



## IES ROAD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11761  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/27/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-FT-LED-10L-30-IL  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6846
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4823
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	4823
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	20 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	606 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	382.8	N.A.	5.6
FM - Front-Medium (30-60)	3114.0	N.A.	45.5
FH - Front-High (60-80)	2259.2	N.A.	33.0
FVH - Front-Very High (80-90)	82.1	N.A.	1.2
BL - Back-Low (0-30)	260.4	N.A.	3.8
BM - Back-Medium (30-60)	613.5	N.A.	9.0
BH - Back-High (60-80)	107.3	N.A.	1.6
BVH - Back-Very High (80-90)	5.4	N.A.	0.1
UL - Uplight-Low (90-100)	5.1	N.A.	0.1
UH - Uplight-High (100-180)	16.5	N.A.	0.2
Total	6846.3	N.A.	100.0
BUG Rating	B1-U2-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0</b></u>	<u><b>5</b></u>	<u><b>15</b></u>	<u><b>25</b></u>	<u><b>35</b></u>	<u><b>40</b></u>	<u><b>45</b></u>	<u><b>55</b></u>	<u><b>65</b></u>	<u><b>75</b></u>
<b>0.0</b>	679	679	679	679	679	679	679	679	679	679
<b>2.5</b>	664	671	674	671	675	674	683	683	678	675
<b>5.0</b>	621	620	636	650	653	643	648	631	626	619
<b>7.5</b>	589	601	617	605	581	591	586	620	654	654
<b>10.0</b>	585	592	590	578	584	596	613	629	638	655
<b>12.5</b>	636	622	617	596	607	615	622	637	676	689
<b>15.0</b>	672	658	664	667	672	662	657	679	710	731
<b>17.5</b>	717	704	702	717	737	730	744	733	750	788
<b>20.0</b>	795	795	801	803	798	806	820	822	812	858
<b>22.5</b>	875	891	912	945	921	912	921	926	899	952
<b>25.0</b>	1013	1007	1024	1056	1110	1102	1069	1077	1037	1037
<b>27.5</b>	1238	1209	1228	1221	1252	1281	1275	1244	1195	1151
<b>30.0</b>	1404	1427	1428	1450	1436	1461	1467	1459	1350	1273
<b>32.5</b>	1767	1727	1673	1665	1683	1692	1683	1679	1533	1418
<b>35.0</b>	1958	1979	1925	1943	1913	1943	1907	1903	1740	1554
<b>37.5</b>	2267	2256	2173	2186	2201	2203	2145	2136	1953	1743
<b>40.0</b>	2460	2454	2473	2452	2459	2449	2435	2352	2193	1898
<b>42.5</b>	2608	2614	2627	2659	2708	2676	2660	2612	2421	2039
<b>45.0</b>	2747	2781	2788	2834	2952	2918	2936	2824	2635	2188
<b>47.5</b>	2917	2957	2980	3037	3166	3154	3189	3053	2841	2362
<b>50.0</b>	3103	3137	3175	3270	3402	3427	3463	3334	3098	2533
<b>52.5</b>	3235	3271	3338	3463	3666	3781	3738	3624	3306	2643
<b>55.0</b>	3351	3381	3476	3651	3961	4057	4036	3894	3459	2725
<b>57.5</b>	3474	3506	3623	3845	4218	4298	4289	4098	3550	2726
<b>60.0</b>	3565	3597	3754	4050	4429	4545	4531	4225	3543	2630
<b>62.5</b>	3588	3618	3857	4254	4619	4735	4685	4223	3435	2440
<b>65.0</b>	3296	3356	3695	4255	4721	4823	4765	4082	3162	2119
<b>67.5</b>	2778	2815	3223	3888	4516	4648	4523	3776	2748	1724
<b>70.0</b>	1526	1661	2207	3149	3883	4092	3971	3233	2196	1215
<b>72.5</b>	664	721	1014	1748	2772	3090	3167	2451	1525	761
<b>75.0</b>	501	531	683	956	1398	1601	1802	1599	939	504
<b>77.5</b>	401	427	568	751	872	889	910	896	599	358
<b>80.0</b>	321	349	475	589	606	576	539	441	379	240
<b>82.5</b>	241	261	342	386	318	293	245	186	186	158
<b>85.0</b>	133	139	175	174	125	119	99	82	87	89
<b>87.5</b>	44	50	60	56	40	36	29	27	26	33
<b>90.0</b>	15	16	20	16	12	10	7	5	4	5
<b>92.5</b>	7	7	5	4	4	4	4	4	4	4
<b>95.0</b>	1	1	2	2	4	4	4	4	4	4
<b>97.5</b>	1	1	2	2	3	3	4	4	4	4
<b>100.0</b>	1	1	2	2	3	3	3	3	3	4
<b>102.5</b>	1	1	2	2	3	3	3	3	3	3
<b>105.0</b>	2	1	2	2	3	3	3	3	3	3
<b>107.5</b>	2	2	2	2	3	3	3	3	3	3
<b>110.0</b>	2	2	2	2	3	3	3	3	3	3
<b>112.5</b>	2	2	2	2	3	3	3	3	3	4
<b>115.0</b>	2	2	2	3	3	3	4	3	3	4
<b>117.5</b>	3	3	3	3	3	4	4	4	4	4
<b>120.0</b>	3	3	3	3	4	4	4	4	4	4
<b>122.5</b>	4	4	4	3	4	4	4	4	4	4
<b>125.0</b>	4	4	4	4	4	4	4	4	4	4
<b>127.5</b>	4	4	4	4	4	4	4	4	4	4
<b>130.0</b>	4	4	4	4	4	4	4	4	4	5

