



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-10L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11751
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/24/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-5W-LED-10L-40-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	6168
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4459
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	4459
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	8 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	200 (3.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	345.8	N.A.	5.6
FM - Front-Medium (30-60)	2787.4	N.A.	45.2
FH - Front-High (60-80)	1813.3	N.A.	29.4
FVH - Front-Very High (80-90)	22.2	N.A.	0.4
BL - Back-Low (0-30)	196.4	N.A.	3.2
BM - Back-Medium (30-60)	728.4	N.A.	11.8
BH - Back-High (60-80)	258.2	N.A.	4.2
BVH - Back-Very High (80-90)	4.2	N.A.	0.1
UL - Uplight-Low (90-100)	3.1	N.A.	0.1
UH - Uplight-High (100-180)	9.0	N.A.	0.1
Total	6168.0	N.A.	100.0
BUG Rating	B1-U1-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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	364	364	364	364	364	364	364	364	364	364
2.5	375	372	376	377	377	374	373	374	368	365
5.0	376	379	382	380	391	370	367	368	362	354
7.5	387	395	409	378	384	371	375	373	388	386
10.0	427	427	444	401	419	421	434	424	408	413
12.5	488	514	481	473	493	479	488	479	461	456
15.0	548	586	563	585	595	568	572	566	543	525
17.5	627	649	641	667	683	698	699	658	642	626
20.0	763	766	767	781	799	811	810	797	743	714
22.5	858	860	893	928	924	948	969	958	871	834
25.0	985	957	1018	1071	1112	1108	1114	1122	1032	940
27.5	1138	1186	1238	1216	1291	1310	1317	1283	1186	1091
30.0	1344	1313	1341	1418	1433	1525	1543	1485	1372	1246
32.5	1608	1611	1554	1562	1673	1711	1713	1722	1598	1418
35.0	1850	1793	1767	1801	1850	1948	1909	1947	1781	1633
37.5	2085	2070	1993	1986	2051	2142	2094	2144	1983	1745
40.0	2226	2255	2207	2205	2265	2301	2302	2311	2174	1931
42.5	2346	2378	2356	2355	2428	2433	2432	2464	2306	2057
45.0	2471	2493	2464	2506	2559	2593	2596	2570	2415	2159
47.5	2568	2598	2599	2612	2668	2696	2699	2674	2520	2273
50.0	2660	2694	2712	2689	2755	2779	2796	2781	2637	2433
52.5	2759	2788	2808	2779	2867	2897	2913	2914	2772	2552
55.0	2845	2879	2928	2922	2993	3088	3119	3112	2955	2727
57.5	2962	3018	3076	3089	3220	3370	3420	3387	3094	2813
60.0	2953	2987	3145	3200	3437	3673	3681	3595	3161	2840
62.5	2687	2732	2962	3165	3570	3921	3918	3768	3193	2818
65.0	2168	2186	2488	2844	3560	4186	4164	3908	3157	2760
67.5	1239	1256	1576	2157	3166	4404	4459	4076	3184	2616
70.0	267	259	399	1054	2243	3942	4159	3836	2706	1964
72.5	113	117	143	241	879	2553	2799	2664	1748	1179
75.0	68	71	80	107	216	883	1174	1291	866	533
77.5	35	36	42	54	89	174	230	425	400	250
80.0	26	26	27	31	43	66	75	122	200	136
82.5	23	23	24	27	31	38	40	57	103	110
85.0	18	18	19	22	27	32	33	40	56	89
87.5	13	12	13	14	17	21	23	28	41	51
90.0	6	6	6	5	6	6	5	4	5	6
92.5	2	2	1	2	2	2	2	2	2	2
95.0	1	1	1	1	1	2	2	2	2	2
97.5	1	1	1	1	1	1	1	2	2	2
100.0	1	1	1	1	1	1	1	1	1	2
102.5	1	1	1	1	1	1	1	1	1	2
105.0	1	1	1	1	1	1	1	1	1	2
107.5	1	1	1	1	1	1	1	1	1	2
110.0	1	1	1	1	1	1	1	1	1	2
112.5	2	2	1	1	1	1	1	1	2	2
115.0	2	2	2	2	2	2	2	2	2	2
117.5	2	2	2	2	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	3	3	2	2	2	2	2	2	2	2
125.0	3	3	3	2	2	2	2	2	2	3
127.5	3	3	3	2	2	2	2	2	2	3
130.0	3	3	3	3	2	2	2	2	2	3

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CANDELA TABULATION - (Cont.)

