



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-10L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11669

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/01/20

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCE TYPE] LED

[SEARCH_APPLICATION] Outdoor

[LUMCAT] LXM4-PT-2-LED-10L-30

[MANUFAC] LSI INDUSTRIES, INC.

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9102
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	77.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7354
Maximum Candela Angle	82.5H 65V
Maximum Candela (<90 Degrees Vertical)	7354
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 65V
Maximum Candela At 90 Degrees Vertical	12 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	481 (5.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	493.4	N.A.	5.4
FM - Front-Medium (30-60)	3420.4	N.A.	37.6
FH - Front-High (60-80)	1789.6	N.A.	19.7
FVH - Front-Very High (80-90)	39.9	N.A.	0.4
BL - Back-Low (0-30)	389.2	N.A.	4.3
BM - Back-Medium (30-60)	2060.2	N.A.	22.6
BH - Back-High (60-80)	842.7	N.A.	9.3
BVH - Back-Very High (80-90)	51.7	N.A.	0.6
UL - Uplight-Low (90-100)	3.9	N.A.	0.0
UH - Uplight-High (100-180)	11.4	N.A.	0.1
Total	9102.4	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>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	788	788	788	788	788	788	788	788	788	788
2.5	803	805	790	790	792	796	792	782	767	769
5.0	772	781	780	786	776	770	769	745	750	741
7.5	783	793	777	792	756	784	769	767	787	761
10.0	803	800	797	792	796	814	826	809	812	803
12.5	892	876	863	852	841	870	894	901	873	877
15.0	935	901	924	938	939	956	963	988	978	929
17.5	967	943	974	969	1026	1046	1059	1080	1082	1050
20.0	1064	1042	1069	1055	1053	1121	1169	1174	1208	1201
22.5	1083	1109	1137	1166	1171	1206	1294	1300	1354	1351
25.0	1179	1203	1204	1231	1300	1315	1396	1441	1469	1522
27.5	1393	1358	1377	1373	1405	1462	1528	1600	1639	1693
30.0	1538	1576	1561	1556	1569	1598	1681	1749	1861	1876
32.5	1980	1914	1839	1752	1772	1786	1843	1906	2057	2054
35.0	2259	2281	2145	2114	1997	1992	2039	2115	2200	2301
37.5	2762	2754	2549	2404	2309	2293	2271	2266	2412	2487
40.0	3002	2994	2924	2780	2655	2650	2510	2515	2566	2684
42.5	3183	3172	3107	3031	3011	2940	2831	2744	2681	2823
45.0	3243	3264	3207	3172	3216	3234	3122	3003	2817	3003
47.5	3190	3208	3184	3218	3311	3452	3509	3349	3013	3234
50.0	2979	3011	3045	3101	3304	3633	3910	3793	3279	3528
52.5	2643	2640	2727	2842	3172	3671	4302	4312	3627	3934
55.0	2125	2130	2229	2414	2803	3531	4588	4933	4079	4424
57.5	1594	1594	1695	1863	2258	3132	4735	5536	4669	5037
60.0	1125	1128	1167	1282	1626	2487	4613	6063	5366	5823
62.5	787	776	787	844	1055	1714	4057	6326	6059	6648
65.0	571	563	567	596	707	1045	3176	6169	6602	7354
67.5	411	420	424	446	518	679	2186	5286	6546	7071
70.0	307	315	319	343	401	489	1330	3816	5484	5371
72.5	196	202	211	253	309	377	770	2268	3537	2686
75.0	114	124	117	149	205	287	464	1357	1755	967
77.5	95	107	89	96	117	182	304	816	855	445
80.0	92	99	80	72	81	117	173	481	457	250
82.5	88	87	63	53	53	80	95	247	246	152
85.0	65	64	45	33	33	48	55	69	116	77
87.5	25	26	22	16	14	17	16	19	23	24
90.0	5	5	5	4	2	1	1	2	4	4
92.5	4	4	3	2	1	1	0	1	2	3
95.0	3	3	3	2	1	1	0	0	1	1
97.5	3	3	3	2	1	0	0	0	1	1
100.0	3	3	3	2	1	1	0	0	0	1
102.5	3	3	2	2	1	0	0	0	0	1
105.0	3	3	2	2	1	1	0	0	0	1
107.5	3	3	3	2	1	1	0	0	0	1
110.0	3	3	3	2	1	1	0	0	1	1
112.5	4	3	3	3	2	1	0	0	1	1
115.0	4	4	4	3	2	1	1	0	1	1
117.5	4	4	4	3	2	2	1	1	1	1
120.0	4	4	4	4	3	2	1	1	1	1
122.5	5	5	4	4	3	2	1	1	1	2
125.0	5	5	5	4	3	2	1	1	2	2
127.5	5	5	5	5	4	3	1	1	2	3
130.0	5	5	5	5	4	3	2	2	3	3

