



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-18L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11759
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/26/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-3-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	14089
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15389
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	15389
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	37 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	658 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	523.8	N.A.	3.7
FM - Front-Medium (30-60)	8350.6	N.A.	59.3
FH - Front-High (60-80)	3669.7	N.A.	26.0
FVH - Front-Very High (80-90)	87.5	N.A.	0.6
BL - Back-Low (0-30)	253.6	N.A.	1.8
BM - Back-Medium (30-60)	955.5	N.A.	6.8
BH - Back-High (60-80)	188.9	N.A.	1.3
BVH - Back-Very High (80-90)	20.7	N.A.	0.1
UL - Uplight-Low (90-100)	9.6	N.A.	0.1
UH - Uplight-High (100-180)	29.2	N.A.	0.2
Total	14089.1	N.A.	100.0
BUG Rating	B1-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>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	684	684	684	684	684	684	684	684	684	684
2.5	673	669	668	665	678	676	675	674	677	670
5.0	687	668	676	676	671	658	646	647	643	641
7.5	660	654	665	661	649	644	656	653	655	658
10.0	653	653	671	637	666	665	695	691	691	687
12.5	716	715	700	693	710	703	728	730	738	725
15.0	767	758	762	773	800	792	792	792	796	804
17.5	811	827	813	841	877	916	873	870	869	878
20.0	940	968	960	951	982	1025	1031	1035	991	986
22.5	1088	1084	1125	1136	1186	1224	1283	1282	1222	1178
25.0	1373	1351	1383	1436	1499	1543	1646	1649	1598	1458
27.5	1906	1913	1929	1880	1950	2053	2144	2133	2172	1922
30.0	2506	2484	2454	2511	2563	2725	2807	2828	2810	2501
32.5	3238	3242	3097	3055	3220	3391	3575	3584	3600	3089
35.0	3924	3896	3813	3897	3850	4205	4353	4395	4270	3690
37.5	4910	4891	4646	4603	4688	4850	5061	5048	4880	4067
40.0	5788	5794	5664	5488	5440	5587	5733	5653	5361	4498
42.5	6817	6908	6713	6417	6273	6320	6230	6221	5736	4874
45.0	7950	8062	7958	7549	7240	7122	6798	6749	6161	5328
47.5	9075	9165	9115	8788	8465	8063	7482	7430	6776	6044
50.0	9914	10012	10269	10102	9652	9172	8561	8441	7730	6957
52.5	9860	10059	10715	11182	11252	10622	10036	9926	9157	8006
55.0	9210	9311	10127	11287	12121	12219	12369	12314	11111	8845
57.5	7430	7617	8774	10434	12251	13399	14549	14575	12519	9105
60.0	4777	5013	6364	8587	11378	13637	15337	15389	12806	8697
62.5	2537	2623	3677	5935	9365	12557	14760	14797	12295	7815
65.0	1362	1406	1880	3397	6521	10325	13245	13340	10787	6165
67.5	790	802	1033	1809	3921	6991	10330	10572	8271	3971
70.0	522	553	698	1194	2179	3955	6961	7109	5447	2250
72.5	385	408	505	881	1446	1983	3710	4022	2952	982
75.0	264	280	365	690	1112	1136	1675	1856	1248	479
77.5	187	197	274	568	875	752	746	821	643	301
80.0	144	151	213	448	658	492	388	410	393	224
82.5	113	119	169	355	438	294	234	233	259	176
85.0	82	85	126	258	266	145	144	142	147	119
87.5	49	53	88	147	99	54	54	51	55	56
90.0	11	12	20	37	20	12	10	9	8	8
92.5	4	4	6	8	6	7	8	7	6	6
95.0	3	2	4	5	6	6	6	6	6	5
97.5	2	2	4	5	5	6	6	5	5	5
100.0	2	2	4	5	5	6	5	5	5	5
102.5	3	2	4	5	6	6	5	5	5	5
105.0	3	2	4	5	6	6	5	5	5	5
107.5	3	3	4	5	6	6	5	5	5	5
110.0	4	3	4	5	6	6	5	5	5	5
112.5	4	4	5	6	6	6	5	5	5	5
115.0	4	4	5	6	6	6	6	5	5	5
117.5	5	5	5	6	6	7	6	5	5	6
120.0	5	5	5	6	7	7	6	6	5	6
122.5	5	5	6	6	7	7	6	6	6	6
125.0	6	6	6	6	7	7	6	6	6	6
127.5	6	6	6	6	7	8	6	6	6	6
130.0	6	6	6	6	8	8	6	6	6	7

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PHOTOMETRIC FILENAME : LXM4-PT-3-LED-18L-30-IL.IES

CANDELA TABULATION - (Cont.)

