



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-30-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
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-LED-18L-30-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	12537
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12817
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	12817
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	14 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	506 (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)	967.7	N.A.	7.7
FM - Front-Medium (30-60)	7061.8	N.A.	56.3
FH - Front-High (60-80)	2318.8	N.A.	18.5
FVH - Front-Very High (80-90)	49.1	N.A.	0.4
BL - Back-Low (0-30)	524.8	N.A.	4.2
BM - Back-Medium (30-60)	1315.4	N.A.	10.5
BH - Back-High (60-80)	272.6	N.A.	2.2
BVH - Back-Very High (80-90)	9.0	N.A.	0.1
UL - Uplight-Low (90-100)	3.9	N.A.	0.0
UH - Uplight-High (100-180)	14.0	N.A.	0.1
Total	12537.1	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	1289	1289	1289	1289	1289	1289	1289	1289	1289	1289
2.5	1312	1317	1314	1327	1325	1325	1332	1320	1302	1280
5.0	1313	1331	1360	1347	1387	1293	1300	1260	1228	1219
7.5	1338	1377	1397	1325	1356	1300	1318	1363	1332	1293
10.0	1423	1416	1475	1366	1404	1428	1442	1423	1384	1343
12.5	1539	1610	1555	1514	1550	1526	1546	1523	1514	1517
15.0	1658	1727	1698	1740	1778	1694	1717	1689	1715	1655
17.5	1772	1823	1805	1845	1894	1970	1883	1925	1959	1866
20.0	2012	2052	2042	2021	2080	2116	2170	2154	2193	2178
22.5	2169	2185	2234	2292	2320	2334	2517	2505	2584	2573
25.0	2478	2408	2476	2535	2603	2595	2846	3010	3029	3040
27.5	2831	2907	2936	2857	2882	2968	3213	3631	3781	3703
30.0	3298	3220	3200	3218	3260	3420	3692	4358	4517	4472
32.5	3896	3946	3699	3561	3696	3839	4320	5291	5537	5488
35.0	4511	4455	4251	4149	4106	4438	4958	6066	6592	6484
37.5	5155	5148	4860	4658	4762	4893	5567	6654	7075	7196
40.0	5444	5457	5366	5274	5300	5473	6048	6891	7419	7441
42.5	5560	5538	5504	5536	5792	5967	6617	7056	7536	7679
45.0	5428	5434	5436	5609	6014	6515	7242	7522	7922	8172
47.5	5026	5014	5116	5394	5924	6734	7874	8300	8511	8881
50.0	4446	4421	4551	4855	5523	6622	8519	9174	9204	9633
52.5	3699	3699	3841	4155	4879	6160	8886	10139	10078	10854
55.0	2876	2866	3013	3394	4080	5418	8924	10942	11132	11976
57.5	2057	2016	2186	2536	3172	4476	8456	11168	11966	12817
60.0	1403	1392	1528	1778	2274	3373	7431	10789	12232	12802
62.5	986	994	1072	1236	1538	2288	6082	9460	11582	11890
65.0	688	687	753	908	1107	1459	4603	7959	10009	9887
67.5	448	469	510	643	829	986	3125	5962	7934	7583
70.0	283	291	306	426	602	711	1899	4072	5557	4893
72.5	210	217	217	269	418	512	984	2545	3223	2451
75.0	145	151	150	175	281	370	548	1546	1578	978
77.5	96	97	100	108	173	261	330	881	825	527
80.0	63	67	70	68	95	169	208	472	506	357
82.5	62	61	58	54	59	85	122	236	320	275
85.0	46	45	43	43	47	61	72	114	165	165
87.5	27	27	26	25	28	35	43	56	62	60
90.0	9	9	7	6	6	6	4	6	8	6
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	6	6	5	4	3	1	0	1	1	1
122.5	6	6	6	5	4	2	0	1	2	2
125.0	7	6	6	5	4	2	1	1	3	3
127.5	8	7	6	6	4	3	1	2	3	4
130.0	8	8	7	6	4	3	1	2	4	4

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CANDELA TABULATION - (Cont.)

