



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-25L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11757
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/26/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-3-LED-25L-50
[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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27206
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24603
Maximum Candela Angle	55H 60V
Maximum Candela (<90 Degrees Vertical)	24603
Maximum Candela Angle (<90 Degrees Vertical)	55H 60V
Maximum Candela At 90 Degrees Vertical	215 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1358 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	875.0	N.A.	3.2
FM - Front-Medium (30-60)	13384.2	N.A.	49.2
FH - Front-High (60-80)	6448.1	N.A.	23.7
FVH - Front-Very High (80-90)	192.5	N.A.	0.7
BL - Back-Low (0-30)	744.2	N.A.	2.7
BM - Back-Medium (30-60)	3690.7	N.A.	13.6
BH - Back-High (60-80)	1640.1	N.A.	6.0
BVH - Back-Very High (80-90)	160.5	N.A.	0.6
UL - Uplight-Low (90-100)	21.7	N.A.	0.1
UH - Uplight-High (100-180)	49.1	N.A.	0.2
Total	27206.1	N.A.	100.0
BUG Rating	B3-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	57.5	65.0	75.0
0.0	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226
2.5	1204	1211	1204	1201	1206	1202	1210	1215	1218	1211
5.0	1188	1172	1178	1191	1183	1160	1136	1140	1140	1149
7.5	1145	1138	1151	1127	1140	1134	1147	1147	1175	1172
10.0	1126	1136	1151	1114	1145	1191	1222	1219	1214	1219
12.5	1205	1219	1202	1182	1224	1242	1270	1274	1283	1277
15.0	1272	1297	1293	1327	1370	1342	1369	1373	1382	1390
17.5	1371	1396	1383	1423	1480	1509	1500	1506	1517	1519
20.0	1583	1608	1603	1607	1648	1681	1744	1765	1707	1686
22.5	1823	1803	1861	1937	1984	2003	2130	2153	2056	1993
25.0	2241	2229	2268	2356	2441	2567	2678	2759	2653	2434
27.5	3036	3147	3212	3088	3143	3407	3433	3526	3470	3150
30.0	4013	3950	3954	3977	4087	4413	4490	4558	4499	4122
32.5	5133	5295	4968	4824	5201	5366	5693	5673	5743	5077
35.0	6285	6203	6191	5997	6092	6690	6949	6961	6783	5931
37.5	7771	7769	7443	7175	7409	7725	8048	8025	7732	6525
40.0	9177	9153	8953	8804	8498	8899	9036	8935	8474	7186
42.5	10798	10715	10483	10419	9884	10059	9906	9769	9092	7769
45.0	12690	12566	12402	12158	11436	11189	10798	10526	9750	8570
47.5	14500	14560	14416	14016	13203	12508	11837	11739	10717	9612
50.0	16194	16092	16616	16019	15205	14355	13434	13307	12328	11101
52.5	16568	16751	17591	17901	17908	16680	15877	15676	14543	12777
55.0	15385	15549	17098	18355	19715	19408	19280	18915	17332	14094
57.5	13098	13179	14850	17261	20235	21406	22755	22383	19626	14693
60.0	9047	9124	11238	14663	19421	21993	24603	24265	20381	14381
62.5	4940	5315	7010	10629	16197	20686	24302	24210	19717	13345
65.0	2731	2890	3665	6044	11544	17619	22397	22316	17886	10965
67.5	1652	1702	2096	3257	6912	12405	18347	18417	14115	7471
70.0	1035	1076	1397	2182	3808	7298	12536	12827	9709	4547
72.5	782	811	1001	1581	2575	3538	7236	7662	5607	2197
75.0	583	608	804	1293	1942	2092	3533	3786	2600	996
77.5	422	436	621	1121	1622	1446	1655	1805	1317	579
80.0	299	321	487	914	1358	1062	903	990	799	403
82.5	221	242	372	693	1028	694	596	658	548	312
85.0	213	247	269	493	570	358	337	357	332	205
87.5	200	249	199	300	317	122	131	117	122	106
90.0	57	59	60	84	61	25	21	18	17	17
92.5	30	25	21	27	16	13	13	13	12	10
95.0	12	10	10	10	9	10	10	10	9	8
97.5	9	9	8	9	9	10	9	9	8	8
100.0	8	8	8	9	9	9	8	8	7	7
102.5	6	7	7	8	9	9	8	8	7	7
105.0	6	6	7	8	9	9	8	8	7	7
107.5	7	7	7	9	9	9	8	8	7	7
110.0	7	7	8	9	9	10	8	8	7	7
112.5	8	8	9	9	10	10	8	8	8	8
115.0	9	9	9	10	10	10	9	8	8	8
117.5	9	9	10	10	10	10	9	8	8	8
120.0	10	12	12	12	12	12	9	9	9	9
122.5	12	12	12	13	12	12	9	9	9	9
125.0	12	12	12	13	12	12	9	9	9	10
127.5	12	12	12	13	13	13	10	10	10	10
130.0	12	12	13	13	13	13	10	10	10	10

