



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-10L-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-10L-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	6853
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7006
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	7006
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	7 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	277 (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)	528.9	N.A.	7.7
FM - Front-Medium (30-60)	3860.0	N.A.	56.3
FH - Front-High (60-80)	1267.5	N.A.	18.5
FVH - Front-Very High (80-90)	26.8	N.A.	0.4
BL - Back-Low (0-30)	286.9	N.A.	4.2
BM - Back-Medium (30-60)	719.1	N.A.	10.5
BH - Back-High (60-80)	149.0	N.A.	2.2
BVH - Back-Very High (80-90)	4.9	N.A.	0.1
UL - Uplight-Low (90-100)	2.2	N.A.	0.0
UH - Uplight-High (100-180)	7.6	N.A.	0.1
Total	6852.9	N.A.	100.0
BUG Rating	B1-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	704	704	704	704	704	704	704	704	704	704
2.5	717	721	719	725	724	724	728	721	711	700
5.0	717	728	743	736	759	707	711	689	672	666
7.5	731	752	763	724	741	711	721	745	728	707
10.0	778	774	807	747	768	780	788	778	757	734
12.5	841	881	850	827	847	835	845	833	827	829
15.0	906	944	928	950	972	926	939	923	938	905
17.5	969	997	987	1008	1036	1077	1029	1052	1071	1020
20.0	1100	1122	1116	1105	1137	1157	1186	1177	1199	1190
22.5	1186	1194	1221	1253	1268	1275	1376	1370	1412	1407
25.0	1354	1316	1353	1386	1423	1418	1556	1646	1656	1662
27.5	1547	1589	1605	1561	1575	1622	1756	1984	2067	2025
30.0	1803	1760	1749	1759	1782	1870	2018	2382	2469	2444
32.5	2129	2157	2021	1946	2020	2098	2362	2892	3027	3000
35.0	2466	2435	2324	2268	2244	2426	2710	3316	3603	3544
37.5	2818	2813	2657	2546	2603	2675	3042	3637	3867	3934
40.0	2976	2983	2934	2883	2898	2992	3306	3767	4055	4067
42.5	3040	3027	3009	3026	3165	3262	3617	3857	4119	4197
45.0	2967	2971	2972	3066	3288	3561	3958	4111	4330	4467
47.5	2747	2741	2797	2948	3239	3681	4304	4537	4652	4855
50.0	2430	2417	2487	2654	3019	3619	4656	5015	5031	5266
52.5	2022	2022	2100	2271	2667	3367	4857	5542	5509	5933
55.0	1572	1567	1647	1855	2230	2961	4877	5981	6085	6546
57.5	1124	1102	1195	1386	1734	2446	4622	6105	6541	7006
60.0	767	760	835	971	1243	1843	4062	5897	6686	6998
62.5	539	543	586	675	840	1251	3325	5171	6331	6499
65.0	377	376	412	497	605	797	2516	4351	5471	5404
67.5	244	256	279	351	454	539	1708	3259	4337	4145
70.0	155	159	167	233	329	388	1038	2226	3038	2674
72.5	114	119	119	148	228	280	538	1391	1762	1340
75.0	79	82	81	96	154	202	300	845	863	535
77.5	53	53	55	59	94	143	180	482	451	288
80.0	35	37	38	37	52	92	113	257	277	195
82.5	33	33	32	30	33	46	67	129	175	150
85.0	25	24	24	24	25	33	39	62	91	91
87.5	14	14	14	14	14	19	24	31	33	33
90.0	5	5	4	4	4	4	2	4	5	4
92.5	2	2	2	2	1	0	0	0	0	0
95.0	2	1	2	2	1	0	0	0	0	0
97.5	2	1	2	2	1	0	0	0	0	0
100.0	1	1	2	2	1	0	0	0	0	0
102.5	2	1	2	2	1	0	0	0	0	0
105.0	2	1	2	2	1	0	0	0	0	0
107.5	2	2	2	2	1	0	0	0	0	0
110.0	2	2	2	2	1	0	0	0	0	0
112.5	2	2	2	2	1	0	0	0	0	0
115.0	2	2	2	2	1	0	0	0	0	0
117.5	3	3	2	2	2	0	0	0	0	1
120.0	4	3	3	2	2	1	0	0	1	1
122.5	4	4	3	3	2	1	0	0	1	1
125.0	4	4	4	3	2	1	0	1	2	2
127.5	5	4	4	3	2	2	1	1	2	2
130.0	5	5	4	3	2	2	1	1	2	2

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CANDELA TABULATION - (Cont.)