132.5	8	8	7	6	4	3	1	2	4	4
135.0	8	7	6	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	1289	1289	1289	1289	1289	1289	1289	1289	1289	1289
2.5	1285	1281	1288	1281	1265	1274	1280	1281	1270	1260
5.0	1234	1223	1200	1189	1198	1195	1173	1184	1164	1130
7.5	1273	1277	1250	1258	1196	1136	1045	1059	1044	1075
10.0	1323	1293	1253	1275	1129	1100	1052	1021	970	1008
12.5	1436	1415	1384	1315	1178	1102	1041	1069	1073	1129
15.0	1587	1545	1453	1339	1160	1128	1132	1190	1218	1200
17.5	1790	1685	1599	1421	1202	1202	1269	1301	1297	1289
20.0	2033	1949	1807	1502	1274	1325	1335	1354	1270	1157
22.5	2447	2218	2076	1697	1398	1425	1394	1229	1001	836
25.0	2884	2708	2431	1838	1616	1521	1265	902	647	500
27.5	3486	3168	2869	2074	1788	1491	985	594	399	337
30.0	4230	3815	3345	2322	1929	1325	700	399	327	298
32.5	5033	4511	3858	2564	2005	1091	473	340	292	275
35.0	5960	5288	4452	2834	1941	817	397	307	275	260
37.5	6672	6066	4947	3040	1755	555	358	287	251	233
40.0	6993	6411	5187	3210	1480	442	324	265	222	203
42.5	7348	6781	5376	3218	1037	392	295	236	190	165
45.0	7850	7199	5649	3131	655	349	264	203	156	132
47.5	8574	7768	5913	2859	478	311	224	166	124	103
50.0	9366	8306	6129	2384	409	276	187	130	99	80
52.5	10335	8779	6212	1772	371	239	149	99	76	61
55.0	11358	8891	6084	1195	342	200	117	75	59	42
57.5	11757	8536	5585	843	316	163	86	54	42	27
60.0	11374	7753	4806	687	304	132	63	37	25	13
62.5	10044	6549	3869	569	290	104	45	19	13	6
65.0	8147	5024	2811	435	253	81	30	9	9	5
67.5	5816	3502	1715	307	192	60	18	7	8	5
70.0	3343	2093	945	217	129	40	16	8	7	5
72.5	1507	1032	531	160	82	25	16	11	7	4
75.0	630	536	329	116	47	20	17	12	6	4
77.5	388	368	212	75	30	20	18	13	6	4

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CANDELA TABULATION - (Cont.)

80.0	308	258	137	41	23	20	18	14	6	4
82.5	220	157	81	20	18	18	18	14	6	5
85.0	127	80	39	10	13	17	17	13	6	5
87.5	44	20	6	6	10	16	15	11	6	4
90.0	2	2	3	5	9	14	14	9	6	4
92.5	0	1	3	5	8	13	12	8	5	4
95.0	0	1	2	4	6	10	8	6	4	4
97.5	0	1	2	4	6	6	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	1289	1289
2.5	1246	1224
5.0	1122	1109
7.5	1061	1036
10.0	1037	1006
12.5	1157	1121
15.0	1288	1263
17.5	1347	1305
20.0	1143	1086
22.5	763	751
25.0	439	428

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

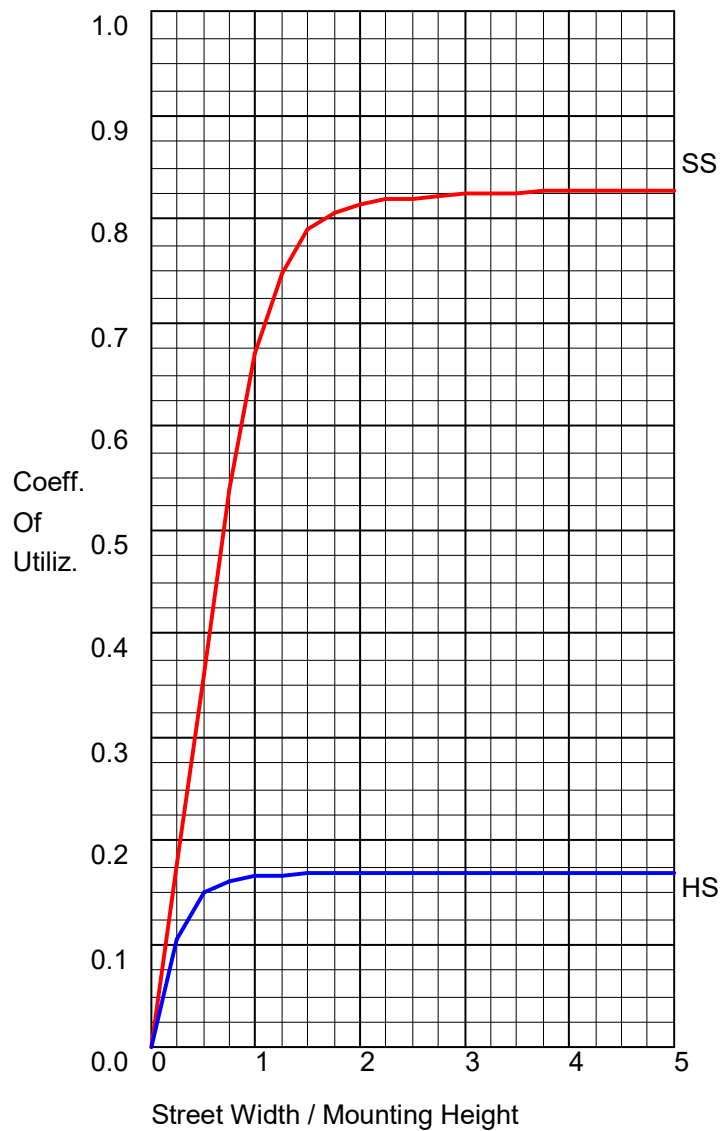
27.5	327	324
30.0	293	292
32.5	278	278
35.0	256	257
37.5	231	233
40.0	195	195
42.5	157	154
45.0	124	122
47.5	97	95
50.0	74	73
52.5	53	52
55.0	36	36
57.5	19	18
60.0	8	8
62.5	4	4
65.0	2	2
67.5	3	3
70.0	3	3
72.5	2	1
75.0	1	1
77.5	2	1
80.0	2	2
82.5	2	2
85.0	2	2
87.5	2	2
90.0	2	2
92.5	2	2
95.0	2	1
97.5	1	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	6
132.5	6	6
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

