



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-30.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11680  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/03/20  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMEN CATEGORY] LXM4-PT-FT-LED-10L-30  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCE TYPE] 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	9109
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	6392
Maximum Candela Angle	37.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	6392
Maximum Candela Angle (<90 Degrees Vertical)	37.5H 72.5V
Maximum Candela At 90 Degrees Vertical	83 (0.9% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1767 (19.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-30.IES**

**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	428.9	N.A.	4.7
FM - Front-Medium (30-60)	2740.8	N.A.	30.1
FH - Front-High (60-80)	3450.3	N.A.	37.9
FVH - Front-Very High (80-90)	188.0	N.A.	2.1
BL - Back-Low (0-30)	391.8	N.A.	4.3
BM - Back-Medium (30-60)	1288.3	N.A.	14.1
BH - Back-High (60-80)	550.9	N.A.	6.0
BVH - Back-Very High (80-90)	45.9	N.A.	0.5
UL - Uplight-Low (90-100)	7.2	N.A.	0.1
UH - Uplight-High (100-180)	16.6	N.A.	0.2
Total	9108.7	N.A.	100.0
BUG Rating	B2-U2-G2		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-30.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>37.5</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	745	745	745	745	745	745	745	745	745	745
<b>2.5</b>	735	740	731	730	732	732	739	748	752	746
<b>5.0</b>	683	686	697	711	730	720	706	692	692	692
<b>7.5</b>	666	673	698	679	666	671	664	684	730	722
<b>10.0</b>	674	671	676	652	672	679	714	729	731	738
<b>12.5</b>	711	709	707	670	711	706	731	752	778	797
<b>15.0</b>	757	748	746	766	788	783	770	807	845	864
<b>17.5</b>	806	798	795	816	840	855	874	864	911	950
<b>20.0</b>	935	938	927	909	912	911	945	979	992	1037
<b>22.5</b>	1010	1031	1030	1041	1026	1024	1044	1088	1084	1141
<b>25.0</b>	1159	1138	1148	1152	1156	1170	1149	1206	1212	1227
<b>27.5</b>	1334	1324	1322	1265	1253	1263	1296	1304	1309	1330
<b>30.0</b>	1468	1451	1438	1430	1379	1376	1401	1430	1408	1399
<b>32.5</b>	1714	1684	1604	1528	1528	1542	1538	1532	1502	1497
<b>35.0</b>	1866	1868	1769	1728	1641	1628	1680	1638	1599	1567
<b>37.5</b>	2108	2088	1954	1875	1815	1787	1771	1745	1678	1644
<b>40.0</b>	2249	2230	2163	2043	1960	1941	1906	1844	1756	1698
<b>42.5</b>	2384	2384	2309	2213	2150	2110	2036	1996	1850	1728
<b>45.0</b>	2561	2556	2497	2387	2335	2303	2214	2141	1951	1785
<b>47.5</b>	2744	2754	2700	2611	2547	2490	2412	2321	2095	1882
<b>50.0</b>	2955	2967	2914	2858	2784	2707	2637	2552	2275	2012
<b>52.5</b>	3178	3164	3151	3098	3059	2965	2917	2834	2517	2209
<b>55.0</b>	3351	3349	3351	3352	3332	3246	3200	3195	2837	2449
<b>57.5</b>	3490	3492	3543	3570	3606	3535	3538	3624	3255	2749
<b>60.0</b>	3638	3649	3719	3774	3872	3824	3915	4123	3751	3117
<b>62.5</b>	3792	3811	3955	4023	4177	4183	4369	4736	4276	3460
<b>65.0</b>	4029	4044	4229	4341	4569	4642	4937	5319	4663	3562
<b>67.5</b>	4185	4228	4521	4804	5185	5326	5580	5701	4688	3254
<b>70.0</b>	3899	3922	4415	5189	5967	6173	6129	5646	4083	2411
<b>72.5</b>	3016	3139	3672	4749	6164	6392	6106	4819	2812	1330
<b>75.0</b>	1685	1831	2473	3571	4956	5175	5019	3283	1654	813
<b>77.5</b>	731	806	1178	1996	3156	3330	3204	2016	1010	550
<b>80.0</b>	377	416	710	1086	1543	1709	1767	1219	631	320
<b>82.5</b>	245	264	476	695	794	869	963	647	366	185
<b>85.0</b>	186	200	336	453	517	529	466	290	181	106
<b>87.5</b>	127	135	231	254	291	277	122	98	59	45
<b>90.0</b>	43	51	83	49	39	33	17	9	5	5
<b>92.5</b>	7	7	7	5	5	5	5	4	3	4
<b>95.0</b>	3	3	4	4	4	5	4	4	3	3
<b>97.5</b>	3	3	3	4	4	4	4	4	3	3
<b>100.0</b>	3	3	3	3	3	4	4	4	3	3
<b>102.5</b>	2	2	3	3	3	3	4	3	3	3
<b>105.0</b>	2	2	2	3	3	3	3	3	3	3
<b>107.5</b>	2	2	2	3	3	3	3	3	3	3
<b>110.0</b>	2	2	2	3	3	3	3	3	3	3
<b>112.5</b>	3	3	3	3	3	3	3	3	3	3
<b>115.0</b>	3	3	3	3	3	3	3	3	3	4
<b>117.5</b>	3	3	3	3	3	3	3	3	3	4
<b>120.0</b>	4	4	4	3	4	3	3	3	3	4
<b>122.5</b>	4	4	4	4	4	4	4	3	4	4
<b>125.0</b>	4	4	4	4	4	4	4	3	4	4
<b>127.5</b>	5	4	4	4	4	4	4	4	4	5
<b>130.0</b>	5	5	5	5	4	4	4	4	4	5

