



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-50-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-LED-05L-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	3987
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4077
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	4077
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	4 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	161 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-50-IL.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	307.8	N.A.	7.7
FM - Front-Medium (30-60)	2246.1	N.A.	56.3
FH - Front-High (60-80)	737.5	N.A.	18.5
FVH - Front-Very High (80-90)	15.7	N.A.	0.4
BL - Back-Low (0-30)	166.9	N.A.	4.2
BM - Back-Medium (30-60)	418.4	N.A.	10.5
BH - Back-High (60-80)	86.6	N.A.	2.2
BVH - Back-Very High (80-90)	2.8	N.A.	0.1
UL - Uplight-Low (90-100)	1.2	N.A.	0.0
UH - Uplight-High (100-180)	3.7	N.A.	0.1
Total	3986.7	N.A.	100.0
BUG Rating	B1-U1-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-50-IL.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	409	409	409	409	409	409	409	409	409	409
2.5	417	419	418	422	422	422	424	420	414	407
5.0	418	423	432	428	441	411	414	401	390	388
7.5	426	438	444	421	431	414	420	433	424	411
10.0	452	450	469	435	446	454	459	452	441	427
12.5	489	512	494	482	493	486	492	485	482	483
15.0	527	549	539	553	566	538	546	537	546	527
17.5	564	579	574	587	602	627	599	612	623	593
20.0	640	653	650	643	661	673	691	685	698	693
22.5	690	695	711	728	738	742	801	797	822	819
25.0	788	766	787	806	828	825	905	957	964	967
27.5	901	925	934	909	916	945	1022	1155	1203	1178
30.0	1050	1024	1018	1023	1037	1088	1175	1387	1437	1422
32.5	1239	1255	1177	1133	1176	1221	1374	1683	1761	1745
35.0	1435	1417	1352	1320	1306	1412	1578	1929	2097	2062
37.5	1639	1637	1546	1482	1515	1557	1771	2116	2250	2289
40.0	1732	1736	1707	1677	1686	1740	1924	2192	2360	2367
42.5	1769	1761	1751	1761	1842	1898	2104	2244	2397	2442
45.0	1727	1729	1729	1784	1913	2072	2304	2392	2520	2599
47.5	1599	1595	1628	1716	1884	2142	2504	2640	2707	2824
50.0	1414	1406	1447	1544	1757	2107	2710	2918	2927	3064
52.5	1177	1177	1222	1321	1552	1960	2827	3224	3205	3452
55.0	915	911	958	1079	1298	1723	2838	3480	3541	3809
57.5	654	641	695	806	1009	1423	2689	3553	3806	4077
60.0	446	443	486	566	723	1073	2364	3431	3891	4072
62.5	314	316	341	394	489	727	1934	3009	3684	3782
65.0	219	218	239	289	352	464	1464	2532	3183	3145
67.5	143	149	163	205	263	314	994	1897	2523	2412
70.0	90	92	98	135	191	226	605	1295	1768	1557
72.5	66	69	69	86	133	163	313	809	1025	780
75.0	46	48	47	56	89	118	174	492	502	311
77.5	30	30	31	35	55	83	105	280	262	167
80.0	20	21	22	22	30	54	66	150	161	113
82.5	20	19	19	18	19	27	39	75	102	87
85.0	15	15	14	14	15	19	23	37	52	52
87.5	8	8	8	8	8	12	14	18	20	19
90.0	3	3	2	2	2	2	1	2	3	2
92.5	1	1	1	1	1	0	0	0	0	0
95.0	1	1	1	1	0	0	0	0	0	0
97.5	1	1	1	1	0	0	0	0	0	0
100.0	1	1	1	1	0	0	0	0	0	0
102.5	1	1	1	1	0	0	0	0	0	0
105.0	1	1	1	1	0	0	0	0	0	0
107.5	1	1	1	1	0	0	0	0	0	0
110.0	1	1	1	1	0	0	0	0	0	0
112.5	1	1	1	1	1	0	0	0	0	0
115.0	1	1	1	1	1	0	0	0	0	0
117.5	1	1	1	1	1	0	0	0	0	0
120.0	2	2	1	1	1	0	0	0	0	0
122.5	2	2	2	1	1	1	0	0	1	1
125.0	2	2	2	1	1	1	0	0	1	1
127.5	2	2	2	2	1	1	0	1	1	1
130.0	3	2	2	2	1	1	0	1	1	1

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-50-IL.IES

CANDELA TABULATION - (Cont.)