132.5	5	5	4	4	2	2	1	1	2	2
135.0	5	4	4	3	2	2	1	1	2	2
137.5	2	2	2	2	1	0	0	0	0	1
140.0	0	0	1	1	0	0	0	0	0	0
142.5	0	0	1	0	0	0	0	0	0	0
145.0	0	0	1	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	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	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	1	1	0	0	0	0	0	0
177.5	0	0	1	1	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	704	704	704	704	704	704	704	704	704	704
2.5	702	701	704	701	692	696	700	701	694	689
5.0	674	669	656	649	654	653	641	647	636	617
7.5	696	698	683	688	654	621	571	579	570	587
10.0	723	707	685	697	617	601	576	559	530	551
12.5	785	773	757	719	645	602	569	585	587	617
15.0	868	845	795	732	635	616	619	651	665	656
17.5	979	921	874	777	657	657	694	711	709	704
20.0	1112	1065	988	821	697	724	730	740	694	633
22.5	1337	1212	1135	928	764	778	761	672	547	457
25.0	1576	1480	1329	1005	883	831	692	492	354	273
27.5	1905	1732	1569	1133	978	815	539	324	218	184
30.0	2312	2086	1829	1269	1055	724	383	218	179	163
32.5	2751	2466	2109	1401	1096	597	259	186	160	150
35.0	3258	2890	2433	1549	1061	447	217	167	150	142
37.5	3647	3316	2704	1662	960	303	196	157	138	128
40.0	3823	3504	2835	1754	809	242	177	145	121	111
42.5	4016	3707	2939	1759	567	215	161	129	104	91
45.0	4291	3935	3088	1712	358	191	144	111	85	72
47.5	4687	4246	3232	1562	261	170	123	91	68	56
50.0	5120	4540	3350	1303	224	151	102	71	54	43
52.5	5649	4798	3395	969	203	130	81	54	42	33
55.0	6208	4860	3326	653	187	110	63	41	32	24
57.5	6426	4665	3053	461	173	89	47	30	23	14
60.0	6218	4238	2628	376	167	72	35	20	14	7
62.5	5490	3580	2115	310	158	57	24	11	7	4
65.0	4454	2746	1536	238	138	44	16	5	5	3
67.5	3179	1914	938	167	105	33	10	4	5	3
70.0	1828	1144	517	119	71	22	8	5	4	3
72.5	824	564	291	88	44	14	8	5	4	2
75.0	344	293	180	63	25	11	9	6	4	2
77.5	212	201	116	41	16	11	10	7	4	2

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CANDELA TABULATION - (Cont.)

80.0	168	141	75	23	13	11	10	7	4	2
82.5	120	86	44	11	10	10	10	7	4	3
85.0	70	44	21	5	7	9	9	7	4	3
87.5	24	11	4	3	5	8	8	6	4	2
90.0	1	1	2	3	5	7	7	5	3	2
92.5	0	1	2	3	5	7	6	5	3	2
95.0	0	1	1	2	4	5	5	4	2	2
97.5	0	1	1	2	3	4	3	3	2	2
100.0	0	1	1	2	3	3	3	2	2	2
102.5	0	1	1	2	2	2	2	2	2	2
105.0	0	1	1	2	2	2	2	2	2	2
107.5	0	1	1	2	2	2	2	2	2	2
110.0	0	1	1	2	2	2	2	2	2	2
112.5	0	1	1	2	2	2	2	2	2	2
115.0	1	1	2	2	2	2	2	2	2	2
117.5	1	1	2	2	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	3	3	3	3	3	3
125.0	2	2	2	2	3	3	3	3	3	3
127.5	2	2	2	3	3	3	3	3	3	3
130.0	2	2	3	3	3	3	3	3	3	3
132.5	2	2	3	3	3	3	3	3	3	3
135.0	2	2	2	3	3	3	3	3	3	3
137.5	1	1	2	2	2	2	2	3	3	3
140.0	0	0	0	1	1	2	2	2	2	2
142.5	0	0	0	0	1	2	2	2	2	2
145.0	0	0	0	0	1	2	2	2	2	2
147.5	0	0	0	0	1	2	2	2	2	2
150.0	0	0	0	0	1	2	2	2	2	2
152.5	0	0	0	1	1	2	2	2	2	2
155.0	0	0	0	1	1	2	2	2	2	2
157.5	0	0	0	1	1	2	2	2	2	2
160.0	0	0	0	0	1	1	2	2	2	2
162.5	0	0	0	0	1	1	2	2	2	2
165.0	0	0	0	0	0	1	1	2	2	2
167.5	0	0	0	0	0	1	1	2	2	1
170.0	0	0	0	0	0	1	1	2	2	1
172.5	0	0	0	0	0	0	1	1	1	1
175.0	0	0	0	0	0	0	1	1	1	1
177.5	0	0	0	0	0	0	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	175	180
0.0	704	704
2.5	681	669
5.0	614	606
7.5	579	567
10.0	567	549
12.5	633	613
15.0	704	691
17.5	736	713
20.0	625	594
22.5	417	410
25.0	240	234

