



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11746

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/23/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-2-LED-18L-50-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14313
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14636
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	14636
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	16 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	578 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1104.9	N.A.	7.7
FM - Front-Medium (30-60)	8063.6	N.A.	56.3
FH - Front-High (60-80)	2647.8	N.A.	18.5
FVH - Front-Very High (80-90)	56.0	N.A.	0.4
BL - Back-Low (0-30)	599.2	N.A.	4.2
BM - Back-Medium (30-60)	1502.1	N.A.	10.5
BH - Back-High (60-80)	311.2	N.A.	2.2
BVH - Back-Very High (80-90)	10.2	N.A.	0.1
UL - Uplight-Low (90-100)	4.2	N.A.	0.0
UH - Uplight-High (100-180)	14.1	N.A.	0.1
Total	14313.3	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472
2.5	1498	1504	1501	1516	1514	1514	1521	1507	1486	1461
5.0	1499	1520	1553	1538	1584	1477	1484	1439	1402	1392
7.5	1528	1572	1595	1512	1548	1484	1505	1557	1521	1477
10.0	1625	1616	1685	1560	1603	1630	1647	1625	1581	1533
12.5	1757	1839	1776	1729	1770	1742	1765	1739	1729	1732
15.0	1893	1972	1939	1987	2030	1934	1961	1929	1959	1890
17.5	2024	2081	2061	2107	2162	2249	2151	2198	2237	2131
20.0	2298	2343	2331	2308	2375	2416	2478	2459	2504	2487
22.5	2477	2495	2551	2617	2649	2665	2874	2860	2950	2938
25.0	2830	2750	2828	2895	2972	2963	3250	3437	3458	3471
27.5	3233	3319	3352	3262	3290	3389	3668	4146	4317	4229
30.0	3766	3677	3654	3675	3723	3906	4215	4976	5158	5106
32.5	4448	4506	4224	4066	4220	4383	4933	6041	6323	6266
35.0	5151	5087	4854	4738	4689	5067	5662	6926	7527	7404
37.5	5886	5878	5549	5318	5438	5587	6356	7598	8079	8217
40.0	6217	6231	6128	6023	6052	6249	6906	7869	8471	8497
42.5	6349	6324	6285	6322	6614	6814	7556	8057	8605	8768
45.0	6198	6205	6207	6405	6868	7440	8270	8589	9045	9331
47.5	5739	5726	5842	6159	6765	7689	8991	9478	9718	10141
50.0	5077	5049	5197	5544	6307	7561	9728	10475	10510	11000
52.5	4224	4224	4386	4744	5571	7033	10146	11577	11508	12394
55.0	3284	3273	3441	3875	4659	6186	10190	12494	12712	13675
57.5	2349	2302	2496	2896	3622	5111	9655	12753	13664	14636
60.0	1602	1589	1744	2030	2597	3851	8485	12319	13967	14618
62.5	1126	1135	1224	1412	1756	2612	6945	10802	13225	13577
65.0	786	784	860	1037	1264	1666	5256	9088	11429	11289
67.5	511	535	583	734	947	1126	3569	6808	9059	8659
70.0	323	333	350	486	687	811	2168	4650	6346	5587
72.5	239	248	248	308	478	585	1124	2906	3680	2798
75.0	166	172	171	199	321	423	626	1765	1802	1117
77.5	109	110	114	123	197	298	377	1006	941	601
80.0	72	77	80	78	108	193	237	538	578	407
82.5	70	69	66	62	67	98	140	270	365	314
85.0	52	51	49	49	54	69	82	130	188	189
87.5	30	30	29	28	31	40	49	64	70	68
90.0	10	10	8	7	7	7	4	7	9	7
92.5	4	4	4	4	2	0	0	0	1	1
95.0	3	2	3	3	1	0	0	0	0	0
97.5	3	2	3	3	1	0	0	0	0	0
100.0	2	2	3	3	1	0	0	0	0	0
102.5	3	2	3	3	1	0	0	0	0	0
105.0	3	2	3	3	1	0	0	0	0	0
107.5	3	3	3	3	1	0	0	0	0	0
110.0	4	3	4	4	1	0	0	0	0	0
112.5	4	4	4	4	2	1	0	0	0	0
115.0	4	4	4	4	2	1	0	0	1	1
117.5	5	5	4	4	3	1	0	0	1	1
120.0	7	6	5	4	3	1	0	1	1	1
122.5	7	7	6	5	4	2	0	1	2	2
125.0	8	7	7	5	4	2	1	1	3	3
127.5	9	8	7	6	4	3	1	2	3	4
130.0	9	9	8	6	4	3	1	2	4	4

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CANDELA TABULATION - (Cont.)