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CANDELA TABULATION - (Cont.)

132.5	5	5	5	5	4	3	2	1	3	3
135.0	5	5	5	4	3	3	1	1	2	2
137.5	2	2	2	1	1	1	0	0	0	1
140.0	1	1	0	0	0	0	0	0	0	0
142.5	1	0	0	0	0	0	0	0	0	0
145.0	1	1	0	0	0	0	0	0	0	0
147.5	1	1	0	0	0	0	0	0	0	0
150.0	1	0	0	0	0	0	0	0	0	0
152.5	1	0	0	0	0	0	0	0	0	0
155.0	1	1	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	1	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	1	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	1	0	0	0	0	0	0	0	0	0
175.0	1	0	0	0	0	0	0	0	0	0
177.5	1	1	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	788	788	788	788	788	788	788	788	788	788
2.5	770	781	775	777	782	772	773	775	780	784
5.0	743	752	742	706	734	736	740	731	732	716
7.5	748	759	762	752	742	716	670	677	685	691
10.0	810	787	765	772	729	712	678	672	639	656
12.5	845	857	834	818	765	708	683	695	672	690
15.0	942	931	908	852	778	753	719	721	704	681
17.5	1032	1012	980	914	825	785	771	740	724	710
20.0	1169	1134	1095	977	874	825	776	772	770	769
22.5	1322	1270	1238	1087	959	888	826	806	824	864
25.0	1484	1440	1388	1219	1093	931	855	868	909	974
27.5	1681	1630	1576	1397	1215	983	927	968	1052	1118
30.0	1852	1839	1743	1522	1323	1070	1041	1092	1170	1254
32.5	2089	2039	1926	1689	1419	1200	1193	1230	1346	1480
35.0	2287	2276	2163	1875	1495	1325	1359	1408	1519	1650
37.5	2506	2494	2373	2063	1640	1472	1500	1580	1644	1822
40.0	2702	2681	2569	2249	1749	1628	1664	1719	1778	1900
42.5	2871	2851	2733	2364	1846	1761	1765	1809	1802	1867
45.0	3060	3066	2907	2444	1905	1818	1789	1789	1737	1744
47.5	3306	3305	3137	2506	1958	1818	1742	1693	1604	1566
50.0	3610	3607	3384	2554	1980	1780	1642	1533	1407	1357
52.5	3977	3969	3648	2588	1971	1695	1505	1361	1204	1153
55.0	4464	4412	3950	2604	1944	1600	1361	1202	1050	994
57.5	5100	4994	4236	2600	1905	1490	1228	1074	931	888
60.0	5878	5552	4471	2561	1837	1387	1132	977	828	788
62.5	6622	5994	4512	2424	1726	1265	1024	892	718	665
65.0	7112	5943	4152	2096	1512	1109	891	771	583	521
67.5	6582	5025	3251	1557	1192	869	712	614	438	386
70.0	4793	3360	2082	1016	814	626	534	454	323	288
72.5	2369	1627	1093	666	568	450	395	334	237	202
75.0	795	616	539	444	398	339	298	234	158	137
77.5	369	301	321	318	297	263	213	157	119	110

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CANDELA TABULATION - (Cont.)