132.5	3	2	2	2	1	1	0	1	1	1
135.0	2	2	2	1	1	1	0	1	1	1
137.5	1	1	1	1	1	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	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	0	0	0	0	0	0	0	0
177.5	0	0	0	0	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	409	409	409	409	409	409	409	409	409	409
2.5	408	407	409	407	402	405	407	407	404	401
5.0	393	389	382	378	381	380	373	377	371	359
7.5	405	406	398	400	380	361	333	337	332	342
10.0	421	411	399	405	359	350	335	325	309	321
12.5	457	450	441	419	375	351	332	340	341	359
15.0	505	491	462	426	369	359	360	379	387	382
17.5	569	535	509	452	382	382	404	414	412	409
20.0	647	620	575	478	405	421	424	430	404	368
22.5	778	705	660	539	445	453	443	392	318	267
25.0	917	862	774	585	514	484	402	287	206	158
27.5	1108	1008	913	659	569	474	314	189	127	107
30.0	1346	1213	1064	739	614	422	223	127	104	94
32.5	1601	1435	1227	816	638	347	151	108	93	87
35.0	1896	1681	1416	902	617	260	126	98	87	83
37.5	2122	1929	1573	967	558	176	114	91	80	75
40.0	2224	2039	1650	1021	470	141	103	84	70	65
42.5	2337	2157	1710	1023	330	125	93	76	61	52
45.0	2497	2290	1797	996	209	111	84	65	49	42
47.5	2727	2471	1881	909	152	99	71	52	40	33
50.0	2979	2642	1949	759	130	88	60	41	31	25
52.5	3287	2792	1976	564	119	76	47	31	24	19
55.0	3613	2828	1935	380	109	64	37	24	19	14
57.5	3740	2715	1776	268	101	51	27	18	14	8
60.0	3618	2467	1529	218	97	42	20	12	7	4
62.5	3195	2083	1230	181	92	33	15	6	4	2
65.0	2591	1599	894	139	81	26	9	3	3	1
67.5	1850	1114	546	98	61	19	6	2	2	1
70.0	1063	665	300	69	41	13	5	3	2	1
72.5	480	329	169	51	26	7	5	3	2	1
75.0	200	171	105	37	15	6	5	4	2	1
77.5	124	117	67	24	9	6	5	4	2	1

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-50-IL.IES

CANDELA TABULATION - (Cont.)

80.0	98	82	43	13	7	6	6	4	2	1
82.5	70	50	26	6	6	5	5	4	2	1
85.0	40	25	13	3	4	5	5	4	2	1
87.5	14	6	2	2	3	5	4	3	2	1
90.0	1	1	1	1	3	4	4	3	2	1
92.5	0	0	1	1	3	4	4	2	1	1
95.0	0	0	1	1	2	3	3	2	1	1
97.5	0	0	1	1	2	2	2	1	1	1
100.0	0	0	1	1	1	1	1	1	1	1
102.5	0	0	1	1	1	1	1	1	1	1
105.0	0	0	1	1	1	1	1	1	1	1
107.5	0	0	1	1	1	1	1	1	1	1
110.0	0	0	1	1	1	1	1	1	1	1
112.5	0	0	1	1	1	1	1	1	1	1
115.0	0	1	1	1	1	1	1	1	1	1
117.5	1	1	1	1	1	1	1	1	1	1
120.0	1	1	1	1	1	1	1	1	1	1
122.5	1	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	2	2	2
130.0	1	1	1	1	1	1	1	2	2	2
132.5	1	1	1	1	1	1	1	2	2	2
135.0	1	1	1	1	1	1	1	2	2	2
137.5	0	1	1	1	1	1	1	1	1	1
140.0	0	0	0	0	1	1	1	1	1	1
142.5	0	0	0	0	1	1	1	1	1	1
145.0	0	0	0	0	1	1	1	1	1	1
147.5	0	0	0	0	1	1	1	1	1	1
150.0	0	0	0	0	1	1	1	1	1	1
152.5	0	0	0	0	1	1	1	1	1	1
155.0	0	0	0	0	1	1	1	1	1	1
157.5	0	0	0	0	1	1	1	1	1	1
160.0	0	0	0	0	0	1	1	1	1	1
162.5	0	0	0	0	0	1	1	1	1	1
165.0	0	0	0	0	0	0	1	1	1	1
167.5	0	0	0	0	0	0	1	1	1	1
170.0	0	0	0	0	0	0	0	1	1	1
172.5	0	0	0	0	0	0	0	1	1	1
175.0	0	0	0	0	0	0	0	1	1	1
177.5	0	0	0	0	0	0	0	0	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	409	409
2.5	397	389
5.0	357	353
7.5	337	330
10.0	330	320
12.5	368	357
15.0	409	402
17.5	428	415
20.0	364	345
22.5	242	239
25.0	140	136

