



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11679
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/03/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-FT-LED-10L-30
[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	9111
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6396
Maximum Candela Angle	37.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	6396
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 72.5V
Maximum Candela At 90 Degrees Vertical	88 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1744 (19.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	429.5	N.A.	4.7
FM - Front-Medium (30-60)	2737.4	N.A.	30.0
FH - Front-High (60-80)	3453.5	N.A.	37.9
FVH - Front-Very High (80-90)	188.0	N.A.	2.1
BL - Back-Low (0-30)	392.5	N.A.	4.3
BM - Back-Medium (30-60)	1289.4	N.A.	14.2
BH - Back-High (60-80)	551.2	N.A.	6.0
BVH - Back-Very High (80-90)	45.8	N.A.	0.5
UL - Uplight-Low (90-100)	7.3	N.A.	0.1
UH - Uplight-High (100-180)	16.4	N.A.	0.2
Total	9111.0	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>37.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	746	746	746	746	746	746	746	746	746	746
2.5	731	738	734	731	735	736	737	747	752	745
5.0	689	687	699	714	728	726	711	691	695	690
7.5	669	677	702	676	671	671	668	688	732	723
10.0	674	671	674	658	671	679	717	730	733	735
12.5	715	711	709	669	715	710	733	756	778	801
15.0	761	751	747	763	789	786	776	811	847	869
17.5	809	799	794	817	837	860	877	868	916	954
20.0	941	937	923	910	910	913	945	983	994	1038
22.5	1011	1030	1039	1044	1025	1022	1043	1090	1085	1138
25.0	1145	1134	1155	1156	1151	1170	1150	1209	1206	1231
27.5	1322	1332	1326	1268	1254	1261	1291	1303	1309	1333
30.0	1455	1457	1441	1432	1386	1363	1397	1420	1405	1398
32.5	1703	1688	1607	1533	1533	1543	1528	1529	1499	1499
35.0	1871	1870	1775	1733	1641	1636	1683	1638	1597	1572
37.5	2114	2073	1961	1880	1809	1784	1765	1745	1680	1635
40.0	2252	2231	2159	2048	1957	1939	1899	1846	1756	1698
42.5	2386	2391	2307	2208	2144	2105	2034	1993	1851	1727
45.0	2563	2559	2493	2375	2333	2306	2214	2139	1948	1783
47.5	2745	2755	2695	2602	2540	2503	2418	2326	2093	1878
50.0	2957	2961	2916	2863	2782	2712	2646	2546	2277	2005
52.5	3153	3165	3149	3109	3056	2970	2915	2824	2515	2197
55.0	3341	3350	3362	3352	3338	3240	3186	3160	2824	2447
57.5	3488	3496	3543	3575	3616	3536	3519	3579	3210	2736
60.0	3632	3630	3713	3781	3868	3825	3898	4098	3723	3094
62.5	3785	3808	3939	4010	4156	4147	4348	4723	4267	3452
65.0	4010	4030	4205	4320	4548	4633	4916	5309	4664	3559
67.5	4166	4209	4500	4749	5118	5299	5578	5699	4700	3250
70.0	3875	3930	4409	5152	5913	6091	6113	5642	4097	2403
72.5	3088	3164	3649	4728	6169	6396	6151	4856	2897	1393
75.0	1800	1876	2460	3552	4924	5271	5090	3395	1722	811
77.5	721	795	1177	1987	3114	3321	3275	2095	1058	548
80.0	370	424	708	1084	1578	1702	1744	1243	630	324
82.5	243	261	481	690	804	858	954	635	362	185
85.0	184	199	344	466	523	524	458	281	176	103
87.5	124	136	233	262	300	283	122	94	61	46
90.0	47	52	88	45	39	38	16	8	5	5
92.5	8	7	6	5	5	5	4	4	3	4
95.0	4	4	4	5	5	5	5	4	3	3
97.5	3	3	3	4	4	4	4	4	3	3
100.0	2	3	3	3	4	4	4	3	3	3
102.5	2	2	2	3	3	3	3	3	3	3
105.0	2	2	2	3	3	3	3	3	3	3
107.5	2	2	2	3	3	3	3	3	3	3
110.0	2	2	2	3	3	3	3	3	3	3
112.5	3	3	3	3	3	3	3	3	3	3
115.0	3	3	3	3	3	3	3	3	3	4
117.5	3	3	3	3	3	3	3	3	3	4
120.0	4	4	4	3	3	3	3	3	3	4
122.5	4	4	4	4	4	4	4	3	3	4
125.0	4	4	4	4	4	4	4	4	4	4
127.5	4	4	4	4	4	4	4	4	4	4
130.0	4	5	4	4	4	4	4	4	4	5

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CANDELA TABULATION - (Cont.)