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

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	364	364	364	364	364	364	364	364	364	364
2.5	363	363	364	361	358	356	356	359	357	353
5.0	351	351	341	338	343	339	330	334	327	321
7.5	364	365	359	360	341	319	303	306	296	301
10.0	385	375	371	380	331	322	308	294	285	291
12.5	429	422	411	384	346	328	314	319	317	326
15.0	478	461	445	403	362	354	359	364	358	351
17.5	552	526	497	441	392	400	414	400	382	378
20.0	640	615	573	493	447	459	452	438	424	406
22.5	761	697	654	565	522	531	504	485	446	425
25.0	848	798	738	625	626	605	568	516	474	405
27.5	962	896	842	721	740	682	617	543	438	334
30.0	1113	1008	951	843	871	793	705	513	331	230
32.5	1215	1127	1051	983	997	911	712	388	220	157
35.0	1386	1261	1174	1145	1137	1034	637	261	148	118
37.5	1527	1409	1312	1313	1273	1073	459	172	112	98
40.0	1634	1522	1418	1483	1422	970	287	125	93	84
42.5	1745	1631	1525	1607	1532	761	180	102	80	71
45.0	1878	1760	1659	1752	1576	501	131	84	68	60
47.5	1992	1881	1782	1914	1486	305	102	72	57	48
50.0	2128	2029	1934	2087	1251	197	81	60	46	37
52.5	2277	2179	2095	2259	916	140	67	48	35	26
55.0	2428	2330	2305	2419	570	99	55	37	26	17
57.5	2532	2406	2464	2420	383	71	44	27	17	10
60.0	2562	2429	2507	2128	315	56	33	17	10	4
62.5	2531	2398	2504	1647	298	52	24	10	5	2
65.0	2446	2303	2435	1088	299	65	16	5	4	2
67.5	2226	2114	2259	629	296	94	11	4	4	2
70.0	1594	1521	1633	319	234	123	12	4	4	2
72.5	915	868	911	111	104	121	10	5	3	2
75.0	397	370	384	61	42	49	8	4	1	1
77.5	182	164	157	37	20	24	6	3	0	0

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CANDELA TABULATION - (Cont.)

80.0	107	92	75	22	13	12	5	3	0	0
82.5	79	66	49	14	11	8	5	3	0	0
85.0	55	42	26	9	8	7	5	3	0	0
87.5	32	16	7	6	7	7	5	3	0	1
90.0	5	2	5	7	8	7	5	4	0	1
92.5	3	2	5	7	8	8	6	4	1	1
95.0	2	2	4	6	7	7	5	3	1	1
97.5	2	2	3	5	6	6	4	3	1	1
100.0	2	2	3	3	5	4	3	3	1	1
102.5	2	2	3	3	3	3	3	2	1	1
105.0	2	2	2	3	3	3	3	2	1	1
107.5	2	2	2	3	3	3	3	2	2	1
110.0	2	2	2	3	3	3	3	2	2	1
112.5	2	2	2	3	3	3	3	2	2	1
115.0	2	2	3	3	3	3	3	2	2	1
117.5	2	3	3	3	3	3	3	2	2	1
120.0	2	3	3	3	3	3	3	2	2	2
122.5	2	3	3	3	3	3	3	3	2	2
125.0	3	3	3	3	3	3	3	3	2	2
127.5	3	3	3	3	3	3	3	3	3	2
130.0	3	3	3	3	3	3	3	3	3	2
132.5	3	3	3	3	3	3	3	3	3	2
135.0	3	3	3	3	3	3	3	3	2	2
137.5	2	2	2	2	3	3	2	2	2	1
140.0	2	2	2	2	2	2	2	2	1	1
142.5	1	2	2	2	2	2	2	2	1	1
145.0	1	2	2	2	2	2	2	1	1	1
147.5	1	2	2	2	2	2	2	1	1	1
150.0	1	2	2	2	2	2	2	1	1	0
152.5	1	2	2	2	2	2	2	1	1	0
155.0	1	1	2	2	2	2	2	1	1	0
157.5	1	1	1	2	2	2	1	1	1	0
160.0	1	1	1	1	1	2	1	1	0	0
162.5	1	1	1	1	1	1	1	1	0	0
165.0	1	1	1	1	1	1	1	1	0	0
167.5	1	1	1	1	1	1	1	1	0	0
170.0	1	1	1	1	1	1	1	0	0	0
172.5	1	1	1	1	1	1	1	0	0	0
175.0	1	1	1	1	1	1	1	0	0	0
177.5	1	1	1	1	1	1	1	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	364	364
2.5	346	346
5.0	314	311
7.5	294	289
10.0	296	284
12.5	331	318
15.0	358	344
17.5	381	361
20.0	406	385
22.5	404	389
25.0	367	362