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-50-IL.IES

CANDELA TABULATION - (Cont.)

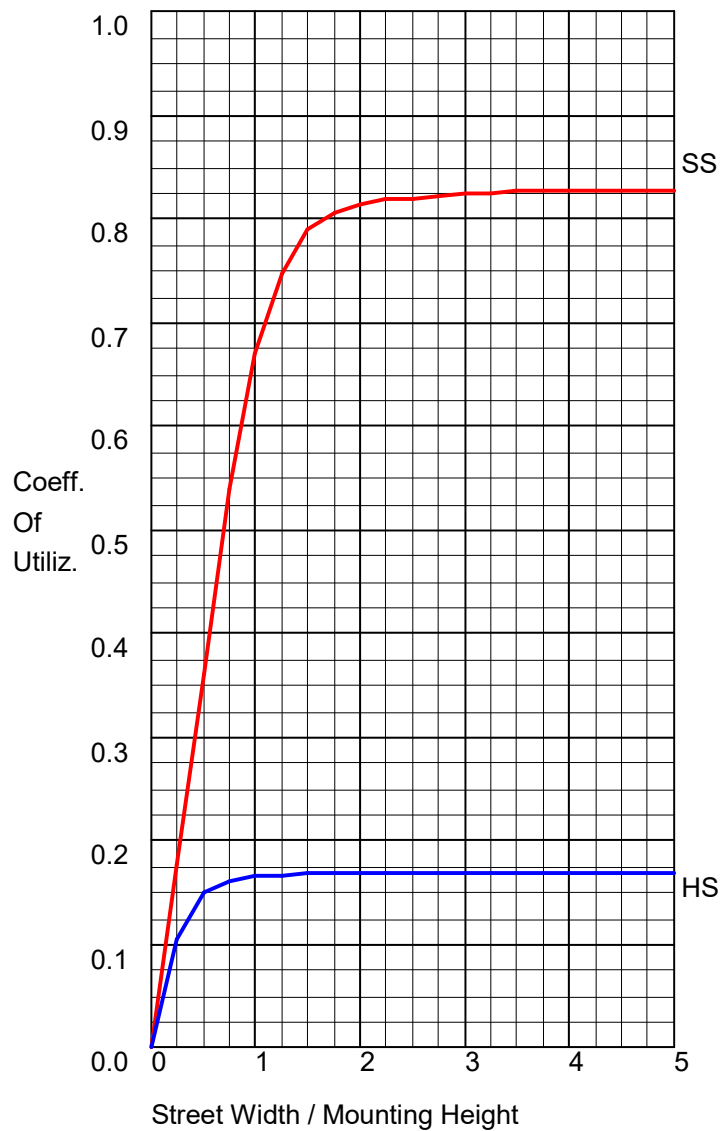
27.5	104	103
30.0	93	93
32.5	88	88
35.0	82	82
37.5	73	73
40.0	62	62
42.5	50	49
45.0	40	39
47.5	30	30
50.0	23	23
52.5	17	17
55.0	12	12
57.5	6	6
60.0	2	2
62.5	1	1
65.0	1	1
67.5	1	1
70.0	1	1
72.5	1	0
75.0	0	0
77.5	1	0
80.0	1	1
82.5	1	1
85.0	1	1
87.5	1	1
90.0	1	1
92.5	1	1
95.0	1	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	1	0
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
137.5	1	1
140.0	1	1
142.5	1	1
145.0	1	1
147.5	1	1
150.0	1	1
152.5	1	1
155.0	1	1
157.5	1	1
160.0	0	0
162.5	0	0
165.0	0	0

