



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-25L-40-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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-FT-LED-25L-40-IL

[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	18953
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	227.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13353
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	13353
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	54 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1679 (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)	1059.9	N.A.	5.6
FM - Front-Medium (30-60)	8622.3	N.A.	45.5
FH - Front-High (60-80)	6255.5	N.A.	33.0
FVH - Front-Very High (80-90)	227.2	N.A.	1.2
BL - Back-Low (0-30)	721.1	N.A.	3.8
BM - Back-Medium (30-60)	1698.6	N.A.	9.0
BH - Back-High (60-80)	296.9	N.A.	1.6
BVH - Back-Very High (80-90)	15.0	N.A.	0.1
UL - Uplight-Low (90-100)	13.7	N.A.	0.1
UH - Uplight-High (100-180)	42.4	N.A.	0.2
Total	18952.6	N.A.	100.0
BUG Rating	B2-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	1879	1879	1879	1879	1879	1879	1879	1879	1879	1879
2.5	1840	1856	1866	1857	1869	1866	1889	1889	1878	1870
5.0	1719	1718	1763	1800	1808	1780	1795	1748	1735	1715
7.5	1632	1665	1709	1674	1610	1636	1622	1716	1810	1811
10.0	1620	1639	1634	1598	1616	1649	1697	1742	1768	1814
12.5	1763	1723	1710	1648	1681	1703	1722	1764	1873	1907
15.0	1859	1821	1839	1848	1860	1831	1820	1881	1966	2024
17.5	1985	1951	1942	1984	2039	2019	2059	2031	2077	2184
20.0	2201	2200	2219	2223	2211	2230	2272	2277	2247	2375
22.5	2423	2465	2525	2616	2548	2523	2552	2564	2489	2637
25.0	2805	2790	2834	2925	3072	3051	2959	2983	2872	2873
27.5	3428	3348	3402	3381	3466	3547	3528	3443	3308	3185
30.0	3887	3951	3956	4015	3976	4044	4064	4041	3738	3524
32.5	4893	4781	4631	4609	4660	4685	4659	4650	4244	3927
35.0	5422	5479	5331	5378	5295	5380	5282	5269	4818	4303
37.5	6277	6247	6017	6054	6096	6101	5939	5914	5408	4827
40.0	6813	6794	6847	6790	6808	6783	6742	6511	6074	5257
42.5	7221	7238	7273	7363	7499	7410	7365	7232	6705	5644
45.0	7606	7700	7719	7847	8174	8080	8128	7819	7296	6057
47.5	8078	8188	8251	8408	8766	8732	8829	8455	7864	6540
50.0	8591	8685	8789	9056	9419	9490	9590	9230	8580	7012
52.5	8958	9057	9244	9589	10151	10469	10352	10032	9153	7319
55.0	9279	9361	9625	10107	10969	11233	11177	10783	9576	7543
57.5	9619	9706	10031	10647	11680	11900	11874	11345	9830	7546
60.0	9871	9959	10395	11213	12264	12585	12548	11699	9810	7281
62.5	9934	10017	10680	11779	12791	13110	12973	11691	9511	6755
65.0	9125	9291	10230	11782	13071	13353	13193	11303	8754	5867
67.5	7693	7795	8924	10766	12504	12869	12523	10453	7610	4771
70.0	4226	4598	6110	8720	10751	11332	10996	8952	6081	3364
72.5	1839	1996	2808	4839	7675	8556	8769	6788	4224	2107
75.0	1385	1472	1891	2646	3870	4434	4991	4428	2600	1397
77.5	1111	1183	1573	2081	2413	2462	2518	2482	1660	992
80.0	890	965	1317	1631	1679	1594	1491	1221	1051	663
82.5	666	722	947	1067	879	811	679	513	514	436
85.0	368	385	484	481	347	328	274	229	241	246
87.5	123	138	165	156	111	101	81	74	73	93
90.0	43	45	54	46	33	27	21	13	10	12
92.5	19	19	15	11	10	10	11	10	10	9
95.0	3	3	4	6	9	10	10	10	9	9
97.5	3	3	4	6	7	8	9	9	9	9
100.0	3	3	4	6	7	8	8	8	8	9
102.5	3	3	4	6	7	7	8	8	8	8
105.0	4	3	4	6	7	7	8	7	7	8
107.5	4	4	4	6	7	7	8	8	8	8
110.0	4	4	5	6	7	8	8	8	8	8
112.5	5	5	5	6	8	8	8	8	8	9
115.0	6	6	6	7	8	8	9	8	8	9
117.5	7	7	7	7	8	9	9	9	9	9
120.0	8	8	8	8	9	9	10	9	9	10
122.5	9	9	9	8	9	10	10	10	9	10
125.0	10	9	9	9	9	10	10	10	10	11
127.5	10	10	9	10	10	10	11	10	10	11
130.0	11	10	10	10	10	11	11	10	10	12

