



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-50-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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-3-LED-10L-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	8938
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	77
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9764
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	9764
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	23 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	417 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-50-IL.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	332.4	N.A.	3.7
FM - Front-Medium (30-60)	5298.4	N.A.	59.3
FH - Front-High (60-80)	2328.4	N.A.	26.0
FVH - Front-Very High (80-90)	55.5	N.A.	0.6
BL - Back-Low (0-30)	160.9	N.A.	1.8
BM - Back-Medium (30-60)	606.2	N.A.	6.8
BH - Back-High (60-80)	119.9	N.A.	1.3
BVH - Back-Very High (80-90)	13.1	N.A.	0.1
UL - Uplight-Low (90-100)	5.9	N.A.	0.1
UH - Uplight-High (100-180)	17.9	N.A.	0.2
Total	8938.6	N.A.	100.0
BUG Rating	B1-U2-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-50-IL.IES

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	433	433	433	433	433	433	433	433	433	433
2.5	427	425	424	422	430	429	428	427	429	425
5.0	436	424	429	429	426	417	410	410	408	407
7.5	419	415	422	420	412	408	416	415	416	417
10.0	415	415	426	404	423	422	441	439	439	436
12.5	454	453	445	440	450	446	462	463	468	460
15.0	487	481	483	490	508	503	503	502	506	510
17.5	514	525	515	533	557	580	554	552	551	557
20.0	597	614	609	604	623	651	654	657	629	626
22.5	691	687	714	721	753	777	814	813	776	747
25.0	871	858	877	911	951	979	1044	1046	1014	926
27.5	1209	1213	1224	1193	1237	1303	1360	1353	1378	1220
30.0	1590	1575	1558	1593	1626	1730	1781	1794	1783	1587
32.5	2054	2057	1966	1938	2044	2152	2268	2273	2284	1961
35.0	2490	2472	2419	2473	2442	2668	2763	2789	2709	2342
37.5	3115	3104	2948	2921	2975	3077	3212	3203	3096	2580
40.0	3673	3676	3594	3483	3451	3544	3637	3586	3402	2854
42.5	4325	4383	4259	4071	3980	4009	3953	3946	3640	3093
45.0	5044	5115	5050	4789	4594	4519	4313	4282	3909	3380
47.5	5758	5815	5783	5577	5371	5116	4747	4714	4299	3835
50.0	6290	6353	6516	6409	6123	5820	5432	5355	4905	4414
52.5	6256	6383	6799	7095	7139	6739	6368	6298	5811	5080
55.0	5843	5907	6426	7161	7690	7753	7848	7813	7050	5611
57.5	4714	4832	5567	6621	7773	8502	9231	9248	7942	5777
60.0	3031	3180	4038	5447	7219	8653	9731	9764	8125	5518
62.5	1610	1665	2333	3766	5942	7968	9365	9389	7801	4958
65.0	864	892	1192	2155	4138	6551	8403	8464	6844	3912
67.5	502	509	656	1148	2488	4436	6554	6708	5248	2520
70.0	332	351	443	758	1382	2510	4417	4511	3456	1427
72.5	245	259	321	559	917	1258	2354	2553	1872	623
75.0	167	177	232	438	705	721	1062	1178	791	304
77.5	119	125	173	361	555	477	473	521	408	191
80.0	91	97	134	283	417	312	247	260	249	143
82.5	71	75	107	226	278	187	149	147	164	112
85.0	52	54	80	164	169	92	91	90	93	75
87.5	31	34	56	93	62	35	34	33	35	36
90.0	7	7	13	23	13	7	6	6	5	5
92.5	2	2	4	5	4	4	5	4	4	4
95.0	2	1	2	3	4	4	4	4	4	3
97.5	1	1	2	3	3	4	4	3	3	3
100.0	1	1	2	3	3	4	3	3	3	3
102.5	2	1	2	3	4	4	3	3	3	3
105.0	2	1	2	3	4	4	3	3	3	3
107.5	2	2	2	3	4	4	3	3	3	3
110.0	2	2	2	3	4	4	3	3	3	3
112.5	2	2	3	4	4	4	3	3	3	3
115.0	2	2	3	4	4	4	4	3	3	3
117.5	3	3	3	4	4	4	4	3	3	4
120.0	3	3	3	4	4	4	4	4	3	4
122.5	3	3	4	4	4	4	4	4	4	4
125.0	4	4	4	4	4	4	4	4	4	4
127.5	4	4	4	4	4	5	4	4	4	4
130.0	4	4	4	4	5	5	4	4	4	4

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-50-IL.IES

CANDELA TABULATION - (Cont.)

