



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11760

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/26/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-3-LED-05L-50-IL

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4463
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4891
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	4891
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	10 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	210 (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)	165.7	N.A.	3.7
FM - Front-Medium (30-60)	2646.6	N.A.	59.3
FH - Front-High (60-80)	1160.9	N.A.	26.0
FVH - Front-Very High (80-90)	27.7	N.A.	0.6
BL - Back-Low (0-30)	80.4	N.A.	1.8
BM - Back-Medium (30-60)	303.7	N.A.	6.8
BH - Back-High (60-80)	59.8	N.A.	1.3
BVH - Back-Very High (80-90)	6.5	N.A.	0.1
UL - Uplight-Low (90-100)	3.0	N.A.	0.1
UH - Uplight-High (100-180)	9.2	N.A.	0.2
Total	4463.5	N.A.	100.0
BUG Rating	B1-U1-G1		

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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	216	216	216	216	216	216	216	216	216	216
2.5	213	211	214	211	213	213	215	213	214	213
5.0	215	214	213	213	210	208	205	205	203	202
7.5	207	207	210	209	205	204	206	206	207	207
10.0	206	207	213	202	211	211	221	220	220	218
12.5	224	227	222	220	225	224	230	231	233	229
15.0	239	239	240	243	252	249	251	249	250	254
17.5	254	261	258	267	278	288	277	273	274	277
20.0	297	306	303	302	311	323	330	326	315	311
22.5	344	342	354	362	376	384	405	402	394	370
25.0	433	422	433	455	477	484	515	514	516	465
27.5	598	598	605	602	624	646	680	683	692	615
30.0	786	785	768	801	817	858	892	906	896	800
32.5	1024	1027	983	970	1027	1070	1137	1139	1139	984
35.0	1233	1233	1213	1226	1228	1351	1384	1402	1351	1171
37.5	1561	1553	1493	1448	1478	1552	1606	1608	1545	1293
40.0	1829	1857	1814	1723	1721	1786	1808	1806	1695	1424
42.5	2182	2189	2130	2027	1983	1993	1967	1966	1817	1547
45.0	2547	2557	2497	2370	2282	2245	2150	2119	1951	1689
47.5	2899	2892	2870	2771	2685	2547	2379	2343	2157	1910
50.0	3131	3139	3199	3221	3058	2893	2696	2647	2466	2204
52.5	3128	3190	3378	3570	3576	3343	3214	3147	2906	2550
55.0	2917	2962	3207	3584	3849	3888	3972	3964	3521	2800
57.5	2358	2396	2792	3332	3877	4256	4646	4667	3981	2880
60.0	1524	1567	1979	2725	3617	4299	4871	4891	4073	2768
62.5	816	820	1141	1899	2986	3976	4684	4722	3905	2477
65.0	417	441	581	1095	2085	3277	4183	4265	3419	1945
67.5	244	258	332	567	1268	2222	3276	3385	2575	1246
70.0	168	176	223	369	688	1256	2152	2296	1645	724
72.5	124	130	161	278	456	630	1182	1301	878	313
75.0	84	89	116	218	348	361	514	562	395	152
77.5	60	62	86	181	275	239	230	249	206	96
80.0	46	48	66	142	210	150	125	127	127	71
82.5	37	38	52	113	140	91	74	75	84	55
85.0	25	27	40	81	83	47	45	46	48	38
87.5	16	17	28	46	30	18	17	17	16	18
90.0	4	4	6	10	6	4	3	3	3	3
92.5	1	1	2	2	2	2	2	2	2	2
95.0	1	1	1	2	2	2	2	2	2	2
97.5	1	1	1	2	2	2	2	2	2	1
100.0	1	1	1	2	2	2	2	2	1	1
102.5	1	1	1	2	2	2	2	2	1	1
105.0	1	1	1	2	2	2	2	2	1	1
107.5	1	1	1	2	2	2	2	2	1	1
110.0	1	1	1	2	2	2	2	2	1	1
112.5	1	1	1	2	2	2	2	2	2	2
115.0	1	1	1	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	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-PT-3-LED-05L-50-IL.IES

CANDELA TABULATION - (Cont.)