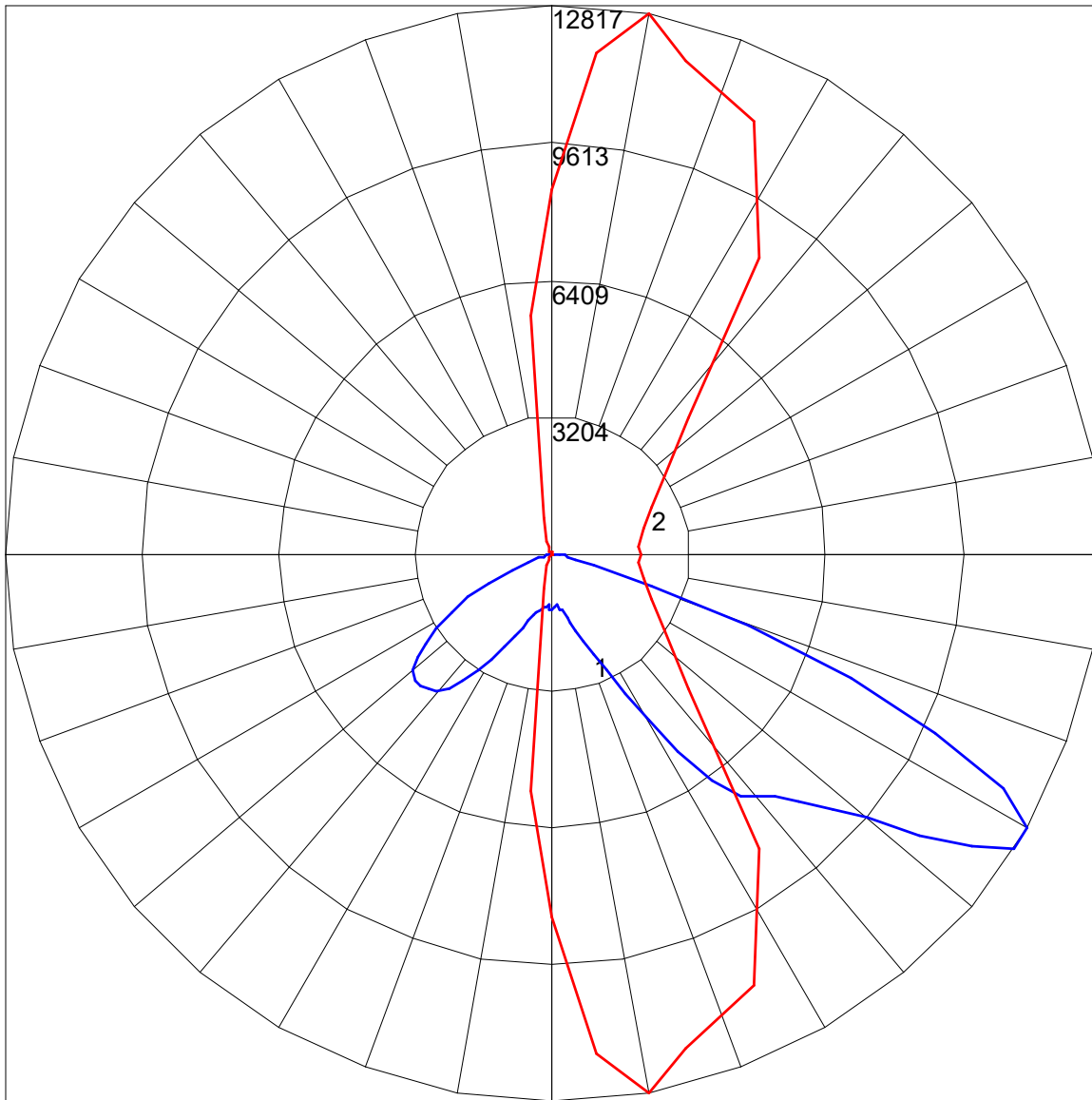
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