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

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	433	433	433	433	433	433	433	433	433	433
2.5	429	431	430	430	435	440	436	436	435	436
5.0	411	411	412	405	422	427	429	427	425	419
7.5	410	411	414	421	417	410	401	393	384	389
10.0	428	422	421	444	423	409	375	362	334	330
12.5	448	445	445	445	421	396	352	311	290	278
15.0	470	460	460	464	427	368	317	284	266	254
17.5	513	498	503	467	412	335	299	278	262	247
20.0	564	541	523	486	389	318	287	278	267	246
22.5	675	630	606	521	381	318	290	282	273	253
25.0	829	760	706	552	392	339	291	285	302	292
27.5	1059	936	847	588	433	365	295	299	363	374
30.0	1326	1151	990	616	456	382	313	324	446	471
32.5	1550	1331	1108	636	461	393	324	359	527	599
35.0	1777	1478	1201	644	449	396	334	366	617	747
37.5	1973	1627	1278	655	430	389	332	373	743	936
40.0	2172	1760	1362	662	411	374	324	362	868	941
42.5	2393	1910	1446	674	393	354	306	336	938	745
45.0	2724	2164	1574	693	373	327	280	308	761	554
47.5	3183	2471	1732	717	348	290	246	278	498	412
50.0	3658	2799	1931	731	317	237	199	237	282	316
52.5	4076	3074	2033	717	258	172	145	179	185	253
55.0	4267	3139	1993	654	202	129	109	123	129	205
57.5	4207	2964	1772	555	165	108	89	87	90	165
60.0	3903	2609	1393	430	141	97	77	66	66	133
62.5	3265	2032	954	312	121	84	64	51	50	110
65.0	2167	1335	589	214	100	70	51	41	38	90
67.5	1242	780	347	147	83	56	40	31	28	73
70.0	564	395	198	106	66	44	29	24	21	56
72.5	241	205	139	87	52	36	24	20	14	42
75.0	151	141	117	79	43	30	21	15	9	31
77.5	114	110	98	71	39	27	19	13	6	23

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-50-IL.IES

CANDELA TABULATION - (Cont.)

80.0	102	92	81	63	35	25	17	10	5	18
82.5	76	69	67	52	30	23	17	9	4	15
85.0	45	43	49	38	26	22	16	9	4	13
87.5	23	20	25	24	21	19	15	8	4	10
90.0	5	4	8	14	17	17	13	7	3	6
92.5	4	3	6	12	15	14	10	6	2	2
95.0	4	2	6	10	13	13	9	6	2	2
97.5	3	3	4	8	10	10	8	5	2	2
100.0	3	3	4	6	8	8	6	5	3	2
102.5	3	3	4	5	7	7	6	5	3	2
105.0	3	3	4	5	6	6	6	5	3	2
107.5	3	3	4	5	6	6	6	5	3	2
110.0	3	4	4	5	6	6	6	5	4	2
112.5	3	4	4	5	6	6	6	5	4	2
115.0	4	4	4	5	6	6	6	5	4	3
117.5	4	4	4	5	6	6	6	5	4	3
120.0	4	4	5	5	6	6	6	5	4	3
122.5	4	4	5	5	6	6	6	5	4	3
125.0	4	5	5	6	6	6	6	6	4	4
127.5	4	5	5	5	6	6	6	6	5	4
130.0	4	5	5	6	6	6	6	6	5	4
132.5	4	5	5	5	6	6	6	6	4	4
135.0	4	4	5	5	6	6	6	5	4	3
137.5	4	4	4	4	5	5	5	5	4	3
140.0	3	3	4	4	4	4	4	4	3	2
142.5	3	3	3	4	4	4	4	4	3	2
145.0	3	3	3	4	4	4	4	4	2	2
147.5	3	3	3	4	4	4	4	3	2	2
150.0	3	3	3	3	4	4	4	3	2	1
152.5	3	3	3	3	4	4	4	3	2	1
155.0	2	3	3	3	3	4	3	3	2	1
157.5	2	3	3	3	3	3	3	2	2	1
160.0	2	2	2	3	3	3	3	2	1	0
162.5	2	2	2	2	3	2	2	2	1	0
165.0	2	2	2	2	2	2	2	2	1	0
167.5	2	2	2	2	2	2	2	2	1	0
170.0	2	2	2	2	2	2	2	2	1	0
172.5	2	2	2	2	2	2	2	2	1	0
175.0	2	2	2	2	2	2	2	2	1	0
177.5	2	2	2	2	2	2	2	1	1	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	433	433
2.5	437	438
5.0	415	417
7.5	380	377
10.0	318	317
12.5	276	273
15.0	255	251
17.5	244	242
20.0	239	236
22.5	235	229
25.0	253	242

