



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-25L-30.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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-3-LED-25L-30

[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	23544
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	227.7
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21291
Maximum Candela Angle	55H 60V
Maximum Candela (<90 Degrees Vertical)	21291
Maximum Candela Angle (<90 Degrees Vertical)	55H 60V
Maximum Candela At 90 Degrees Vertical	186 (0.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1175 (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)	757.2	N.A.	3.2
FM - Front-Medium (30-60)	11582.4	N.A.	49.2
FH - Front-High (60-80)	5580.0	N.A.	23.7
FVH - Front-Very High (80-90)	166.5	N.A.	0.7
BL - Back-Low (0-30)	644.0	N.A.	2.7
BM - Back-Medium (30-60)	3193.8	N.A.	13.6
BH - Back-High (60-80)	1419.4	N.A.	6.0
BVH - Back-Very High (80-90)	138.8	N.A.	0.6
UL - Uplight-Low (90-100)	18.9	N.A.	0.1
UH - Uplight-High (100-180)	43.0	N.A.	0.2
Total	23544.0	N.A.	100.0
BUG Rating	B3-U2-G3		

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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	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061
2.5	1042	1048	1042	1039	1044	1040	1047	1052	1054	1048
5.0	1028	1015	1019	1031	1024	1004	983	986	986	995
7.5	991	985	996	976	986	981	993	993	1016	1015
10.0	975	983	996	964	991	1031	1057	1055	1051	1055
12.5	1043	1055	1040	1023	1059	1075	1099	1103	1110	1105
15.0	1101	1123	1119	1148	1185	1162	1184	1188	1196	1203
17.5	1186	1208	1197	1232	1281	1306	1298	1303	1312	1314
20.0	1370	1392	1387	1391	1426	1455	1510	1528	1477	1459
22.5	1578	1560	1610	1676	1717	1733	1843	1863	1779	1725
25.0	1939	1929	1963	2039	2113	2222	2317	2388	2296	2106
27.5	2628	2723	2779	2672	2719	2948	2971	3051	3003	2726
30.0	3472	3418	3422	3442	3537	3818	3886	3945	3893	3567
32.5	4442	4582	4299	4175	4501	4643	4927	4909	4970	4393
35.0	5439	5368	5357	5190	5272	5790	6014	6024	5869	5133
37.5	6725	6723	6441	6209	6412	6685	6965	6945	6691	5647
40.0	7941	7920	7748	7619	7354	7701	7820	7732	7334	6218
42.5	9345	9273	9072	9017	8553	8705	8573	8454	7868	6723
45.0	10981	10874	10732	10521	9897	9682	9345	9109	8437	7416
47.5	12548	12600	12476	12129	11426	10824	10244	10158	9275	8318
50.0	14014	13926	14379	13862	13158	12423	11625	11515	10668	9606
52.5	14338	14496	15223	15491	15497	14435	13740	13565	12585	11057
55.0	13314	13456	14796	15884	17061	16795	16685	16368	14999	12197
57.5	11335	11405	12851	14937	17511	18524	19692	19369	16984	12715
60.0	7829	7896	9725	12689	16806	19033	21291	20998	17637	12445
62.5	4275	4600	6067	9198	14017	17901	21031	20951	17062	11548
65.0	2363	2501	3172	5230	9989	15247	19382	19311	15478	9489
67.5	1430	1473	1814	2818	5981	10735	15877	15938	12215	6465
70.0	896	931	1209	1888	3295	6315	10849	11100	8402	3935
72.5	677	702	867	1368	2228	3062	6262	6631	4852	1901
75.0	504	526	696	1119	1680	1810	3057	3276	2250	862
77.5	365	377	538	970	1403	1252	1432	1562	1140	501
80.0	259	278	421	791	1175	919	781	857	691	349
82.5	192	210	322	599	889	600	516	570	474	270
85.0	184	213	233	427	493	310	292	309	287	177
87.5	173	215	173	260	274	105	114	101	105	92
90.0	49	51	52	73	53	22	18	15	15	15
92.5	26	22	18	24	14	11	11	11	10	9
95.0	10	9	9	9	8	9	9	9	8	7
97.5	8	8	7	8	8	9	8	8	7	7
100.0	7	7	7	8	8	8	7	7	6	6
102.5	5	6	6	7	8	8	7	7	6	6
105.0	5	5	6	7	8	8	7	7	6	6
107.5	6	6	6	8	8	8	7	7	6	6
110.0	6	6	7	8	8	9	7	7	6	6
112.5	7	7	8	8	9	9	7	7	7	7
115.0	8	8	8	9	9	9	8	7	7	7
117.5	8	8	9	9	9	9	8	7	7	7
120.0	9	10	10	10	10	10	8	8	8	8
122.5	10	10	10	11	10	10	8	8	8	8
125.0	10	10	10	11	10	10	8	8	8	9
127.5	10	10	10	11	11	11	9	9	9	9
130.0	10	10	11	11	11	11	9	9	9	9

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CANDELA TABULATION - (Cont.)