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CANDELA TABULATION - (Cont.)

132.5	11	11	11	10	11	11	11	11	11	12
135.0	10	10	9	9	10	10	10	10	10	11
137.5	5	5	5	6	8	8	8	8	8	9
140.0	1	1	3	4	5	6	6	6	7	7
142.5	1	1	3	4	5	6	6	6	6	7
145.0	1	1	2	4	5	5	6	6	6	6
147.5	1	1	2	4	5	5	6	6	6	6
150.0	0	1	2	4	5	5	6	6	6	6
152.5	1	1	3	4	5	6	6	6	6	6
155.0	1	1	3	4	5	5	5	6	6	6
157.5	1	1	3	4	5	5	5	5	5	6
160.0	1	1	3	4	5	5	5	5	5	5
162.5	1	1	3	4	5	5	5	5	5	5
165.0	1	1	3	4	5	5	5	5	5	5
167.5	1	1	3	4	5	5	5	5	5	5
170.0	1	1	3	4	5	5	5	5	5	5
172.5	1	1	3	4	4	5	5	5	5	5
175.0	1	1	3	4	4	5	5	5	5	5
177.5	1	1	2	3	4	4	5	5	5	5
180.0	3	3	3	3	3	3	3	3	3	3

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	1879	1879	1879	1879	1879	1879	1879	1879	1879	1879
2.5	1885	1890	1873	1871	1871	1880	1892	1898	1867	1834
5.0	1750	1757	1745	1774	1790	1811	1832	1839	1824	1767
7.5	1794	1829	1827	1881	1822	1733	1660	1697	1699	1754
10.0	1832	1806	1822	1842	1767	1750	1709	1698	1624	1699
12.5	1893	1922	1963	1946	1843	1726	1723	1780	1723	1731
15.0	2082	2061	2067	1978	1845	1878	1850	1735	1606	1474
17.5	2175	2193	2173	2124	1948	1946	1838	1556	1292	1139
20.0	2434	2389	2386	2158	2027	1976	1609	1292	1095	1032
22.5	2651	2621	2615	2382	2149	1873	1395	1142	1050	1023
25.0	2931	2889	2837	2540	2259	1717	1243	1103	1065	1067
27.5	3181	3125	3037	2778	2326	1547	1215	1117	1145	1181
30.0	3396	3392	3228	2884	2235	1518	1240	1168	1248	1307
32.5	3704	3552	3360	2925	2150	1519	1285	1230	1354	1512
35.0	3947	3855	3536	2948	2015	1545	1317	1276	1481	1688
37.5	4307	4123	3782	2885	1930	1552	1320	1321	1562	1770
40.0	4540	4233	3851	2812	1874	1540	1304	1313	1573	1609
42.5	4747	4344	3884	2710	1793	1508	1248	1221	1384	1214
45.0	5015	4470	3954	2588	1705	1437	1145	1022	1010	860
47.5	5236	4591	4013	2468	1604	1312	977	792	695	601
50.0	5416	4629	3992	2371	1464	1131	792	600	486	440
52.5	5538	4655	3928	2293	1277	877	589	435	351	330
55.0	5586	4625	3815	2181	1032	618	402	302	254	247
57.5	5455	4485	3644	1990	771	412	280	214	183	183
60.0	5098	4191	3357	1682	535	308	215	159	132	130
62.5	4575	3691	2900	1349	385	250	170	119	91	91
65.0	3894	3004	2270	996	308	204	136	90	67	64
67.5	2910	2225	1480	617	247	165	106	72	49	45
70.0	1907	1454	870	357	187	126	83	59	39	34
72.5	1114	831	532	232	126	89	65	47	31	21
75.0	793	568	362	164	92	65	52	34	16	9
77.5	560	392	247	122	71	54	41	21	8	5