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

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	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472
2.5	1467	1463	1470	1463	1444	1455	1461	1463	1451	1439
5.0	1409	1397	1371	1357	1368	1364	1339	1352	1329	1290
7.5	1454	1458	1427	1437	1366	1297	1193	1209	1192	1227
10.0	1510	1477	1431	1456	1289	1256	1202	1166	1107	1151
12.5	1639	1615	1581	1502	1346	1258	1189	1221	1225	1289
15.0	1813	1764	1659	1529	1325	1288	1293	1359	1391	1371
17.5	2044	1924	1826	1623	1373	1373	1449	1485	1481	1472
20.0	2322	2225	2064	1715	1455	1512	1524	1546	1451	1321
22.5	2794	2533	2371	1938	1596	1627	1591	1403	1143	955
25.0	3293	3092	2776	2099	1845	1737	1444	1030	739	571
27.5	3980	3617	3276	2368	2041	1702	1125	678	456	385
30.0	4830	4356	3819	2651	2203	1514	800	456	374	340
32.5	5747	5151	4405	2927	2289	1246	541	388	334	314
35.0	6806	6038	5083	3236	2217	933	453	351	314	297
37.5	7619	6926	5649	3471	2004	634	409	327	287	267
40.0	7985	7320	5923	3665	1690	505	371	302	254	232
42.5	8391	7743	6139	3675	1184	448	337	270	217	189
45.0	8964	8220	6451	3575	748	399	301	232	178	151
47.5	9791	8870	6752	3264	546	355	256	190	142	118
50.0	10694	9484	6999	2723	467	315	213	148	113	91
52.5	11801	10025	7093	2024	424	273	170	113	87	69
55.0	12969	10153	6947	1364	390	229	133	86	67	48
57.5	13424	9747	6377	962	361	186	99	62	48	30
60.0	12988	8853	5488	784	347	151	72	42	28	15
62.5	11469	7478	4418	650	332	119	51	22	15	7
65.0	9303	5737	3210	496	289	92	35	10	10	5
67.5	6641	3999	1959	351	219	68	21	8	9	5
70.0	3817	2390	1079	248	147	45	18	9	8	5
72.5	1721	1179	607	183	93	28	18	13	8	4
75.0	719	612	376	132	54	23	20	14	7	4
77.5	443	420	242	86	35	23	21	15	7	4

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CANDELA TABULATION - (Cont.)

80.0	352	295	156	47	26	23	21	16	7	4
82.5	251	179	92	23	21	21	21	16	7	5
85.0	145	91	44	12	15	20	20	15	7	5
87.5	50	23	7	6	12	18	17	13	7	4
90.0	2	2	3	5	10	16	16	10	6	4
92.5	0	1	3	5	9	15	14	9	5	4
95.0	0	1	2	4	7	12	9	7	4	4
97.5	0	1	2	4	6	7	6	5	4	4
100.0	0	1	2	4	5	5	5	4	4	4
102.5	0	1	2	4	4	4	4	4	3	4
105.0	0	1	2	3	4	4	4	4	3	4
107.5	0	1	2	4	4	4	4	4	3	3
110.0	1	1	2	4	4	4	4	4	3	4
112.5	1	1	2	4	4	4	4	4	4	4
115.0	1	2	3	4	4	4	4	4	4	4
117.5	2	2	3	4	4	4	4	4	4	4
120.0	3	3	4	4	4	4	4	4	4	4
122.5	3	4	4	4	5	5	5	5	5	5
125.0	4	4	4	4	5	5	5	5	5	5
127.5	4	4	4	5	5	5	5	6	6	6
130.0	4	4	5	5	5	5	5	6	6	6
132.5	4	4	5	5	5	5	5	6	6	6
135.0	4	4	4	5	5	5	5	6	6	6
137.5	1	2	3	3	4	4	4	5	5	5
140.0	0	0	1	1	2	3	4	4	4	4
142.5	0	0	0	1	2	3	3	4	4	4
145.0	0	0	0	1	2	3	3	4	4	4
147.5	0	0	0	1	2	3	4	4	4	4
150.0	0	0	0	1	2	3	4	4	4	4
152.5	0	0	0	1	2	3	4	4	4	4
155.0	0	0	0	1	2	3	4	4	4	4
157.5	0	0	0	1	2	3	4	4	4	4
160.0	0	0	0	1	1	2	3	4	4	3
162.5	0	0	0	1	1	2	3	4	4	3
165.0	0	0	0	0	1	1	2	3	3	3
167.5	0	0	0	0	1	1	2	3	3	2
170.0	0	0	0	0	1	1	1	3	3	2
172.5	0	0	0	0	0	1	1	2	2	2
175.0	0	0	0	0	0	1	1	2	2	2
177.5	0	0	0	0	0	1	1	1	2	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	175	180
0.0	1472	1472
2.5	1422	1398
5.0	1282	1266
7.5	1211	1183
10.0	1184	1148
12.5	1321	1281
15.0	1470	1442
17.5	1538	1490
20.0	1306	1240
22.5	871	858
25.0	502	489