132.5	10	10	10	11	10	10	9	9	9	9
135.0	8	8	8	9	9	9	8	8	8	9
137.5	4	4	5	6	7	7	6	6	6	7
140.0	2	2	4	5	6	5	5	5	5	5
142.5	2	2	4	5	5	5	5	5	5	5
145.0	1	2	4	5	5	5	5	5	5	5
147.5	2	2	4	5	5	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	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061
2.5	1053	1065	1059	1055	1052	1067	1065	1076	1072	1061
5.0	1001	999	1002	993	1014	1041	1062	1067	1068	1052
7.5	1004	1015	1025	1060	1043	1033	1016	1020	1045	1068
10.0	1042	1039	1037	1094	1031	1051	1041	1034	1031	1075
12.5	1095	1088	1120	1097	1082	1087	1083	1138	1168	1213
15.0	1152	1162	1135	1124	1117	1148	1233	1280	1313	1315
17.5	1254	1204	1201	1190	1164	1270	1382	1405	1425	1436
20.0	1377	1334	1302	1253	1232	1404	1478	1533	1581	1579
22.5	1619	1520	1444	1379	1409	1559	1601	1682	1711	1717
25.0	1950	1802	1692	1484	1618	1725	1720	1797	1907	1881
27.5	2452	2164	2007	1647	1836	1875	1867	1946	2172	2200
30.0	3022	2638	2319	1796	1981	2079	2033	2134	2408	2518
32.5	3524	3052	2593	1977	2105	2240	2209	2324	2751	3051
35.0	4025	3367	2810	2122	2187	2354	2355	2464	3086	3509
37.5	4422	3697	2982	2218	2233	2424	2437	2622	3389	4114
40.0	4811	3951	3130	2307	2219	2448	2479	2645	3790	4455
42.5	5277	4250	3313	2329	2176	2401	2458	2666	4163	4327
45.0	5914	4735	3588	2353	2117	2335	2423	2594	4225	4265
47.5	6874	5455	3959	2408	2055	2247	2345	2544	4046	4077
50.0	7969	6192	4283	2414	1974	2145	2280	2504	3716	3840
52.5	8949	6777	4512	2372	1874	2030	2202	2438	3274	3604
55.0	9236	6960	4482	2229	1751	1907	2094	2352	2885	3393
57.5	9108	6686	4058	1996	1618	1761	1981	2254	2541	3184
60.0	8649	6026	3330	1712	1484	1619	1857	2150	2263	2947
62.5	7438	4828	2401	1426	1359	1509	1740	2015	2036	2713
65.0	5448	3417	1689	1219	1243	1402	1619	1879	1904	2467
67.5	3489	2209	1185	1033	1127	1287	1464	1753	1745	2163
70.0	1902	1184	804	861	1001	1157	1317	1596	1561	1857
72.5	839	606	577	728	885	1015	1162	1401	1324	1517
75.0	478	402	481	634	774	882	990	1065	988	1183
77.5	313	292	392	547	660	746	784	658	618	825

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CANDELA TABULATION - (Cont.)