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CANDELA TABULATION - (Cont.)

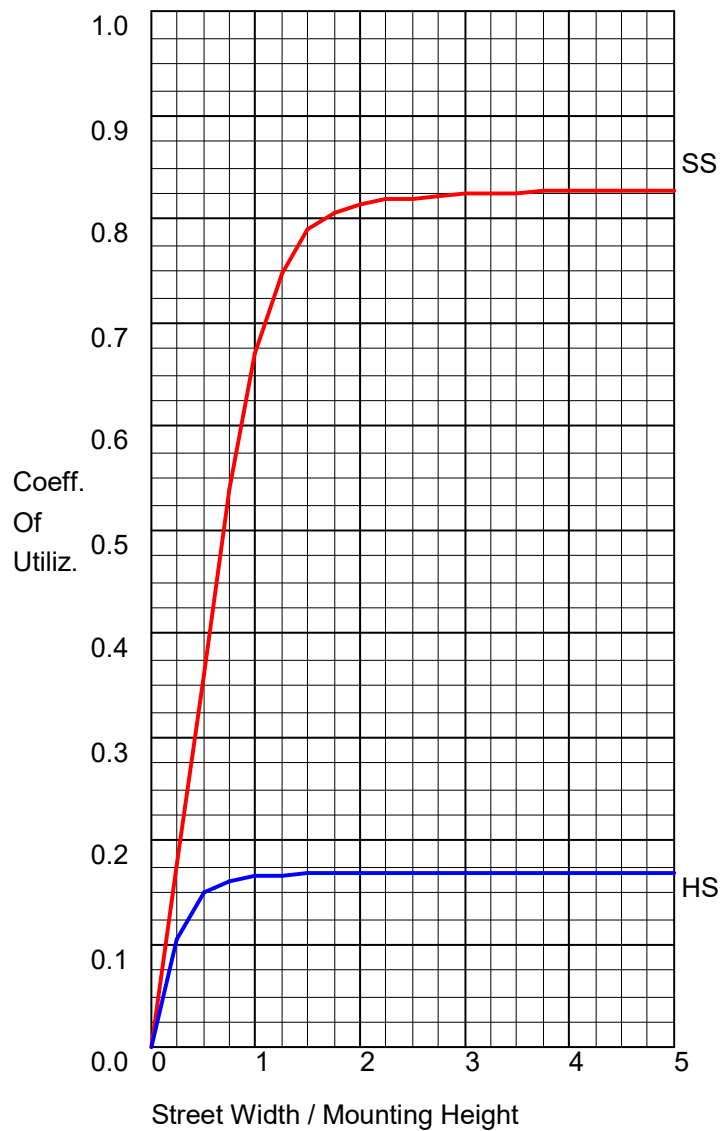
27.5	179	177
30.0	160	160
32.5	152	152
35.0	140	140
37.5	126	127
40.0	107	107
42.5	86	84
45.0	68	67
47.5	53	52
50.0	40	40
52.5	29	29
55.0	20	20
57.5	11	10
60.0	5	5
62.5	2	2
65.0	1	1
67.5	2	2
70.0	2	2
72.5	1	1
75.0	1	1
77.5	1	1
80.0	1	1
82.5	1	1
85.0	1	1
87.5	1	1
90.0	1	1
92.5	1	1
95.0	1	1
97.5	1	1
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	1	1
117.5	2	2
120.0	2	2
122.5	2	2
125.0	3	3
127.5	3	3
130.0	3	4
132.5	3	4
135.0	3	3
137.5	2	2
140.0	2	2
142.5	2	2
145.0	1	2
147.5	1	2
150.0	1	2
152.5	2	2
155.0	1	2
157.5	1	1
160.0	1	1
162.5	1	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	0	0