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

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	684	684	684	684	684	684	684	684	684	684
2.5	676	680	678	678	685	693	686	686	684	687
5.0	649	649	650	638	665	672	677	674	670	659
7.5	647	649	652	662	657	647	632	618	606	615
10.0	674	665	662	700	666	646	590	571	526	520
12.5	706	700	701	701	664	623	554	489	457	438
15.0	742	724	724	731	674	581	499	448	418	399
17.5	809	783	792	737	650	527	472	438	413	389
20.0	887	852	823	765	613	502	452	438	420	387
22.5	1064	993	954	820	600	502	457	444	431	399
25.0	1307	1198	1113	870	617	534	459	450	477	460
27.5	1669	1475	1335	926	684	576	465	472	573	589
30.0	2089	1815	1561	970	719	602	493	512	703	743
32.5	2443	2098	1747	1003	726	619	511	566	830	944
35.0	2801	2329	1893	1015	709	623	526	578	973	1178
37.5	3110	2565	2015	1032	679	615	522	586	1171	1476
40.0	3422	2775	2148	1044	649	588	512	570	1369	1484
42.5	3772	3010	2279	1063	619	557	483	529	1479	1175
45.0	4292	3411	2481	1092	586	517	442	484	1199	874
47.5	5017	3895	2729	1129	549	457	388	438	784	649
50.0	5765	4413	3043	1152	499	374	314	374	444	498
52.5	6424	4845	3205	1130	407	271	229	283	291	399
55.0	6724	4948	3142	1031	318	203	172	193	204	323
57.5	6629	4672	2793	875	259	171	141	137	142	260
60.0	6152	4112	2195	679	221	151	120	105	105	210
62.5	5146	3202	1503	491	190	132	100	81	80	173
65.0	3416	2104	928	337	158	110	82	64	59	142
67.5	1956	1230	548	232	130	88	63	50	45	116
70.0	887	622	313	166	105	70	47	38	32	88
72.5	381	322	219	137	83	57	38	32	22	66
75.0	237	222	183	123	68	48	34	23	15	49
77.5	180	173	154	112	61	43	30	19	10	36

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CANDELA TABULATION - (Cont.)

80.0	161	146	128	99	54	39	27	16	8	28
82.5	119	109	106	83	47	37	26	16	7	24
85.0	72	68	78	59	41	35	25	15	6	20
87.5	36	32	40	37	34	30	23	13	6	16
90.0	8	6	13	22	27	26	19	12	5	9
92.5	6	5	10	18	23	22	16	11	4	4
95.0	6	4	9	16	20	20	16	10	4	4
97.5	5	5	7	13	16	16	13	8	4	3
100.0	5	5	7	10	13	13	11	8	5	4
102.5	5	5	6	8	11	11	10	8	5	4
105.0	5	5	6	8	10	10	9	8	5	4
107.5	5	5	6	8	9	9	9	8	5	4
110.0	5	6	7	8	9	9	9	8	6	4
112.5	5	6	7	8	9	9	9	8	6	4
115.0	6	6	7	8	9	9	9	8	6	5
117.5	6	6	7	8	9	9	9	8	6	5
120.0	6	7	8	8	9	9	9	8	7	5
122.5	6	7	8	8	9	9	10	8	7	5
125.0	7	8	8	9	9	9	10	9	7	6
127.5	7	8	8	8	9	9	10	9	8	6
130.0	7	8	8	9	9	10	10	9	8	6
132.5	7	8	8	8	9	10	10	9	7	6
135.0	7	7	8	8	9	9	9	8	7	5
137.5	6	6	6	7	8	8	8	8	6	5
140.0	5	5	6	6	7	7	7	6	5	4
142.5	5	5	5	6	6	7	6	6	5	4
145.0	5	5	5	6	6	6	6	6	4	3
147.5	5	5	5	6	6	6	6	5	4	3
150.0	5	5	5	5	6	6	6	5	4	2
152.5	5	5	5	5	6	6	6	5	4	2
155.0	4	5	5	5	5	6	5	5	4	1
157.5	4	5	5	5	5	5	5	4	3	1
160.0	4	4	4	5	5	5	5	4	2	1
162.5	4	4	4	4	5	4	4	4	1	1
165.0	4	4	4	4	4	4	4	3	1	0
167.5	4	4	4	4	4	4	4	3	1	0
170.0	3	4	4	4	4	4	4	3	1	0
172.5	3	4	4	4	4	4	4	3	1	0
175.0	3	4	4	4	4	4	4	3	1	0
177.5	3	3	3	3	4	3	3	2	1	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	684	684
2.5	688	689
5.0	654	656
7.5	599	594
10.0	501	500
12.5	434	431
15.0	401	395
17.5	383	383
20.0	378	372
22.5	370	361
25.0	399	383

