



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-25L-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-25L-30-IL
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[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	19390
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	227.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21179
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	21179
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	51 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	905 (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)	720.9	N.A.	3.7
FM - Front-Medium (30-60)	11492.6	N.A.	59.3
FH - Front-High (60-80)	5050.4	N.A.	26.0
FVH - Front-Very High (80-90)	120.3	N.A.	0.6
BL - Back-Low (0-30)	349.0	N.A.	1.8
BM - Back-Medium (30-60)	1314.9	N.A.	6.8
BH - Back-High (60-80)	260.1	N.A.	1.3
BVH - Back-Very High (80-90)	28.5	N.A.	0.1
UL - Uplight-Low (90-100)	13.1	N.A.	0.1
UH - Uplight-High (100-180)	40.4	N.A.	0.2
Total	19390.2	N.A.	100.0
BUG Rating	B2-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	57.5	65.0	75.0
0.0	941	941	941	941	941	941	941	941	941	941
2.5	926	922	919	915	933	930	929	927	932	923
5.0	945	919	930	930	924	905	889	890	885	883
7.5	909	900	916	910	894	887	902	898	901	905
10.0	898	899	924	877	916	915	956	952	952	946
12.5	986	985	965	955	976	967	1002	1005	1015	998
15.0	1055	1044	1048	1063	1101	1090	1090	1089	1096	1106
17.5	1116	1138	1118	1157	1208	1260	1202	1197	1196	1209
20.0	1294	1332	1322	1310	1352	1411	1418	1424	1363	1357
22.5	1498	1492	1548	1563	1632	1684	1767	1765	1682	1621
25.0	1889	1859	1903	1976	2062	2125	2266	2270	2199	2007
27.5	2623	2632	2655	2588	2684	2826	2951	2936	2988	2645
30.0	3450	3418	3378	3456	3527	3751	3863	3891	3868	3442
32.5	4456	4462	4264	4204	4432	4667	4919	4932	4955	4252
35.0	5400	5361	5248	5364	5298	5787	5992	6049	5876	5079
37.5	6757	6731	6394	6335	6453	6674	6966	6948	6716	5597
40.0	7966	7973	7795	7553	7486	7689	7889	7780	7378	6190
42.5	9382	9507	9239	8831	8633	8698	8573	8561	7895	6709
45.0	10941	11095	10952	10389	9964	9801	9355	9288	8479	7332
47.5	12490	12613	12545	12095	11650	11097	10296	10226	9326	8319
50.0	13644	13780	14133	13902	13283	12624	11782	11616	10638	9573
52.5	13570	13843	14747	15389	15486	14619	13812	13661	12603	11019
55.0	12675	12813	13937	15534	16682	16817	17022	16948	15292	12172
57.5	10226	10483	12076	14360	16861	18440	20023	20060	17229	12531
60.0	6574	6899	8759	11817	15660	18768	21107	21179	17625	11969
62.5	3492	3610	5060	8168	12888	17281	20313	20365	16921	10755
65.0	1875	1935	2587	4675	8974	14209	18228	18359	14846	8484
67.5	1087	1104	1422	2490	5396	9622	14216	14550	11383	5465
70.0	718	761	960	1643	2998	5443	9581	9784	7497	3097
72.5	530	561	696	1213	1990	2729	5106	5536	4062	1352
75.0	362	385	502	950	1530	1563	2304	2555	1718	659
77.5	257	272	376	782	1204	1035	1026	1130	885	414
80.0	199	209	292	616	905	677	534	565	540	309
82.5	155	163	232	489	603	404	322	320	356	243
85.0	114	116	173	355	366	200	199	196	203	163
87.5	67	73	122	203	135	74	74	70	75	76
90.0	15	16	27	51	28	16	14	13	12	11
92.5	5	5	8	11	9	10	11	10	9	8
95.0	4	3	5	7	8	9	9	9	8	7
97.5	3	3	5	7	7	8	8	7	6	6
100.0	3	3	5	7	7	8	7	7	6	6
102.5	4	3	5	7	8	8	7	7	6	6
105.0	4	3	5	7	8	8	7	7	6	6
107.5	4	4	5	7	8	8	7	6	6	6
110.0	5	4	5	7	8	8	7	7	6	6
112.5	5	5	6	8	9	9	7	7	7	7
115.0	5	5	6	8	9	9	8	7	7	7
117.5	6	6	6	9	9	10	8	7	7	8
120.0	6	6	7	9	10	10	8	8	7	8
122.5	7	7	8	9	10	10	9	8	8	8
125.0	8	8	8	9	10	10	9	8	8	9
127.5	9	8	9	9	10	11	9	8	9	9
130.0	9	9	9	9	11	11	9	9	9	10

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CANDELA TABULATION - (Cont.)