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-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	0	0

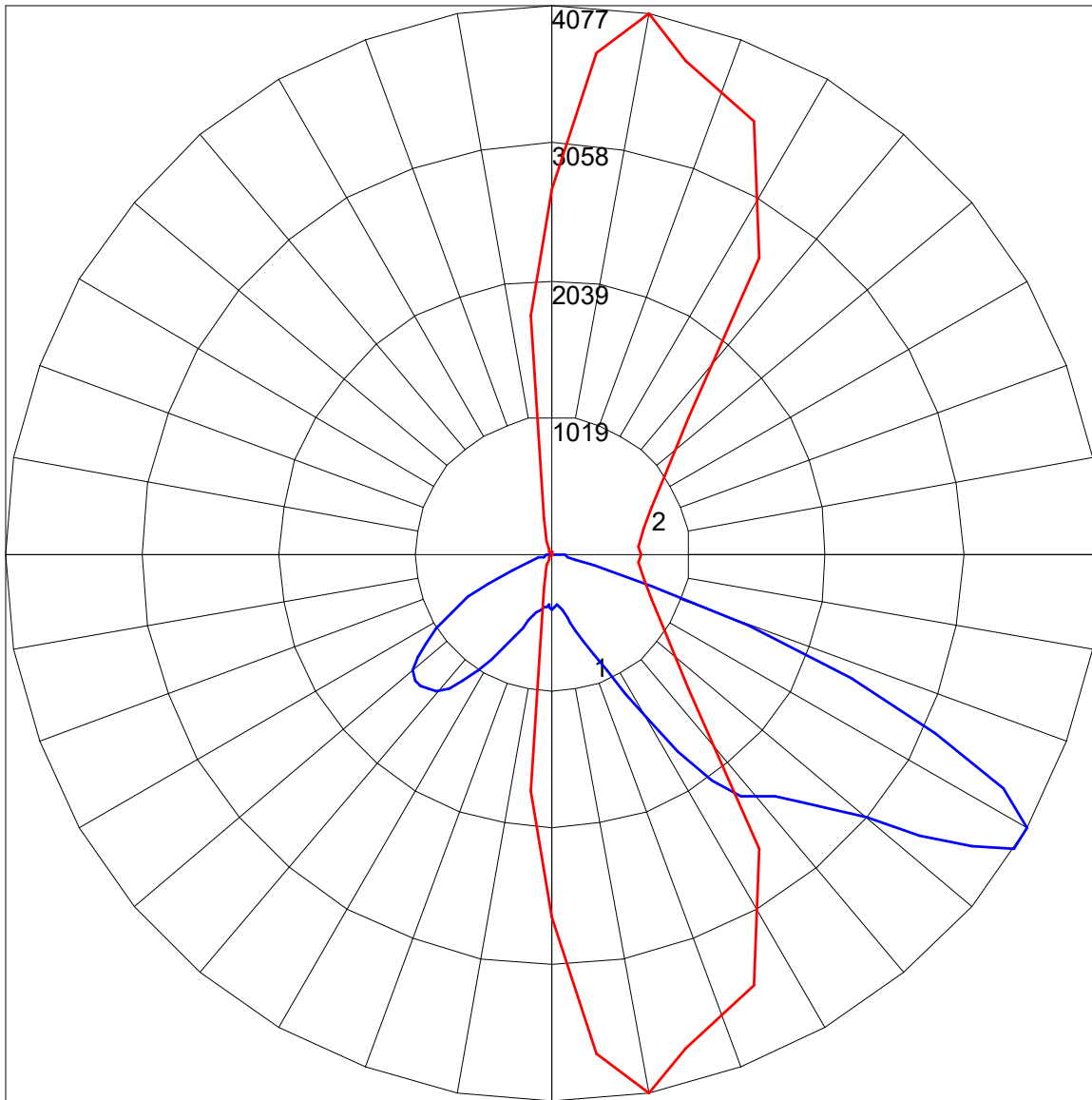
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

