



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-LED-05L-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	3439
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3516
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	3516
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	138 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-30-IL.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	265.4	N.A.	7.7
FM - Front-Medium (30-60)	1937.2	N.A.	56.3
FH - Front-High (60-80)	636.1	N.A.	18.5
FVH - Front-Very High (80-90)	13.5	N.A.	0.4
BL - Back-Low (0-30)	144.0	N.A.	4.2
BM - Back-Medium (30-60)	360.9	N.A.	10.5
BH - Back-High (60-80)	74.9	N.A.	2.2
BVH - Back-Very High (80-90)	2.6	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	3439.5	N.A.	100.0
BUG Rating	B1-U1-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-30-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	353	353	353	353	353	353	353	353	353	353
2.5	359	361	360	364	364	364	366	362	357	351
5.0	360	365	373	369	380	355	357	346	337	335
7.5	368	377	383	363	372	357	362	374	366	355
10.0	390	388	405	375	385	392	396	390	380	368
12.5	422	442	426	415	425	419	425	418	415	416
15.0	454	473	465	477	488	464	471	463	471	454
17.5	486	500	495	506	520	540	517	528	538	511
20.0	552	563	560	555	570	580	596	591	602	597
22.5	595	599	613	628	636	640	691	687	709	706
25.0	680	661	679	695	714	711	780	826	831	834
27.5	777	797	806	784	790	815	882	996	1037	1016
30.0	905	883	878	883	894	939	1013	1196	1239	1227
32.5	1068	1083	1015	977	1014	1053	1185	1451	1519	1505
35.0	1237	1222	1166	1139	1126	1217	1361	1664	1809	1779
37.5	1414	1412	1333	1278	1306	1342	1527	1825	1941	1974
40.0	1494	1497	1472	1447	1454	1501	1659	1890	2035	2041
42.5	1525	1519	1510	1519	1589	1637	1815	1935	2067	2106
45.0	1489	1491	1491	1539	1650	1787	1987	2063	2173	2241
47.5	1379	1376	1404	1480	1625	1848	2160	2277	2335	2436
50.0	1219	1213	1248	1332	1515	1817	2337	2516	2525	2642
52.5	1015	1015	1054	1140	1339	1690	2438	2781	2764	2977
55.0	789	786	826	931	1120	1486	2448	3002	3054	3285
57.5	564	553	599	695	870	1227	2319	3064	3282	3516
60.0	385	382	419	488	624	925	2039	2959	3356	3512
62.5	271	272	294	339	422	627	1668	2595	3177	3261
65.0	189	188	206	249	303	400	1263	2183	2745	2712
67.5	123	129	140	177	227	271	857	1636	2176	2080
70.0	78	80	84	117	165	195	521	1117	1524	1342
72.5	57	60	60	74	115	140	270	698	884	673
75.0	40	42	41	48	77	101	150	425	433	268
77.5	26	26	27	30	47	72	91	242	226	144
80.0	17	18	19	19	26	46	57	129	138	98
82.5	17	16	16	15	16	24	33	64	88	75
85.0	13	13	12	12	13	16	20	32	45	45
87.5	7	7	7	7	7	10	12	15	17	16
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-30-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	353	353	353	353	353	353	353	353	353	353
2.5	352	351	353	351	347	349	351	351	349	346
5.0	339	336	329	326	329	328	321	325	320	310
7.5	349	350	343	345	328	311	287	291	286	295
10.0	363	355	344	349	310	301	289	281	266	277
12.5	394	388	380	361	323	302	286	293	294	310
15.0	435	424	398	368	319	310	310	327	334	329
17.5	491	462	439	390	329	329	349	357	356	353
20.0	558	535	496	412	349	363	366	371	349	318
22.5	671	608	569	465	384	391	382	338	274	230
25.0	791	743	667	504	444	417	347	247	177	137
27.5	956	869	788	568	491	409	271	163	110	92
30.0	1160	1046	918	637	530	364	192	110	90	81
32.5	1380	1237	1058	703	550	300	130	93	81	75
35.0	1635	1450	1221	778	532	224	109	84	75	72
37.5	1830	1664	1357	834	482	152	99	79	69	64
40.0	1918	1759	1423	881	406	121	89	72	61	56
42.5	2016	1860	1475	883	284	108	81	65	53	45
45.0	2153	1975	1550	859	180	96	72	56	43	36
47.5	2352	2131	1622	784	131	85	62	45	34	28
50.0	2569	2278	1681	654	112	76	52	35	27	22
52.5	2835	2408	1704	486	102	65	41	27	21	16
55.0	3116	2439	1669	328	94	55	32	21	16	12
57.5	3225	2342	1532	231	87	44	24	15	12	7
60.0	3120	2127	1319	188	83	36	17	10	6	4
62.5	2755	1797	1061	156	80	28	13	5	4	2
65.0	2235	1379	771	119	70	23	8	3	3	1
67.5	1596	960	471	84	53	16	5	2	2	1
70.0	917	574	259	60	35	11	5	3	2	1
72.5	414	283	146	44	23	6	5	3	2	1
75.0	173	148	91	32	13	5	5	4	2	1
77.5	107	100	58	21	8	5	5	4	2	1