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-50-IL.IES

CANDELA TABULATION - (Cont.)

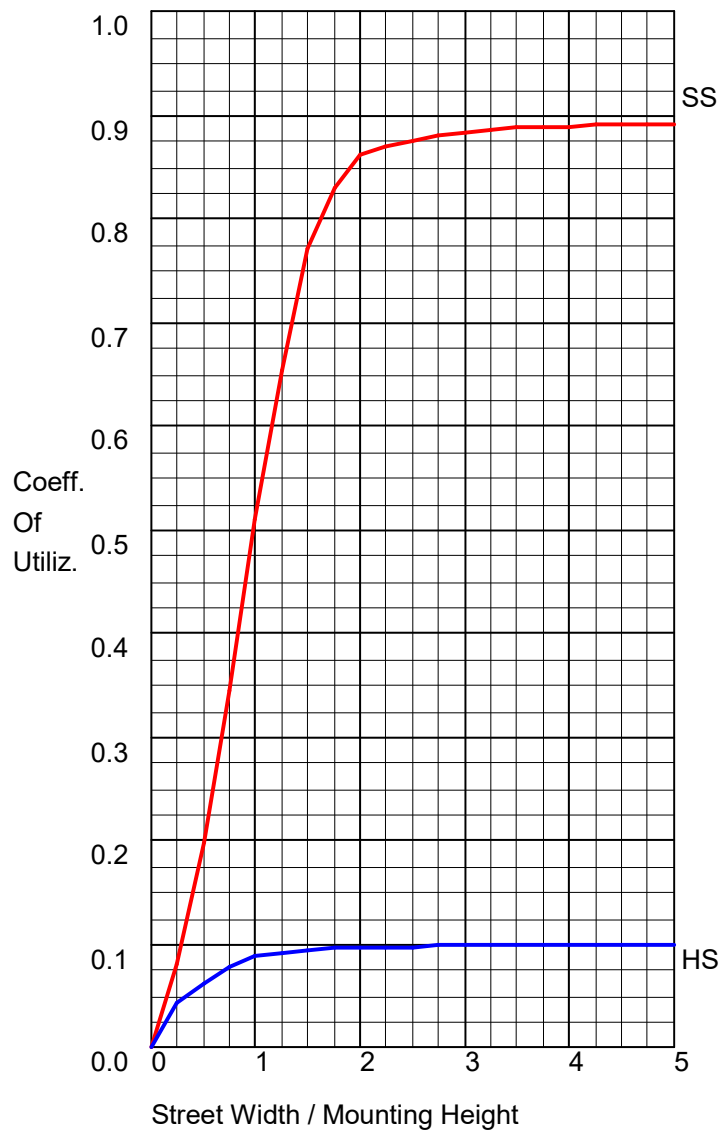
27.5	300	289
30.0	367	359
32.5	471	449
35.0	583	555
37.5	595	548
40.0	474	422
42.5	354	303
45.0	263	235
47.5	213	187
50.0	183	152
52.5	169	131
55.0	166	122
57.5	170	126
60.0	178	140
62.5	186	157
65.0	189	170
67.5	179	171
70.0	162	164
72.5	141	144
75.0	110	114
77.5	86	93
80.0	69	78
82.5	56	62
85.0	43	47
87.5	34	37
90.0	15	18
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	1	0
112.5	1	1
115.0	1	1
117.5	2	2
120.0	2	2
122.5	2	2
125.0	3	2
127.5	3	3
130.0	3	3
132.5	3	3
135.0	2	2
137.5	2	2
140.0	1	1
142.5	1	0
145.0	0	0
147.5	0	0
150.0	0	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