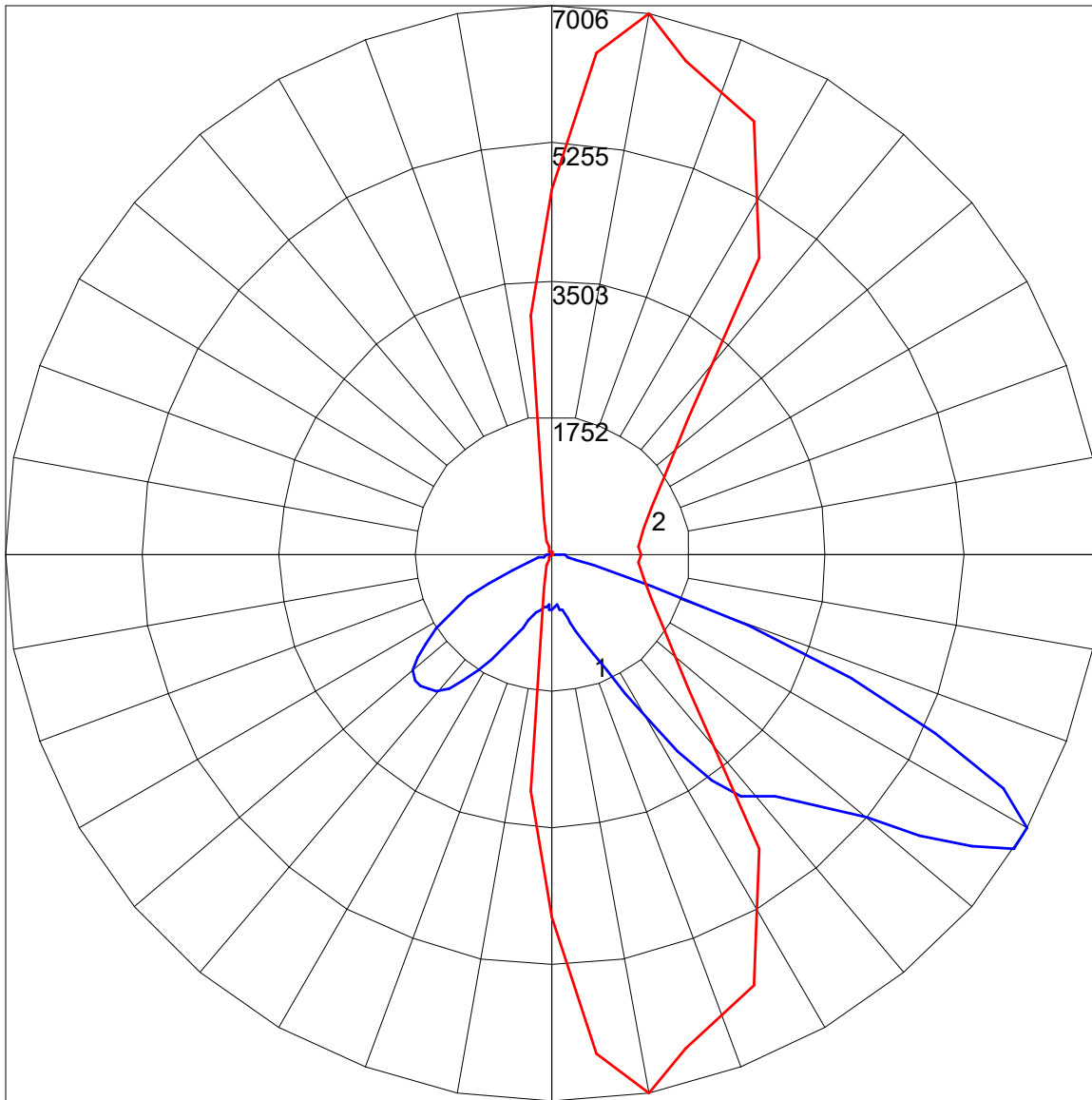
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