80.0	222	191	196	234	234	191	143	125	110	115
82.5	129	113	110	180	174	122	109	117	149	157
85.0	67	60	62	109	83	81	89	120	159	134
87.5	24	21	23	30	32	35	38	54	67	49
90.0	4	4	5	6	10	12	11	9	4	5
92.5	2	3	4	5	9	11	10	8	3	4
95.0	2	2	4	5	8	9	9	6	3	4
97.5	1	1	3	5	6	7	6	5	2	4
100.0	1	1	3	5	5	5	5	4	2	3
102.5	1	1	2	4	5	4	4	3	2	3
105.0	1	1	2	3	4	3	3	3	2	3
107.5	1	1	2	3	4	3	3	2	2	3
110.0	1	1	2	3	3	3	3	3	2	3
112.5	1	1	2	3	4	3	3	3	3	4
115.0	1	2	2	3	4	4	4	3	3	4
117.5	2	2	2	3	4	4	4	3	3	4
120.0	2	2	3	3	4	4	4	4	4	4
122.5	2	3	3	4	4	4	4	4	4	5
125.0	3	3	4	4	4	4	4	5	5	5
127.5	3	4	4	4	4	4	4	5	5	5
130.0	3	4	4	5	5	4	5	5	5	5
132.5	3	4	4	4	5	5	4	5	5	6
135.0	2	3	3	4	4	4	4	5	5	5
137.5	1	1	2	2	2	3	3	3	4	4
140.0	0	0	0	1	1	1	2	2	2	3
142.5	0	0	0	0	1	1	2	2	2	2
145.0	0	0	0	0	1	1	2	2	2	2
147.5	0	0	0	0	1	1	2	2	2	2
150.0	0	0	0	0	1	1	2	2	2	2
152.5	0	0	0	0	1	1	2	2	2	2
155.0	0	0	0	0	1	1	2	2	2	2
157.5	0	0	0	0	1	1	2	2	2	2
160.0	0	0	0	0	1	1	2	2	2	2
162.5	0	0	0	0	1	1	1	2	2	1
165.0	0	0	0	0	1	1	1	2	1	1
167.5	0	0	0	0	1	1	1	2	1	1
170.0	0	0	0	0	0	1	1	2	1	1
172.5	0	0	0	0	0	1	1	1	1	1
175.0	0	0	0	0	0	1	1	1	1	1
177.5	0	0	0	0	0	1	1	1	1	1
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	788	788
2.5	788	782
5.0	726	724
7.5	693	709
10.0	661	669
12.5	689	710
15.0	705	729
17.5	744	751
20.0	818	802
22.5	881	902
25.0	998	1008

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CANDELA TABULATION - (Cont.)