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CANDELA TABULATION - (Cont.)

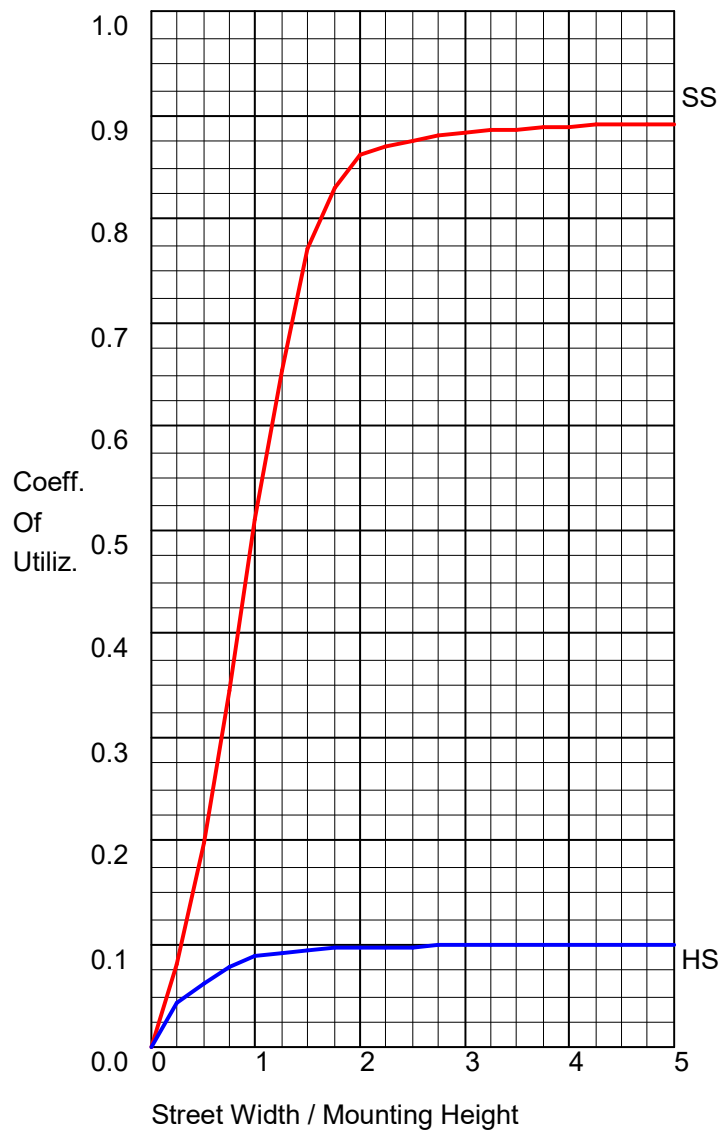
27.5	472	455
30.0	579	566
32.5	742	708
35.0	918	876
37.5	938	863
40.0	749	665
42.5	557	478
45.0	415	370
47.5	337	295
50.0	288	240
52.5	266	207
55.0	262	192
57.5	268	199
60.0	281	220
62.5	293	247
65.0	297	268
67.5	283	270
70.0	254	258
72.5	223	227
75.0	173	181
77.5	135	147
80.0	109	122
82.5	88	98
85.0	68	75
87.5	52	57
90.0	24	28
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	1	0
105.0	1	0
107.5	1	0
110.0	1	1
112.5	2	1
115.0	2	2
117.5	3	3
120.0	4	4
122.5	4	4
125.0	5	4
127.5	5	5
130.0	5	5
132.5	5	5
135.0	4	4
137.5	3	3
140.0	1	1
142.5	1	1
145.0	1	0
147.5	1	0
150.0	1	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	2	2