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-3-LED-10L-50-IL.IES

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	1	1

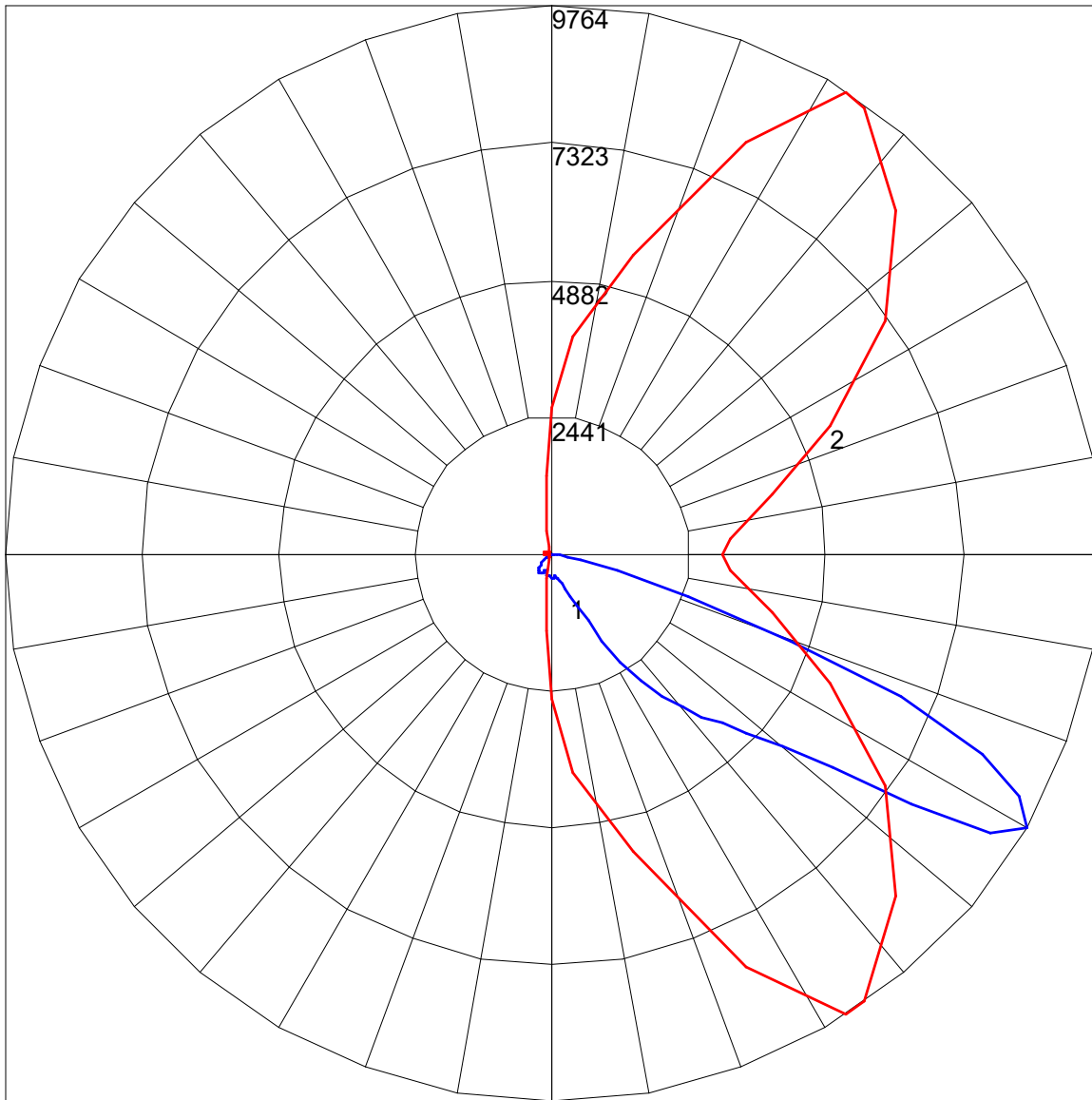
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