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CANDELA TABULATION - (Cont.)

80.0	343	248	175	89	57	46	32	15	5	4
82.5	230	172	122	63	46	38	28	13	4	3
85.0	153	105	70	41	37	33	24	13	3	3
87.5	69	43	31	26	27	25	18	11	3	3
90.0	14	9	16	23	27	24	18	11	3	3
92.5	11	9	17	25	28	26	20	12	5	4
95.0	11	8	17	24	27	25	19	13	6	5
97.5	10	7	14	20	22	21	17	13	7	5
100.0	9	8	11	15	18	18	15	12	8	6
102.5	9	8	10	12	14	15	13	11	8	6
105.0	8	8	10	11	12	13	12	11	8	7
107.5	8	8	10	11	12	12	12	11	9	7
110.0	8	9	10	11	12	12	11	10	8	7
112.5	9	9	10	11	12	12	11	11	9	8
115.0	9	10	11	11	12	12	12	11	10	8
117.5	10	10	11	12	13	13	13	12	11	9
120.0	10	11	11	12	13	14	14	13	12	10
122.5	11	12	12	13	14	15	14	14	12	11
125.0	11	12	12	13	14	14	14	14	13	11
127.5	12	12	13	13	14	14	14	14	13	12
130.0	12	13	12	13	14	14	14	14	13	12
132.5	12	13	13	13	13	14	14	13	13	11
135.0	12	12	12	13	12	12	12	11	10	10
137.5	10	10	10	10	11	10	10	8	7	6
140.0	7	8	8	8	8	8	7	6	5	3
142.5	7	7	7	8	8	7	6	5	4	2
145.0	7	7	7	7	7	7	6	5	3	2
147.5	7	7	7	7	7	7	6	5	3	2
150.0	6	7	7	7	7	6	5	4	3	1
152.5	6	7	7	7	7	6	5	4	3	1
155.0	6	6	6	6	6	6	5	4	2	1
157.5	6	6	6	6	6	6	5	3	2	1
160.0	5	6	6	6	6	5	4	3	2	0
162.5	5	5	5	5	5	5	4	2	1	0
165.0	5	5	5	5	5	5	3	2	1	0
167.5	5	5	5	5	5	4	3	2	1	0
170.0	5	5	5	5	5	4	3	2	1	0
172.5	5	5	5	5	4	4	3	2	1	0
175.0	5	5	5	5	4	4	3	2	0	0
177.5	5	5	5	4	4	3	2	2	0	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	175	180
0.0	1879	1879
2.5	1840	1854
5.0	1750	1769
7.5	1737	1722
10.0	1749	1709
12.5	1727	1702
15.0	1477	1474
17.5	1123	1119
20.0	1046	1048
22.5	1047	1066
25.0	1128	1164

