



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-40.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11677  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/02/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-3-LED-10L-40  
[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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10341
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	77.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10151
Maximum Candela Angle	57.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	10151
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 67.5V
Maximum Candela At 90 Degrees Vertical	46 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	873 (8.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	301.3	N.A.	2.9
FM - Front-Medium (30-60)	4237.6	N.A.	41.0
FH - Front-High (60-80)	3576.3	N.A.	34.6
FVH - Front-Very High (80-90)	87.5	N.A.	0.8
BL - Back-Low (0-30)	300.4	N.A.	2.9
BM - Back-Medium (30-60)	1188.8	N.A.	11.5
BH - Back-High (60-80)	565.9	N.A.	5.5
BVH - Back-Very High (80-90)	54.5	N.A.	0.5
UL - Uplight-Low (90-100)	9.4	N.A.	0.1
UH - Uplight-High (100-180)	19.1	N.A.	0.2
Total	10340.8	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>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	512	512	512	512	512	512	512	512	512	512
2.5	497	499	496	492	494	496	505	506	507	504
5.0	444	447	456	465	476	463	463	462	462	467
7.5	424	431	445	434	432	432	446	457	479	476
10.0	427	425	425	420	430	456	467	470	473	481
12.5	442	443	443	429	448	462	476	478	489	502
15.0	466	467	468	475	489	485	504	511	521	532
17.5	503	502	495	506	517	536	532	542	551	571
20.0	587	581	569	565	576	588	603	605	605	615
22.5	657	668	673	687	679	684	710	705	681	688
25.0	808	789	811	836	844	838	870	857	828	795
27.5	1062	1073	1075	1051	1055	1100	1080	1052	1056	977
30.0	1390	1357	1331	1369	1338	1398	1368	1343	1303	1168
32.5	1790	1783	1664	1650	1706	1735	1715	1693	1610	1441
35.0	2091	2099	2035	2008	2042	2131	2068	2044	1908	1672
37.5	2486	2464	2395	2389	2425	2494	2412	2394	2182	1879
40.0	2828	2820	2798	2815	2820	2849	2724	2695	2419	2070
42.5	3200	3195	3195	3203	3218	3182	3052	2971	2650	2204
45.0	3693	3714	3707	3708	3657	3590	3325	3241	2848	2327
47.5	4424	4397	4397	4396	4192	3992	3605	3525	3045	2466
50.0	5253	5221	5263	5227	4901	4453	3936	3810	3292	2641
52.5	6108	6073	6141	6108	5765	5051	4339	4160	3597	2872
55.0	6745	6765	6913	6944	6665	5781	4861	4675	4029	3221
57.5	6849	6886	7236	7588	7681	6683	5614	5402	4645	3841
60.0	6099	6181	6873	7505	8299	7753	6668	6450	5586	4638
62.5	4045	4158	4982	6280	8009	8616	8071	7835	6786	5509
65.0	2063	2119	2532	3890	6806	8713	9467	9323	7882	6095
67.5	970	963	1167	1940	4316	7677	10036	10151	8502	6053
70.0	518	545	672	1033	2207	5600	9109	9396	8148	4774
72.5	294	314	415	676	1282	2885	6425	7021	5754	2796
75.0	208	215	280	476	868	1531	3329	3770	3064	1161
77.5	153	159	217	397	649	899	1638	1845	1308	478
80.0	111	117	167	323	519	562	755	873	667	239
82.5	76	81	127	231	384	363	321	357	317	143
85.0	56	59	95	177	223	210	152	162	154	89
87.5	48	50	70	128	136	79	52	54	59	45
90.0	25	29	37	43	46	20	14	14	12	11
92.5	8	8	11	10	6	6	7	7	7	6
95.0	4	4	4	3	3	4	6	6	6	5
97.5	4	4	3	3	3	4	5	5	5	5
100.0	3	3	3	3	3	3	4	4	4	4
102.5	3	3	2	3	3	3	3	3	3	4
105.0	2	2	2	3	3	3	3	3	3	4
107.5	2	2	2	3	3	3	3	3	3	4
110.0	3	3	3	3	3	3	3	3	3	4
112.5	3	3	3	3	3	3	3	3	3	4
115.0	3	3	3	3	3	4	3	3	3	4
117.5	3	3	3	3	3	4	3	3	3	4
120.0	3	3	3	3	4	4	3	3	4	4
122.5	4	4	4	4	4	4	3	3	4	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	4	4	4	4	4	4	4	4	4