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-30-IL.IES

CANDELA TABULATION - (Cont.)

80.0	84	71	37	11	6	5	5	4	2	1
82.5	61	43	23	5	5	5	5	4	2	1
85.0	34	22	11	3	4	5	5	4	2	1
87.5	12	5	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	353	353
2.5	342	336
5.0	308	304
7.5	291	284
10.0	284	276
12.5	318	308
15.0	353	347
17.5	369	358
20.0	314	298
22.5	209	206
25.0	120	118

IES ROAD REPORT
PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-30-IL.IES

CANDELA TABULATION - (Cont.)

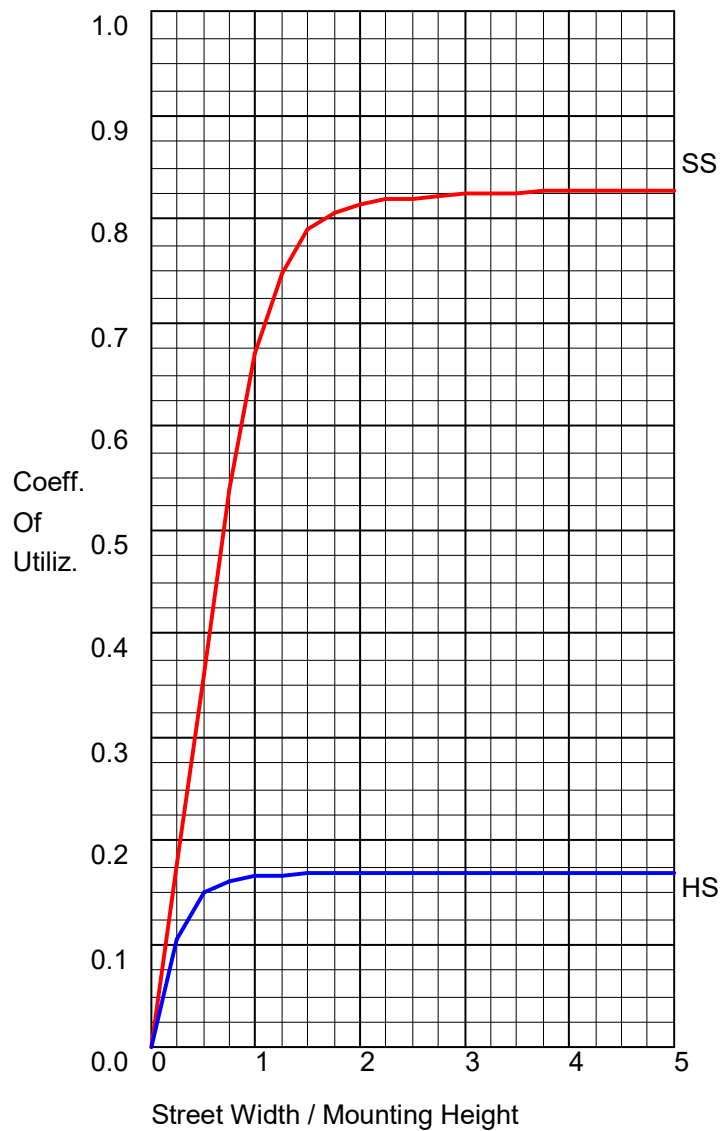
27.5	90	89
30.0	81	81
32.5	76	76
35.0	71	71
37.5	63	63
40.0	53	53
42.5	43	43
45.0	34	33
47.5	26	26
50.0	20	20
52.5	14	14
55.0	10	10
57.5	5	5
60.0	2	2
62.5	1	1
65.0	1	1
67.5	1	1
70.0	1	1
72.5	1	0
75.0	0	0
77.5	1	0
80.0	1	1
82.5	1	1
85.0	1	1
87.5	1	1
90.0	1	1
92.5	1	1
95.0	1	0
97.5	0	0
100.0	0	0
102.5	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-30-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