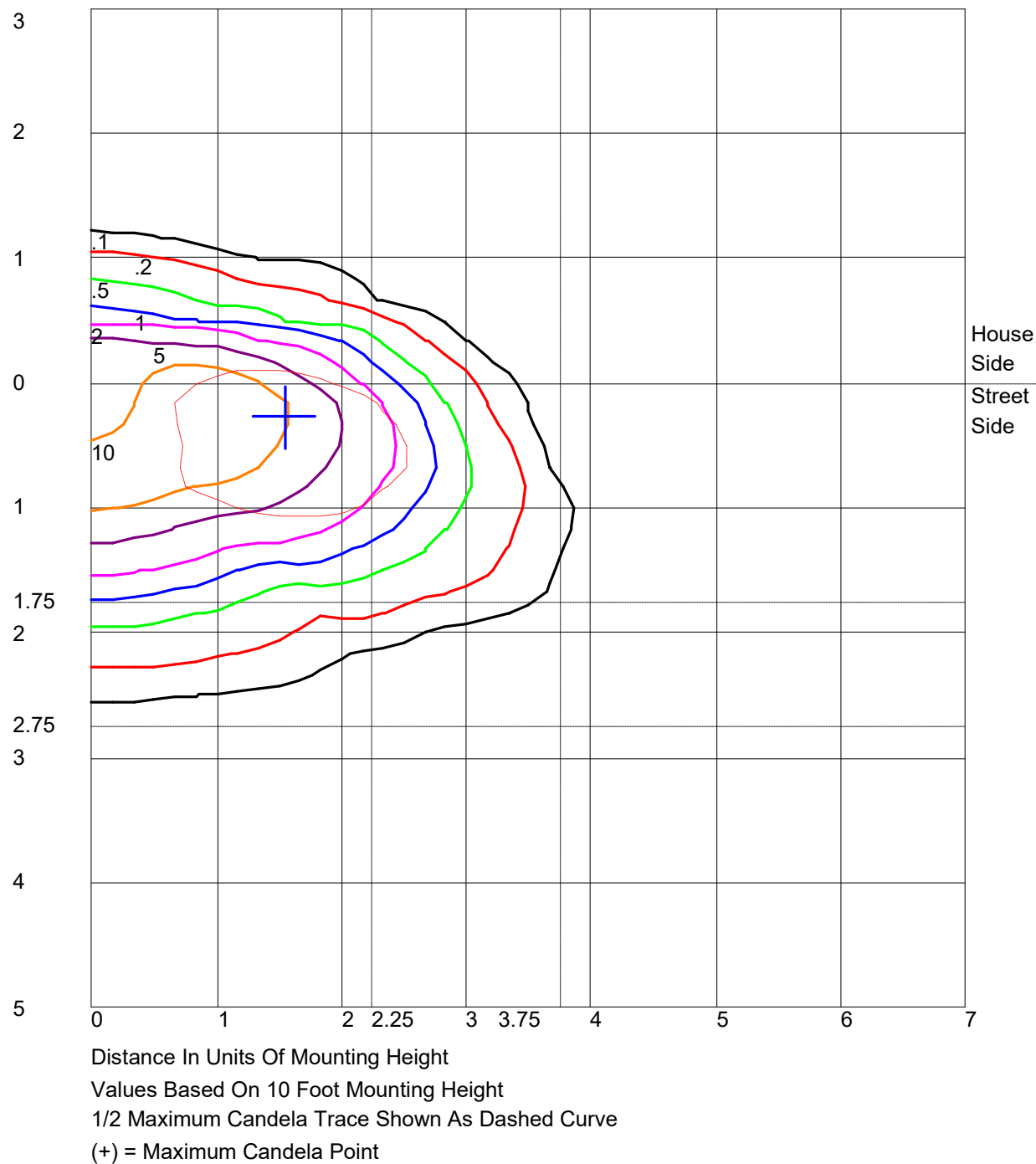
	Lumens	Percent Of Luminaire
Downward Street Side	5683.3	82.9
Downward House Side	1159.9	16.9
Downward Total	6843.2	99.9
Upward Street Side	3.2	0.0
Upward House Side	6.7	0.1
Upward Total	9.9	0.1
Total Flux	6853.1	100.0