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CANDELA TABULATION - (Cont.)

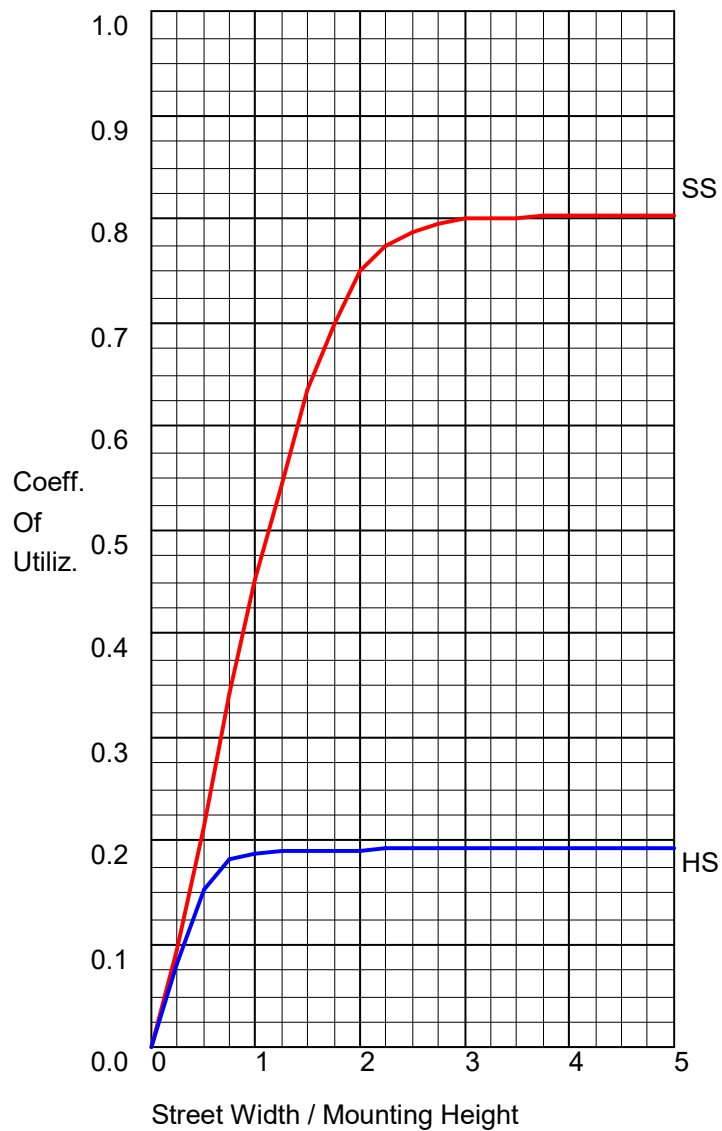
27.5	285	278
30.0	195	183
32.5	136	133
35.0	109	109
37.5	93	93
40.0	80	80
42.5	68	68
45.0	56	56
47.5	45	44
50.0	33	33
52.5	22	22
55.0	14	13
57.5	7	6
60.0	2	2
62.5	1	0
65.0	0	0
67.5	1	1
70.0	2	2
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	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	1	1
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	0	0