132.5	5	5	5	5	4	4	4	4	4	5
135.0	4	4	4	4	4	4	4	3	4	4
137.5	2	2	2	3	3	3	3	3	3	4
140.0	1	1	1	2	2	2	2	2	2	2
142.5	1	1	1	2	2	2	2	2	2	2
145.0	1	1	1	2	2	2	2	2	2	2
147.5	1	1	1	2	2	2	2	2	2	2
150.0	1	1	1	2	2	2	2	2	2	2
152.5	0	0	1	2	2	2	1	1	2	2
155.0	0	1	1	2	2	2	2	1	2	2
157.5	1	1	1	2	2	2	2	1	2	2
160.0	0	0	1	2	1	2	1	1	1	2
162.5	1	1	1	2	1	1	1	1	1	2
165.0	1	0	1	2	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	1	2
170.0	1	1	1	2	2	2	1	1	1	2
172.5	1	0	1	1	2	2	2	1	1	2
175.0	0	0	1	2	2	2	2	1	2	2
177.5	0	1	1	2	2	2	2	1	2	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	746	746	746	746	746	746	746	746	746	746
2.5	747	755	750	747	746	751	761	761	754	738
5.0	695	692	685	706	715	718	730	731	723	699
7.5	728	731	730	759	725	680	648	671	662	683
10.0	730	737	727	754	690	698	678	677	659	687
12.5	798	800	819	782	728	697	699	748	738	788
15.0	867	874	856	811	737	765	782	825	833	823
17.5	948	937	930	871	789	838	875	876	867	876
20.0	1072	1046	1027	894	841	899	896	924	936	923
22.5	1182	1156	1152	989	947	962	966	954	946	968
25.0	1300	1287	1244	1040	1070	1036	980	975	984	1002
27.5	1380	1360	1333	1137	1154	1076	1023	1013	1042	1048
30.0	1461	1449	1411	1213	1212	1149	1070	1053	1044	1068
32.5	1501	1489	1441	1274	1266	1193	1124	1071	1073	1119
35.0	1560	1538	1490	1353	1299	1229	1165	1096	1090	1128
37.5	1607	1588	1532	1384	1311	1241	1169	1125	1092	1157
40.0	1620	1584	1521	1403	1316	1243	1179	1127	1108	1167
42.5	1629	1582	1506	1368	1272	1230	1161	1136	1117	1141
45.0	1661	1579	1499	1327	1219	1186	1130	1105	1124	1054
47.5	1707	1614	1508	1287	1156	1136	1082	1072	1063	978
50.0	1791	1670	1537	1252	1090	1080	1035	1042	975	908
52.5	1909	1762	1613	1232	1021	1019	980	997	896	839
55.0	2089	1886	1704	1226	952	950	918	933	820	764
57.5	2312	2047	1820	1239	886	890	865	860	740	674
60.0	2546	2216	1909	1262	823	828	805	775	652	604
62.5	2680	2245	1824	1245	754	763	743	698	577	541
65.0	2609	2049	1501	1142	682	692	667	634	509	488
67.5	2145	1581	1032	940	604	615	605	581	460	457
70.0	1275	965	626	673	517	540	551	538	417	430
72.5	659	492	403	478	421	459	491	478	366	369
75.0	438	314	261	338	326	369	412	376	249	252
77.5	281	198	177	233	246	284	294	245	194	207

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CANDELA TABULATION - (Cont.)