132.5	9	9	9	10	10	11	10	9	9	10
135.0	7	7	7	8	9	9	8	8	8	9
137.5	4	3	5	6	7	7	6	6	6	7
140.0	1	1	4	5	5	6	5	5	5	6
142.5	1	1	4	5	5	5	5	5	5	5
145.0	1	1	4	5	5	5	5	5	5	5
147.5	1	1	3	5	5	5	5	5	5	5
150.0	1	1	3	5	5	5	5	5	5	5
152.5	1	1	3	5	5	5	5	5	5	5
155.0	0	1	3	5	5	5	5	5	5	5
157.5	0	1	3	4	5	5	4	4	5	5
160.0	0	1	3	4	5	4	4	4	4	5
162.5	0	1	3	4	4	4	4	4	4	4
165.0	0	1	3	5	5	4	4	4	4	4
167.5	0	1	3	5	5	5	4	4	4	4
170.0	0	1	3	5	5	5	4	4	4	4
172.5	0	1	3	5	5	5	4	4	4	4
175.0	1	1	3	5	5	5	4	4	4	4
177.5	1	1	3	5	5	5	4	4	4	4
180.0	3	3	3	3	3	3	3	3	3	3

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	941	941	941	941	941	941	941	941	941	941
2.5	930	935	933	933	943	955	944	944	942	945
5.0	892	893	895	879	915	926	931	927	923	907
7.5	890	892	897	912	904	890	870	851	834	846
10.0	928	916	912	964	916	888	812	786	725	716
12.5	972	965	966	966	914	857	762	673	629	603
15.0	1021	996	996	1005	927	800	687	617	575	550
17.5	1114	1078	1090	1014	895	726	649	602	569	535
20.0	1222	1173	1133	1054	844	690	622	603	578	532
22.5	1464	1367	1313	1129	827	690	629	611	592	550
25.0	1798	1649	1531	1197	850	736	631	619	657	633
27.5	2297	2030	1837	1274	941	793	640	649	788	811
30.0	2875	2498	2147	1336	989	828	679	704	968	1023
32.5	3362	2887	2403	1381	999	852	703	778	1143	1299
35.0	3855	3204	2605	1397	976	857	725	796	1340	1620
37.5	4281	3530	2773	1420	934	846	718	807	1611	2031
40.0	4710	3818	2956	1437	892	810	704	785	1884	2042
42.5	5192	4143	3137	1462	852	767	665	728	2036	1617
45.0	5908	4695	3414	1502	807	711	609	667	1650	1203
47.5	6905	5360	3756	1554	756	629	533	602	1080	894
50.0	7935	6073	4188	1585	687	514	431	514	611	686
52.5	8840	6668	4411	1555	560	372	315	389	401	549
55.0	9254	6810	4324	1419	438	280	237	266	281	444
57.5	9124	6429	3844	1204	357	234	194	188	195	358
60.0	8467	5659	3022	934	304	209	166	144	144	289
62.5	7082	4407	2069	676	261	183	138	112	110	238
65.0	4701	2897	1277	464	217	152	113	88	82	196
67.5	2693	1692	754	319	179	122	86	69	62	159
70.0	1222	856	431	229	144	96	64	53	45	122
72.5	524	443	301	188	114	78	53	44	30	91
75.0	327	305	253	170	94	66	46	32	20	67
77.5	247	238	212	154	84	59	42	26	14	49

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CANDELA TABULATION - (Cont.)