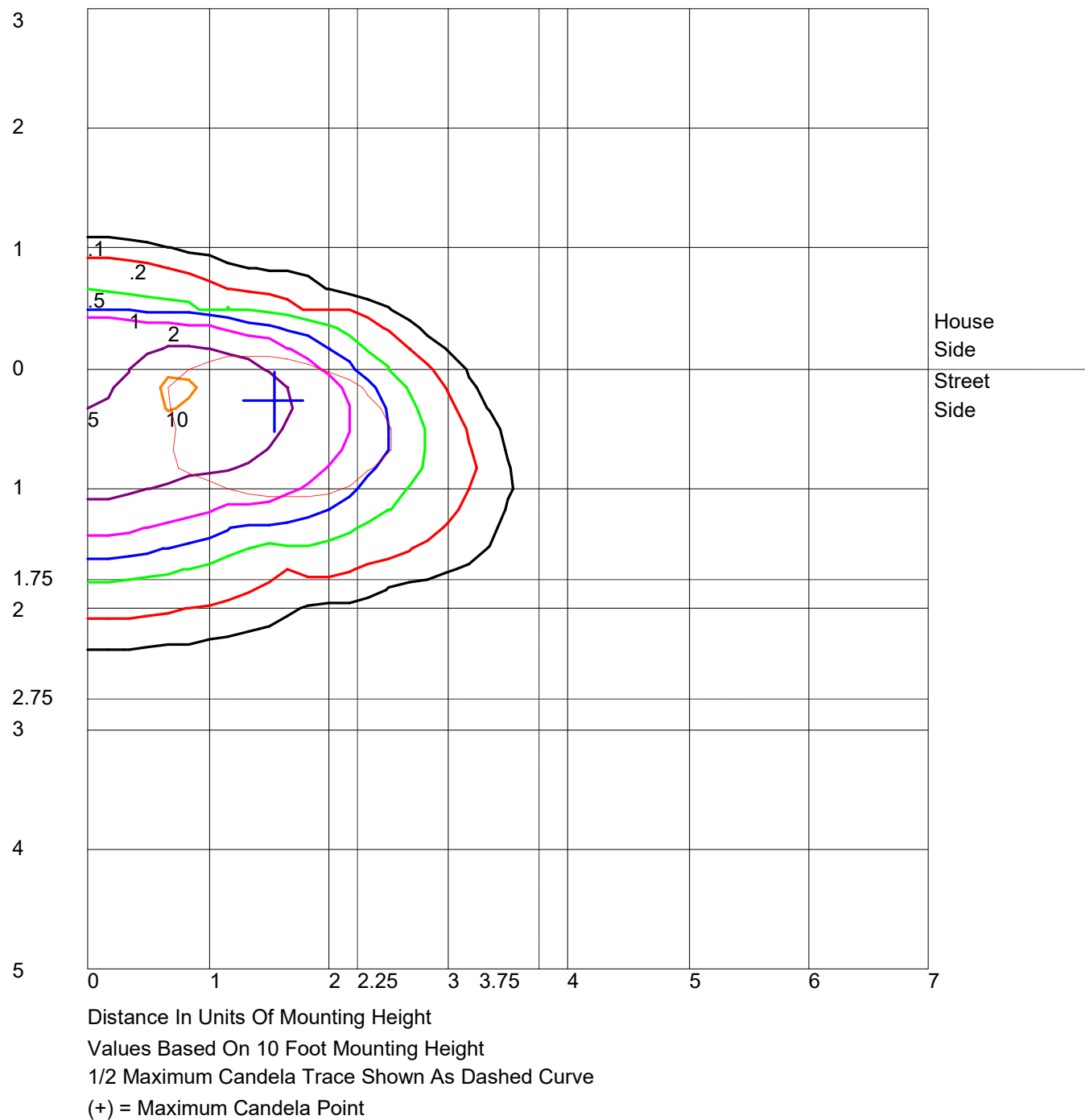
	Lumens	Percent Of Luminaire
Downward Street Side	3307.1	83.0
Downward House Side	674.7	16.9
Downward Total	3981.8	99.9
Upward Street Side	1.5	0.0
Upward House Side	3.3	0.1
Upward Total	4.8	0.1
Total Flux	3986.6	100.0