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**CANDELA TABULATION - (Cont.)**

132.5	4	4	4	4	4	4	4	4	4	4
135.0	4	4	4	3	4	4	4	4	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	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	1	1	2	2	2	2	2
152.5	1	1	1	1	1	1	2	2	2	2
155.0	1	1	1	1	1	1	1	2	2	2
157.5	0	1	1	1	1	1	1	1	2	2
160.0	0	0	1	1	1	1	1	1	2	2
162.5	0	0	1	1	1	1	1	1	1	2
165.0	0	1	1	1	1	1	1	1	1	2
167.5	0	0	1	1	1	1	1	1	1	2
170.0	0	0	1	1	1	2	2	1	2	2
172.5	1	0	1	1	2	2	2	2	2	2
175.0	0	1	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>85.0</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	512	512	512	512	512	512	512	512	512	512
2.5	510	515	516	515	518	523	530	535	528	519
5.0	472	473	475	496	510	518	534	537	538	527
7.5	488	489	499	529	521	512	502	522	515	534
10.0	487	491	501	526	515	536	535	538	538	555
12.5	515	521	540	545	543	543	561	602	604	635
15.0	542	550	556	557	551	591	619	663	677	669
17.5	575	572	581	590	581	653	700	715	714	716
20.0	620	616	621	595	619	696	720	754	768	765
22.5	689	673	677	652	695	749	781	788	784	801
25.0	792	764	752	689	785	815	797	809	820	837
27.5	918	861	844	766	851	859	834	847	868	884
30.0	1066	992	940	833	892	930	885	885	900	919
32.5	1207	1117	1026	897	940	992	962	936	964	1026
35.0	1386	1247	1119	953	958	1033	1017	1000	1054	1131
37.5	1521	1358	1182	977	968	1055	1042	1072	1125	1262
40.0	1621	1406	1198	986	967	1062	1051	1088	1225	1307
42.5	1690	1443	1199	952	931	1047	1034	1095	1336	1286
45.0	1771	1482	1203	918	886	1004	1010	1071	1460	1177
47.5	1863	1535	1217	886	843	955	979	1043	1490	1117
50.0	1986	1624	1259	869	803	912	946	1021	1476	1098
52.5	2176	1750	1332	865	764	875	908	984	1406	1086
55.0	2406	1945	1467	877	733	833	866	934	1288	1074
57.5	2809	2232	1641	889	698	782	818	862	1121	1029
60.0	3412	2582	1689	864	655	717	761	771	923	1010
62.5	4078	2818	1563	774	604	642	687	681	736	988
65.0	4323	2769	1221	653	551	574	598	612	586	956
67.5	3834	2445	900	535	491	505	530	555	500	896
70.0	2568	1643	569	431	420	431	463	506	456	756
72.5	1196	742	333	336	341	358	391	447	402	561
75.0	444	317	212	262	285	304	325	354	279	359
77.5	210	154	154	214	240	258	239	221	185	247

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**CANDELA TABULATION - (Cont.)**