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CANDELA TABULATION - (Cont.)

132.5	12	12	12	13	12	12	10	10	10	10
135.0	9	9	9	10	10	10	9	9	9	10
137.5	4	4	5	7	8	8	7	7	7	8
140.0	2	2	4	6	7	6	6	6	6	6
142.5	2	2	4	5	6	6	6	6	5	6
145.0	1	2	4	5	6	6	5	5	5	6
147.5	2	2	4	5	6	5	5	5	5	5
150.0	1	2	4	5	5	5	5	5	5	5
152.5	2	2	4	5	5	5	5	5	5	5
155.0	2	2	3	5	5	5	5	4	5	5
157.5	1	2	3	4	5	4	4	4	4	5
160.0	1	2	3	4	4	4	4	4	4	4
162.5	1	1	3	4	4	4	4	4	4	4
165.0	1	1	3	4	4	4	4	4	4	4
167.5	1	1	3	4	5	4	4	4	4	4
170.0	1	1	3	5	5	5	4	4	4	4
172.5	1	1	3	5	5	5	4	4	4	4
175.0	1	1	3	5	5	5	5	4	4	4
177.5	1	1	3	5	5	5	5	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

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	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226
2.5	1216	1231	1224	1219	1215	1233	1231	1244	1239	1226
5.0	1157	1155	1158	1147	1171	1203	1227	1233	1234	1215
7.5	1160	1173	1185	1225	1205	1193	1175	1179	1207	1234
10.0	1204	1201	1199	1264	1191	1214	1203	1194	1191	1242
12.5	1266	1257	1294	1268	1250	1256	1251	1315	1350	1402
15.0	1331	1342	1312	1299	1291	1327	1425	1479	1518	1520
17.5	1449	1392	1388	1375	1346	1467	1596	1624	1647	1659
20.0	1591	1542	1504	1447	1423	1623	1708	1772	1827	1824
22.5	1870	1756	1669	1593	1628	1801	1850	1944	1977	1984
25.0	2253	2082	1955	1715	1869	1993	1988	2076	2203	2174
27.5	2833	2501	2320	1903	2121	2166	2158	2249	2510	2542
30.0	3492	3048	2680	2075	2289	2403	2349	2466	2782	2909
32.5	4072	3527	2997	2285	2433	2588	2553	2686	3179	3526
35.0	4651	3891	3247	2452	2527	2721	2722	2848	3567	4055
37.5	5109	4272	3446	2563	2580	2801	2816	3030	3916	4754
40.0	5560	4566	3617	2666	2564	2829	2864	3056	4380	5148
42.5	6098	4911	3828	2691	2515	2774	2840	3081	4810	5000
45.0	6834	5472	4146	2720	2447	2699	2800	2998	4882	4929
47.5	7943	6304	4575	2782	2374	2597	2710	2940	4675	4712
50.0	9209	7155	4949	2790	2281	2479	2634	2894	4294	4438
52.5	10341	7831	5213	2741	2165	2346	2544	2817	3783	4165
55.0	10672	8043	5180	2576	2024	2204	2419	2718	3334	3920
57.5	10524	7726	4690	2307	1869	2035	2289	2605	2936	3680
60.0	9994	6963	3848	1978	1715	1871	2146	2484	2616	3405
62.5	8595	5579	2774	1648	1570	1743	2011	2328	2353	3135
65.0	6296	3949	1952	1409	1436	1621	1871	2172	2200	2851
67.5	4032	2553	1370	1193	1303	1487	1692	2026	2016	2499
70.0	2198	1369	929	995	1157	1337	1522	1844	1804	2145
72.5	970	700	666	841	1022	1172	1342	1618	1530	1753
75.0	552	465	556	733	894	1019	1144	1231	1142	1367
77.5	362	337	453	632	763	862	906	760	714	953