POLAR GRAPH

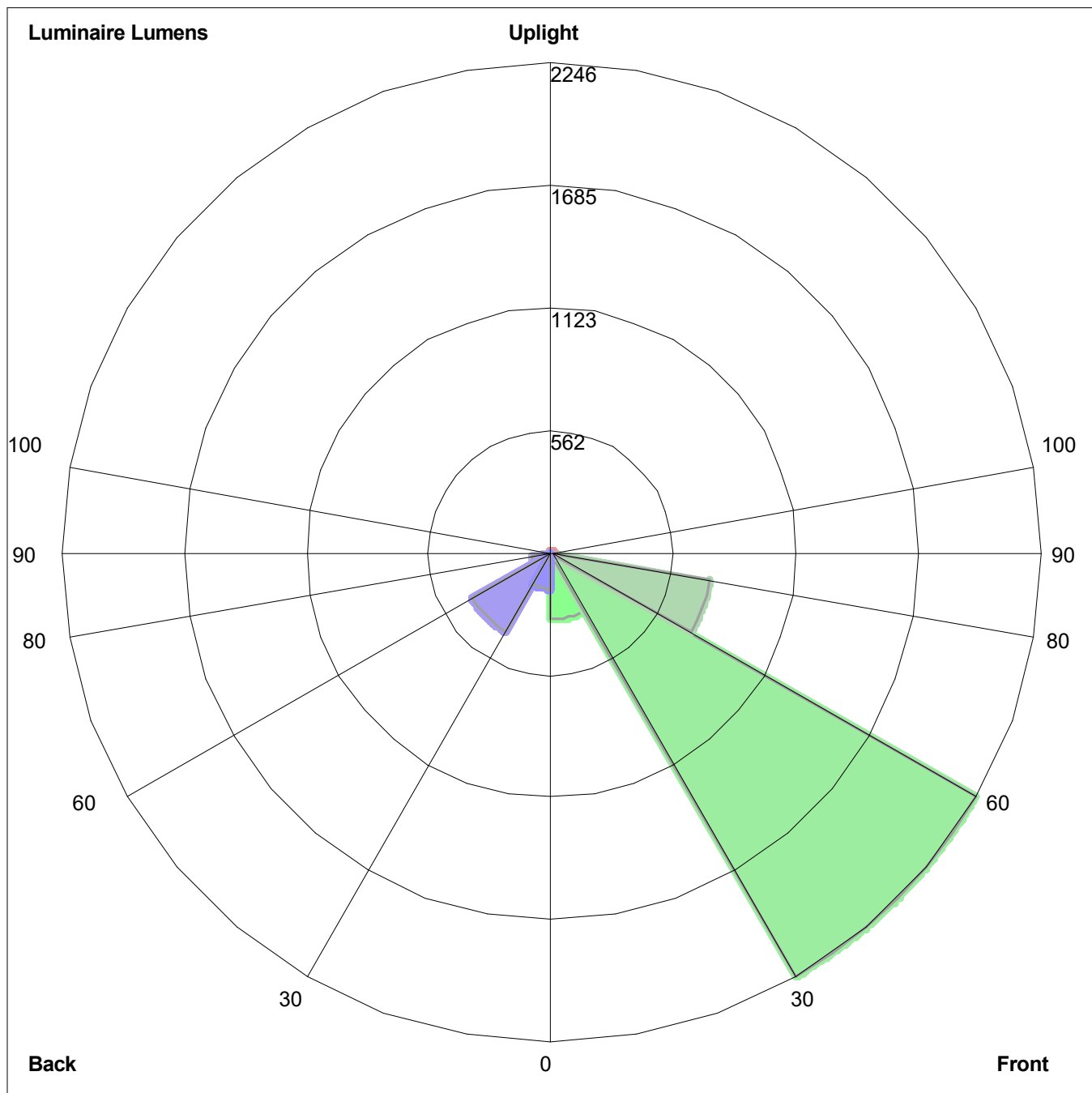


Maximum Candela = 4077 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=307.8, Medium=2246.1, High=737.5, Very High=15.7
Back: Low=166.9, Medium=418.4, High=86.6, Very High=2.8
Uplight: Low=1.2, High=3.7

BUG Rating : B1-U1-G1