POLAR GRAPH

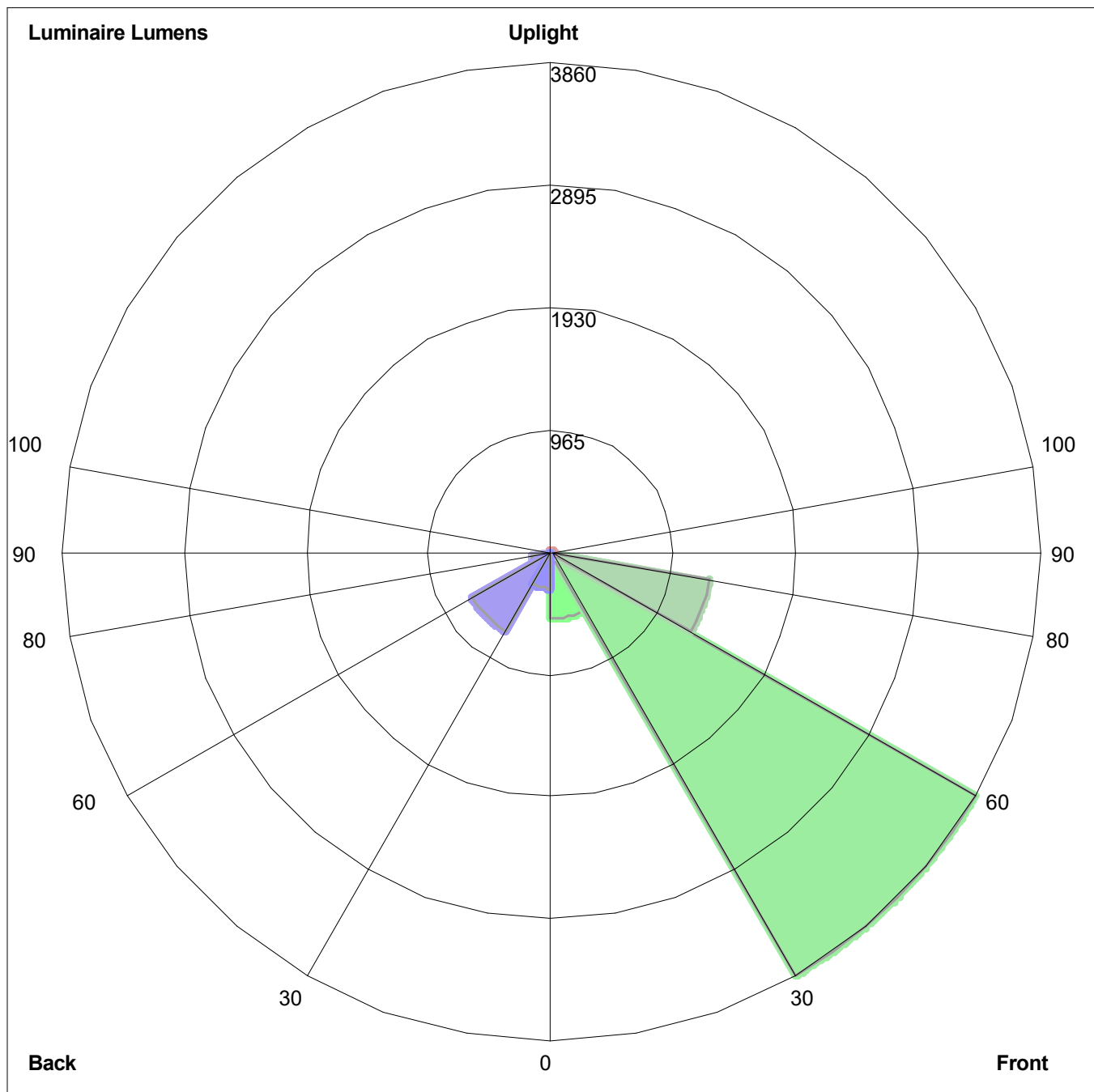


Maximum Candela = 7006 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=528.9, Medium= 3860.0, High=1267.5, Very High=26.8
Back: Low=286.9, Medium=719.1, High=149.0, Very High=4.9
Uplight: Low=2.2, High=7.6

BUG Rating : B1-U1-G1