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CANDELA TABULATION - (Cont.)

80.0	296	268	375	543	636	630	665	502	398	567
82.5	224	203	298	435	467	390	409	324	255	378
85.0	131	119	205	320	299	250	227	194	153	255
87.5	60	48	123	176	167	144	105	115	79	140
90.0	13	8	33	54	65	62	45	82	34	60
92.5	8	7	20	34	44	42	30	18	5	5
95.0	7	8	18	30	40	39	28	17	6	5
97.5	6	8	15	25	33	31	24	15	6	4
100.0	6	9	13	20	26	25	20	14	6	5
102.5	7	9	12	17	21	21	18	13	6	5
105.0	7	9	10	16	20	19	17	13	7	5
107.5	7	9	12	15	18	18	16	13	8	6
110.0	8	10	12	14	17	17	16	14	8	6
112.5	8	10	12	14	17	17	16	14	9	7
115.0	9	10	12	14	16	17	17	15	10	8
117.5	9	12	12	14	16	17	17	15	12	9
120.0	10	12	13	15	17	17	17	16	13	10
122.5	10	12	13	16	17	18	18	17	13	12
125.0	12	12	13	15	17	18	18	17	15	12
127.5	12	13	14	15	17	18	19	18	16	13
130.0	12	13	14	15	17	18	19	18	16	14
132.5	12	12	13	15	17	18	18	17	15	13
135.0	10	12	13	14	16	16	17	16	14	12
137.5	9	9	10	12	13	13	13	12	9	7
140.0	7	8	8	9	10	12	10	9	7	5
142.5	7	7	8	9	9	9	9	8	6	4
145.0	7	7	7	8	9	9	9	8	6	3
147.5	6	7	7	8	8	9	8	7	5	3
150.0	6	7	7	8	8	8	8	7	5	2
152.5	6	7	7	8	8	8	8	6	4	2
155.0	6	7	7	7	8	8	7	6	4	2
157.5	6	6	6	7	7	7	6	5	3	1
160.0	5	6	6	6	7	6	6	4	2	0
162.5	5	5	6	6	6	6	5	4	2	0
165.0	4	5	5	6	5	6	5	4	2	0
167.5	5	5	5	5	6	5	5	4	2	0
170.0	4	5	5	5	5	5	5	4	2	0
172.5	4	5	5	5	5	5	5	4	2	0
175.0	4	4	5	5	5	5	4	4	2	0
177.5	4	4	5	5	5	4	4	3	2	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	175.0	180.0
0.0	1226	1226
2.5	1232	1232
5.0	1212	1212
7.5	1230	1210
10.0	1267	1271
12.5	1438	1441
15.0	1582	1584
17.5	1692	1701
20.0	1853	1847
22.5	1954	1967
25.0	2146	2137

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CANDELA TABULATION - (Cont.)