80.0	119	98	126	183	205	184	148	171	133	176
82.5	81	69	104	156	151	120	114	130	84	125
85.0	51	46	83	122	97	86	81	66	39	77
87.5	24	24	59	81	57	46	33	29	17	37
90.0	8	6	22	32	24	21	15	9	4	5
92.5	5	6	11	18	21	19	14	7	2	1
95.0	5	5	10	16	20	18	13	7	2	1
97.5	4	5	8	14	17	16	11	7	2	1
100.0	4	5	7	11	14	13	10	6	2	1
102.5	4	5	6	9	11	11	8	6	2	1
105.0	4	5	6	8	10	9	8	5	3	2
107.5	4	5	5	7	8	8	7	5	3	2
110.0	4	5	5	6	7	8	7	5	3	2
112.5	4	5	5	6	7	7	7	5	3	2
115.0	4	5	6	6	7	7	7	5	4	3
117.5	5	5	5	6	7	7	7	6	4	3
120.0	5	5	6	7	8	8	7	6	4	3
122.5	5	5	6	7	8	8	7	6	4	3
125.0	5	6	6	7	8	8	7	6	4	3
127.5	5	6	6	7	8	8	7	6	5	4
130.0	5	5	6	6	7	7	7	6	4	3
132.5	5	5	6	6	7	7	7	6	4	4
135.0	5	5	6	6	6	6	6	5	4	3
137.5	4	4	5	5	6	5	5	4	3	2
140.0	3	4	4	4	5	5	4	3	2	1
142.5	3	3	4	4	4	4	3	3	1	0
145.0	3	3	3	4	4	4	3	2	1	0
147.5	3	3	3	4	4	4	3	2	1	0
150.0	3	3	3	4	4	3	3	2	1	0
152.5	3	3	3	3	4	3	3	2	1	0
155.0	3	3	3	3	3	3	2	1	0	0
157.5	2	3	3	3	3	3	2	1	0	0
160.0	2	3	3	3	3	3	2	1	0	0
162.5	2	2	3	3	3	3	2	1	0	0
165.0	2	2	3	3	3	3	2	1	0	0
167.5	2	2	2	3	3	2	2	1	0	0
170.0	2	2	3	3	3	2	2	1	0	0
172.5	2	2	2	3	3	2	2	1	0	0
175.0	2	2	2	3	3	2	2	1	0	0
177.5	2	2	2	2	2	2	2	1	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	512	512
2.5	521	523
5.0	524	531
7.5	536	545
10.0	570	576
12.5	635	644
15.0	692	712
17.5	742	749
20.0	785	790
22.5	795	823
25.0	845	864

IES ROAD REPORT  
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CANDELA TABULATION - (Cont.)

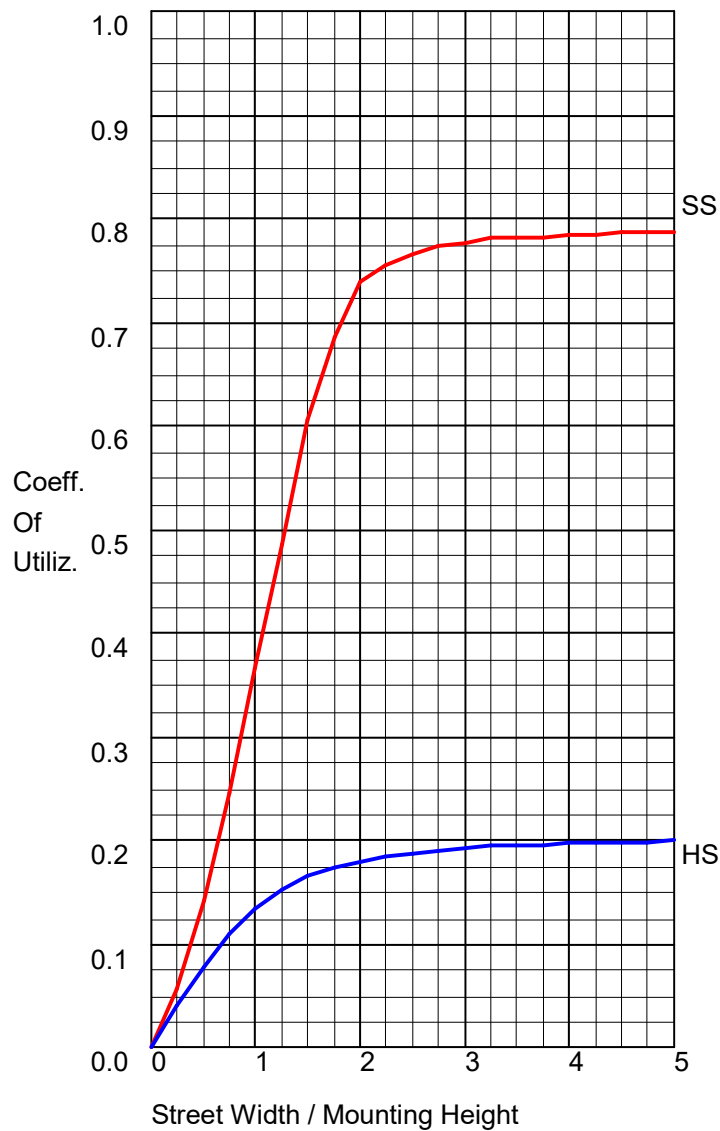
27.5	885	902
30.0	939	964
32.5	1054	1066
35.0	1196	1205
37.5	1283	1280
40.0	1204	1185
42.5	1040	1017
45.0	947	922
47.5	892	868
50.0	853	820
52.5	814	776
55.0	753	708
57.5	694	635
60.0	676	591
62.5	684	561
65.0	734	576
67.5	821	650
70.0	885	779
72.5	832	833
75.0	688	807
77.5	577	695
80.0	436	516
82.5	302	349
85.0	212	235
87.5	139	182
90.0	9	2
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	1	0
110.0	1	1
112.5	1	1
115.0	1	1
117.5	2	1
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	2	2
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