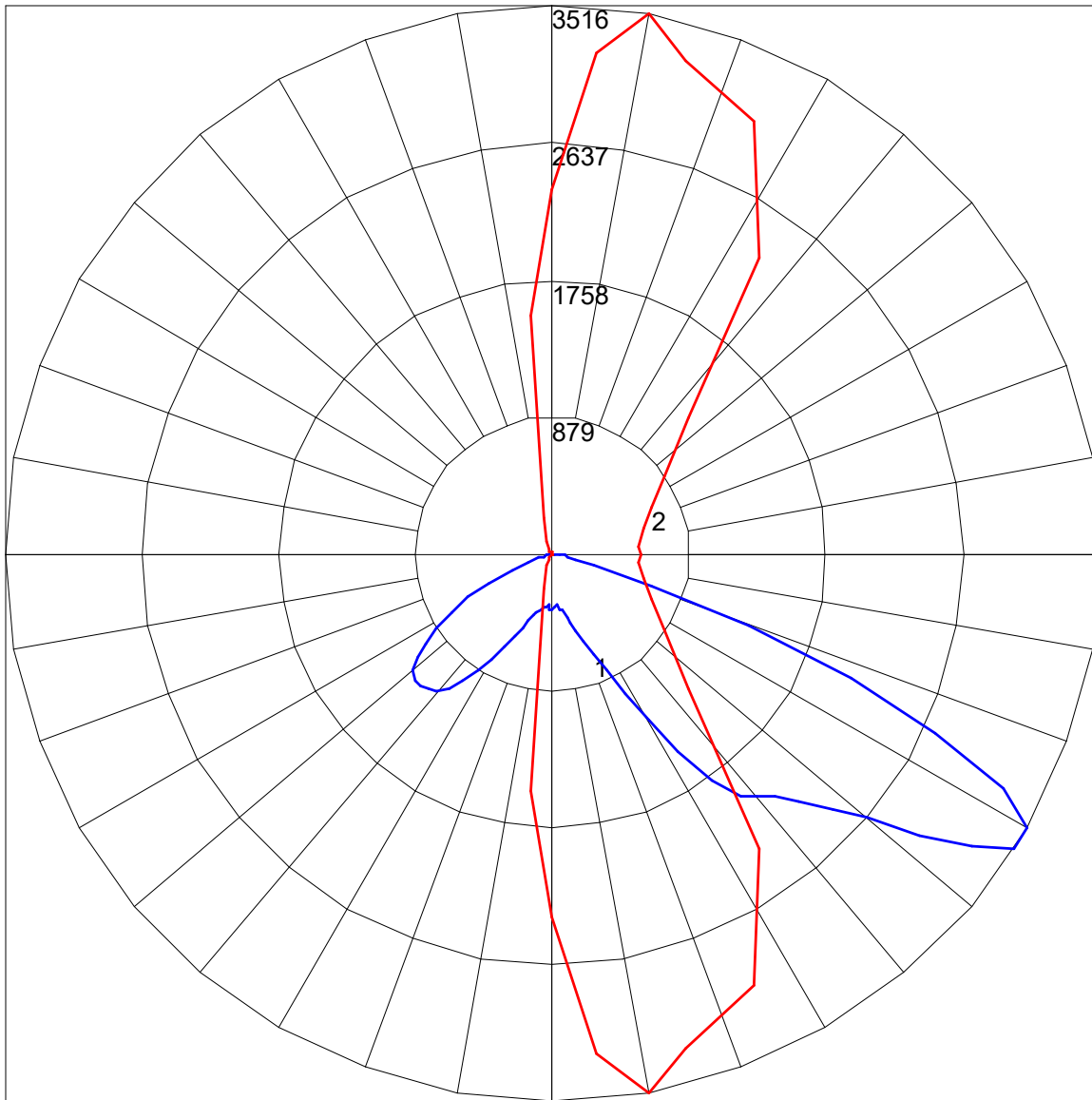
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