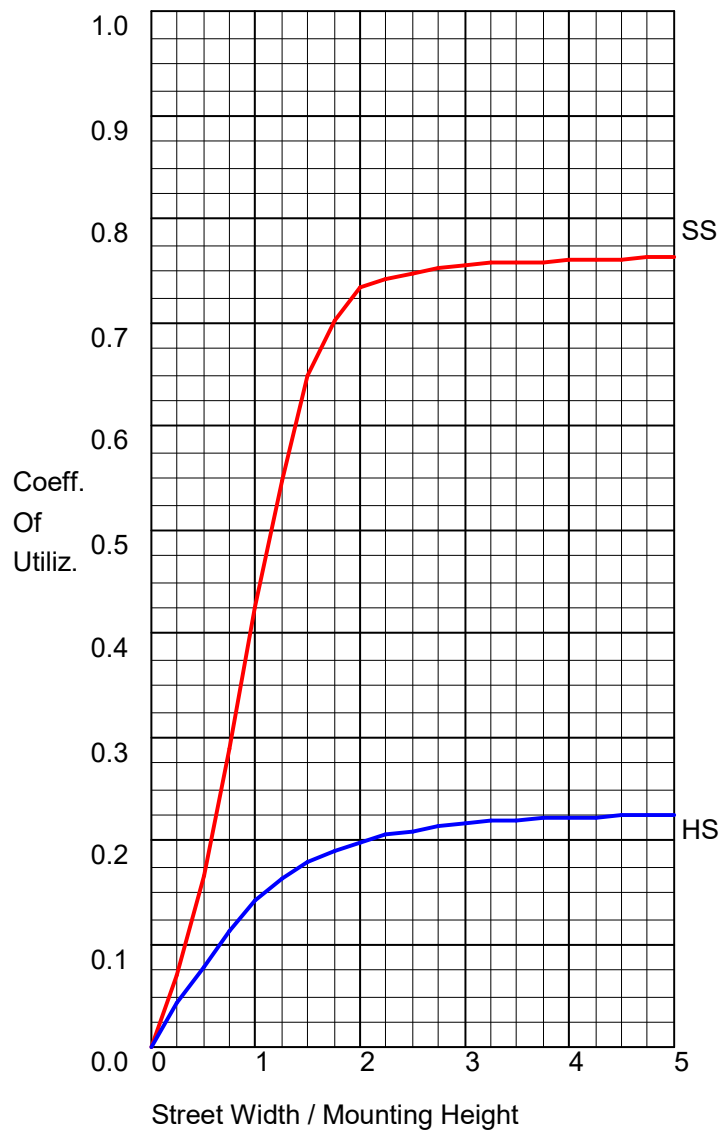
27.5	2410	2386
30.0	2798	2771
32.5	3442	3359
35.0	3911	3807
37.5	4184	4051
40.0	4001	3809
42.5	3663	3407
45.0	3345	3086
47.5	3132	2912
50.0	3032	2818
52.5	2992	2768
55.0	3041	2753
57.5	3111	2772
60.0	3200	2859
62.5	3293	2991
65.0	3334	3153
67.5	3261	3230
70.0	2989	3146
72.5	2404	2675
75.0	1613	1874
77.5	1193	1341
80.0	865	906
82.5	626	639
85.0	513	554
87.5	681	808
90.0	215	194
92.5	1	0
95.0	1	0
97.5	1	0
100.0	1	0
102.5	1	0
105.0	1	0
107.5	2	1
110.0	3	2
112.5	4	3
115.0	5	4
117.5	6	5
120.0	7	6
122.5	7	7
125.0	8	8
127.5	9	9
130.0	9	9
132.5	9	9
135.0	8	7
137.5	5	4
140.0	2	1
142.5	1	0
145.0	1	0
147.5	1	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	3	3