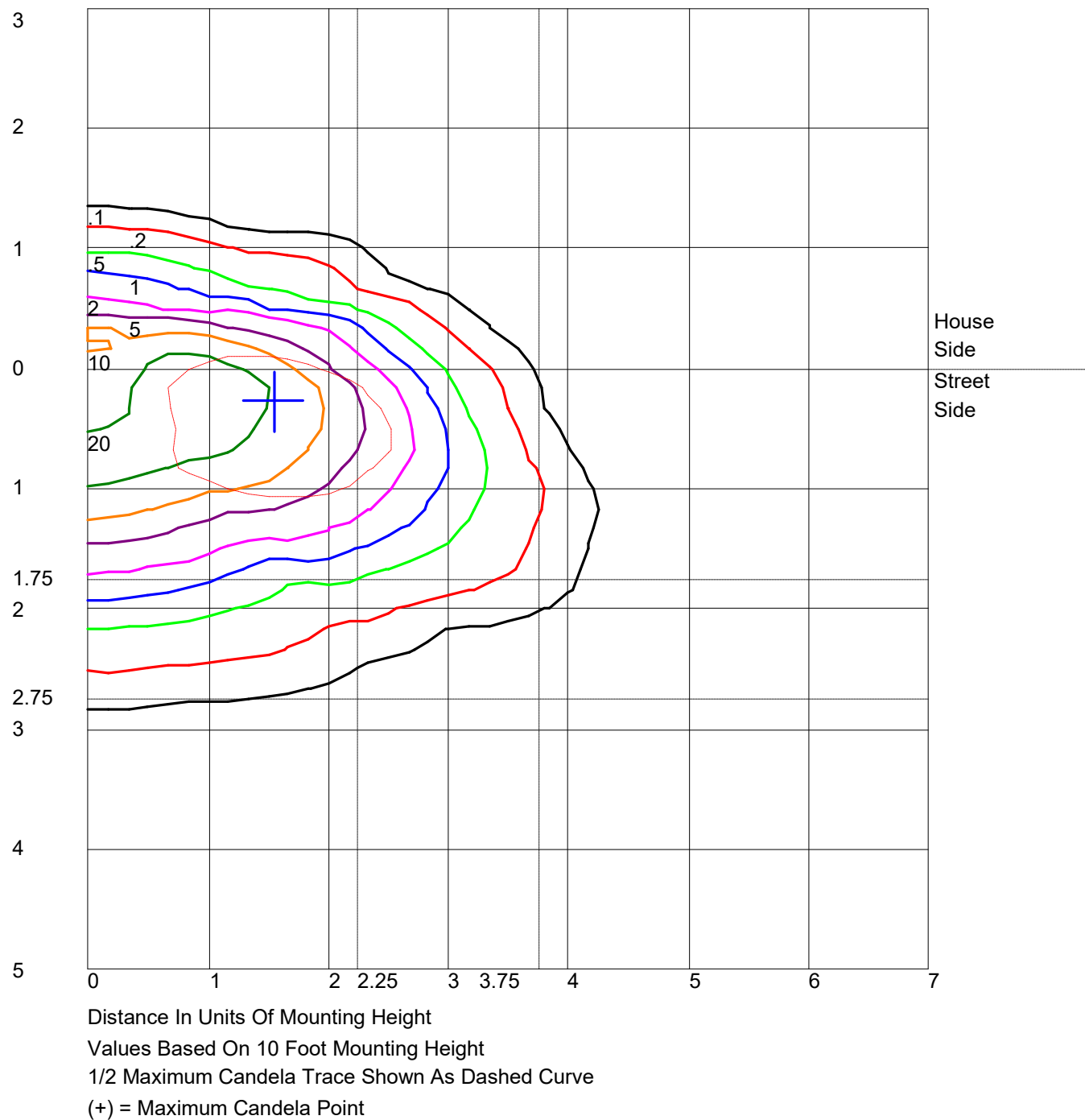
	Lumens	Percent Of Luminaire
Downward Street Side	10397.4	82.9
Downward House Side	2121.8	16.9
Downward Total	12519.2	99.9
Upward Street Side	5.6	0.0
Upward House Side	12.3	0.1
Upward Total	17.9	0.1
Total Flux	12537.1	100.0