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

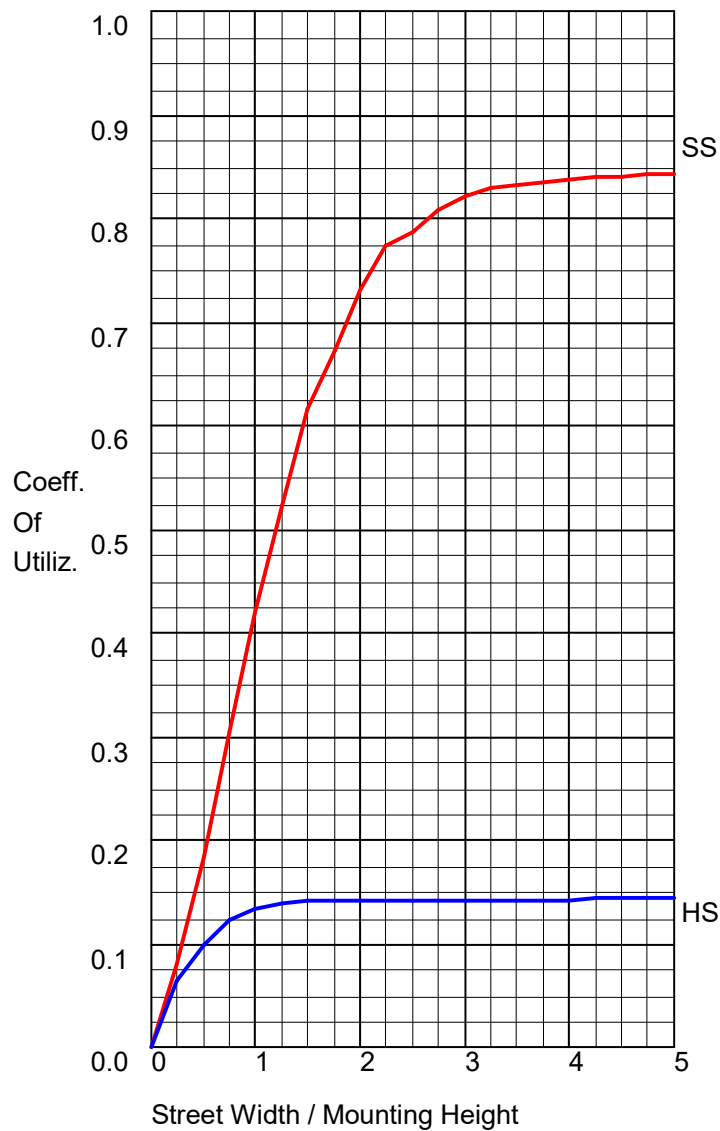
27.5	1249	1309
30.0	1414	1428
32.5	1654	1665
35.0	1762	1781
37.5	1737	1718
40.0	1432	1404
42.5	1065	1046
45.0	797	792
47.5	604	608
50.0	466	458
52.5	358	355
55.0	272	274
57.5	209	212
60.0	158	162
62.5	120	123
65.0	89	92
67.5	63	67
70.0	46	49
72.5	25	26
75.0	9	11
77.5	2	3
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	1	0
95.0	2	2
97.5	3	3
100.0	4	4
102.5	5	4
105.0	5	4
107.5	6	5
110.0	6	6
112.5	7	6
115.0	7	7
117.5	8	8
120.0	9	8
122.5	9	9
125.0	10	9
127.5	10	10
130.0	10	10
132.5	10	10
135.0	8	8
137.5	5	4
140.0	2	2
142.5	1	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	3	3