80.0	148	115	126	171	188	196	193	187	154	164
82.5	94	76	89	124	129	123	138	142	107	119
85.0	58	43	53	76	75	76	91	85	53	75
87.5	25	15	23	35	35	37	32	33	21	32
90.0	5	4	8	11	13	12	9	5	2	1
92.5	4	3	8	11	12	11	9	5	2	2
95.0	4	4	7	11	12	11	8	6	3	2
97.5	4	3	6	9	10	9	7	5	3	3
100.0	3	3	5	7	8	8	7	5	4	3
102.5	3	4	5	5	6	6	6	5	4	3
105.0	3	4	5	5	5	5	5	5	4	3
107.5	3	4	4	5	5	5	5	4	3	3
110.0	4	4	5	5	5	5	5	4	4	3
112.5	4	4	5	5	5	5	5	5	4	4
115.0	4	5	5	5	5	5	5	5	4	4
117.5	4	5	5	5	5	5	5	5	5	4
120.0	4	5	5	5	5	5	5	5	5	4
122.5	5	5	5	5	5	5	5	5	5	4
125.0	5	5	5	5	5	5	5	5	5	4
127.5	5	5	5	5	5	5	5	5	5	4
130.0	5	5	5	5	5	5	5	5	4	4
132.5	5	5	5	5	5	5	5	5	4	4
135.0	5	5	5	5	5	4	4	3	3	3
137.5	4	4	4	4	4	3	3	2	2	1
140.0	3	3	3	3	3	2	2	1	1	0
142.5	3	3	3	3	2	2	1	1	0	0
145.0	3	3	3	3	2	2	1	1	0	0
147.5	2	3	3	3	2	1	1	0	0	0
150.0	2	3	3	2	2	2	1	0	0	0
152.5	2	2	2	2	2	1	1	0	0	0
155.0	2	2	2	2	2	1	1	0	0	0
157.5	2	2	2	2	2	1	1	0	0	0
160.0	2	2	2	2	2	1	0	0	0	0
162.5	2	2	2	2	2	1	0	0	0	0
165.0	2	2	2	2	2	1	0	0	0	0
167.5	2	2	2	2	1	1	0	0	0	0
170.0	2	2	2	2	2	1	0	0	0	0
172.5	2	2	2	2	2	1	0	0	0	0
175.0	2	2	2	2	2	1	0	0	0	0
177.5	2	2	2	2	2	1	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	746	746
2.5	735	737
5.0	695	703
7.5	680	689
10.0	714	717
12.5	800	806
15.0	858	877
17.5	908	911
20.0	956	949
22.5	966	989
25.0	1021	1034

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CANDELA TABULATION - (Cont.)

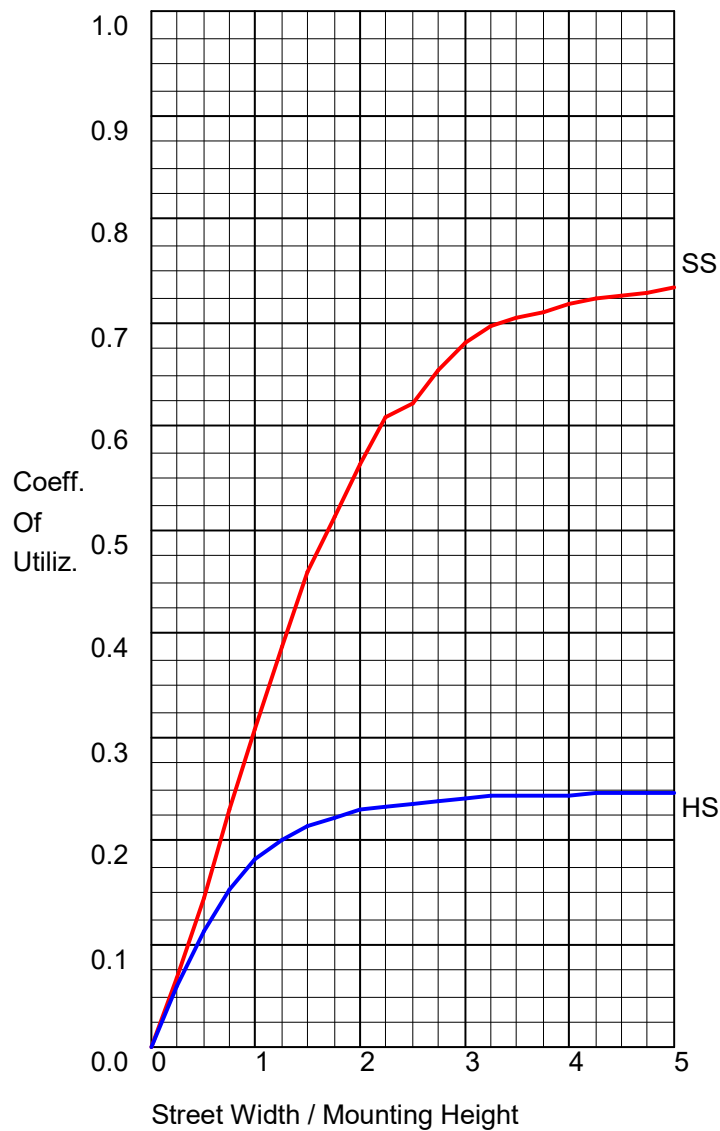
27.5	1053	1061
30.0	1082	1099
32.5	1131	1137
35.0	1151	1141
37.5	1185	1177
40.0	1179	1166
42.5	1093	1080
45.0	1013	1001
47.5	945	934
50.0	881	872
52.5	817	805
55.0	744	731
57.5	653	646
60.0	583	576
62.5	522	511
65.0	482	474
67.5	464	455
70.0	449	439
72.5	389	378
75.0	303	300
77.5	281	290
80.0	234	255
82.5	186	208
85.0	128	149
87.5	68	81
90.0	0	0
92.5	0	0
95.0	1	1
97.5	2	2
100.0	2	2
102.5	3	3
105.0	3	3
107.5	3	3
110.0	3	3
112.5	3	3
115.0	3	3
117.5	3	3
120.0	3	3
122.5	3	3
125.0	3	3
127.5	3	3
130.0	3	3
132.5	3	3
135.0	2	2
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