80.0	221	201	175	137	74	54	37	23	11	39
82.5	163	150	145	114	65	51	36	21	10	33
85.0	99	94	106	82	56	47	35	20	9	27
87.5	49	44	55	52	46	42	31	18	8	23
90.0	11	9	17	30	37	35	26	16	6	13
92.5	8	6	14	25	32	30	23	15	5	5
95.0	8	5	13	22	28	27	21	14	5	5
97.5	7	6	10	18	23	23	17	12	5	4
100.0	7	6	10	14	18	18	15	11	6	5
102.5	7	6	9	12	15	15	14	11	6	5
105.0	7	7	9	12	14	14	13	11	7	5
107.5	7	7	9	12	13	13	13	11	7	5
110.0	7	8	10	11	13	13	13	11	8	5
112.5	7	8	10	12	13	13	13	11	8	5
115.0	8	9	10	12	13	13	13	11	9	6
117.5	8	9	10	12	13	13	13	12	9	6
120.0	9	10	11	12	13	13	13	12	10	7
122.5	9	10	11	12	13	13	14	12	10	7
125.0	10	11	11	13	13	13	14	13	10	8
127.5	10	11	12	12	13	13	14	13	11	9
130.0	10	11	12	13	13	14	14	13	11	9
132.5	10	11	11	12	13	14	14	13	10	9
135.0	10	10	11	12	13	13	13	12	10	7
137.5	8	8	9	10	12	12	12	11	8	6
140.0	7	7	8	9	10	10	10	9	7	5
142.5	6	7	7	8	9	10	9	8	6	5
145.0	6	6	7	8	9	9	9	8	5	4
147.5	6	6	7	8	8	9	8	7	5	4
150.0	6	6	7	7	8	8	8	7	5	3
152.5	6	6	6	7	8	8	8	6	5	3
155.0	5	6	6	7	7	8	7	6	5	2
157.5	5	6	6	6	7	7	6	5	4	2
160.0	5	5	5	6	6	6	6	5	3	1
162.5	5	5	5	5	6	5	5	5	2	1
165.0	5	5	5	5	5	5	5	4	2	0
167.5	5	5	5	5	5	5	5	4	2	0
170.0	4	5	5	5	5	5	5	4	2	0
172.5	4	5	5	5	5	5	5	4	2	0
175.0	4	5	5	5	5	5	5	4	2	0
177.5	4	4	4	4	5	4	4	3	2	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	941	941
2.5	946	948
5.0	900	903
7.5	825	817
10.0	689	688
12.5	598	592
15.0	552	543
17.5	528	527
20.0	520	512
22.5	510	497
25.0	550	527

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CANDELA TABULATION - (Cont.)

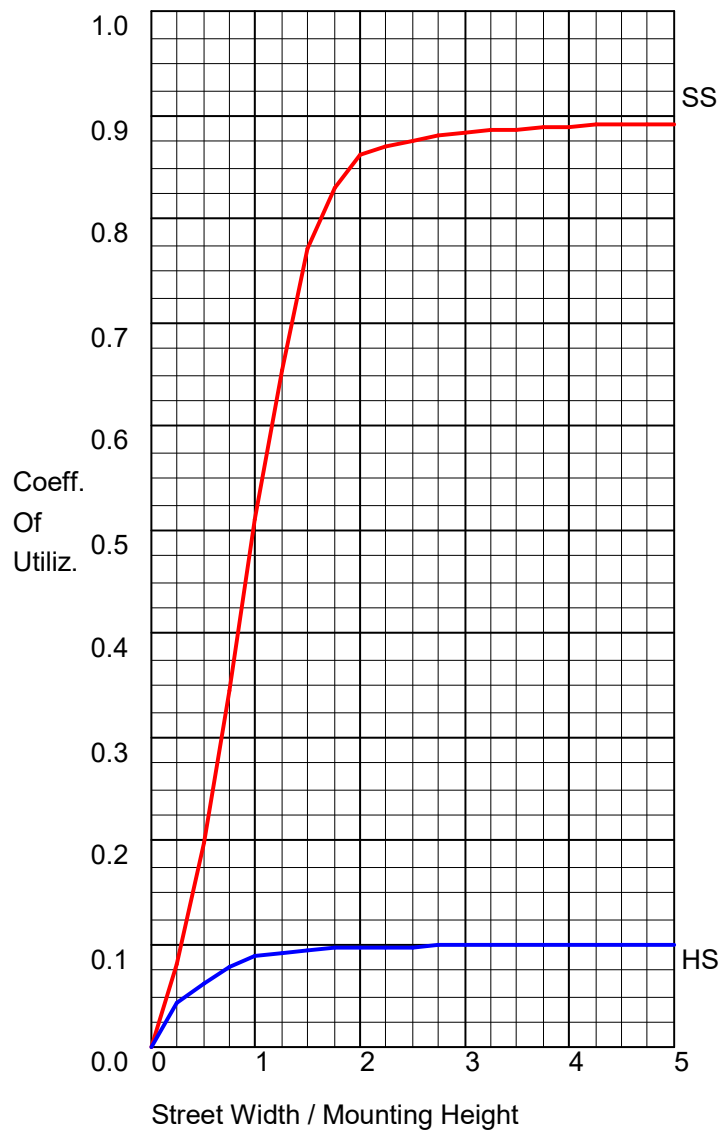
27.5	650	626
30.0	797	779
32.5	1022	975
35.0	1263	1205
37.5	1291	1188
40.0	1030	915
42.5	767	658
45.0	571	510
47.5	463	406
50.0	397	331
52.5	367	285
55.0	360	265
57.5	369	273
60.0	387	302
62.5	402	341
65.0	409	370
67.5	389	371
70.0	351	355
72.5	306	312
75.0	238	248
77.5	186	203
80.0	150	168
82.5	122	134
85.0	94	104
87.5	72	79
90.0	33	39
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	2	1
112.5	3	2
115.0	3	3
117.5	4	4
120.0	5	5
122.5	5	5
125.0	6	5
127.5	7	6
130.0	7	7
132.5	7	6
135.0	5	5
137.5	4	4
140.0	2	2
142.5	2	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	3	3