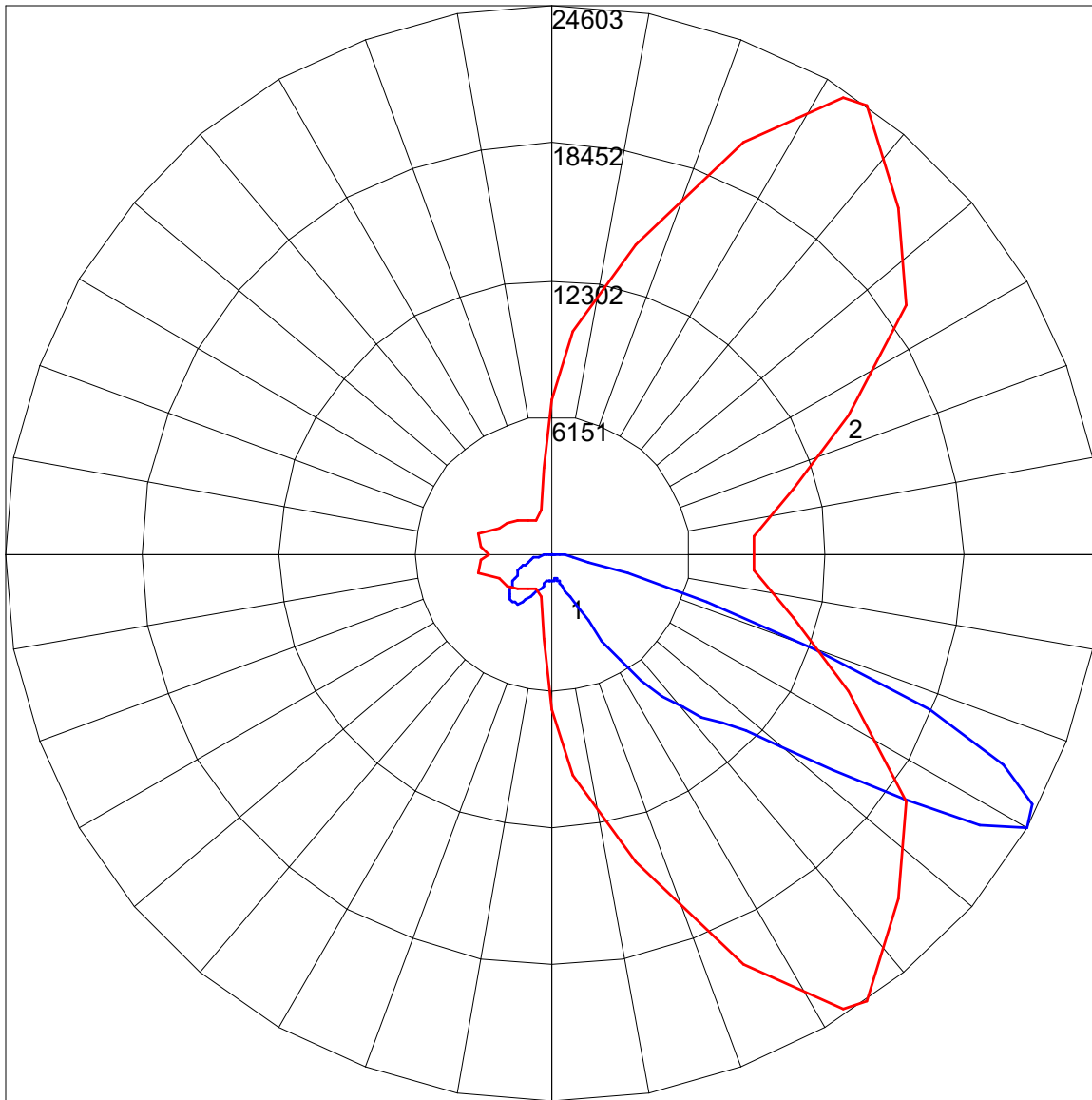
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