IES ROAD REPORT
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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

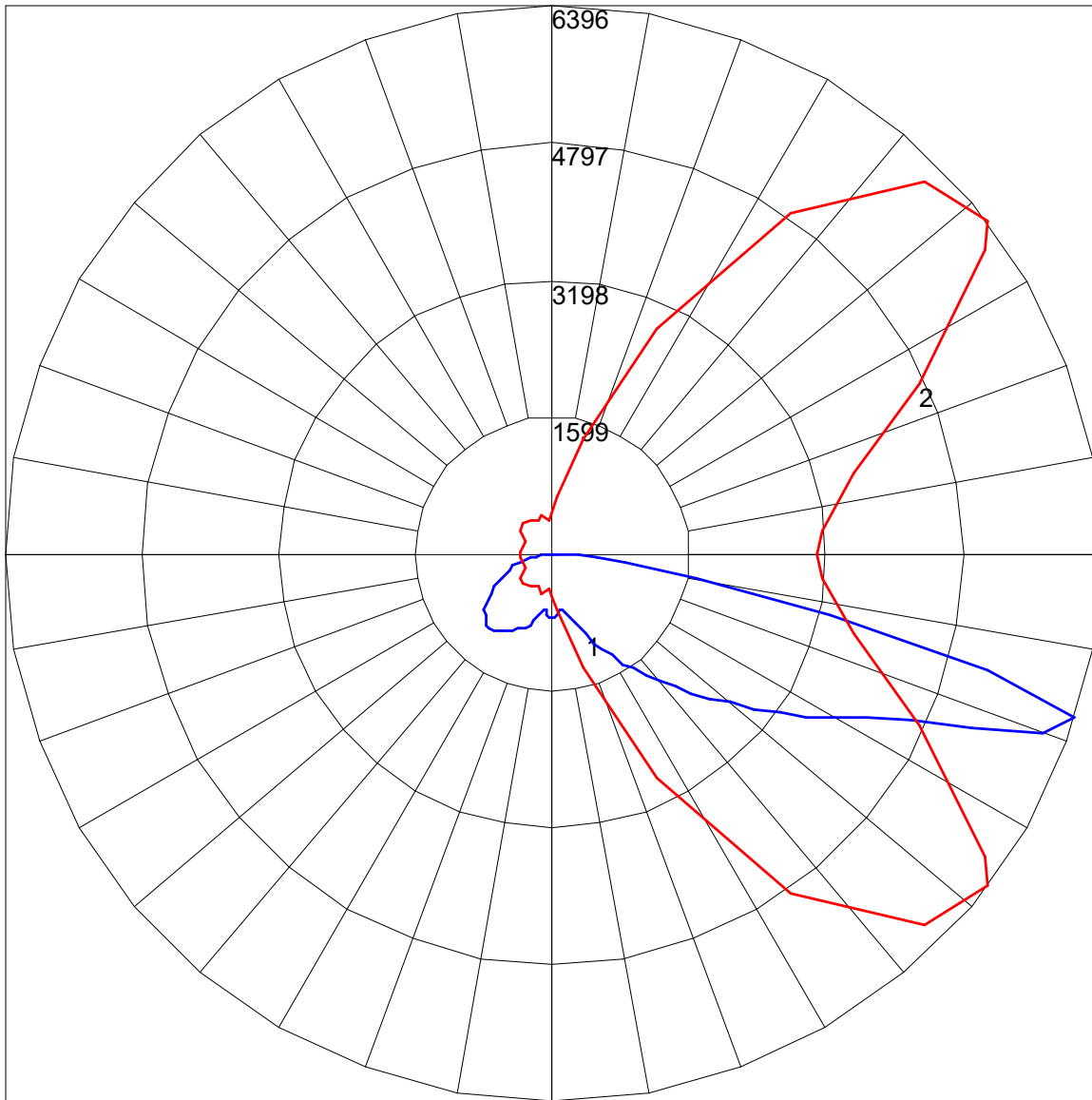
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