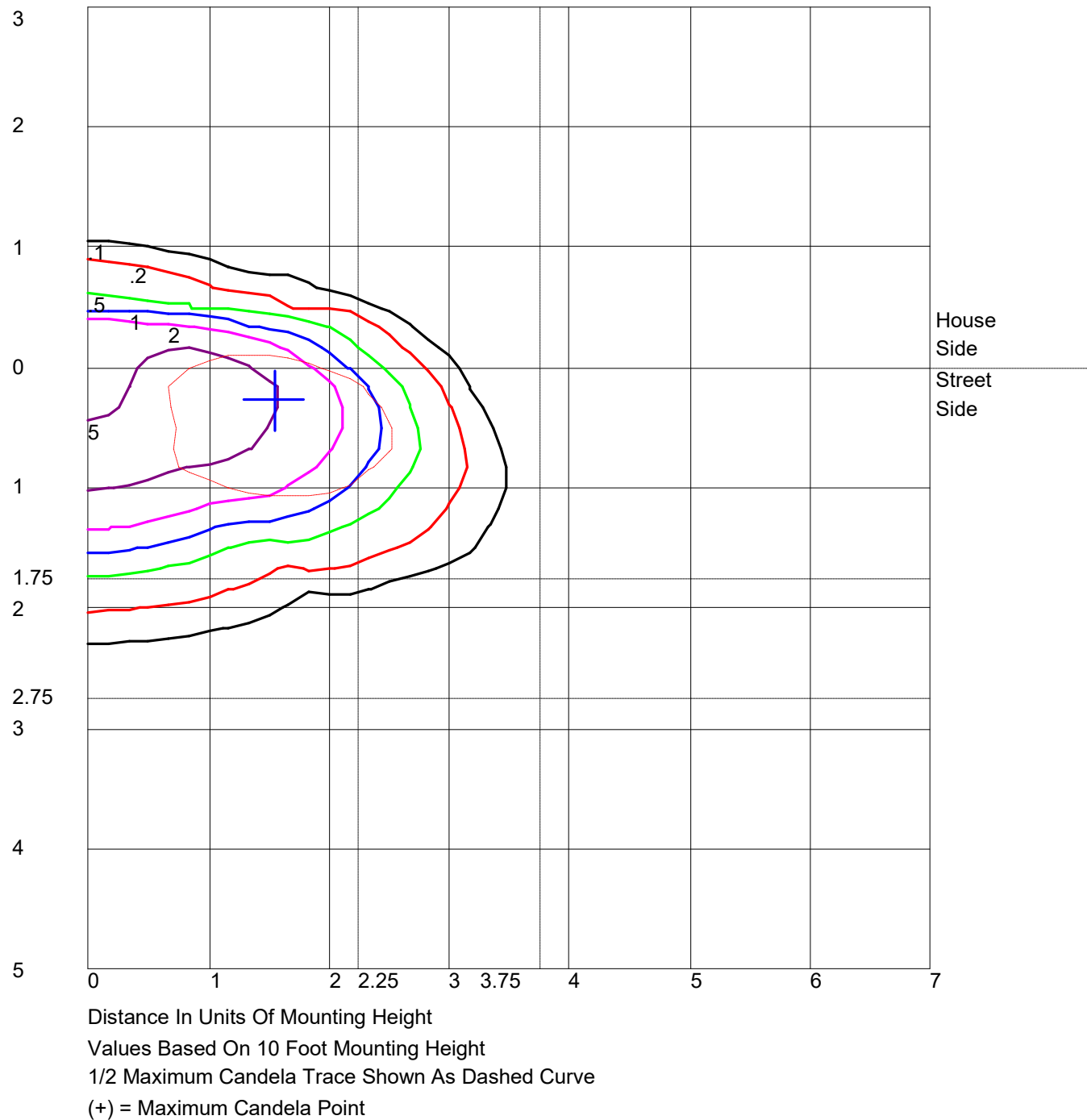
	Lumens	Percent Of Luminaire
Downward Street Side	2852.1	82.9
Downward House Side	582.2	16.9
Downward Total	3434.3	99.9
Upward Street Side	1.5	0.0
Upward House Side	3.3	0.1
Upward Total	4.8	0.1
Total Flux	3439.1	100.0