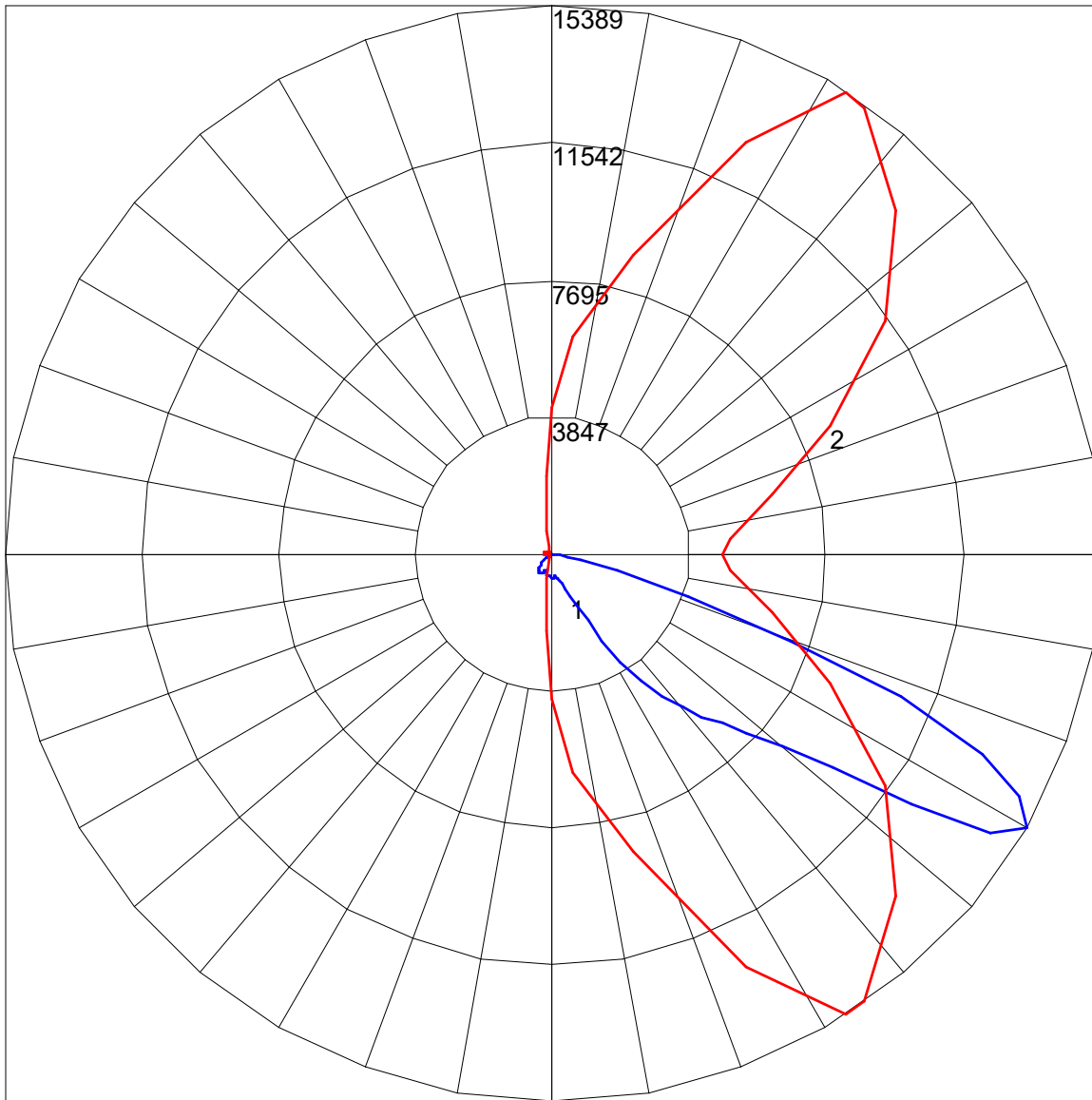
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