80.0	256	232	324	470	550	545	576	434	344	490
82.5	193	175	258	376	404	338	354	281	221	327
85.0	114	103	177	277	259	216	196	168	133	221
87.5	52	42	106	153	144	124	91	100	68	121
90.0	11	7	28	46	56	54	39	71	29	52
92.5	7	6	17	29	38	36	26	15	5	5
95.0	6	7	15	26	35	34	25	15	5	5
97.5	5	7	13	22	28	27	21	13	5	4
100.0	5	8	11	17	23	22	17	12	5	5
102.5	6	8	10	15	18	18	15	11	5	5
105.0	6	8	9	14	17	16	15	11	6	5
107.5	6	8	10	13	15	15	14	11	7	5
110.0	7	9	10	12	15	15	14	12	7	5
112.5	7	9	10	12	15	15	14	12	8	6
115.0	8	9	10	12	14	15	15	13	9	7
117.5	8	10	10	12	14	15	15	13	10	8
120.0	9	10	11	13	15	15	15	14	11	9
122.5	9	10	11	14	15	15	15	15	11	10
125.0	10	10	11	13	15	15	15	15	13	10
127.5	10	11	12	13	15	15	16	15	14	11
130.0	10	11	12	13	15	15	16	15	14	12
132.5	10	10	11	13	15	15	15	15	13	11
135.0	9	10	11	12	14	14	15	14	12	10
137.5	8	8	9	10	11	11	11	10	8	6
140.0	6	7	7	8	9	10	9	8	6	5
142.5	6	6	7	8	8	8	8	7	5	4
145.0	6	6	6	7	8	8	8	7	5	3
147.5	5	6	6	7	7	8	7	6	5	3
150.0	5	6	6	7	7	7	7	6	5	2
152.5	5	6	6	7	7	7	7	5	4	2
155.0	5	6	6	6	7	7	6	5	4	2
157.5	5	5	5	6	6	6	5	5	3	1
160.0	5	5	5	5	6	5	5	4	2	0
162.5	5	5	5	5	5	5	5	4	2	0
165.0	4	5	5	5	5	5	5	4	2	0
167.5	5	5	5	5	5	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

	<u>175.0</u>	<u>180.0</u>
0.0	1061	1061
2.5	1066	1066
5.0	1049	1049
7.5	1065	1047
10.0	1096	1100
12.5	1244	1247
15.0	1369	1371
17.5	1464	1472
20.0	1603	1599
22.5	1691	1702
25.0	1857	1849

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CANDELA TABULATION - (Cont.)

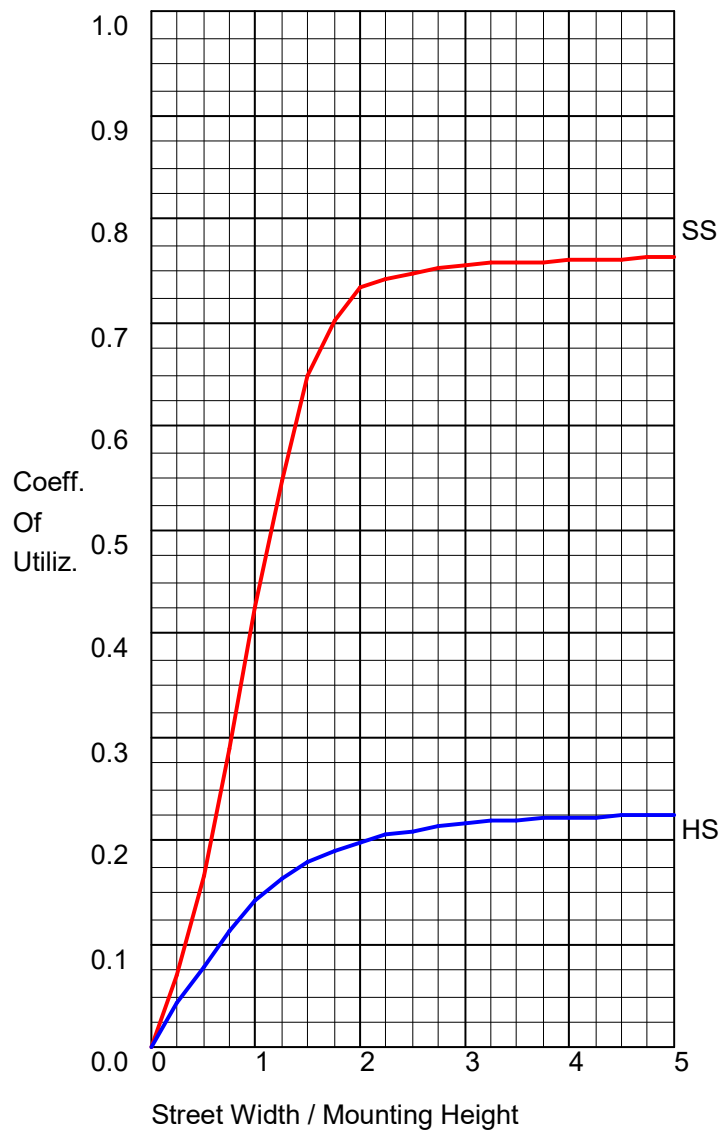
27.5	2085	2065
30.0	2422	2398
32.5	2978	2907
35.0	3384	3294
37.5	3620	3506
40.0	3462	3296
42.5	3170	2948
45.0	2895	2670
47.5	2710	2520
50.0	2624	2439
52.5	2590	2395
55.0	2631	2382
57.5	2692	2399
60.0	2769	2474
62.5	2849	2589
65.0	2885	2729
67.5	2822	2795
70.0	2587	2722
72.5	2080	2315
75.0	1396	1621
77.5	1033	1161
80.0	748	784
82.5	541	553
85.0	444	480
87.5	589	699
90.0	186	168
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	5	5
120.0	6	5
122.5	6	6
125.0	7	7
127.5	8	8
130.0	8	8
132.5	8	8
135.0	7	6
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

