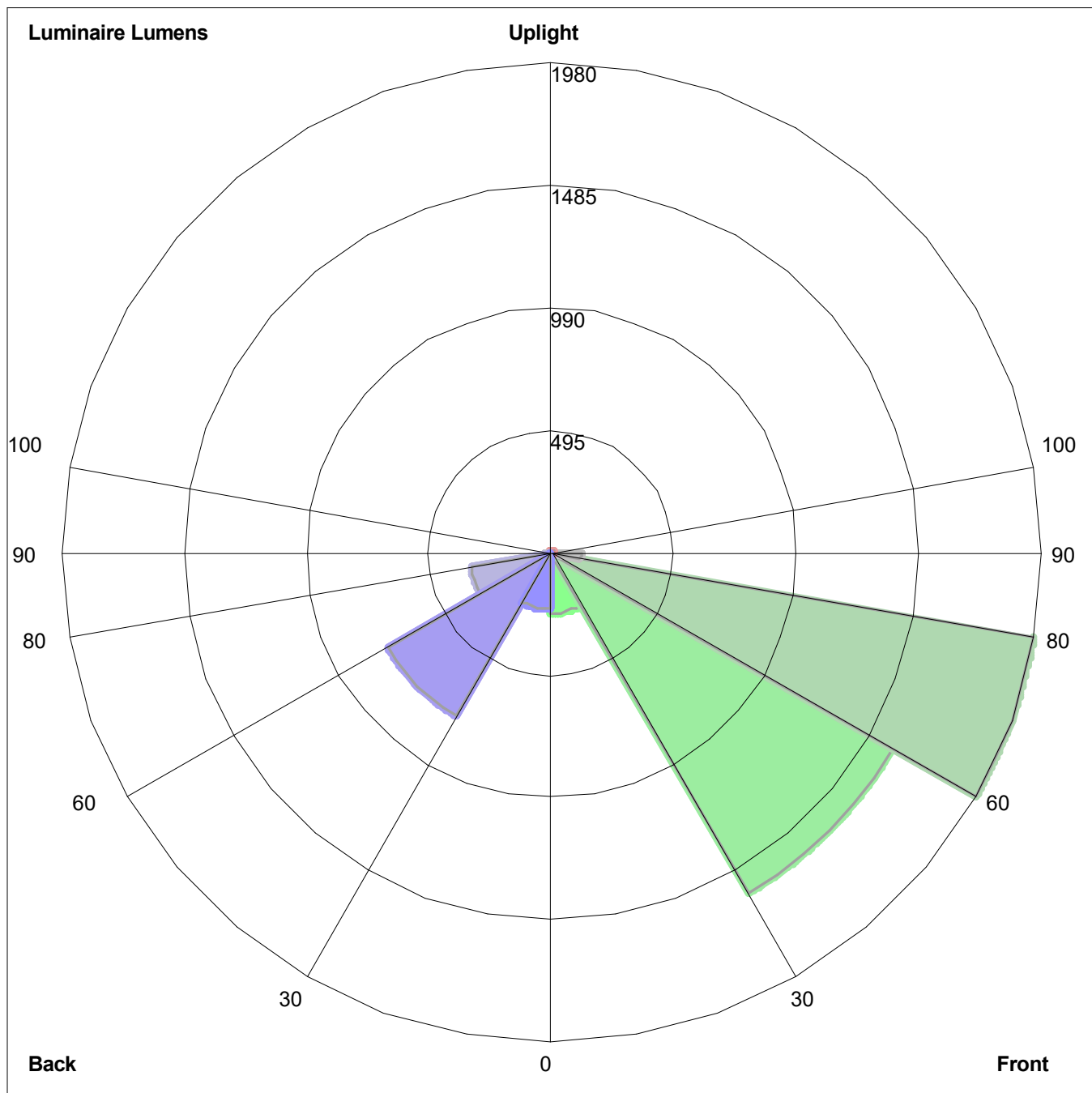


Maximum Candela = 3510 Located At Horizontal Angle = 40, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=245.2, Medium=1588.7, High=1979.5, Very High=118.7
Back: Low=230.1, Medium=761.1, High=328.2, Very High=28.3
Uplight: Low=4.0, High=7.4

BUG Rating : B1-U1-G2