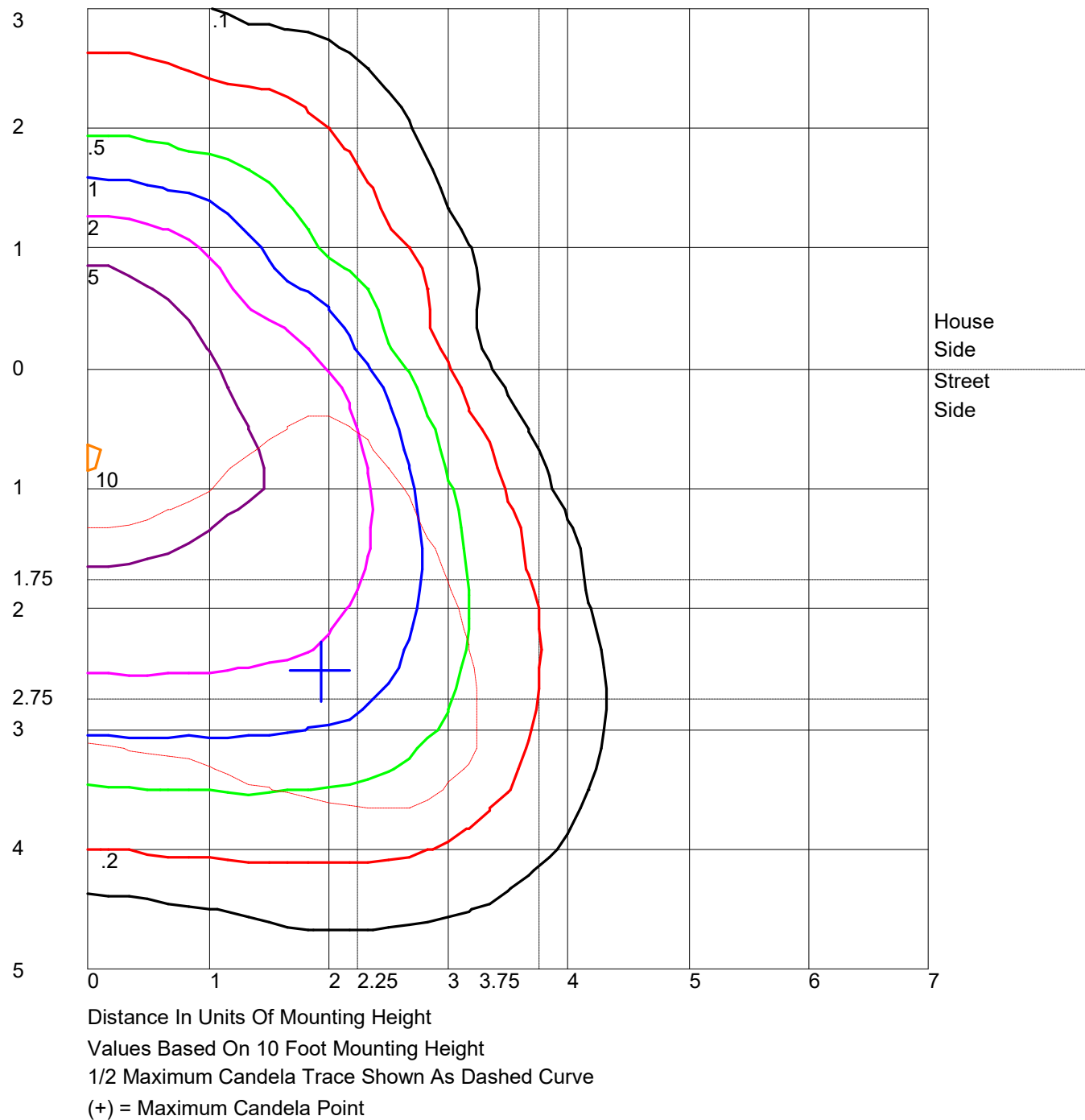
	Lumens	Percent Of Luminaire
Downward Street Side	6808.4	74.7
Downward House Side	2278.9	25.0
Downward Total	9087.3	99.7
Upward Street Side	11.4	0.1
Upward House Side	12.3	0.1
Upward Total	23.7	0.3
Total Flux	9111.0	100.0