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-30.IES**

**CANDELA TABULATION - (Cont.)**

132.5	5	5	5	4	4	4	4	4	4	5
135.0	4	4	4	4	4	4	4	4	4	5
137.5	2	2	2	3	3	3	3	3	3	4
140.0	1	1	1	2	2	2	2	2	2	3
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	1	1	1	2	2	2	2	2	2	2
155.0	1	1	1	2	2	2	2	2	2	2
157.5	1	1	1	2	2	2	2	1	2	2
160.0	1	1	1	2	2	1	1	1	1	2
162.5	1	1	1	2	2	2	1	1	1	2
165.0	1	1	1	2	2	1	1	1	1	2
167.5	1	1	1	2	2	1	1	1	1	2
170.0	1	1	1	2	2	2	2	1	1	2
172.5	1	1	1	2	2	2	2	2	2	2
175.0	1	1	1	2	2	2	2	2	2	2
177.5	1	1	1	2	2	2	2	2	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	745	745	745	745	745	745	745	745	745	745
2.5	746	753	750	747	745	750	757	756	752	739
5.0	692	692	684	707	711	715	727	734	721	700
7.5	725	730	730	757	724	678	649	669	669	677
10.0	735	735	727	754	688	697	677	677	663	688
12.5	794	798	816	778	725	694	702	755	743	786
15.0	866	874	860	809	736	760	778	826	836	821
17.5	951	941	929	865	787	835	880	879	872	874
20.0	1064	1043	1025	890	838	894	895	921	935	922
22.5	1174	1150	1145	984	942	960	961	951	941	968
25.0	1295	1279	1242	1040	1067	1038	986	973	981	999
27.5	1380	1355	1330	1141	1146	1076	1017	1009	1038	1048
30.0	1455	1447	1405	1209	1215	1147	1065	1050	1042	1064
32.5	1499	1481	1437	1273	1269	1194	1126	1068	1069	1115
35.0	1558	1540	1489	1353	1297	1224	1161	1094	1090	1127
37.5	1599	1581	1532	1383	1310	1243	1166	1122	1087	1159
40.0	1620	1581	1522	1402	1316	1240	1177	1127	1103	1168
42.5	1632	1579	1504	1366	1270	1231	1162	1132	1114	1138
45.0	1662	1580	1497	1326	1218	1186	1129	1105	1121	1055
47.5	1711	1614	1509	1284	1157	1137	1083	1068	1066	979
50.0	1789	1673	1543	1250	1092	1080	1030	1040	975	904
52.5	1911	1760	1614	1227	1018	1017	979	998	894	835
55.0	2091	1886	1710	1223	947	950	921	931	822	765
57.5	2313	2047	1836	1237	881	885	864	861	740	674
60.0	2555	2210	1922	1261	819	826	803	777	654	602
62.5	2682	2240	1824	1237	754	760	739	700	573	539
65.0	2580	2029	1513	1130	684	692	668	631	508	491
67.5	2113	1543	1047	943	606	616	606	581	457	459
70.0	1265	949	627	675	519	540	549	537	418	431
72.5	657	492	406	473	422	455	491	480	369	368
75.0	438	313	263	335	318	362	414	382	253	253
77.5	280	199	175	231	241	282	299	247	194	209