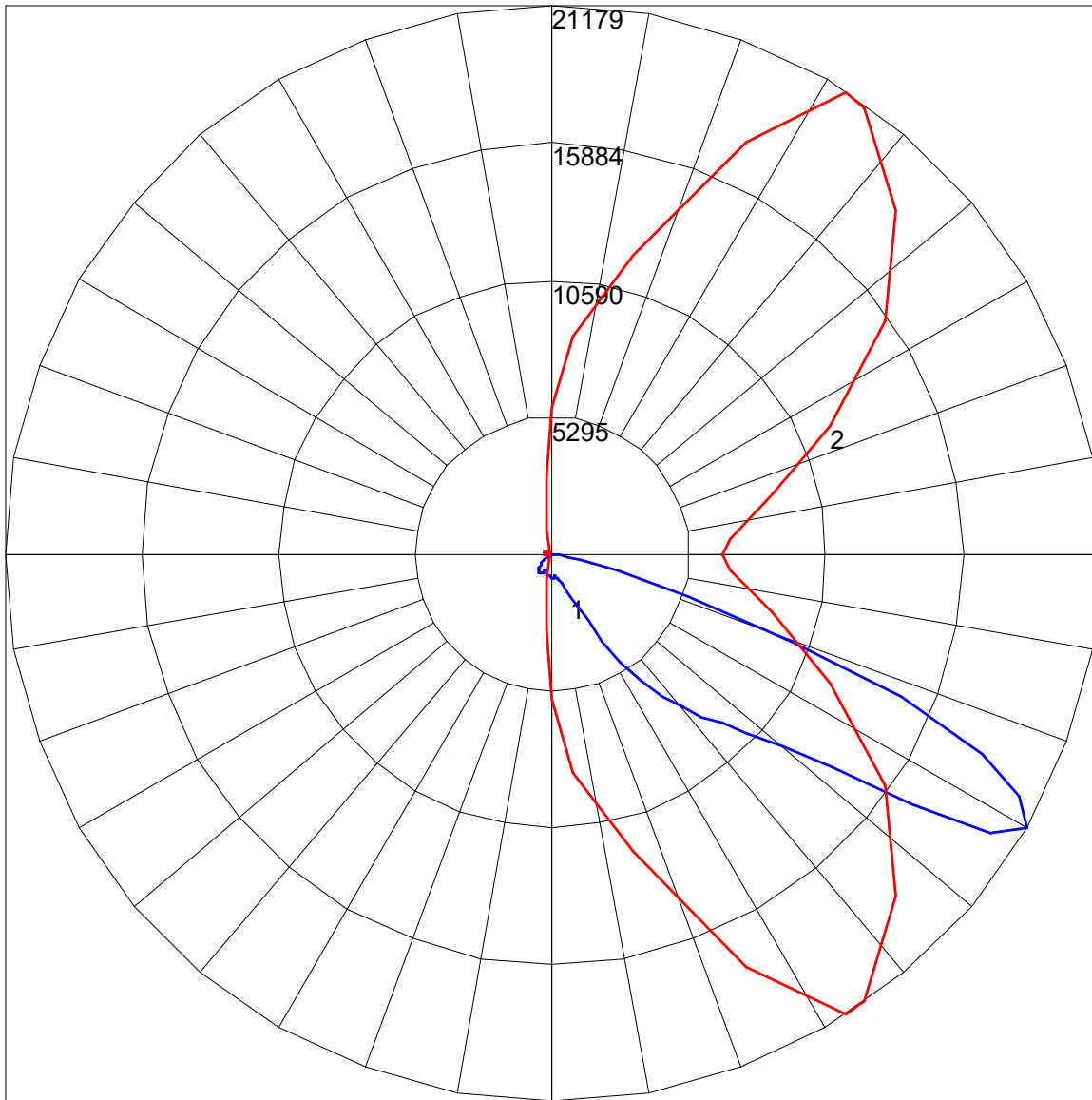
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