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CANDELA TABULATION - (Cont.)

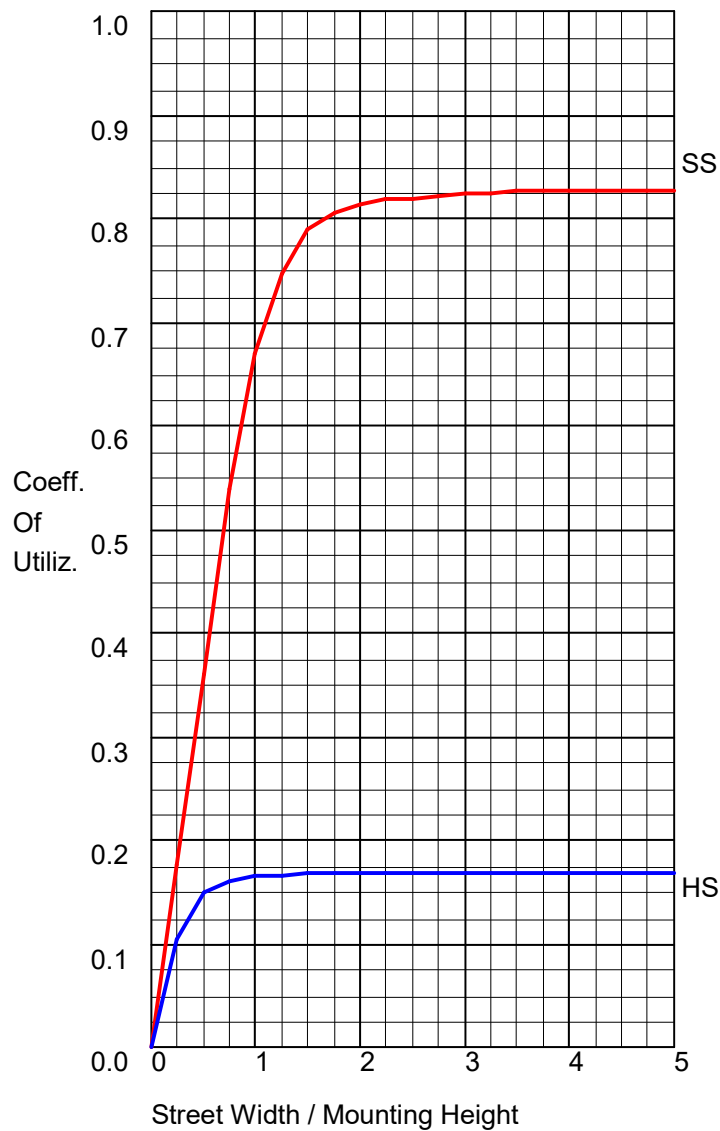
27.5	374	371
30.0	335	334
32.5	317	317
35.0	293	294
37.5	263	266
40.0	223	223
42.5	179	176
45.0	142	140
47.5	110	108
50.0	84	83
52.5	61	60
55.0	41	41
57.5	22	21
60.0	9	9
62.5	4	4
65.0	2	2
67.5	3	3
70.0	3	3
72.5	2	1
75.0	1	1
77.5	2	1
80.0	2	2
82.5	2	2
85.0	2	2
87.5	2	2
90.0	2	2
92.5	2	2
95.0	2	1
97.5	1	1
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	2	1
112.5	2	2
115.0	2	2
117.5	3	3
120.0	4	4
122.5	4	4
125.0	5	5
127.5	6	6
130.0	6	7
132.5	6	7
135.0	6	6
137.5	4	4
140.0	3	3
142.5	3	3
145.0	2	3
147.5	2	3
150.0	2	3
152.5	3	3
155.0	2	3
157.5	2	2
160.0	1	1
162.5	1	1
165.0	1	0

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CANDELA TABULATION - (Cont.)