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-30.IES**

**CANDELA TABULATION - (Cont.)**

80.0	149	117	125	169	188	196	192	188	154	162
82.5	93	75	89	127	131	124	140	142	105	120
85.0	57	43	54	78	77	78	93	81	51	75
87.5	24	15	22	35	37	38	31	31	21	31
90.0	5	4	8	12	13	11	9	6	2	1
92.5	4	4	8	11	12	11	8	5	2	2
95.0	4	3	7	10	12	10	8	5	3	2
97.5	4	3	6	9	10	9	7	5	3	3
100.0	3	3	5	7	8	8	6	5	4	3
102.5	3	4	5	5	7	6	6	5	4	4
105.0	3	4	5	5	5	5	5	5	4	4
107.5	4	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	3
115.0	4	4	5	5	5	5	5	5	4	4
117.5	4	5	5	5	5	5	5	5	5	4
120.0	5	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	5	4
132.5	5	5	5	5	5	5	5	4	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	2	3	2	2	2	1	0	0	0
150.0	2	2	3	2	2	1	1	0	0	0
152.5	2	2	3	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	2	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	745	745
2.5	737	738
5.0	692	698
7.5	682	689
10.0	712	714
12.5	794	799
15.0	856	878
17.5	902	904
20.0	955	947
22.5	966	983
25.0	1022	1032

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-30.IES**

**CANDELA TABULATION - (Cont.)**

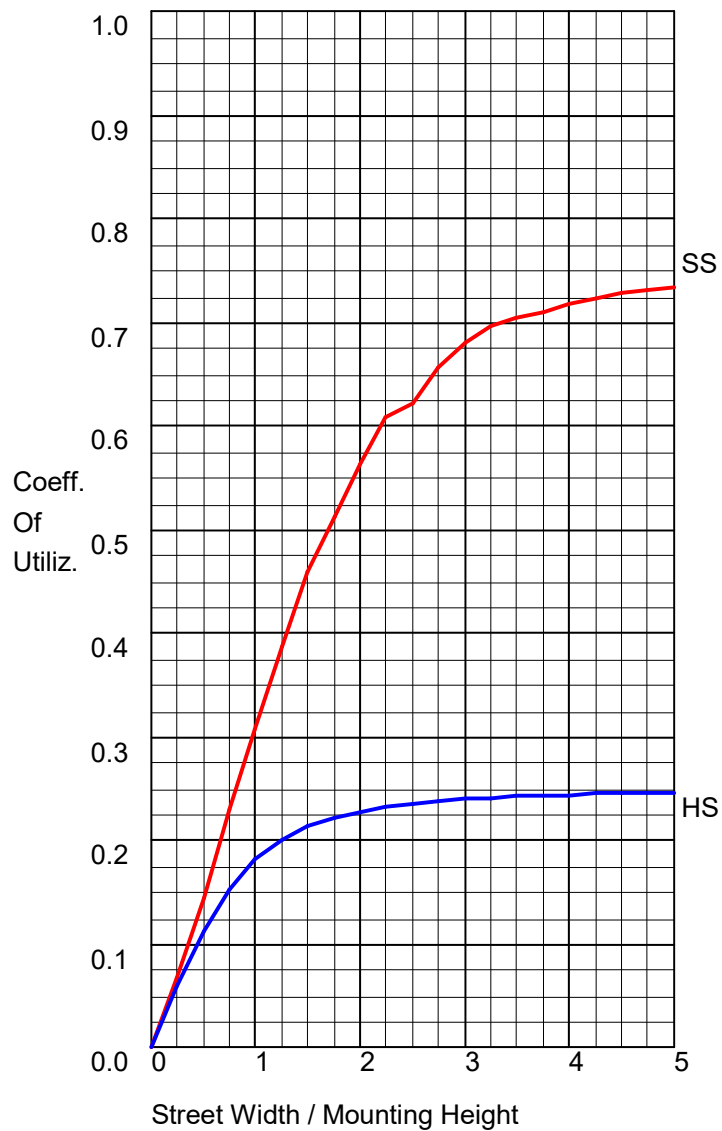
27.5	1053	1061
30.0	1081	1094
32.5	1132	1140
35.0	1148	1140
37.5	1183	1178
40.0	1179	1170
42.5	1094	1078
45.0	1014	1002
47.5	946	937
50.0	879	870
52.5	814	798
55.0	740	726
57.5	648	639
60.0	580	571
62.5	523	513
65.0	484	475
67.5	466	456
70.0	451	441
72.5	390	373
75.0	304	301
77.5	279	289
80.0	236	257
82.5	187	209
85.0	129	152
87.5	65	83
90.0	0	0
92.5	0	0
95.0	1	1
97.5	2	2
100.0	3	3
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	4	3
127.5	4	4
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**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-10L-30.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	1	1