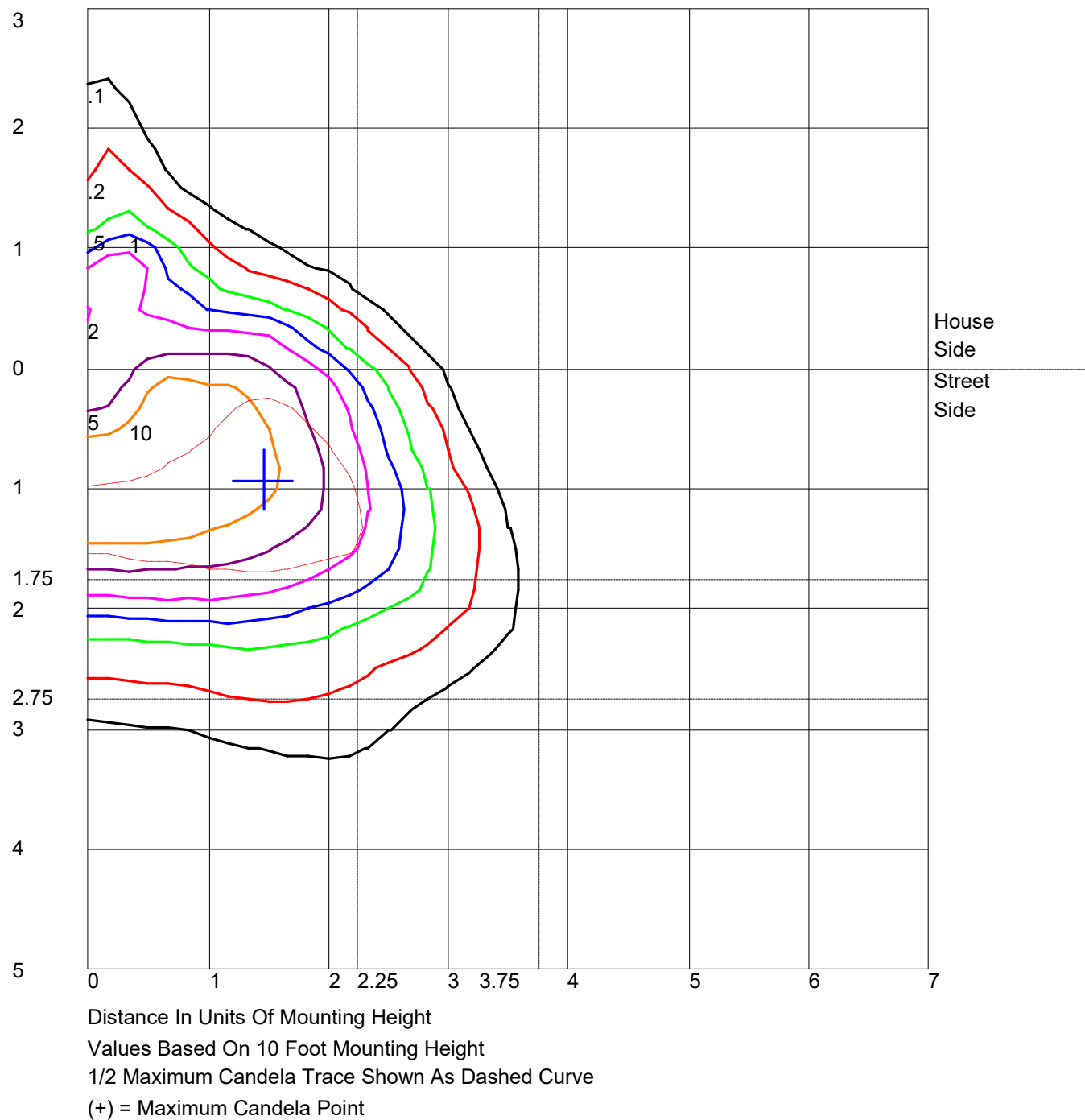
	Lumens	Percent Of Luminaire
Downward Street Side	8014.6	89.7
Downward House Side	900.1	10.1
Downward Total	8914.7	99.7
Upward Street Side	9.9	0.1
Upward House Side	13.9	0.2
Upward Total	23.8	0.3
Total Flux	8938.5	100.0