POLAR GRAPH

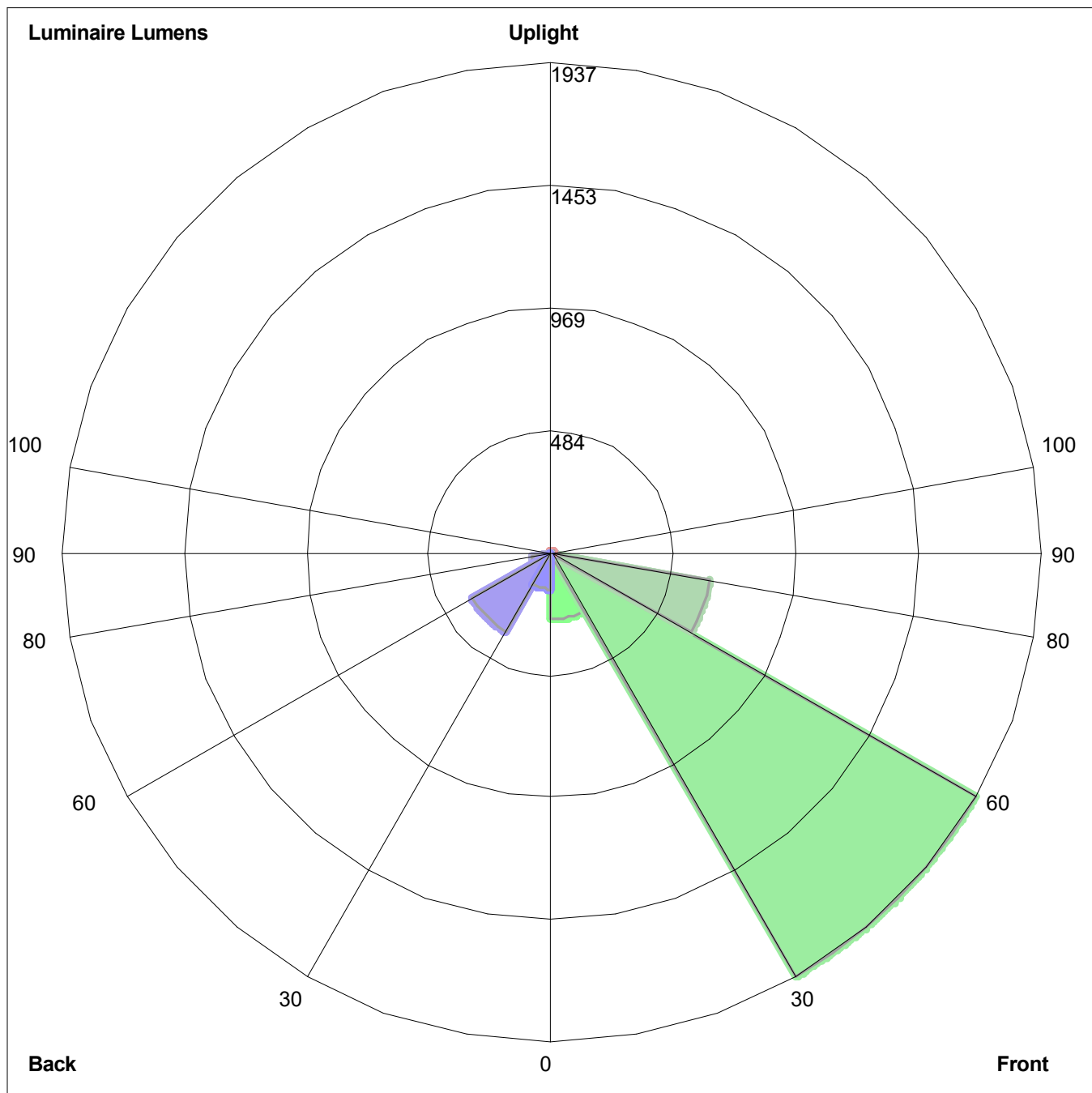


Maximum Candela = 3516 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=265.4, Medium=1937.2, High=636.1, Very High=13.5
Back: Low=144.0, Medium=360.9, High=74.9, Very High=2.6
Uplight: Low=1.2, High=3.7

BUG Rating : B1-U1-G1