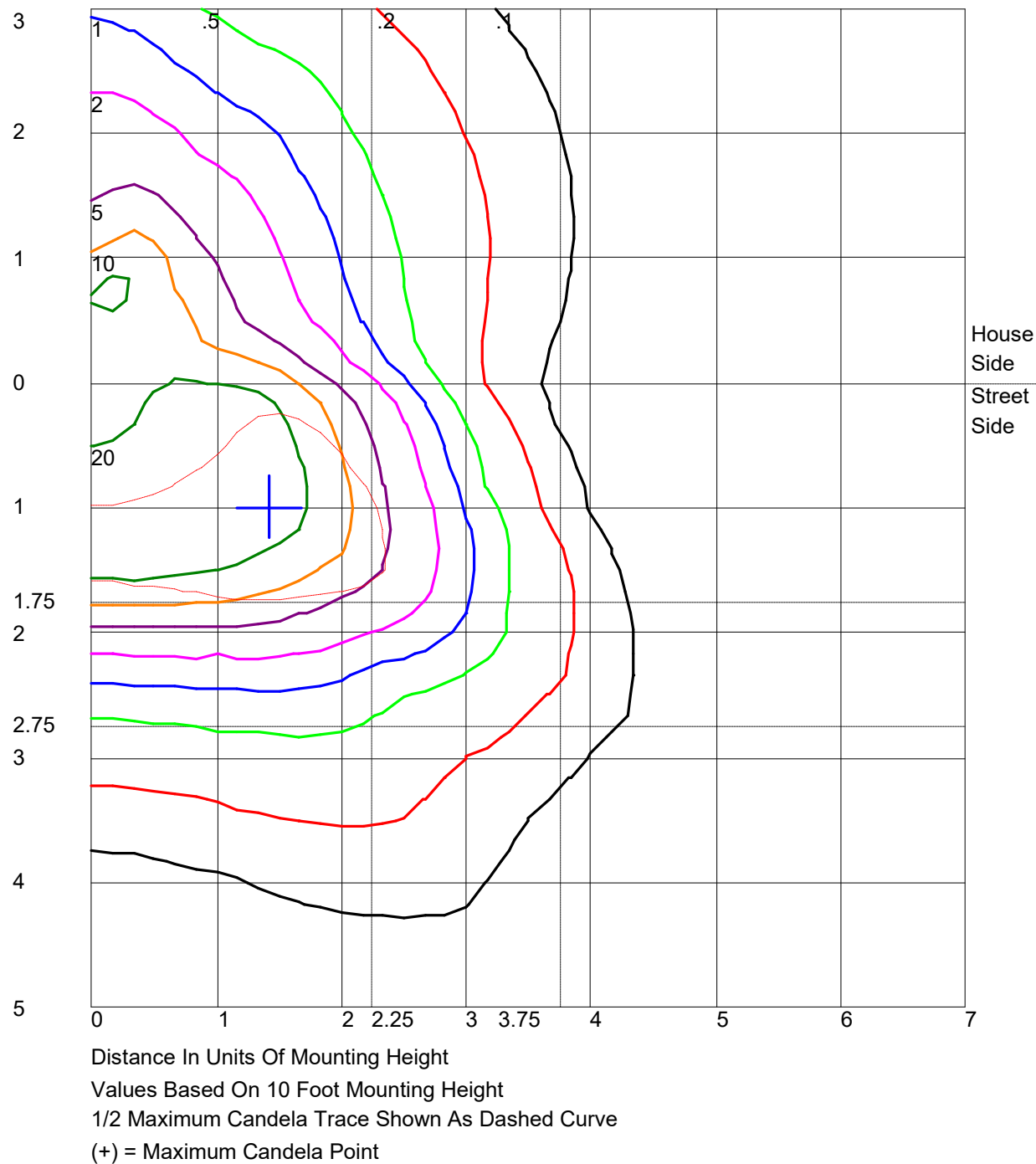
	Lumens	Percent Of Luminaire
Downward Street Side	20899.8	76.8
Downward House Side	6235.5	22.9
Downward Total	27135.3	99.7
Upward Street Side	28.5	0.1
Upward House Side	42.3	0.2
Upward Total	70.8	0.3
Total Flux	27206.1	100.0