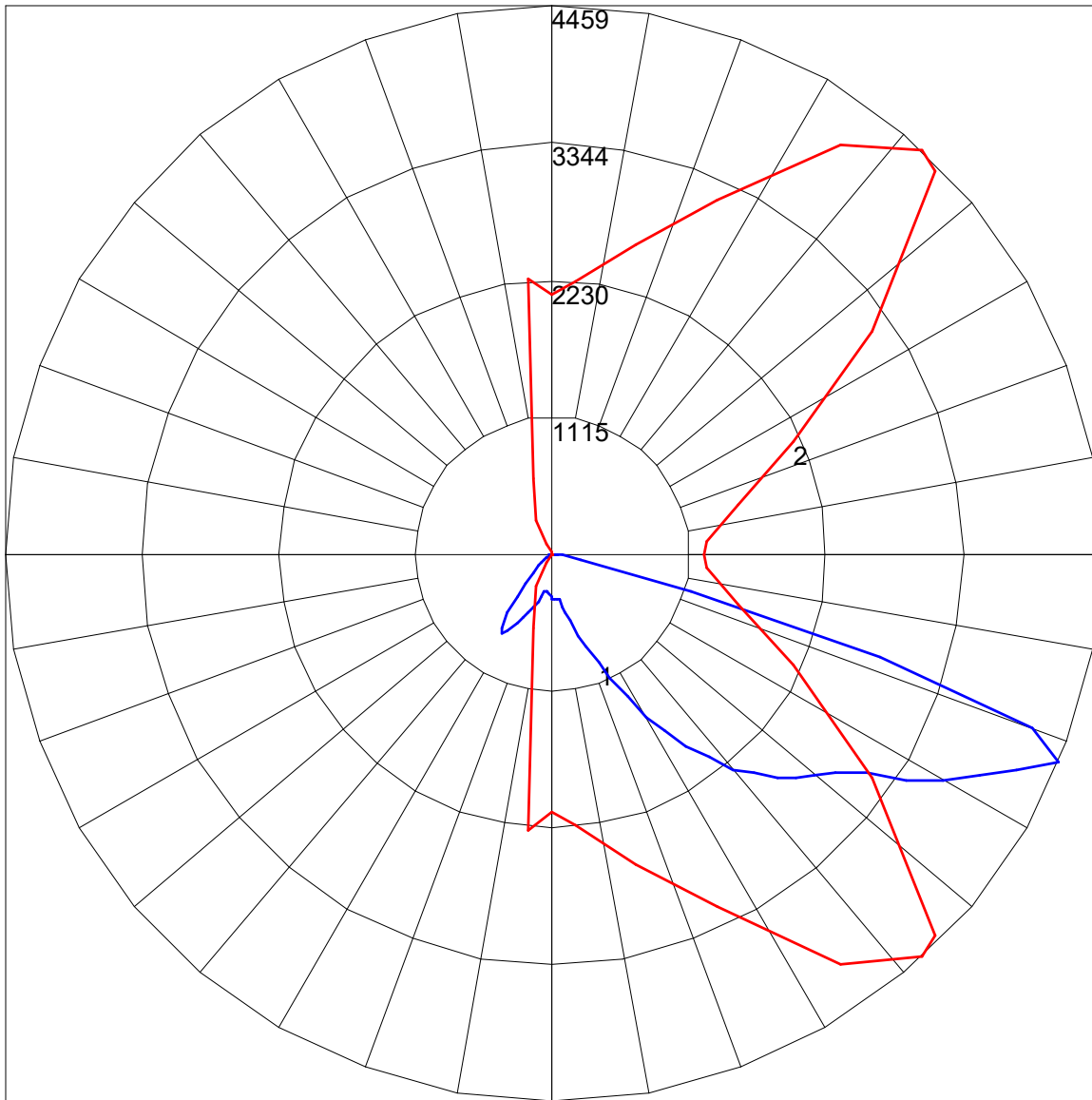
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