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**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

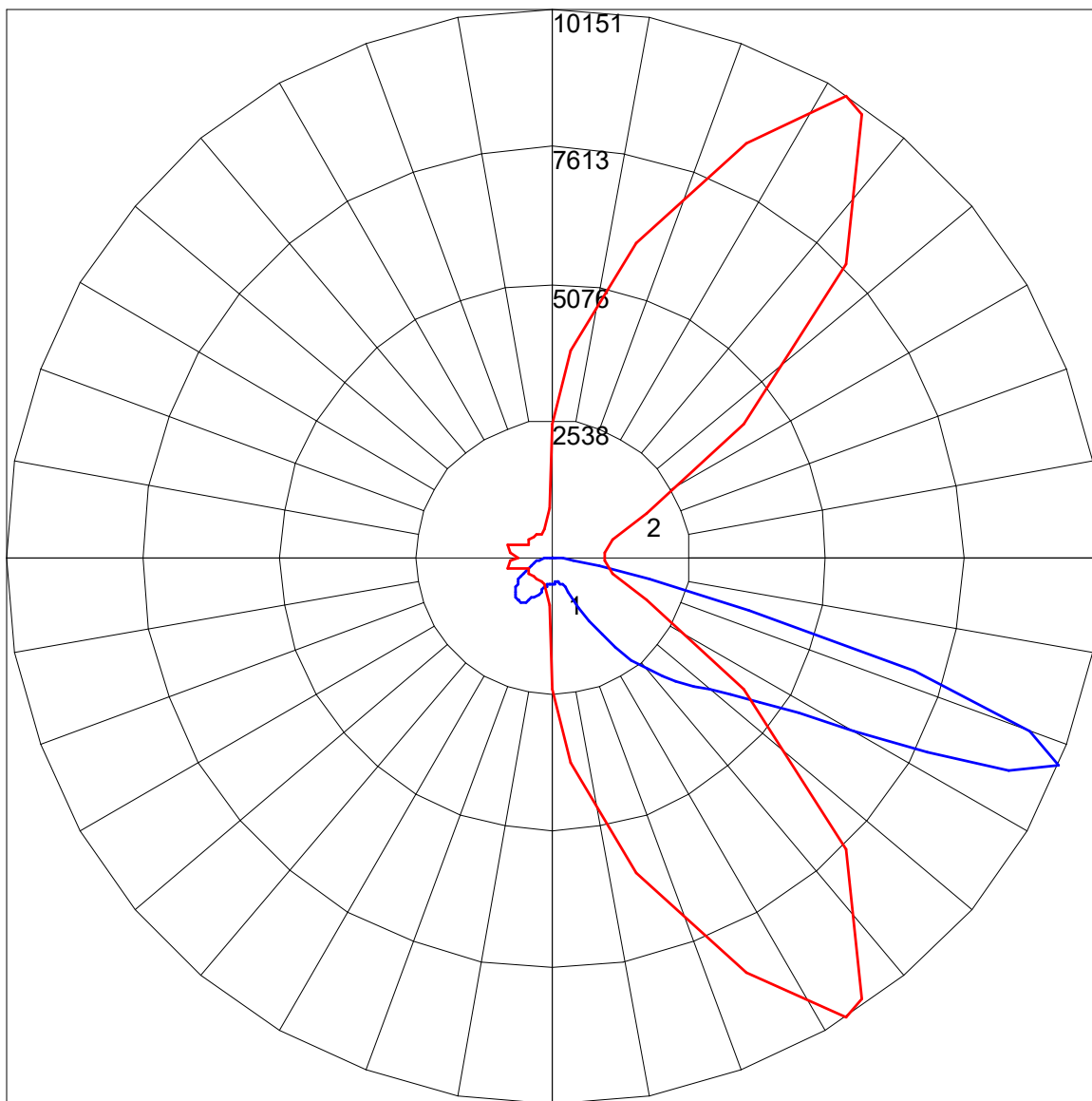


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	8202.8	79.3
Downward House Side	2109.7	20.4
Downward Total	10312.5	99.7
Upward Street Side	11.8	0.1
Upward House Side	16.7	0.2
Upward Total	28.5	0.3
Total Flux	10341.0	100.0