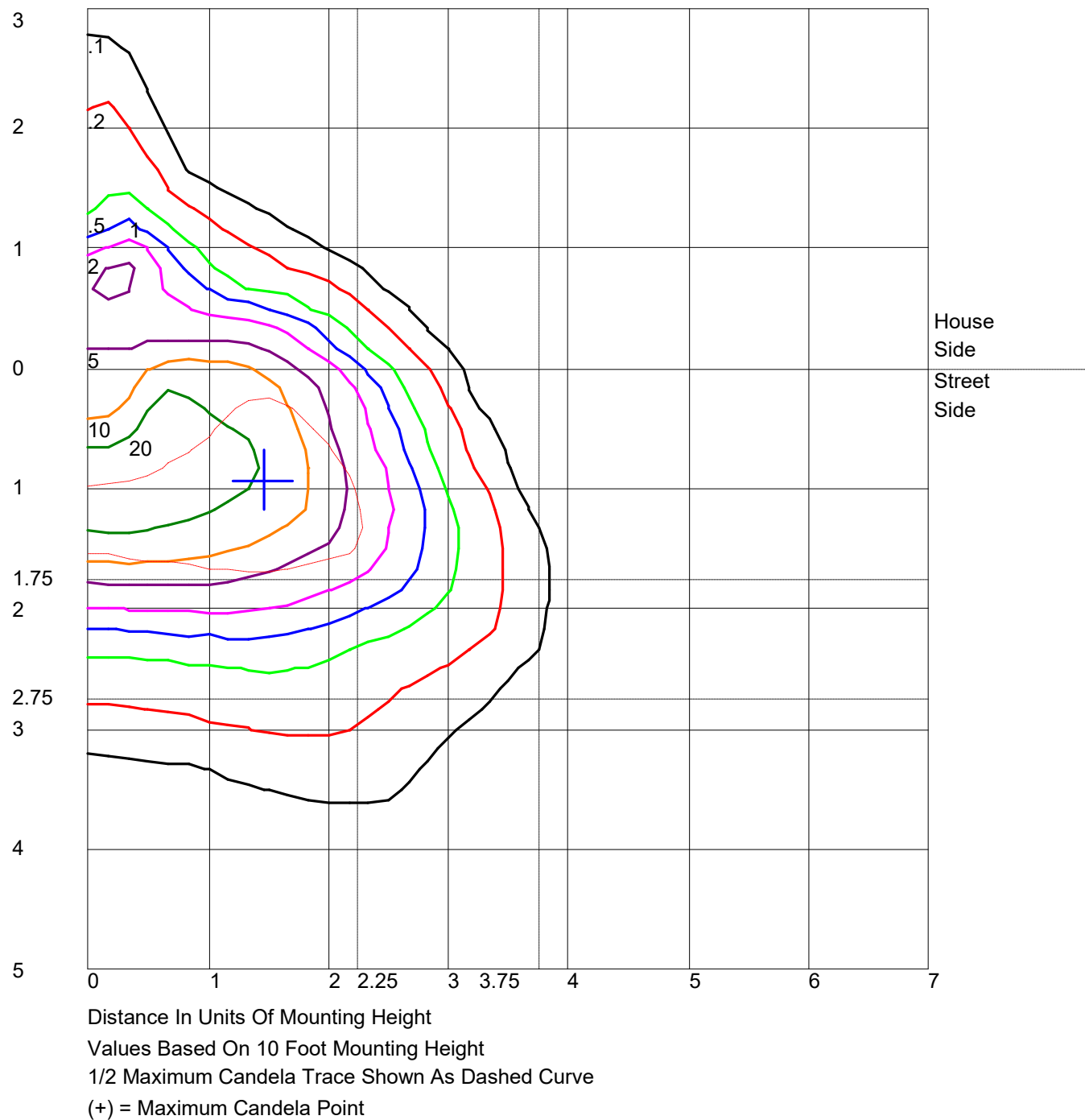
	Lumens	Percent Of Luminaire
Downward Street Side	12631.5	89.7
Downward House Side	1418.7	10.1
Downward Total	14050.2	99.7
Upward Street Side	16.3	0.1
Upward House Side	22.4	0.2
Upward Total	38.7	0.3
Total Flux	14088.9	100.0