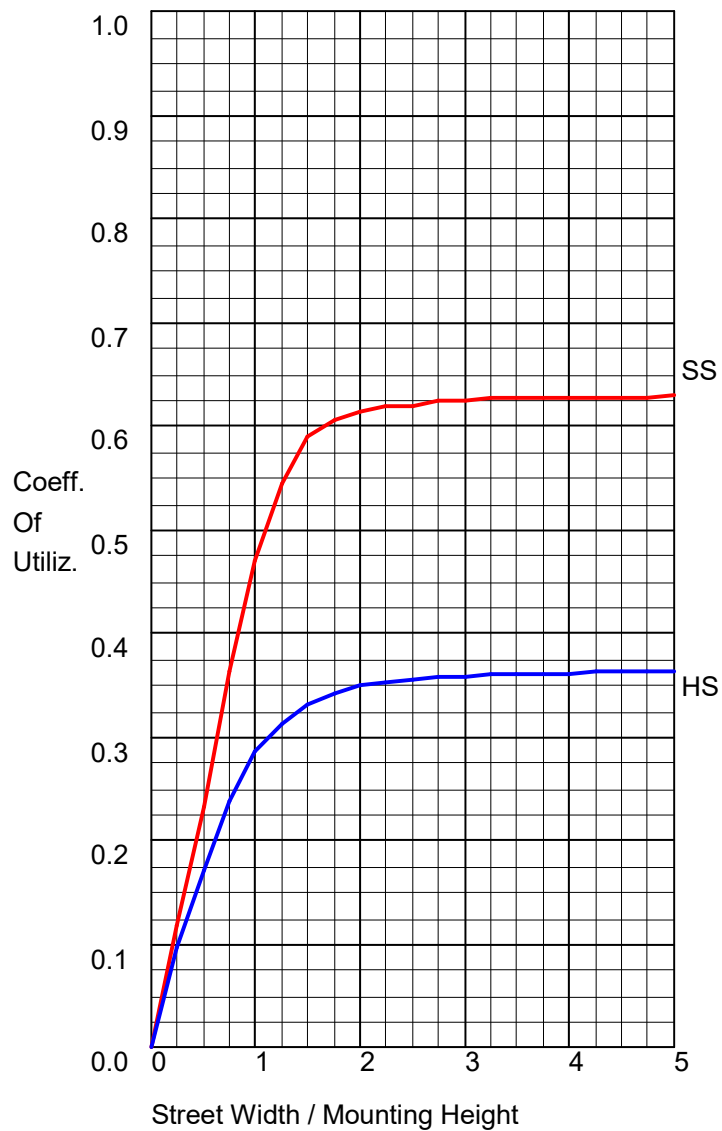
27.5	1143	1161
30.0	1301	1328
32.5	1537	1538
35.0	1717	1717
37.5	1911	1907
40.0	1953	1943
42.5	1909	1896
45.0	1762	1762
47.5	1565	1540
50.0	1332	1324
52.5	1129	1125
55.0	978	969
57.5	880	874
60.0	775	764
62.5	646	634
65.0	499	484
67.5	367	350
70.0	281	272
72.5	202	198
75.0	158	157
77.5	134	135
80.0	140	144
82.5	177	180
85.0	139	146
87.5	43	34
90.0	4	4
92.5	4	3
95.0	4	3
97.5	3	3
100.0	3	3
102.5	3	3
105.0	3	3
107.5	3	3
110.0	3	3
112.5	3	4
115.0	4	4
117.5	4	4
120.0	4	4
122.5	5	5
125.0	5	5
127.5	5	5
130.0	5	5
132.5	5	5
135.0	5	5
137.5	4	4
140.0	3	3
142.5	2	2
145.0	2	2
147.5	2	2
150.0	2	2
152.5	2	2
155.0	2	2
157.5	2	2
160.0	1	1
162.5	1	1
165.0	1	1

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CANDELA TABULATION - (Cont.)