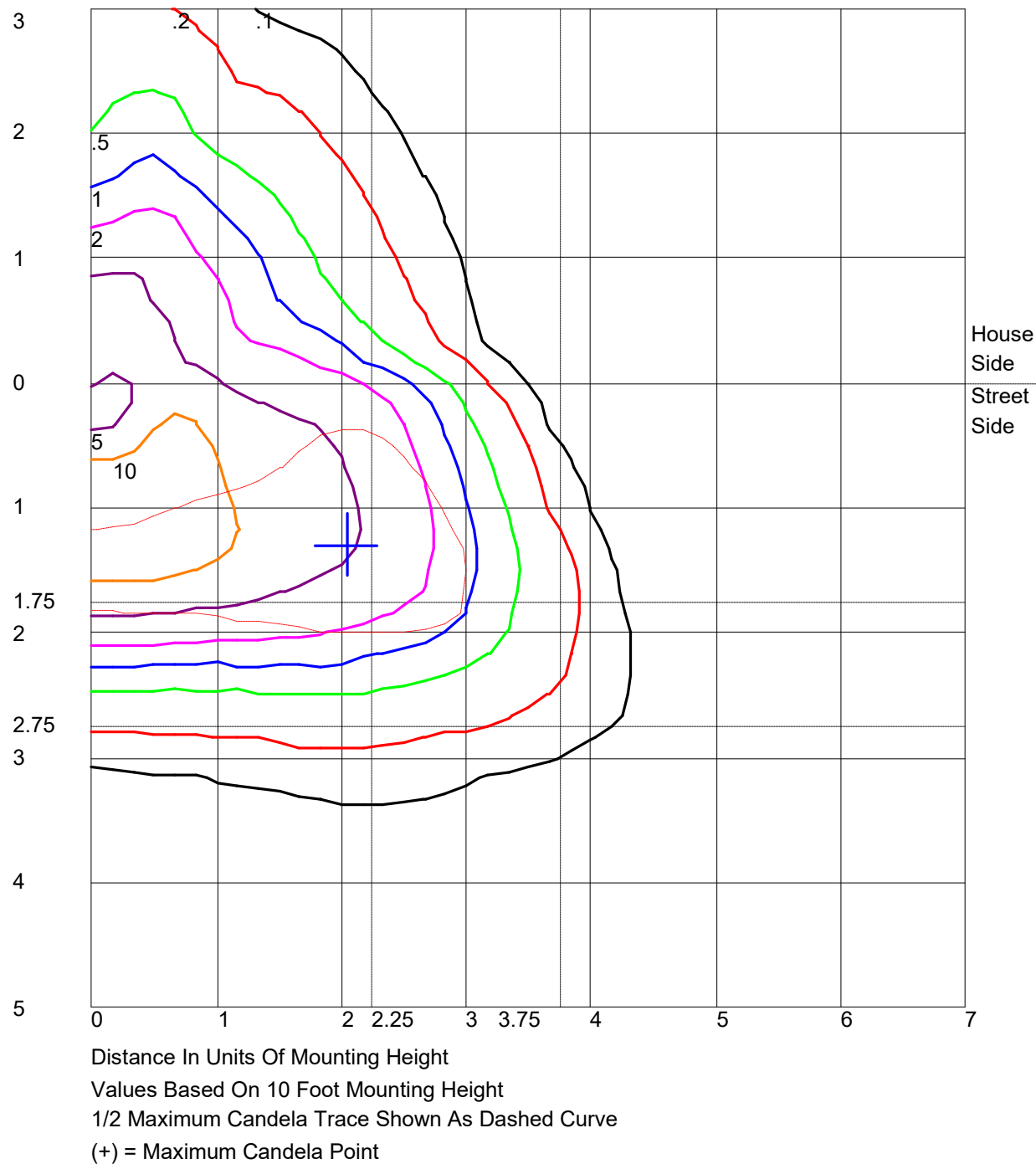


POLAR GRAPH

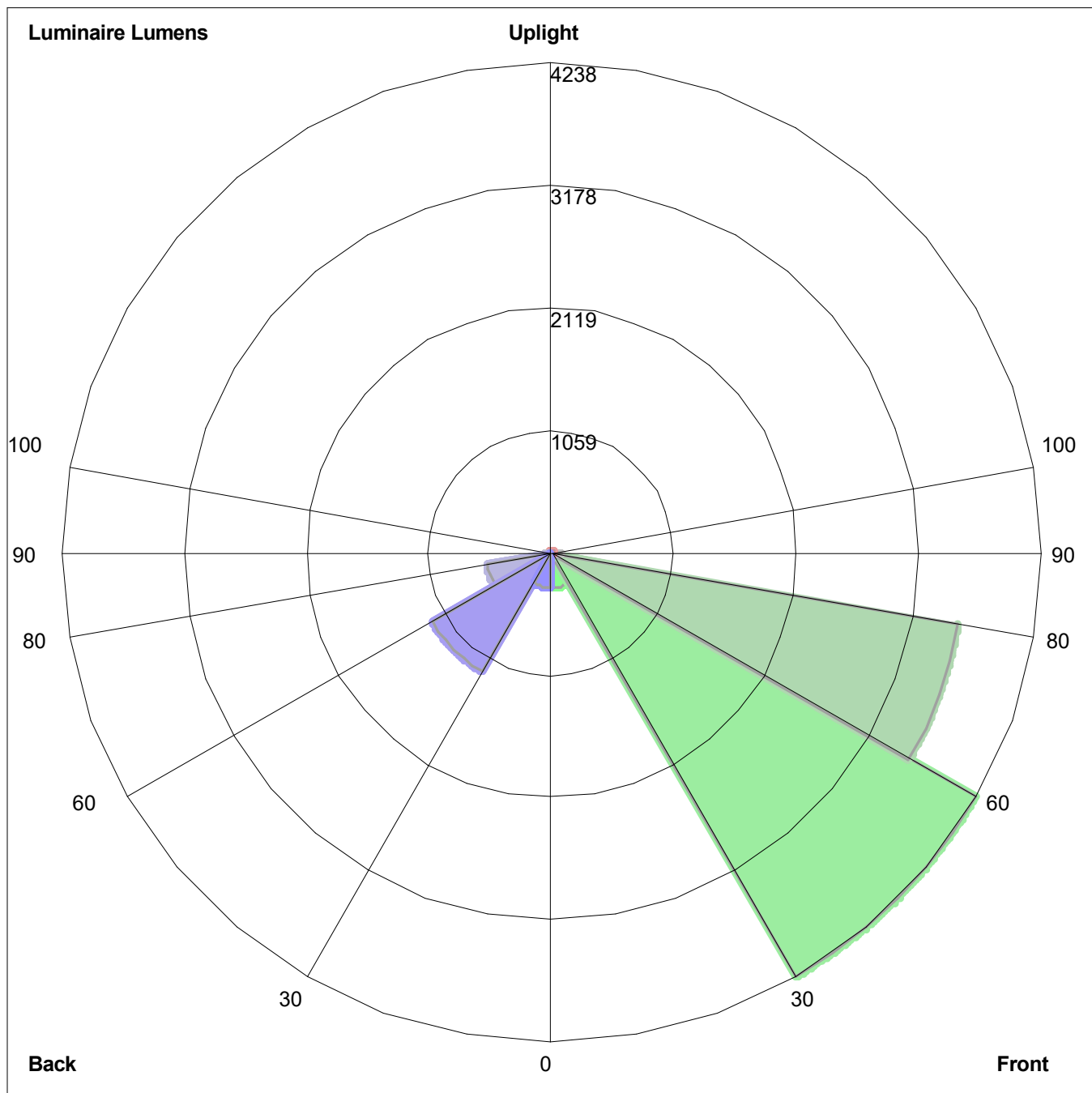


Maximum Candela = 10151 Located At Horizontal Angle = 57.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=301.3, Medium=4237.6, High=3576.3, Very High=87.5  
Back: Low=300.4, Medium=1188.8, High=565.9, Very High=54.5  
Uplight: Low=9.4, High=19.1

BUG Rating : B2-U2-G2