POLAR GRAPH

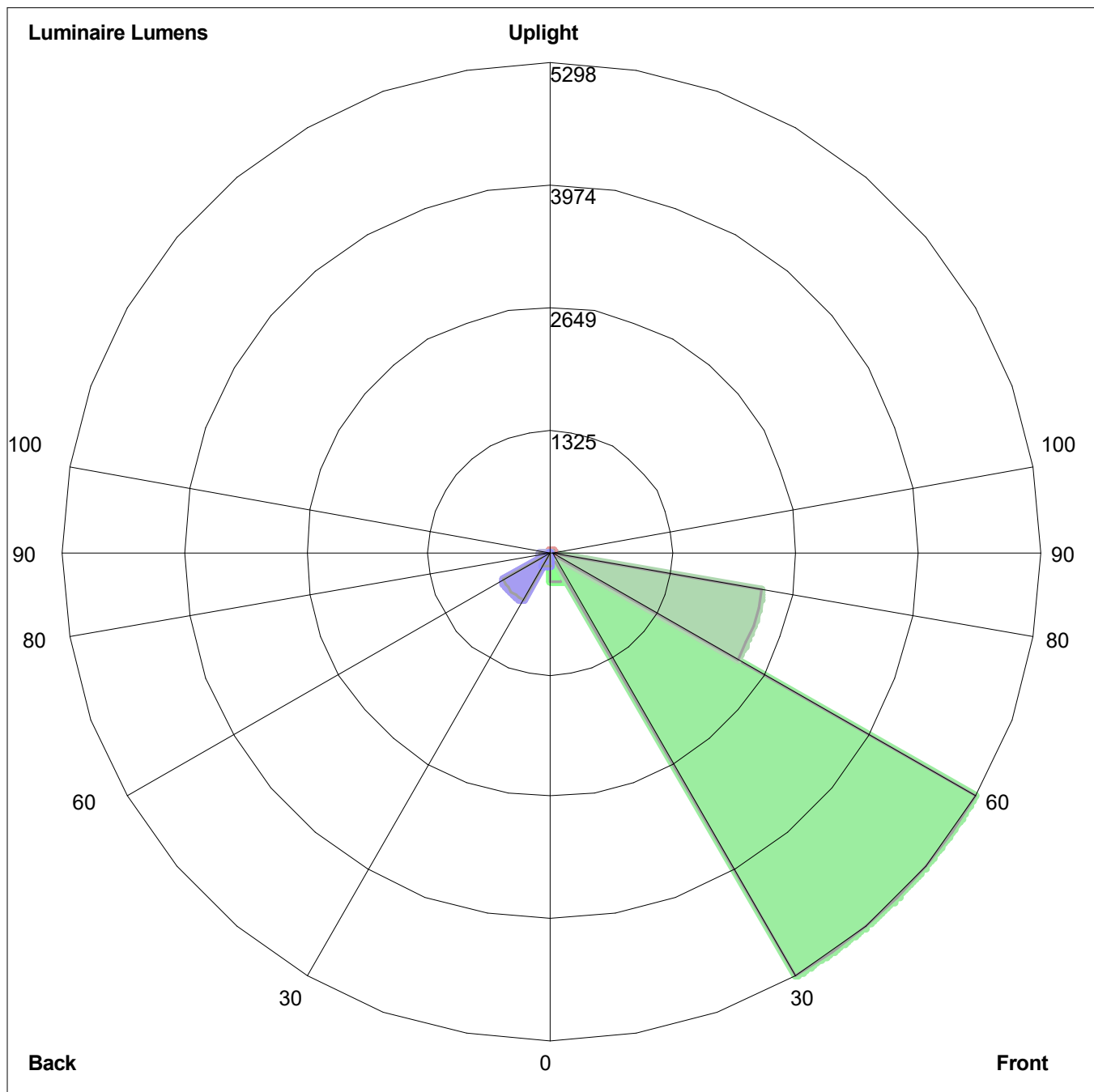


Maximum Candela = 9764 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=332.4, Medium=5298.4, High=2328.4, Very High=55.5
Back: Low=160.9, Medium=606.2, High=119.9, Very High=13.1
Uplight: Low=5.9, High=17.9

BUG Rating : B1-U2-G2