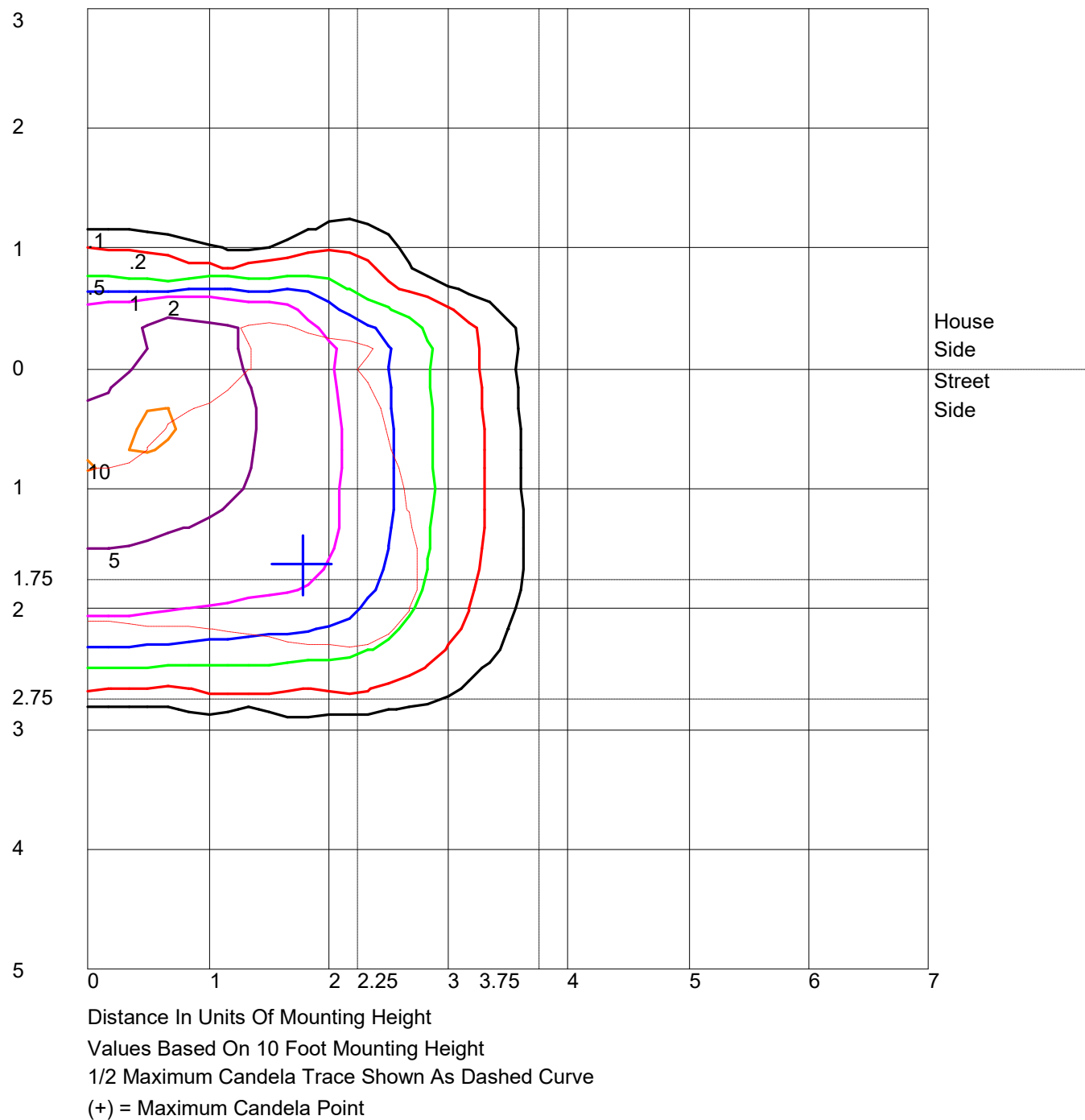
	Lumens	Percent Of Luminaire
Downward Street Side	4968.6	80.6
Downward House Side	1187.2	19.2
Downward Total	6155.8	99.8
Upward Street Side	4.8	0.1
Upward House Side	7.3	0.1
Upward Total	12.1	0.2
Total Flux	6167.9	100.0