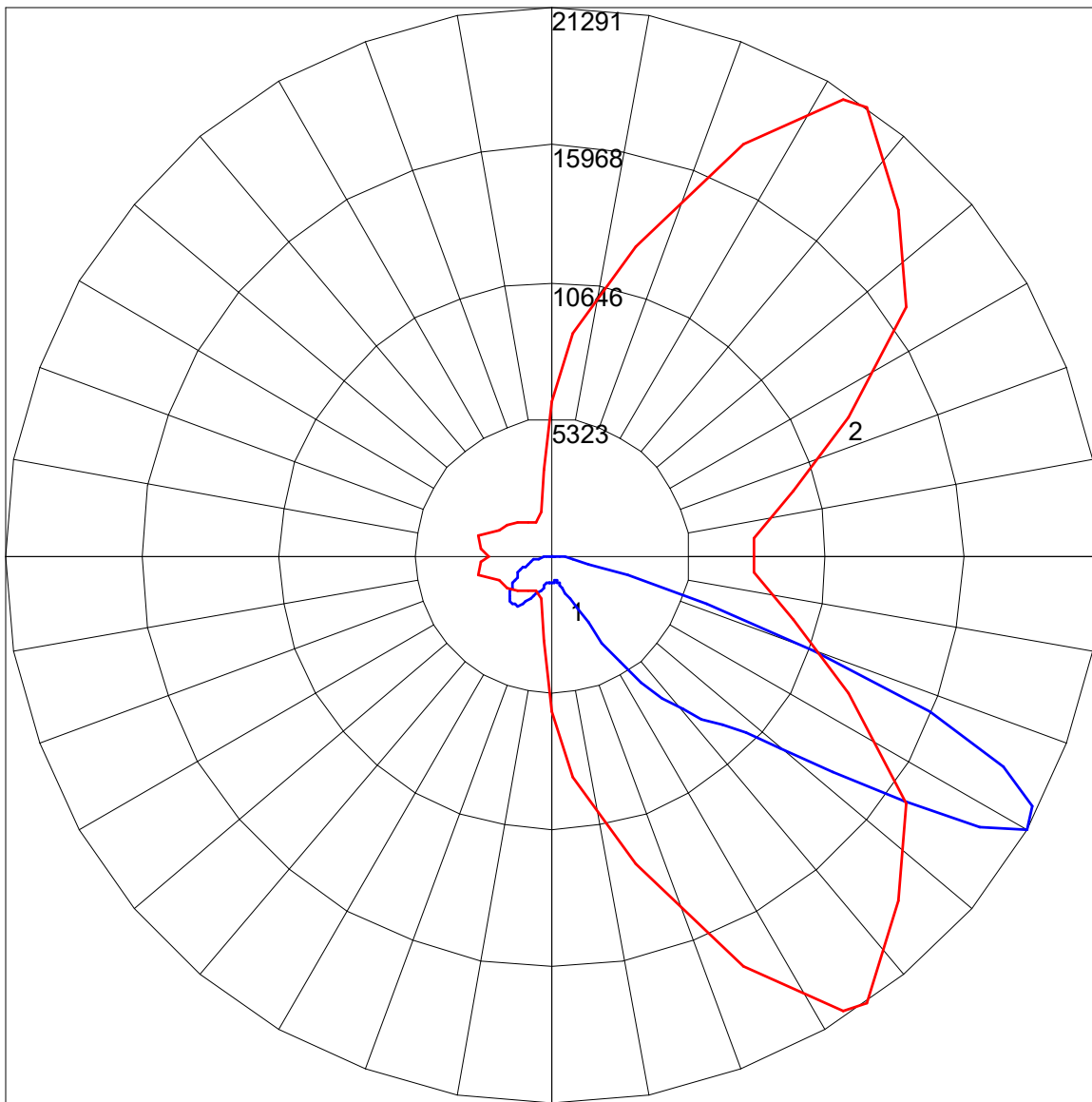
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