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**CANDELA TABULATION - (Cont.)**

132.5	4	4	4	4	4	4	4	4	4	5
135.0	4	4	4	4	4	4	4	4	4	4
137.5	2	2	2	2	3	3	3	3	3	4
140.0	0	0	1	2	2	2	2	2	3	3
142.5	0	0	1	2	2	2	2	2	2	3
145.0	0	0	1	2	2	2	2	2	2	2
147.5	0	0	1	2	2	2	2	2	2	2
150.0	0	0	1	2	2	2	2	2	2	2
152.5	0	0	1	2	2	2	2	2	2	2
155.0	0	0	1	2	2	2	2	2	2	2
157.5	0	0	1	2	2	2	2	2	2	2
160.0	0	0	1	2	2	2	2	2	2	2
162.5	0	0	1	2	2	2	2	2	2	2
165.0	0	0	1	2	2	2	2	2	2	2
167.5	0	0	1	2	2	2	2	2	2	2
170.0	0	0	1	2	2	2	2	2	2	2
172.5	0	0	1	2	2	2	2	2	2	2
175.0	0	0	1	2	2	2	2	2	2	2
177.5	0	0	1	1	2	2	2	2	2	2
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	679	679	679	679	679	679	679	679	679	679
2.5	681	683	676	676	676	679	683	685	674	663
5.0	632	635	630	641	646	654	662	664	659	638
7.5	648	661	660	679	658	625	599	613	614	634
10.0	662	653	658	665	638	632	617	613	587	614
12.5	683	694	709	702	665	624	622	643	622	625
15.0	752	744	747	714	666	678	668	626	580	532
17.5	786	792	785	767	703	702	664	562	466	411
20.0	879	863	862	779	732	713	581	466	396	373
22.5	958	947	944	860	776	676	504	413	379	369
25.0	1058	1044	1025	917	816	620	449	398	385	386
27.5	1149	1129	1097	1003	840	559	439	404	414	426
30.0	1227	1225	1166	1042	807	549	448	422	451	472
32.5	1338	1283	1214	1056	777	549	464	444	489	546
35.0	1426	1392	1277	1065	728	558	475	461	535	609
37.5	1555	1489	1366	1042	697	560	477	477	564	639
40.0	1639	1529	1390	1016	677	556	471	474	568	581
42.5	1714	1569	1403	979	647	545	451	441	500	438
45.0	1811	1614	1428	935	616	519	414	369	365	310
47.5	1891	1658	1449	892	579	473	353	286	251	217
50.0	1956	1672	1442	856	529	408	286	216	176	159
52.5	2000	1681	1418	828	462	317	213	158	127	119
55.0	2018	1670	1378	788	373	224	145	109	91	90
57.5	1970	1619	1316	719	279	148	101	77	66	66
60.0	1841	1513	1212	607	193	111	78	57	48	47
62.5	1652	1333	1047	487	139	91	62	43	33	33
65.0	1407	1085	820	359	111	73	49	33	24	24
67.5	1051	804	535	223	90	60	38	26	18	16
70.0	689	525	314	129	68	45	30	22	14	13
72.5	402	301	192	84	45	33	24	17	11	7
75.0	286	205	130	59	33	24	19	13	5	4
77.5	202	141	90	44	25	20	14	7	3	2