POLAR GRAPH

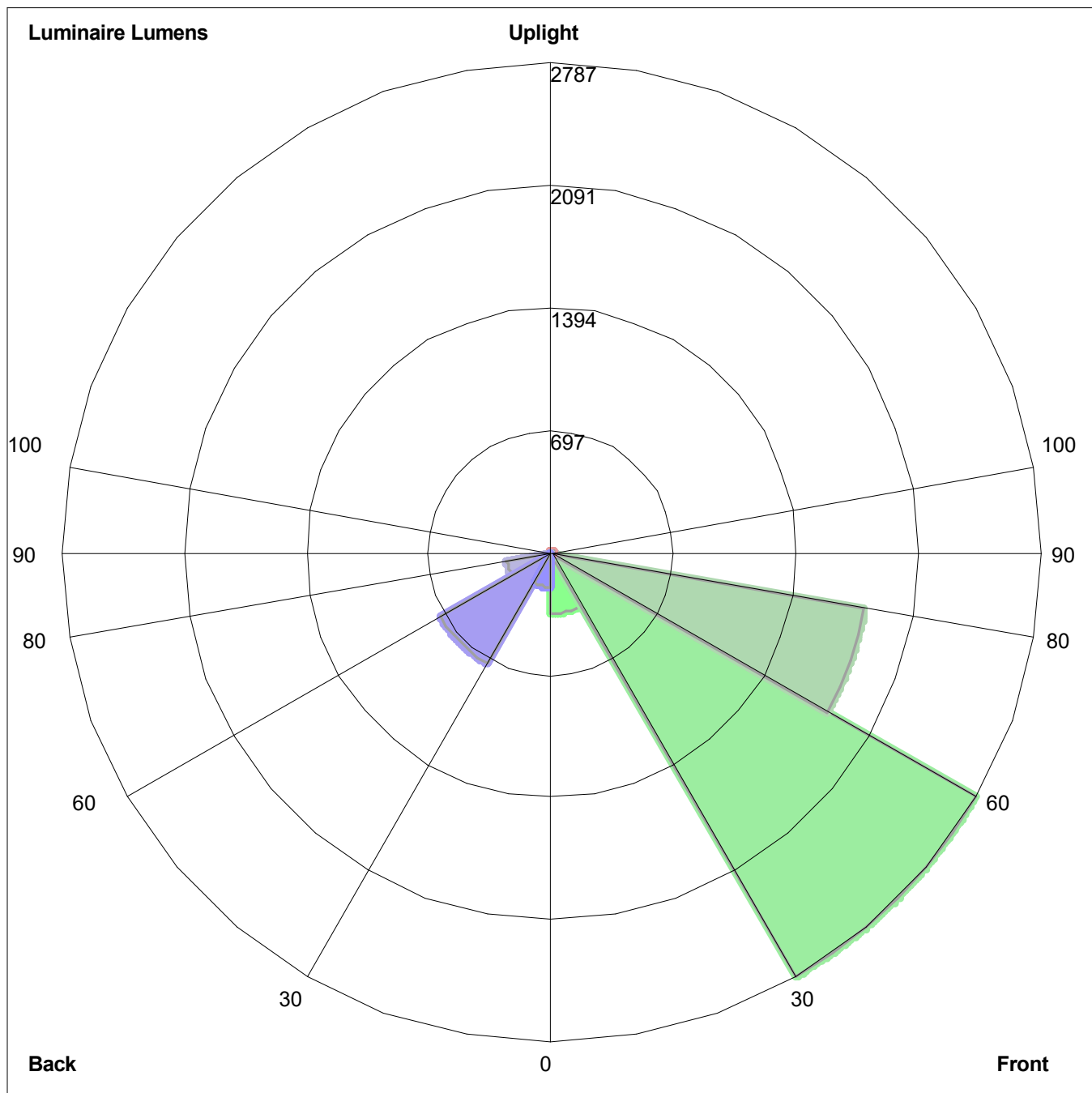


Maximum Candela = 4459 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=345.8, Medium=2787.4, High=1813.3, Very High=22.2
Back: Low=196.4, Medium=728.4, High=258.2, Very High=4.2
Uplight: Low=3.1, High=9.0

BUG Rating : B1-U1-G2