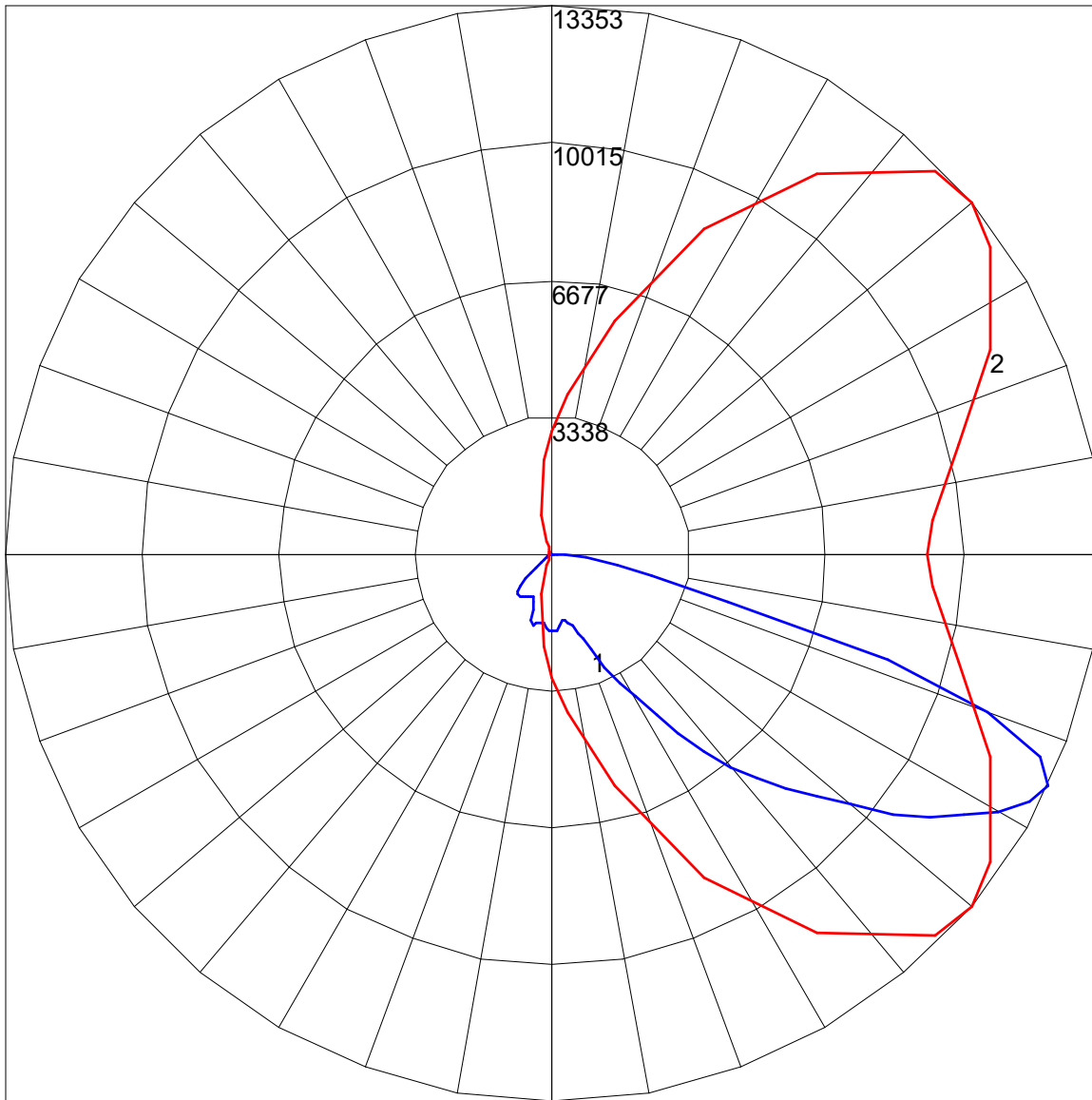
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