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**CANDELA TABULATION - (Cont.)**

80.0	124	90	63	33	21	16	12	5	2	2
82.5	83	62	44	23	16	14	10	5	2	1
85.0	55	38	25	14	14	12	9	5	1	1
87.5	25	15	11	9	10	9	6	4	1	1
90.0	5	4	5	8	10	9	6	4	1	1
92.5	4	4	6	9	10	9	7	5	2	2
95.0	4	3	6	9	10	9	7	5	2	2
97.5	4	3	5	7	8	7	6	5	3	2
100.0	4	3	4	5	6	6	5	5	3	2
102.5	4	3	4	5	5	5	5	4	3	2
105.0	3	3	4	4	5	5	5	4	3	3
107.5	3	3	4	4	5	5	5	4	4	3
110.0	3	4	4	4	5	5	4	4	3	3
112.5	4	4	4	4	5	5	4	4	4	3
115.0	4	4	4	4	5	5	5	4	4	3
117.5	4	4	4	5	5	5	5	5	4	4
120.0	4	4	4	5	5	5	5	5	5	4
122.5	4	5	5	5	5	5	5	5	5	4
125.0	4	5	5	5	5	5	5	5	5	4
127.5	5	5	5	5	5	5	5	5	5	5
130.0	5	5	5	5	5	5	5	5	5	5
132.5	5	5	5	5	5	5	5	5	5	4
135.0	5	5	5	5	5	5	5	4	4	4
137.5	4	4	4	4	4	4	4	3	3	2
140.0	3	3	3	3	3	3	3	2	2	1
142.5	3	3	3	3	3	3	2	2	2	1
145.0	3	3	3	3	3	3	2	2	1	1
147.5	3	3	3	3	3	3	2	2	1	1
150.0	2	3	3	3	3	2	2	2	1	0
152.5	2	3	3	3	3	2	2	2	1	0
155.0	2	2	2	2	2	2	2	2	1	0
157.5	2	2	2	2	2	2	2	1	1	0
160.0	2	2	2	2	2	2	2	1	1	0
162.5	2	2	2	2	2	2	2	1	0	0
165.0	2	2	2	2	2	2	1	1	0	0
167.5	2	2	2	2	2	2	1	1	0	0
170.0	2	2	2	2	2	2	1	1	0	0
172.5	2	2	2	2	2	2	1	1	0	0
175.0	2	2	2	2	2	2	1	1	0	0
177.5	2	2	2	2	2	1	1	1	0	0
180.0	1	1	1	1	1	1	1	1	1	1

**Vert. Horizontal Angles**  
**Angles**

	<u>175</u>	<u>180</u>
0.0	679	679
2.5	664	670
5.0	632	639
7.5	627	622
10.0	632	617
12.5	624	615
15.0	533	532
17.5	406	404
20.0	377	378
22.5	378	385
25.0	407	420