POLAR GRAPH

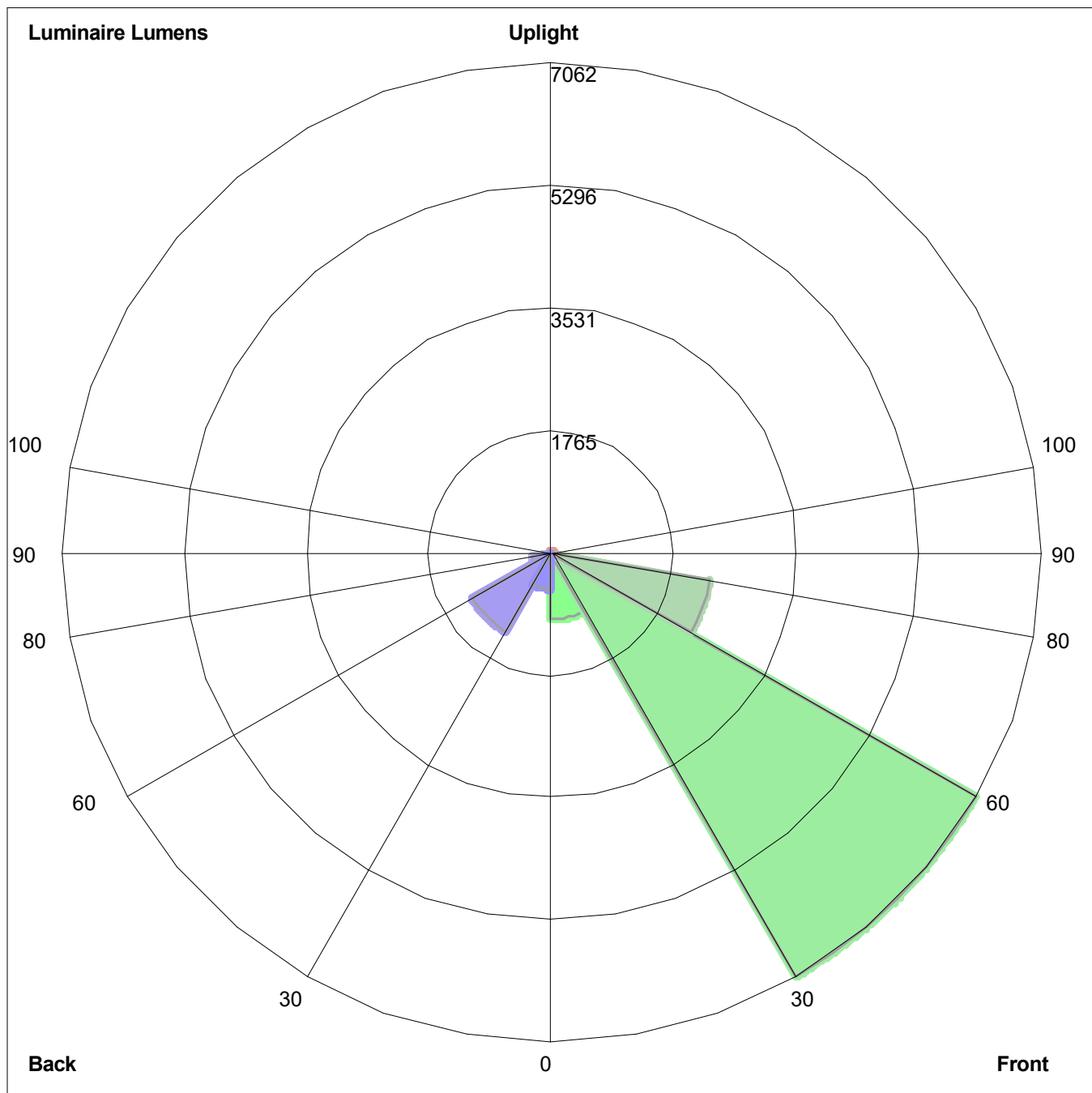


Maximum Candela = 12817 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=967.7, Medium=7061.8, High=2318.8, Very High=49.1
Back: Low=524.8, Medium=1315.4, High=272.6, Very High=9.0
Uplight: Low=3.9, High=14.0

BUG Rating : B2-U2-G2