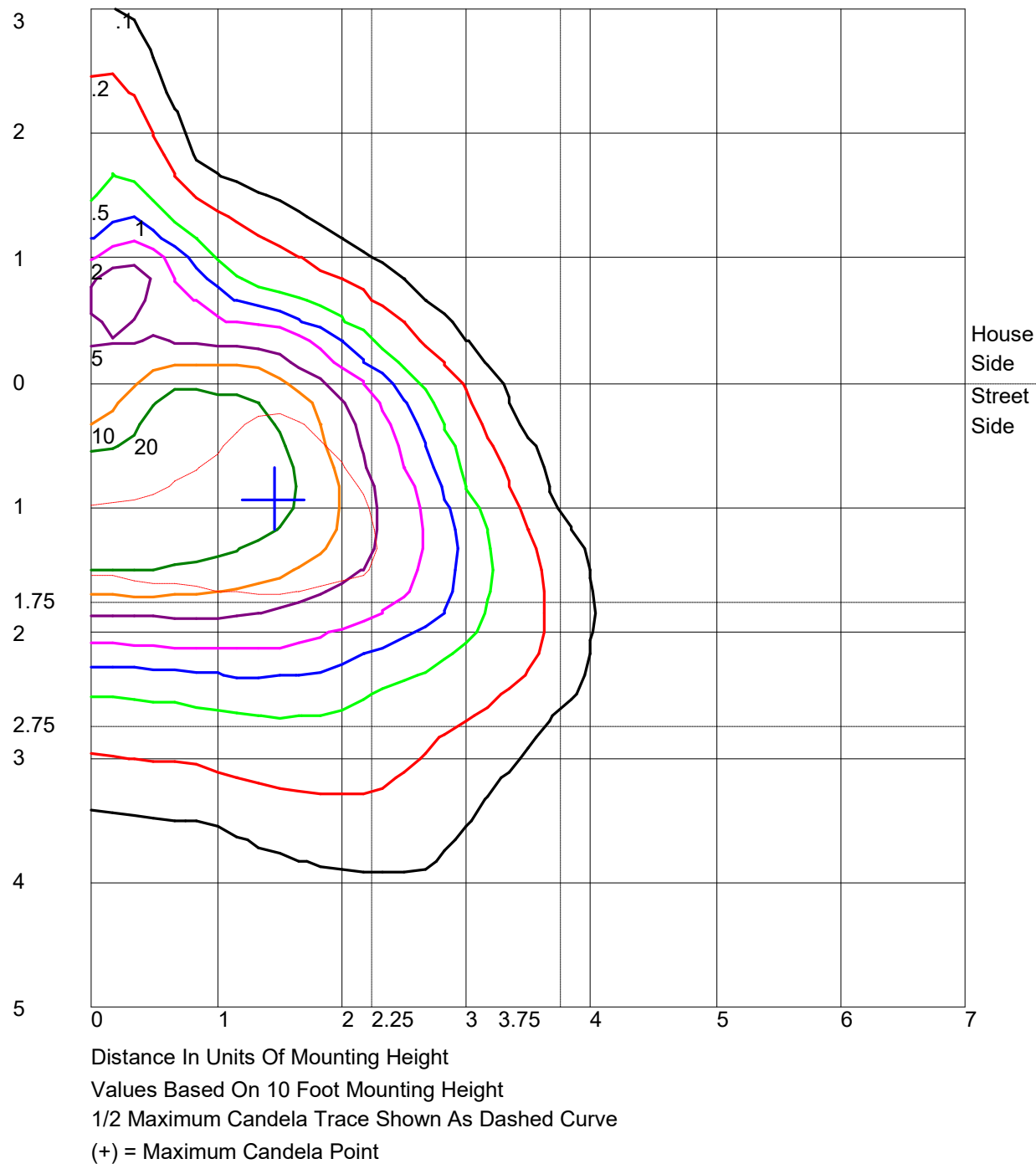
	Lumens	Percent Of Luminaire
Downward Street Side	17384.1	89.7
Downward House Side	1952.5	10.1
Downward Total	19336.6	99.7
Upward Street Side	22.2	0.1
Upward House Side	31.3	0.2
Upward Total	53.5	0.3
Total Flux	19390.1	100.0