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

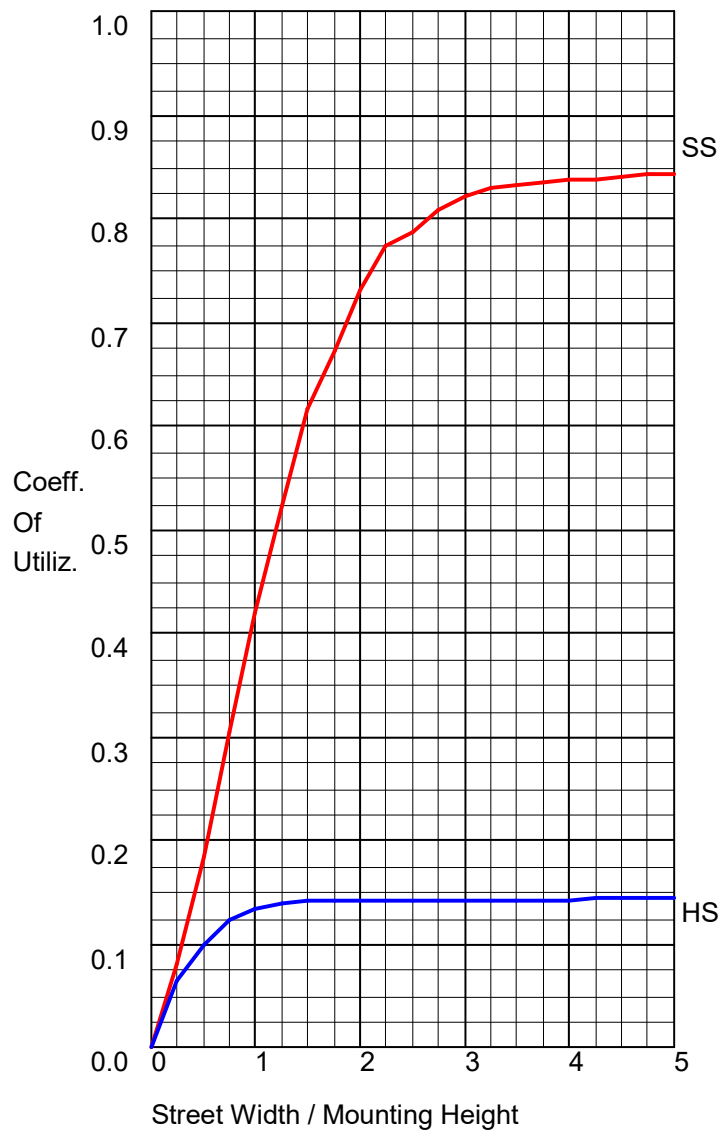
27.5	451	473
30.0	511	516
32.5	597	601
35.0	636	644
37.5	627	620
40.0	517	507
42.5	385	377
45.0	288	286
47.5	218	220
50.0	168	166
52.5	129	129
55.0	99	99
57.5	75	77
60.0	57	59
62.5	43	44
65.0	33	33
67.5	23	24
70.0	16	18
72.5	9	9
75.0	4	4
77.5	1	1
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	1	1
97.5	1	1
100.0	2	2
102.5	2	2
105.0	2	2
107.5	2	2
110.0	2	2
112.5	3	2
115.0	3	3
117.5	3	3
120.0	4	3
122.5	4	4
125.0	4	4
127.5	4	4
130.0	4	4
132.5	4	4
135.0	3	3
137.5	2	2
140.0	1	1
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-IL.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