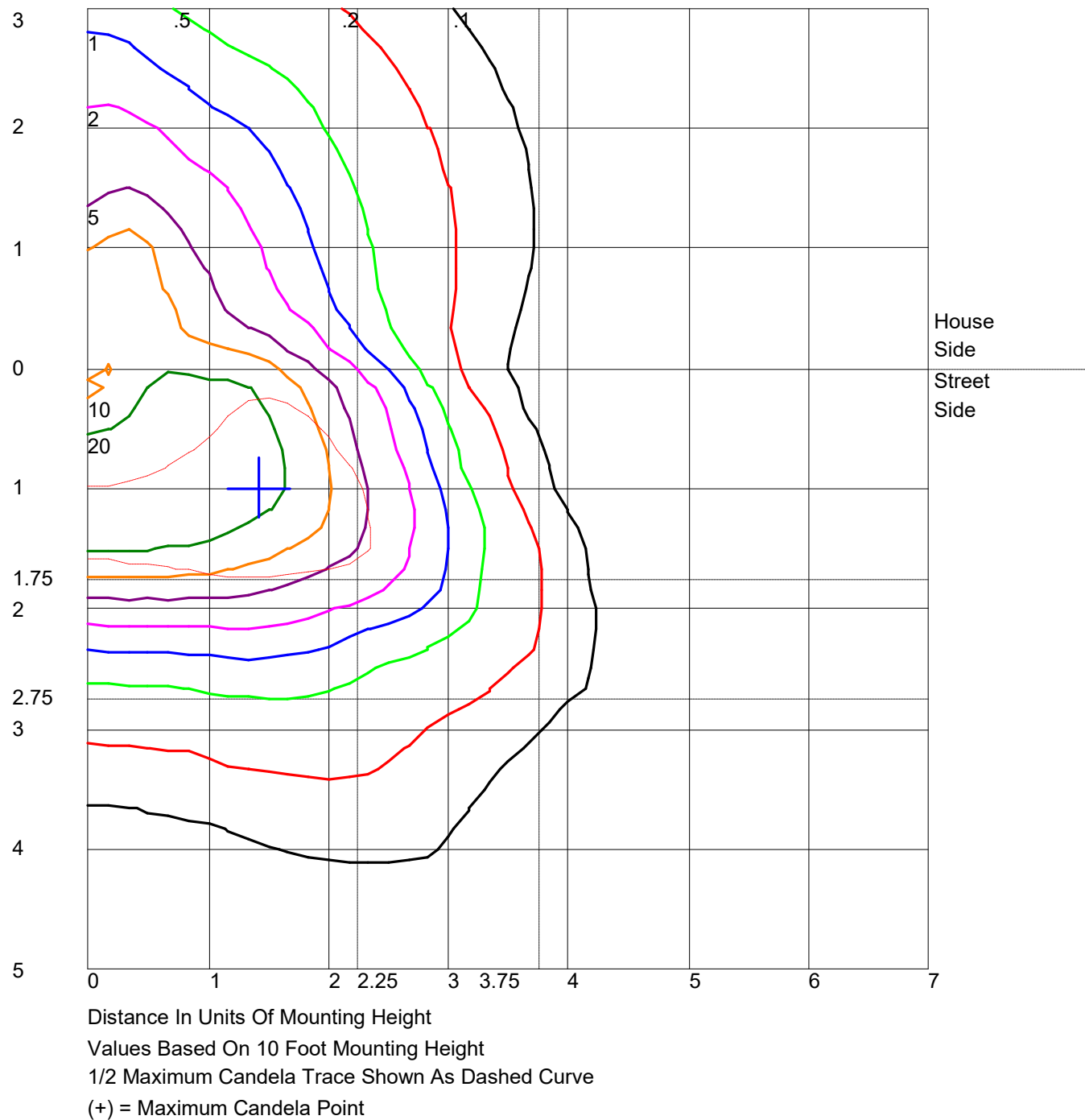
	Lumens	Percent Of Luminaire
Downward Street Side	18086.2	76.8
Downward House Side	5396.0	22.9
Downward Total	23482.2	99.7
Upward Street Side	25.1	0.1
Upward House Side	36.7	0.2
Upward Total	61.8	0.3
Total Flux	23544.0	100.0