### COEFFICIENTS OF UTILIZATION

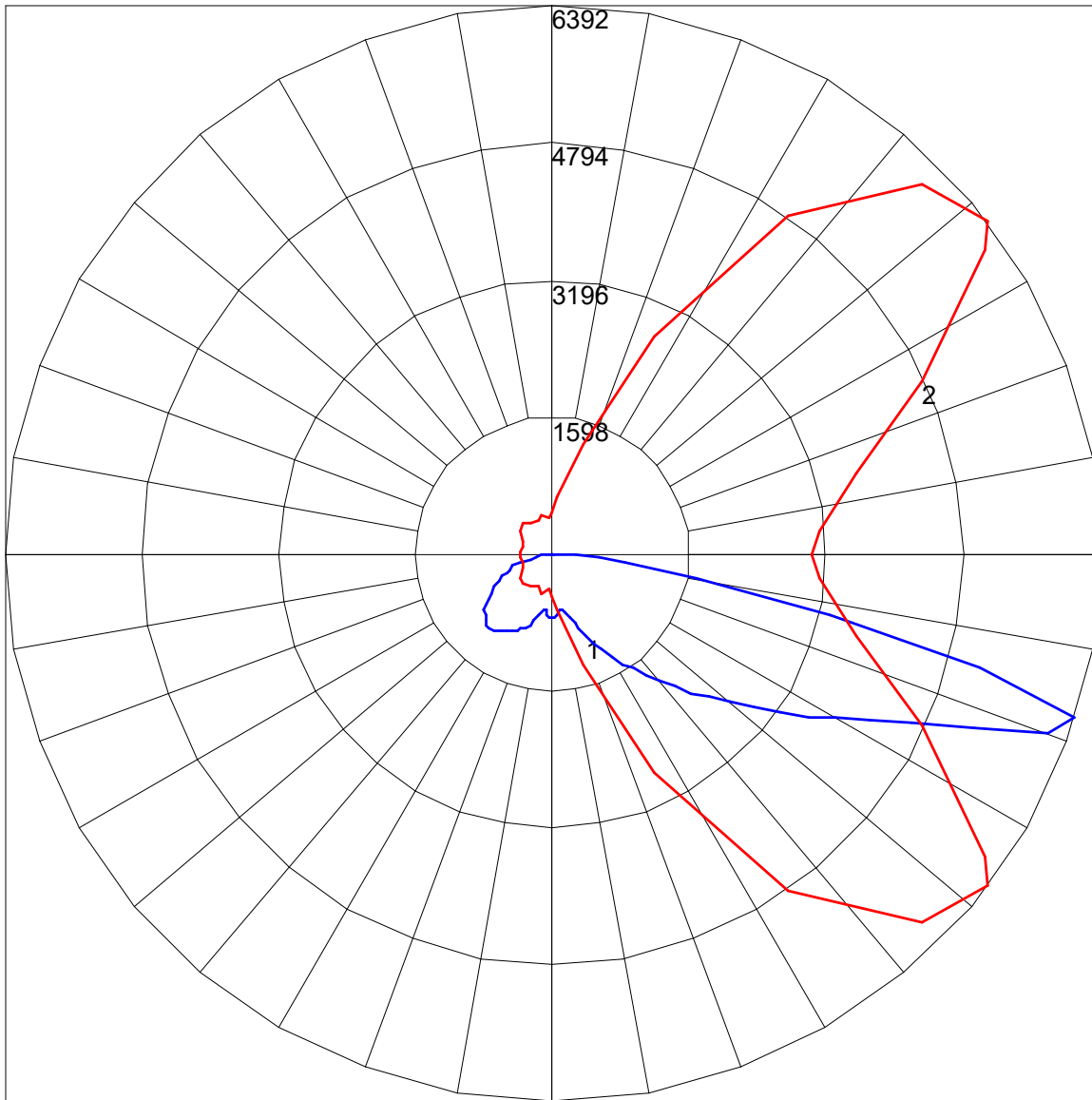


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	6808.0	74.7
Downward House Side	2276.9	25.0
Downward Total	9084.9	99.7
Upward Street Side	11.6	0.1
Upward House Side	12.3	0.1
Upward Total	23.9	0.3
Total Flux	9108.8	100.0