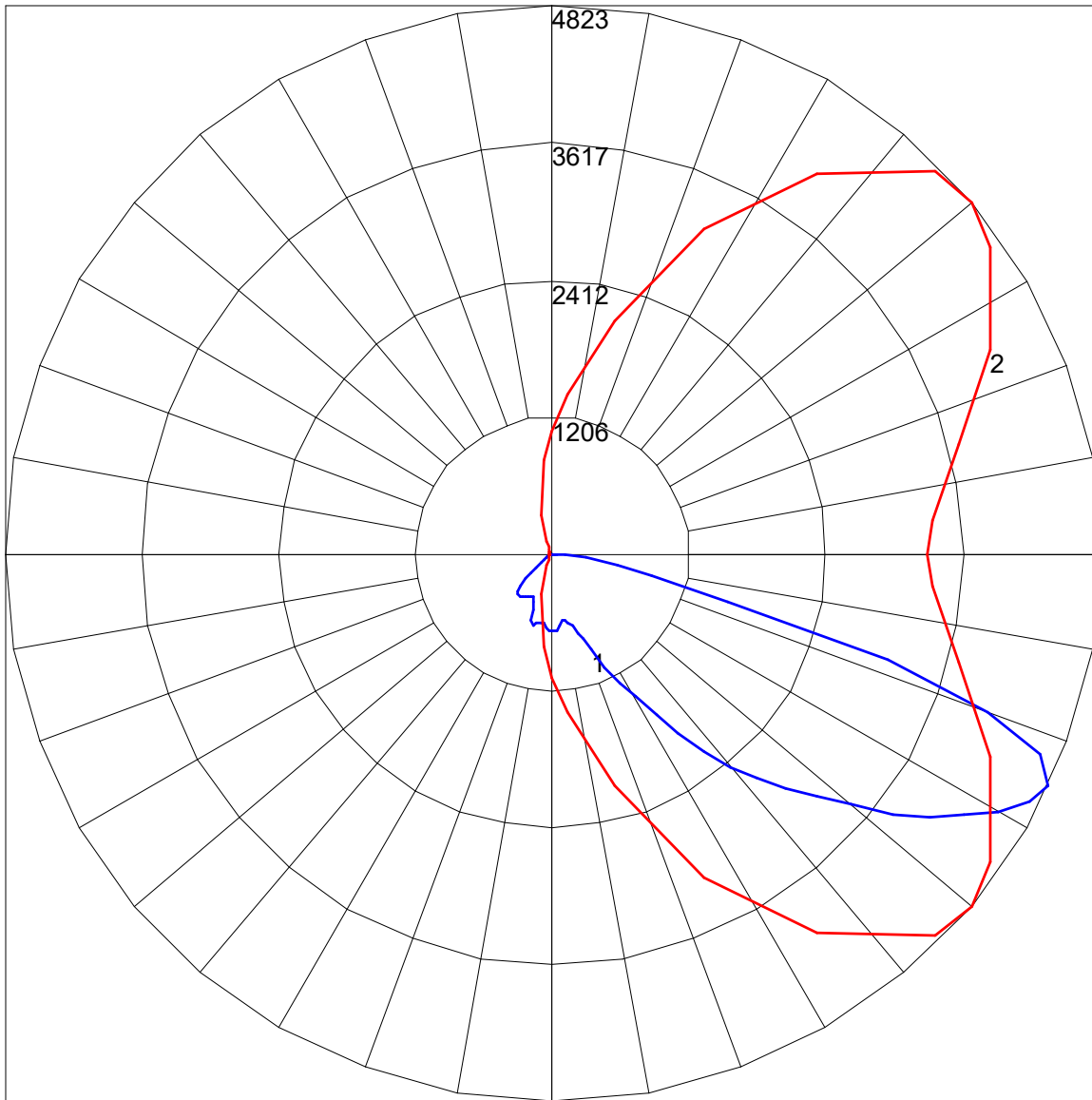


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	5838.2	85.3
Downward House Side	986.6	14.4
Downward Total	6824.8	99.7
Upward Street Side	9.8	0.1
Upward House Side	11.9	0.2
Upward Total	21.7	0.3
Total Flux	6846.5	100.0