167.5	1	1
170.0	1	1
172.5	1	1
175.0	1	1
177.5	1	1
180.0	0	0

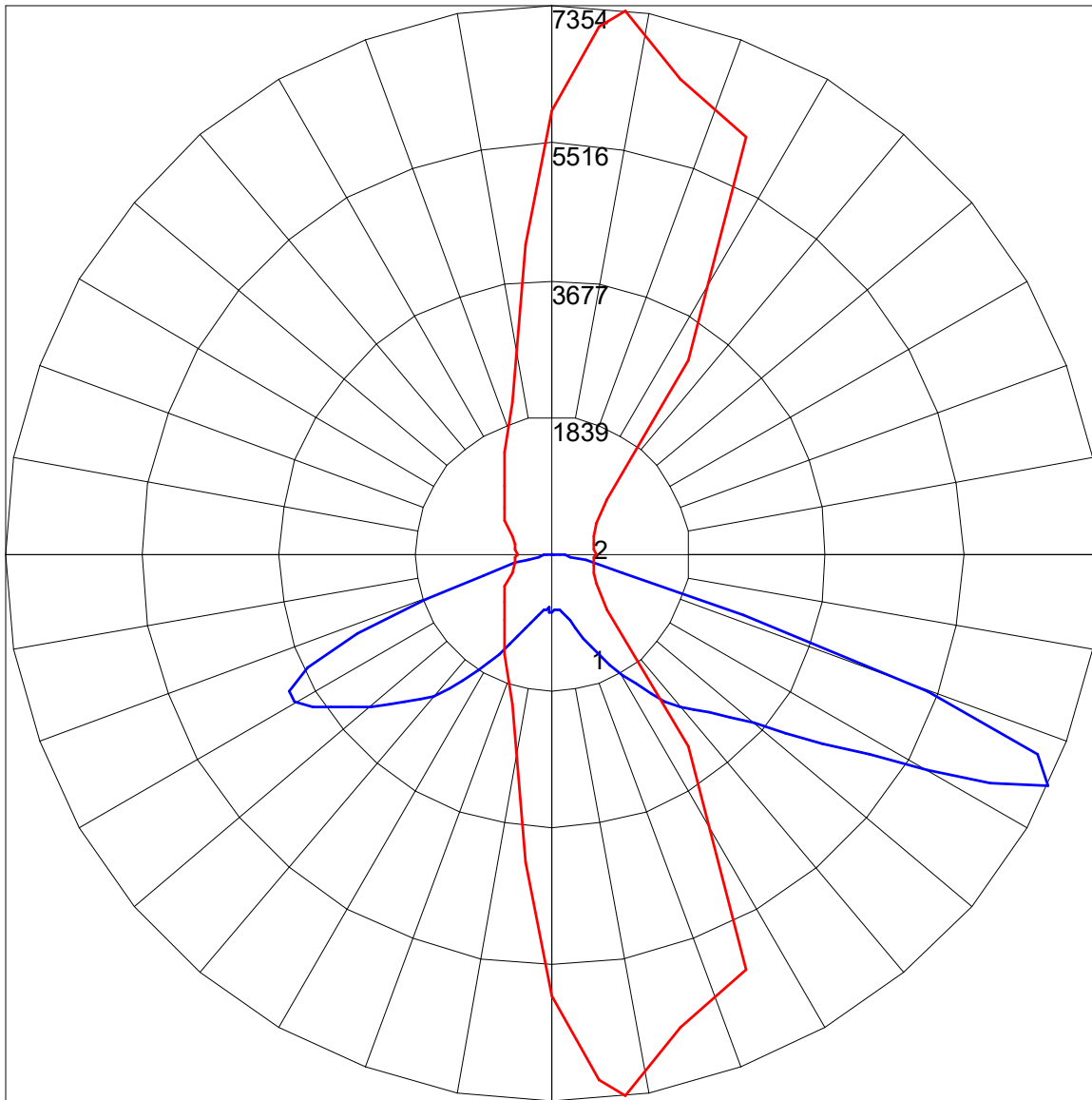
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