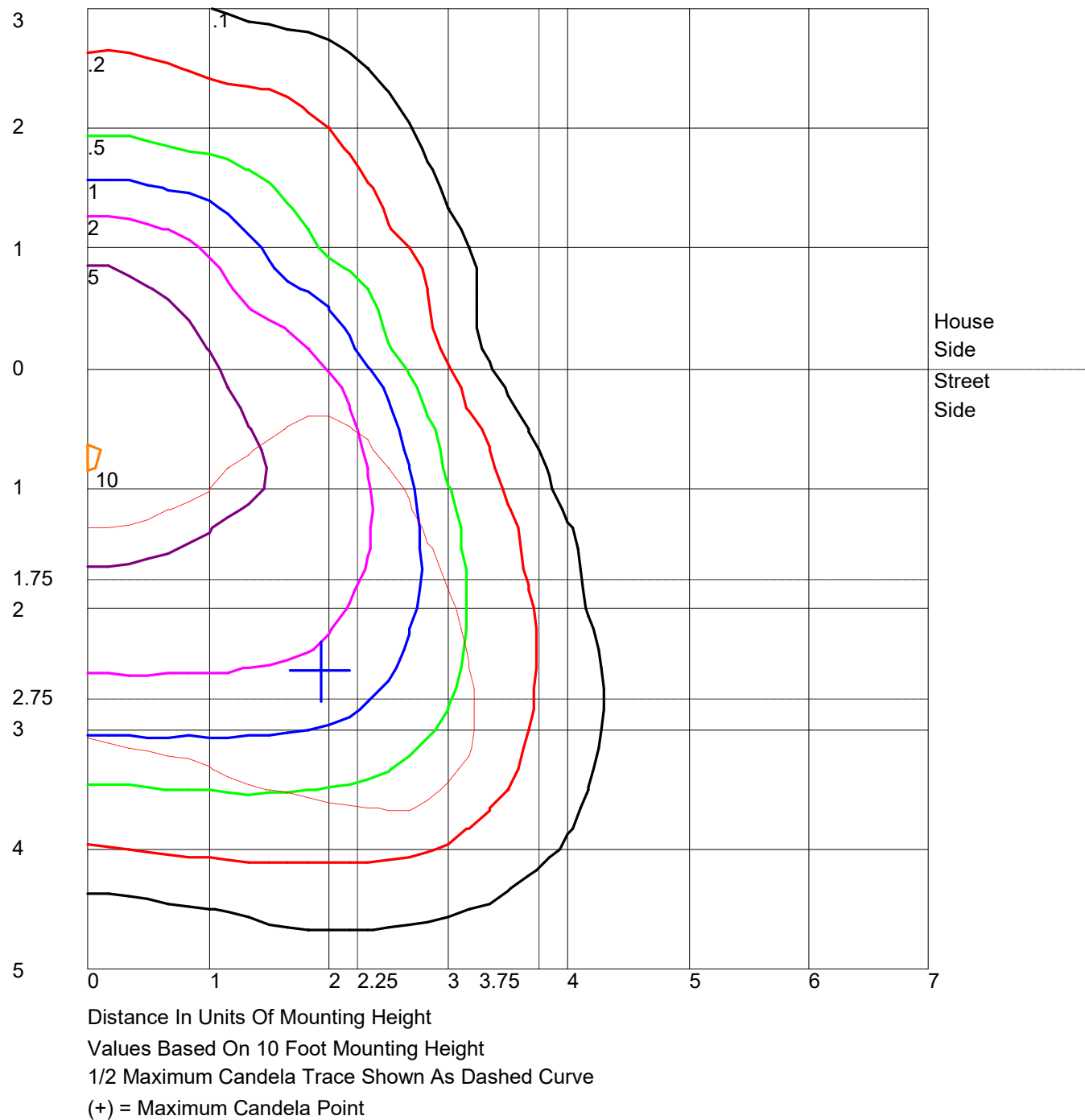


POLAR GRAPH

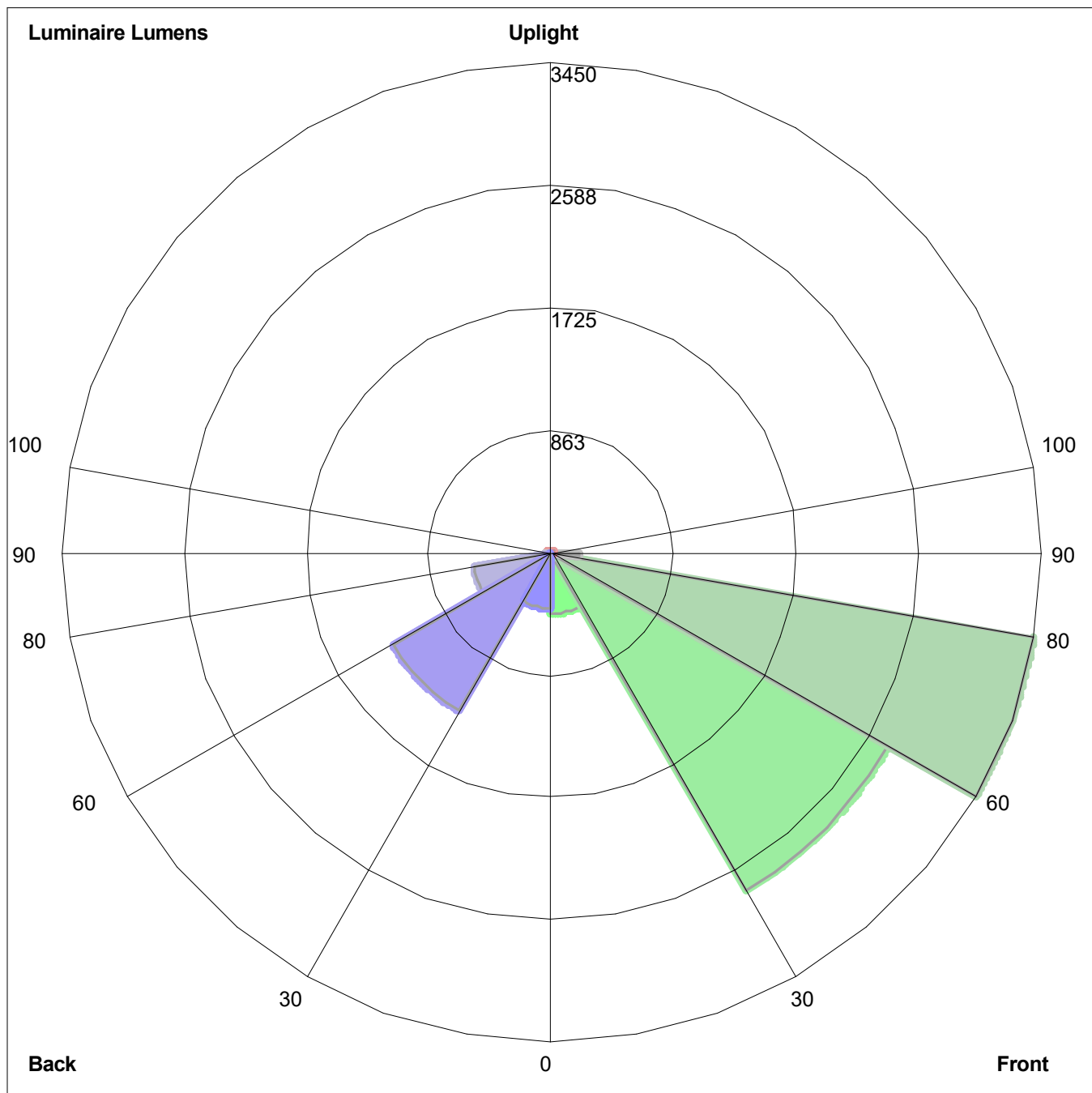


Maximum Candela = 6392 Located At Horizontal Angle = 37.5, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (37.5 - 217.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=428.9, Medium=2740.8, High=3450.3, Very High=188.0  
Back: Low=391.8, Medium=1288.3, High=550.9, Very High=45.9  
Uplight: Low=7.2, High=16.6

BUG Rating : B2-U2-G2