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

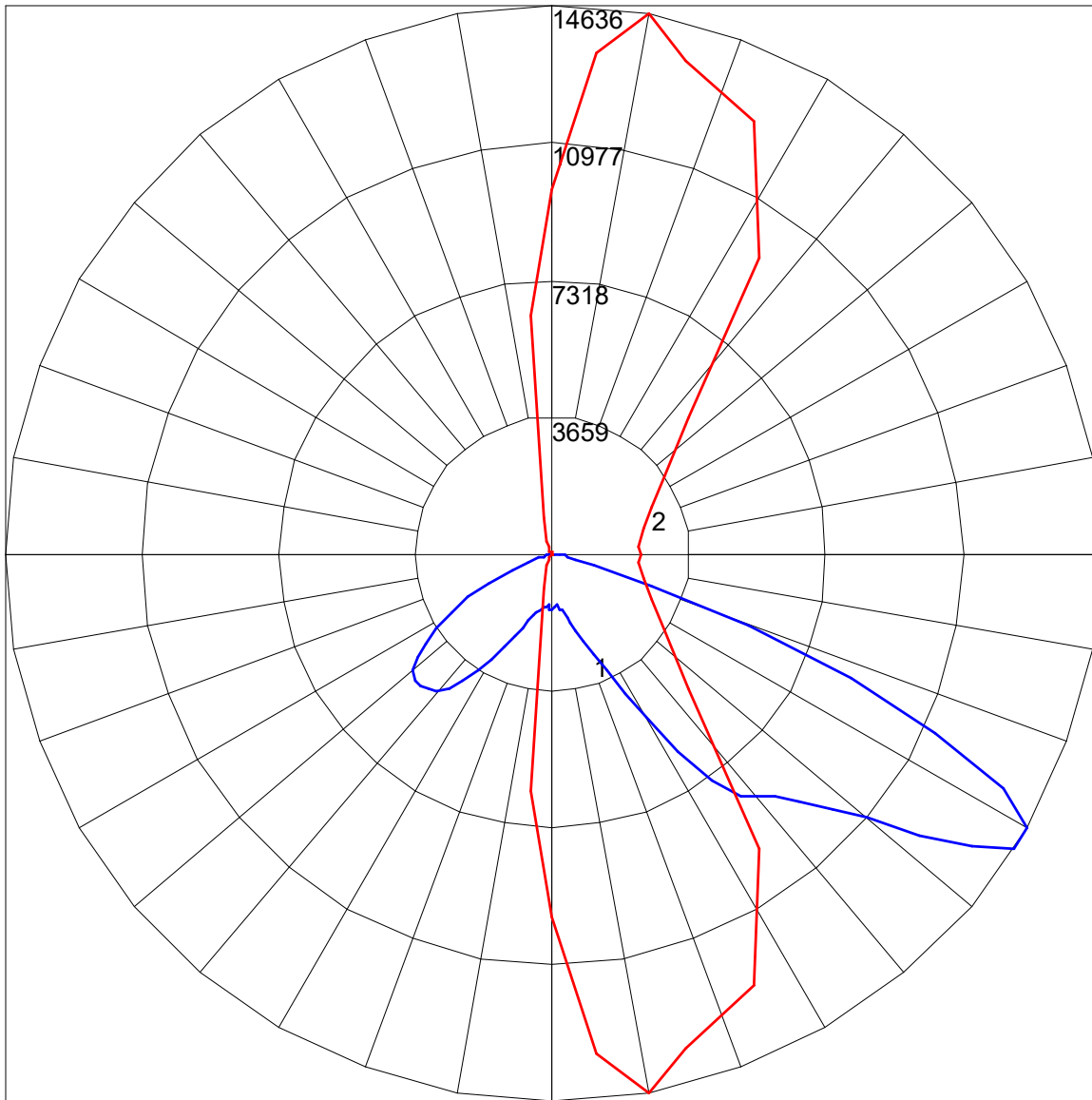
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