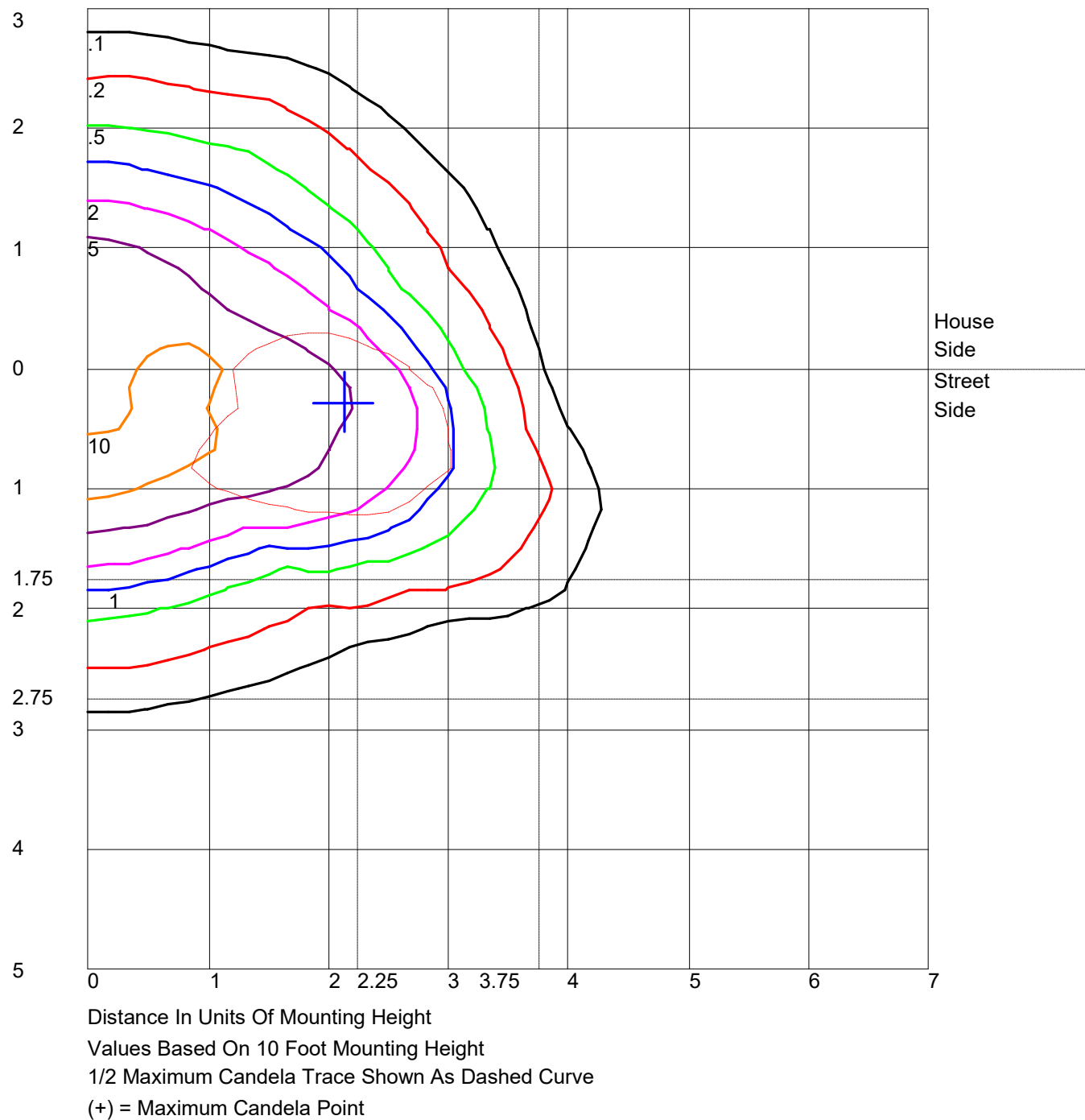
	Lumens	Percent Of Luminaire
Downward Street Side	5743.3	63.1
Downward House Side	3343.8	36.7
Downward Total	9087.1	99.8
Upward Street Side	4.7	0.1
Upward House Side	10.6	0.1
Upward Total	15.3	0.2
Total Flux	9102.4	100.0