POLAR GRAPH

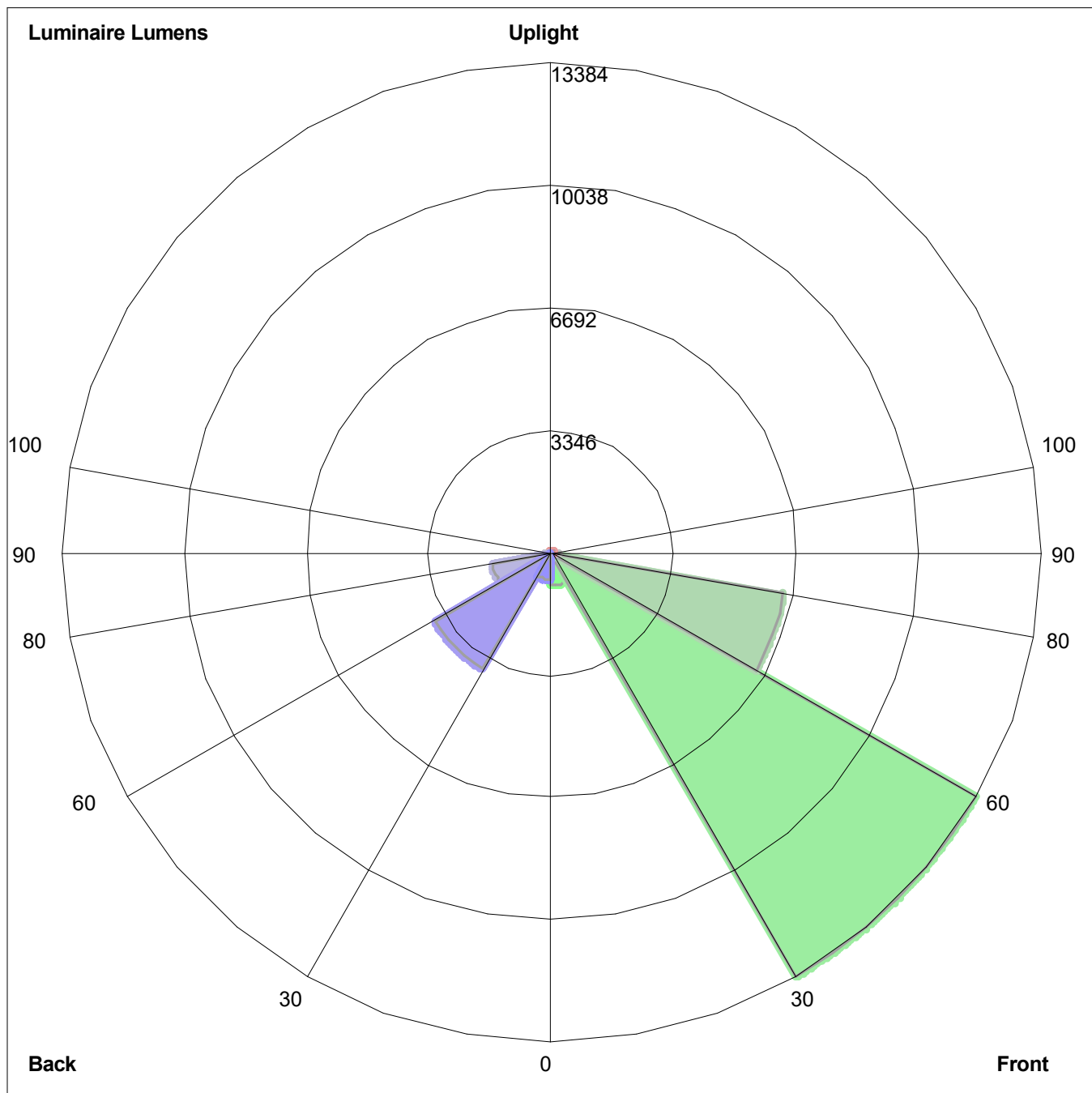


Maximum Candela = 24603 Located At Horizontal Angle = 55, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=875.0, Medium=13384.2, High=6448.1, Very High=192.5
Back: Low=744.2, Medium=3690.7, High=1640.1, Very High=160.5
Uplight: Low=21.7, High=49.1

BUG Rating : B3-U2-G3