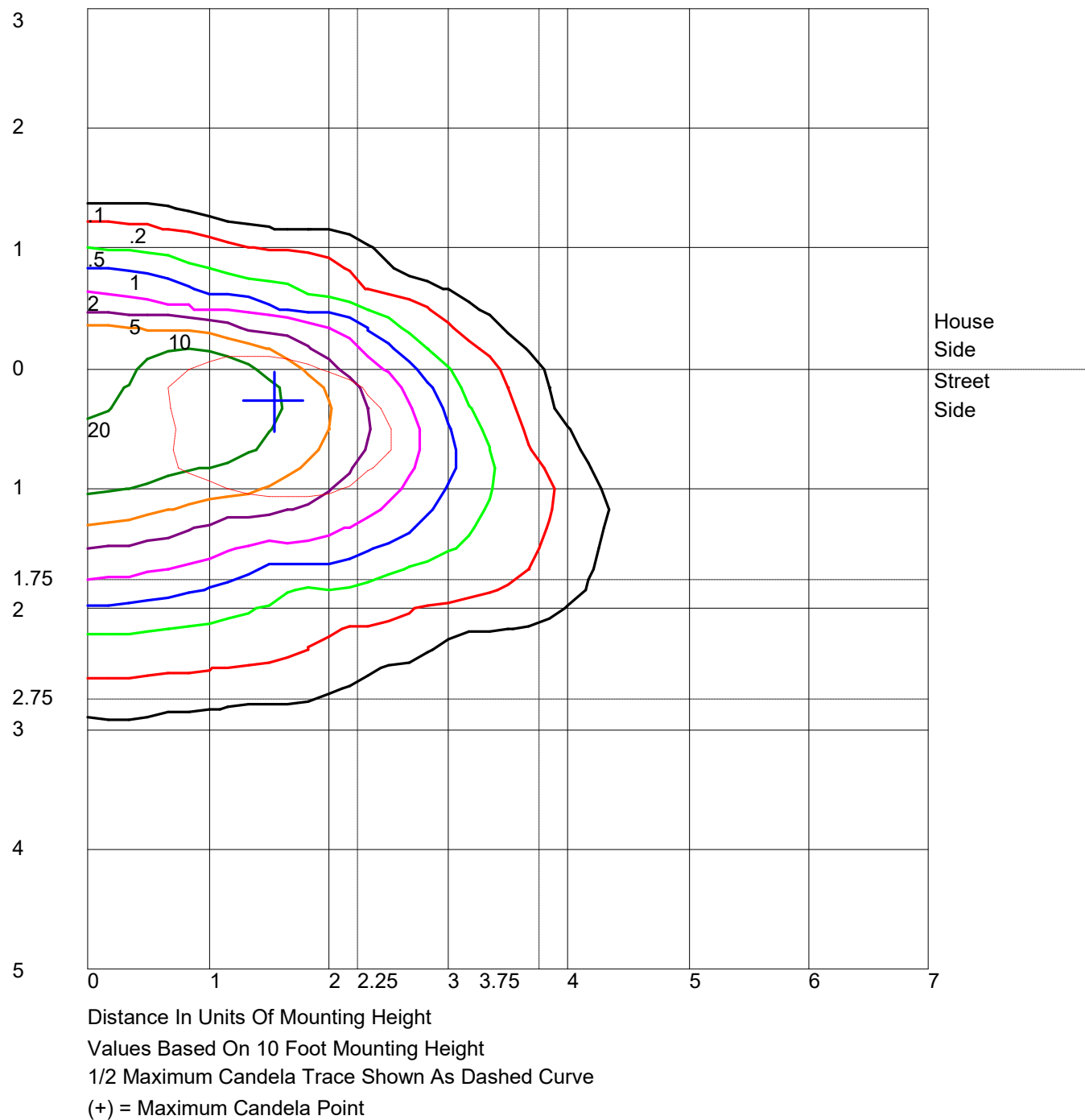
	Lumens	Percent Of Luminaire
Downward Street Side	11872.3	82.9
Downward House Side	2422.8	16.9
Downward Total	14295.1	99.9
Upward Street Side	5.8	0.0
Upward House Side	12.5	0.1
Upward Total	18.3	0.1
Total Flux	14313.4	100.0