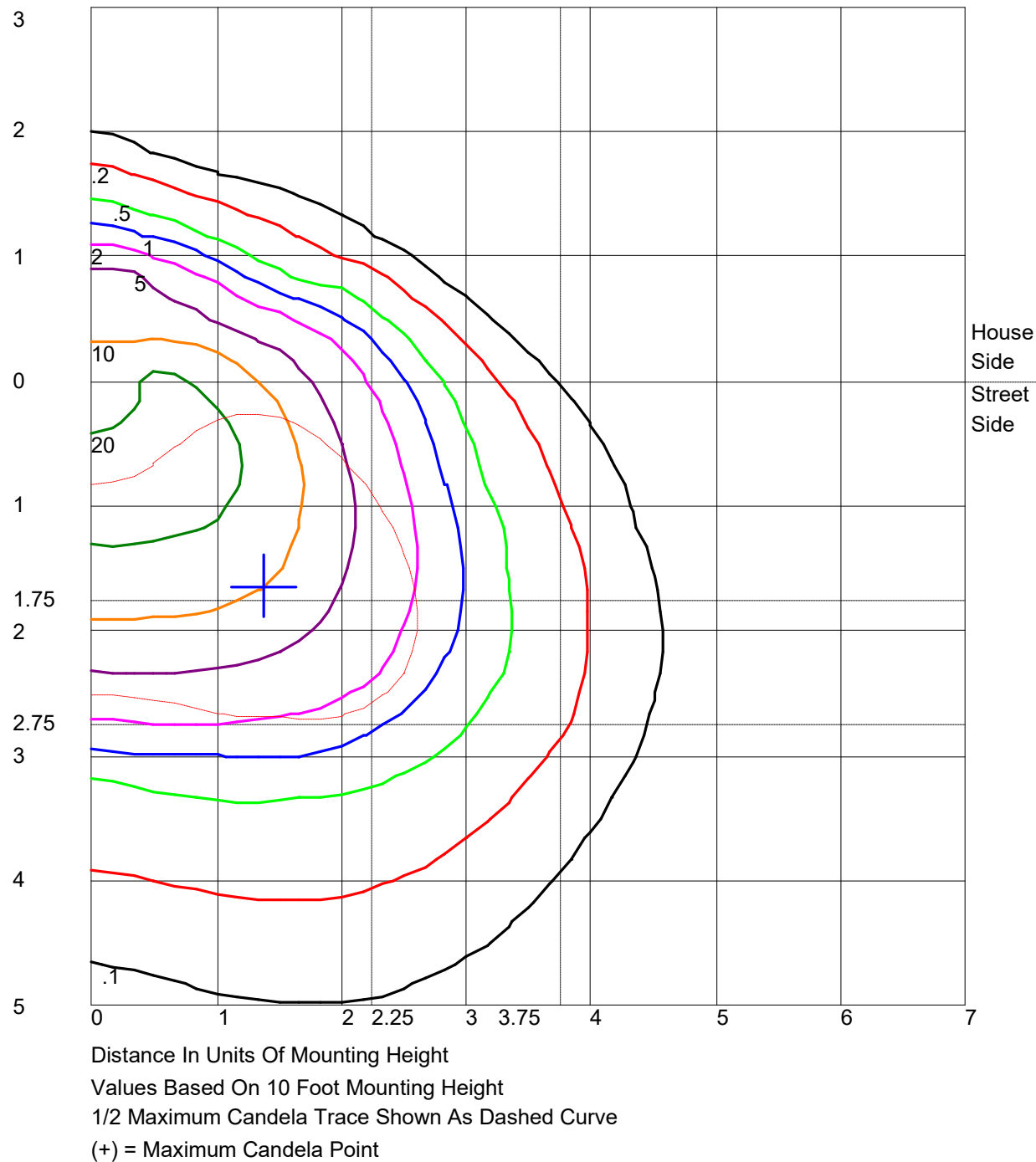
	Lumens	Percent Of Luminaire
Downward Street Side	16165.0	85.3
Downward House Side	2731.6	14.4
Downward Total	18896.6	99.7
Upward Street Side	24.8	0.1
Upward House Side	31.2	0.2
Upward Total	56.0	0.3
Total Flux	18952.6	100.0