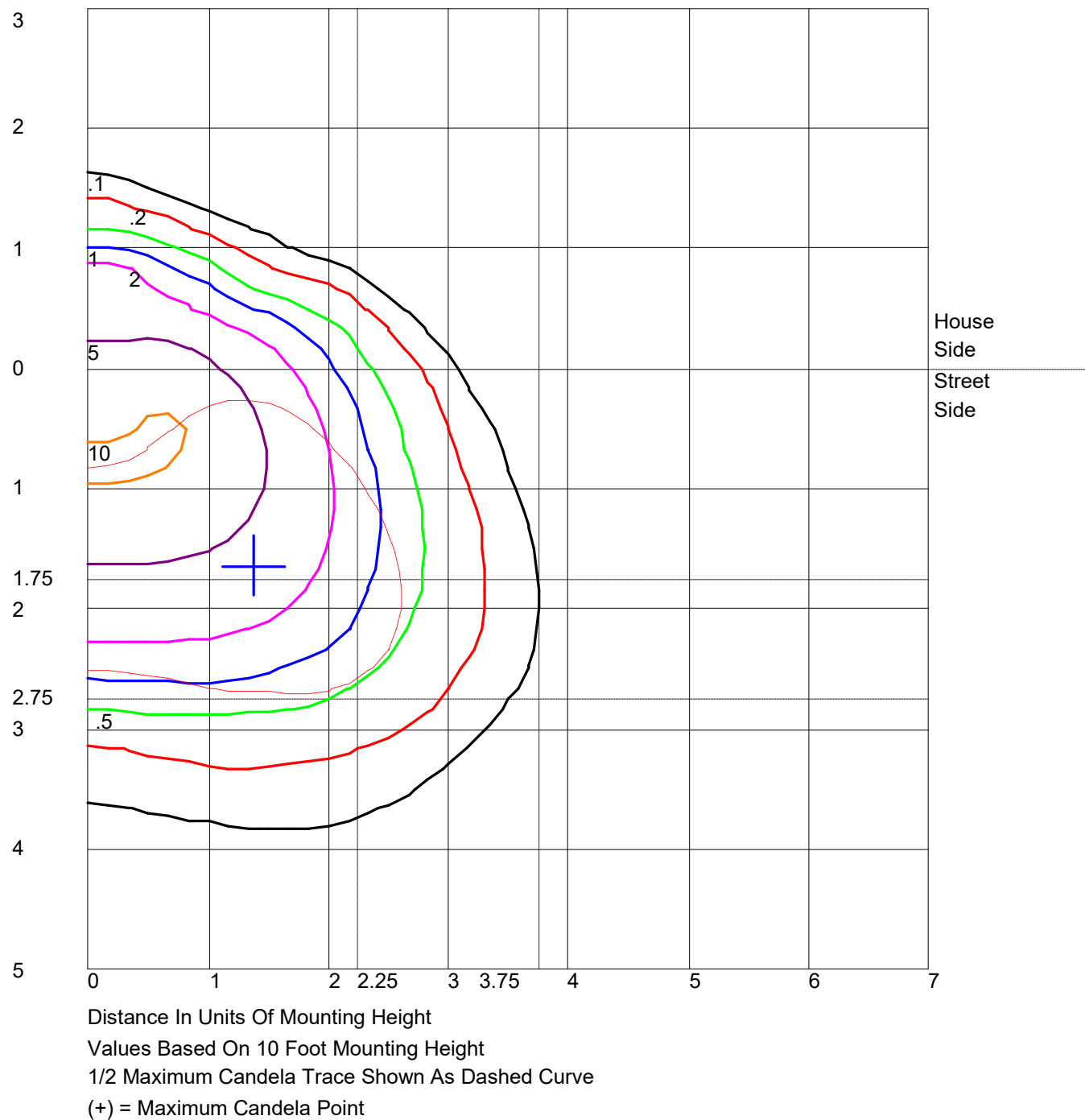


POLAR GRAPH

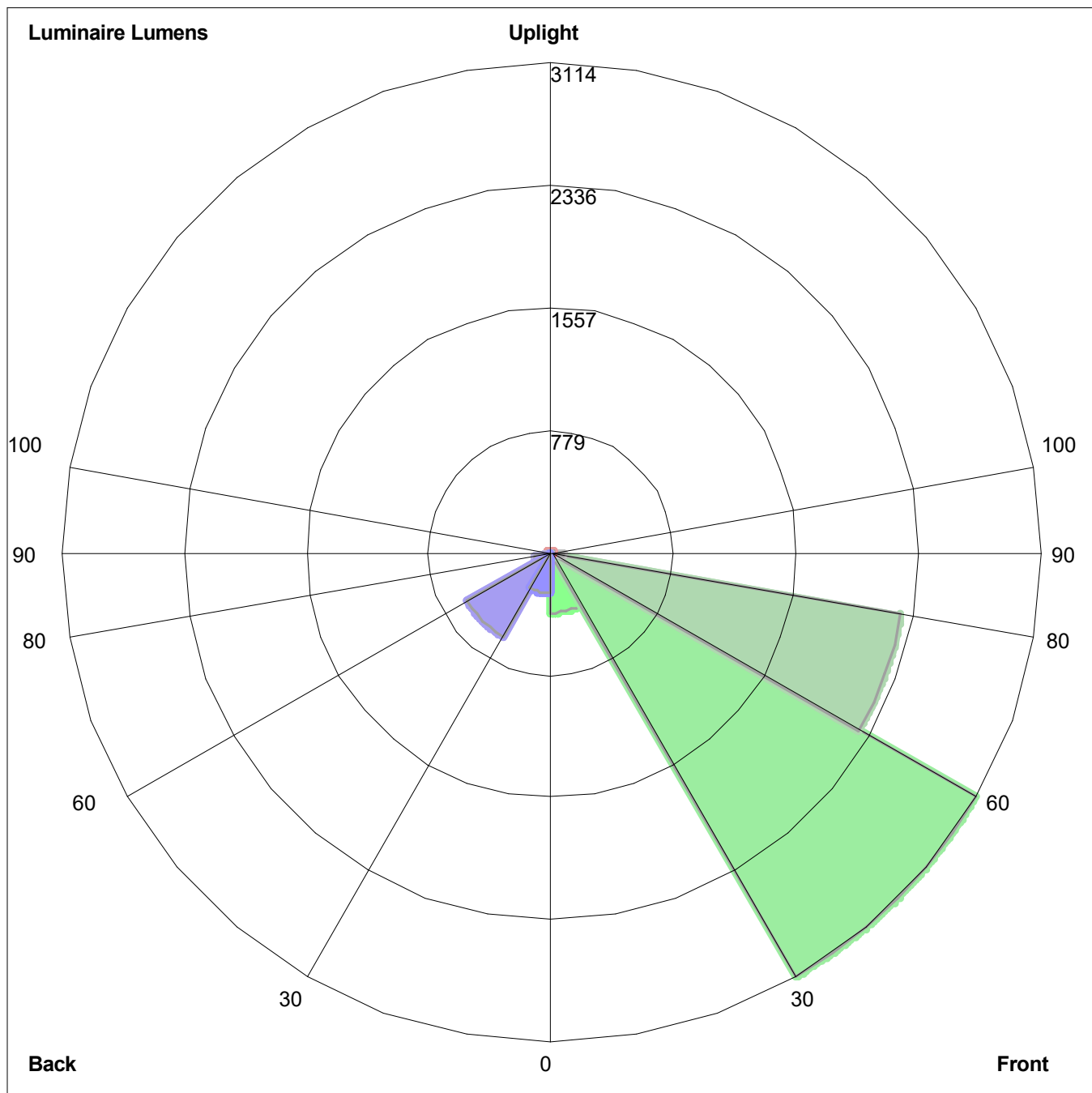


Maximum Candela = 4823 Located At Horizontal Angle = 40, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=382.8, Medium= 3114.0, High=2259.2, Very High=82.1  
Back: Low=260.4, Medium=613.5, High=107.3, Very High=5.4  
Uplight: Low=5.1, High=16.5

BUG Rating : B1-U2-G2