POLAR GRAPH

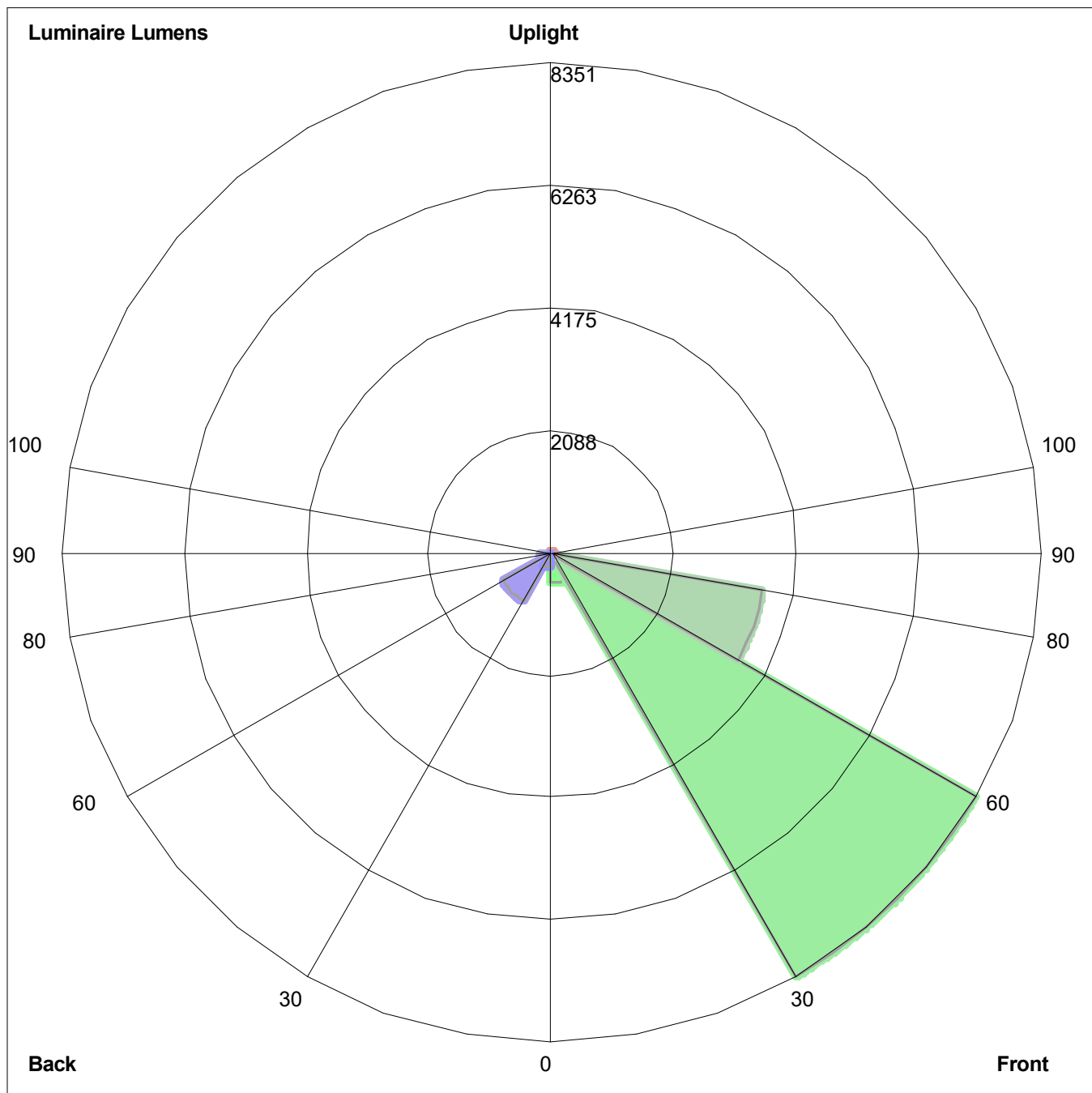


Maximum Candela = 15389 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=523.8, Medium=8350.6, High=3669.7, Very High=87.5
Back: Low=253.6, Medium=955.5, High=188.9, Very High=20.7
Uplight: Low=9.6, High=29.2

BUG Rating : B1-U2-G2