POLAR GRAPH

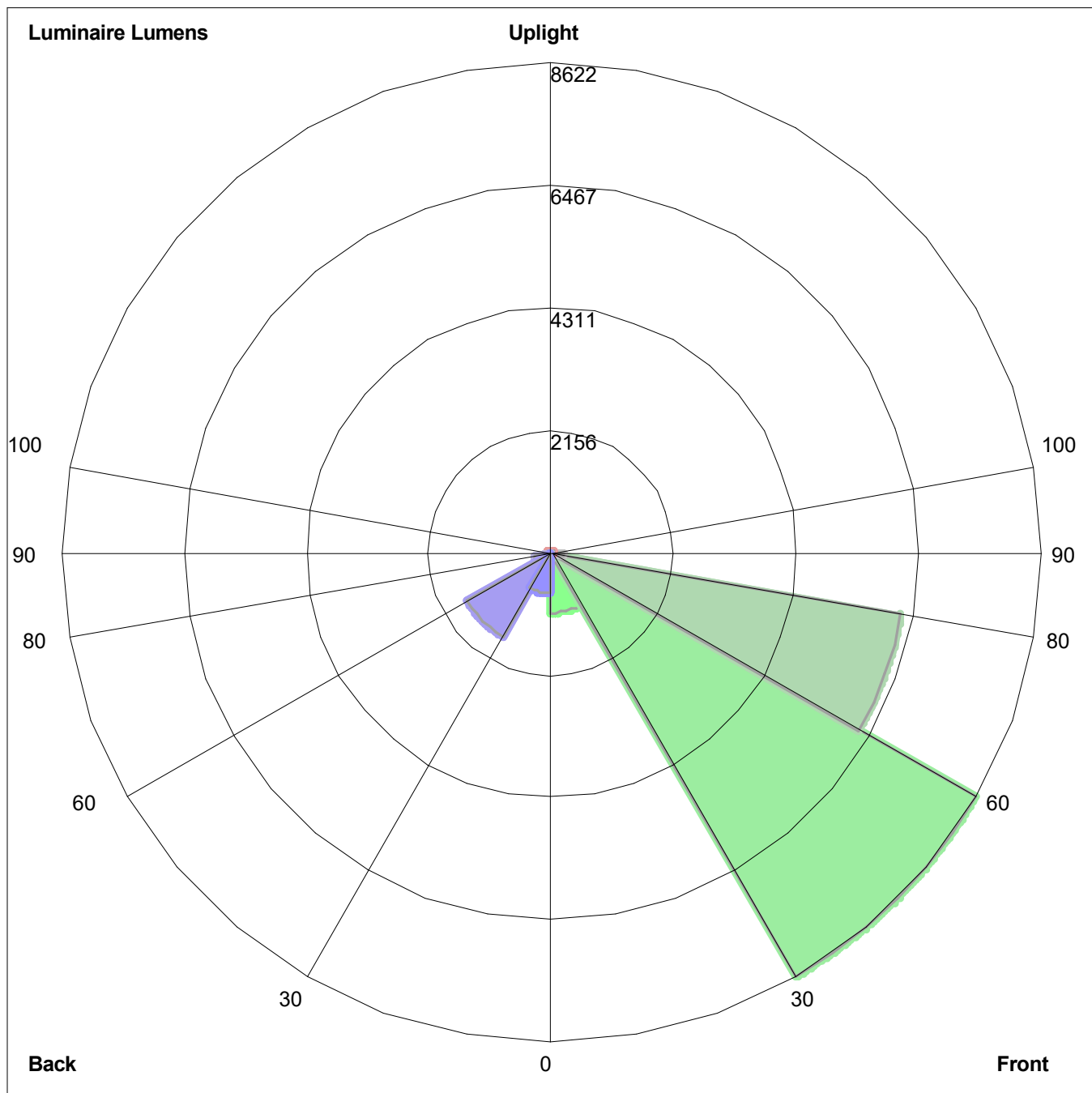


Maximum Candela = 13353 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1059.9, Medium=8622.3, High=6255.5, Very High=227.2
Back: Low=721.1, Medium=1698.6, High=296.9, Very High=15.0
Uplight: Low=13.7, High=42.4

BUG Rating : B2-U2-G3