POLAR GRAPH

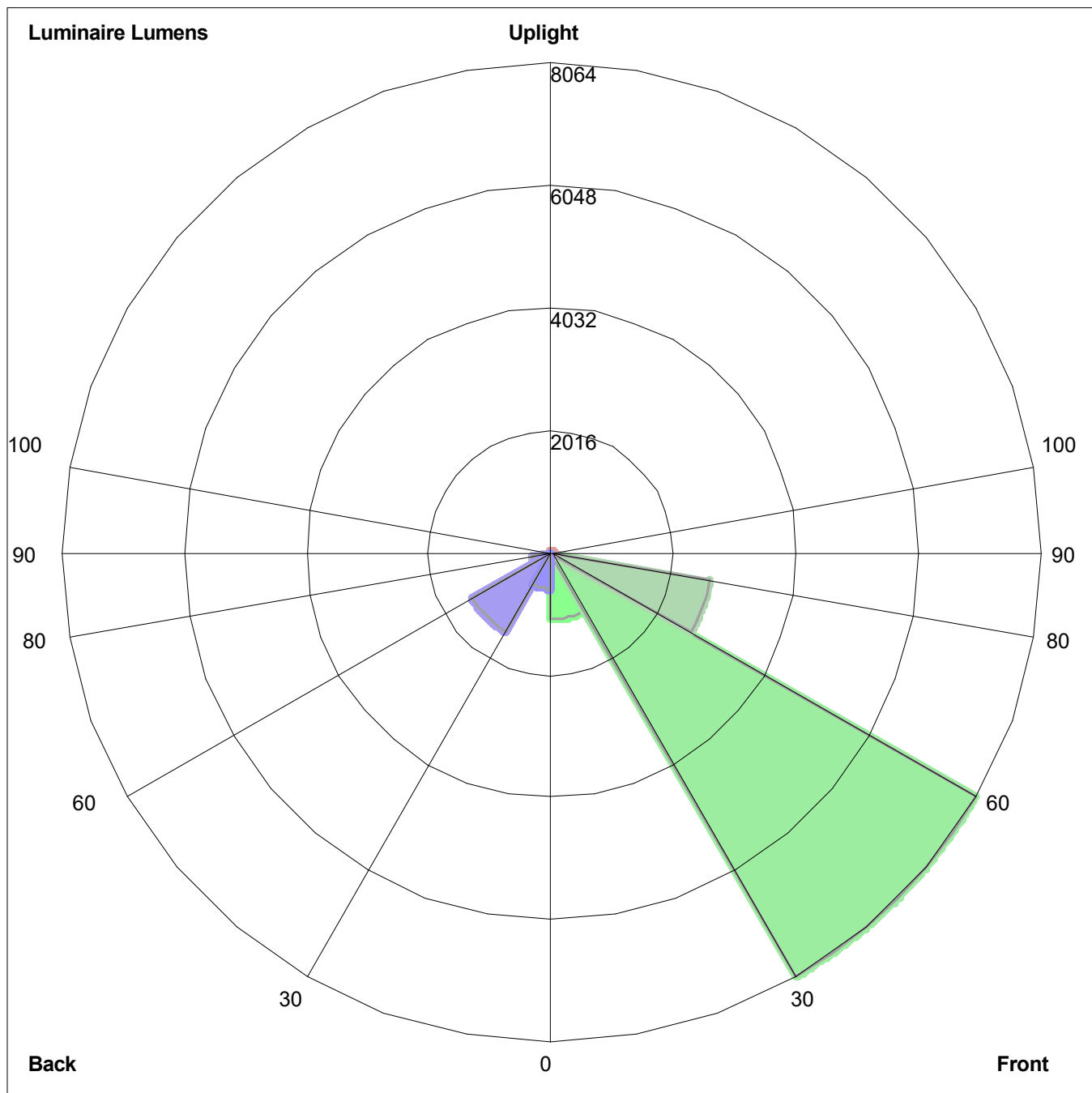


Maximum Candela = 14636 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1104.9, Medium=8063.6, High=2647.8, Very High=56.0
Back: Low=599.2, Medium=1502.1, High=311.2, Very High=10.2
Uplight: Low=4.2, High=14.1

BUG Rating : B2-U2-G2