POLAR GRAPH

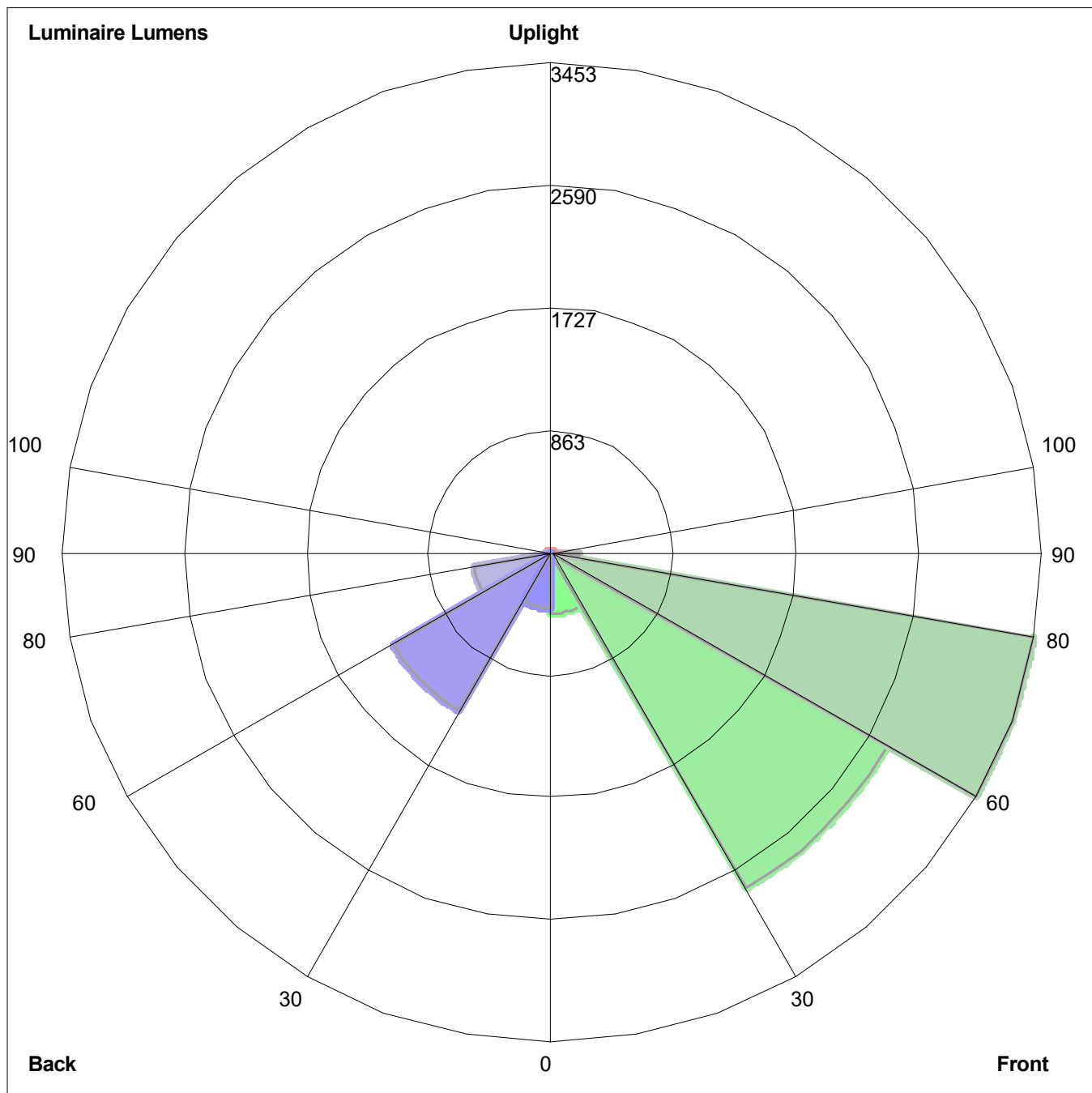


Maximum Candela = 6396 Located At Horizontal Angle = 37.5, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=429.5, Medium=2737.4, High=3453.5, Very High=188.0
Back: Low=392.5, Medium=1289.4, High=551.2, Very High=45.8
Uplight: Low=7.3, High=16.4

BUG Rating : B2-U2-G2