POLAR GRAPH

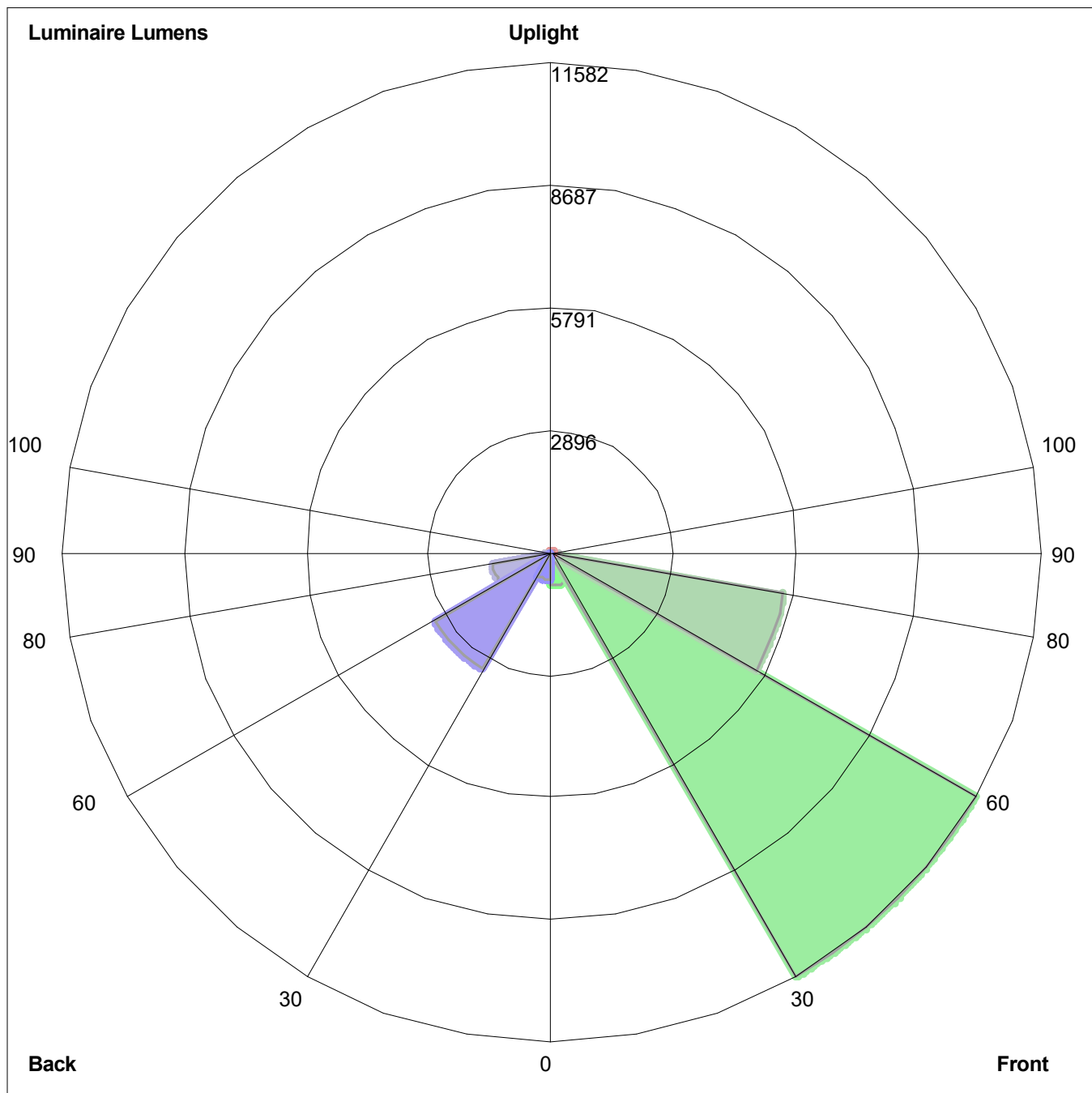


Maximum Candela = 21291 Located At Horizontal Angle = 55, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=757.2, Medium=11582.4, High= 5580.0, Very High=166.5
Back: Low=644.0, Medium=3193.8, High=1419.4, Very High=138.8
Uplight: Low=18.9, High=43.0

BUG Rating : B3-U2-G3