POLAR GRAPH

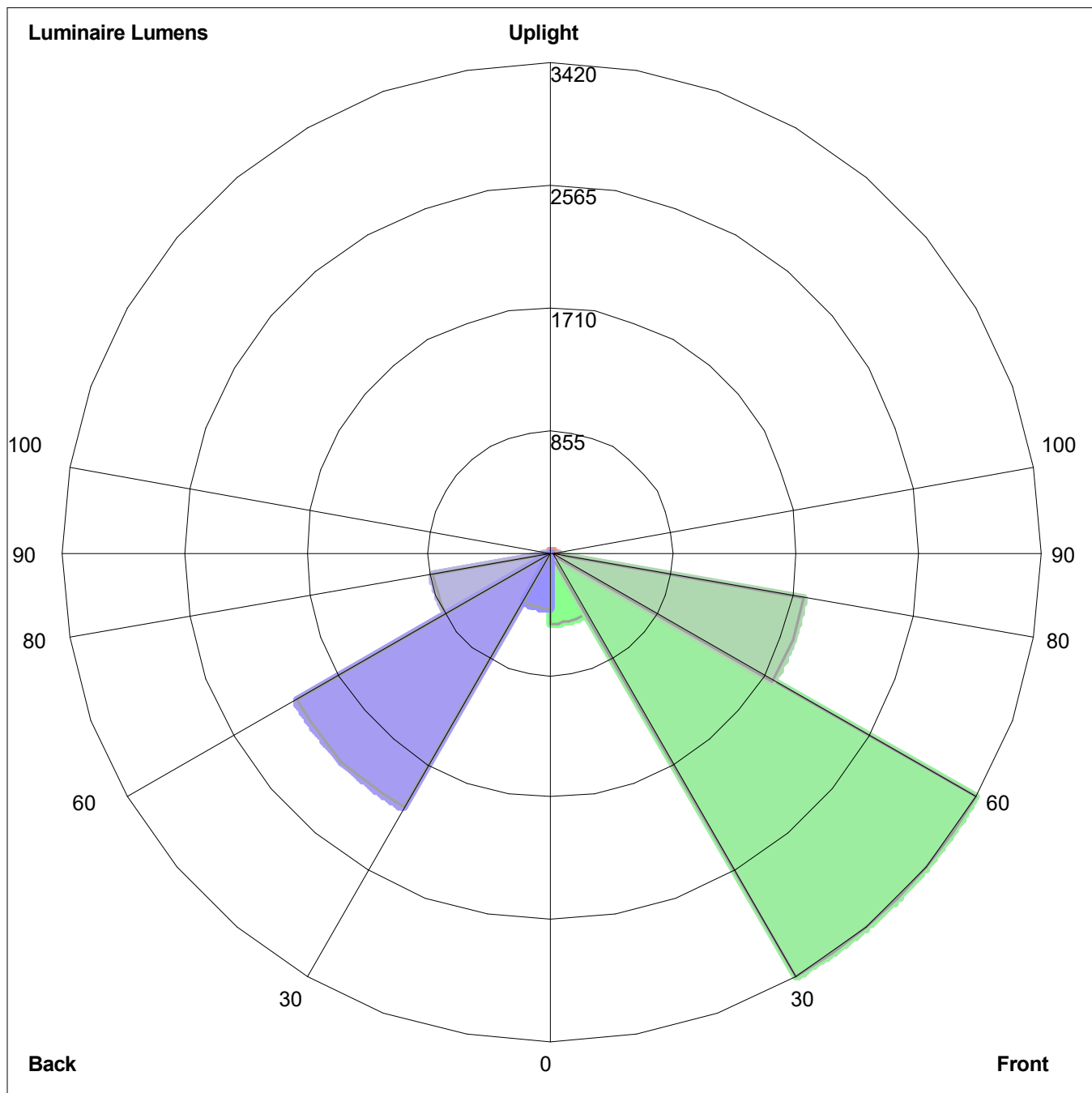


Maximum Candela = 7354 Located At Horizontal Angle = 82.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=493.4, Medium=3420.4, High=1789.6, Very High=39.9
Back: Low=389.2, Medium=2060.2, High=842.7, Very High=51.7
Uplight: Low=3.9, High=11.4

BUG Rating : B2-U2-G2