POLAR GRAPH

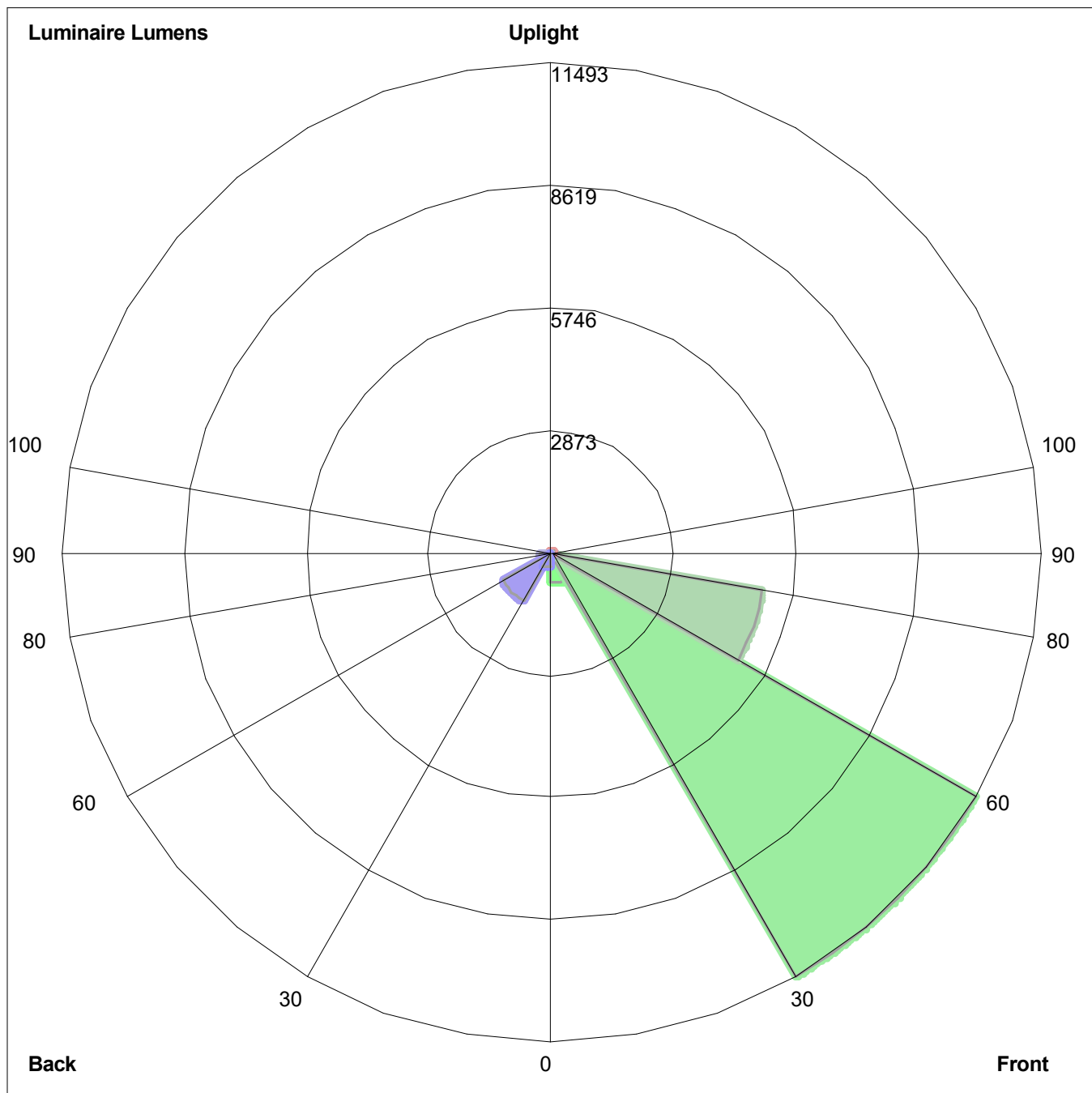


Maximum Candela = 21179 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=720.9, Medium=11492.6, High=5050.4, Very High=120.3
Back: Low=349.0, Medium=1314.9, High=260.1, Very High=28.5
Uplight: Low=13.1, High=40.4

BUG Rating : B2-U2-G3