132.5	2	2	2	2	2	2	2	2	2	2
135.0	2	2	2	2	2	2	2	2	2	2
137.5	1	1	1	1	2	2	1	1	1	2
140.0	0	0	1	1	1	1	1	1	1	1
142.5	0	0	1	1	1	1	1	1	1	1
145.0	0	0	1	1	1	1	1	1	1	1
147.5	0	0	1	1	1	1	1	1	1	1
150.0	0	0	1	1	1	1	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	1	1	1	1	1	1	1	1
157.5	0	0	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	1	1
162.5	0	0	1	1	1	1	1	1	1	1
165.0	0	0	1	1	1	1	1	1	1	1
167.5	0	0	1	1	1	1	1	1	1	1
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	0	1	1	1	1	1	1	1	1
175.0	0	0	1	1	1	1	1	1	1	1
177.5	0	0	1	1	1	1	1	1	1	1
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	216	216	216	216	216	216	216	216	216	216
2.5	214	215	215	215	217	220	218	218	216	217
5.0	205	206	207	202	209	214	213	209	209	209
7.5	204	206	206	209	208	205	200	195	191	195
10.0	214	210	209	222	210	203	187	181	166	164
12.5	225	222	222	222	209	198	175	153	144	138
15.0	236	230	230	230	213	185	157	142	132	126
17.5	254	246	251	233	206	165	150	138	131	124
20.0	280	268	261	242	193	158	144	139	133	124
22.5	335	314	302	259	189	158	146	141	137	127
25.0	408	377	351	275	197	170	146	143	152	149
27.5	523	462	426	292	217	184	149	150	181	191
30.0	654	573	497	305	228	192	156	162	225	239
32.5	771	667	554	315	230	197	161	180	264	304
35.0	888	739	603	319	225	198	168	183	315	378
37.5	985	816	639	325	216	195	165	185	378	471
40.0	1086	883	684	329	207	186	163	180	441	470
42.5	1198	960	728	333	197	176	154	169	473	372
45.0	1356	1079	794	345	186	163	140	155	384	281
47.5	1583	1231	870	357	173	144	125	139	252	210
50.0	1816	1402	957	361	156	116	101	120	143	160
52.5	2024	1527	1022	354	130	86	73	91	93	127
55.0	2122	1562	1002	325	102	64	54	61	65	103
57.5	2091	1473	885	276	83	54	45	44	44	83
60.0	1920	1281	696	215	70	48	38	34	34	67
62.5	1601	1001	475	155	61	42	31	25	25	54
65.0	1081	671	292	106	50	35	26	20	19	46
67.5	620	392	177	72	41	27	20	16	14	37
70.0	283	200	101	51	32	22	15	13	10	28
72.5	120	103	70	43	26	18	13	10	7	21
75.0	75	70	58	39	22	16	10	7	4	16
77.5	57	54	49	36	19	14	9	6	3	12

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CANDELA TABULATION - (Cont.)

80.0	50	46	41	31	17	13	8	5	2	9
82.5	38	35	32	26	16	12	8	5	2	7
85.0	23	22	24	19	13	10	8	4	2	6
87.5	12	10	13	13	10	9	7	4	2	5
90.0	2	2	4	7	8	8	6	4	1	3
92.5	2	1	3	6	7	7	5	3	1	1
95.0	2	1	3	5	6	6	5	3	1	1
97.5	2	1	2	4	5	5	4	3	1	1
100.0	2	1	2	3	4	4	3	3	1	1
102.5	2	2	2	3	3	3	3	2	1	1
105.0	2	2	2	3	3	3	3	2	2	1
107.5	2	2	2	3	3	3	3	2	2	1
110.0	2	2	2	3	3	3	3	2	2	1
112.5	2	2	2	3	3	3	3	2	2	1
115.0	2	2	2	3	3	3	3	3	2	1
117.5	2	2	2	3	3	3	3	3	2	1
120.0	2	2	2	3	3	3	3	3	2	2
122.5	2	2	2	3	3	3	3	3	2	2
125.0	2	2	3	3	3	3	3	3	2	2
127.5	2	2	3	3	3	3	3	3	2	2
130.0	2	2	3	3	3	3	3	3	2	2
132.5	2	2	3	3	3	3	3	3	2	2
135.0	2	2	2	3	3	3	3	3	2	2
137.5	2	2	2	2	2	3	3	2	2	1
140.0	2	2	2	2	2	2	2	2	2	1
142.5	1	2	2	2	2	2	2	2	1	1
145.0	1	2	2	2	2	2	2	2	1	1
147.5	1	2	2	2	2	2	2	2	1	1
150.0	1	2	2	2	2	2	2	2	1	1
152.5	1	1	2	2	2	2	2	2	1	1
155.0	1	1	2	2	2	2	2	1	1	1
157.5	1	1	1	2	2	2	2	1	1	0
160.0	1	1	1	1	2	1	1	1	1	0
162.5	1	1	1	1	1	1	1	1	1	0
165.0	1	1	1	1	1	1	1	1	0	0
167.5	1	1	1	1	1	1	1	1	0	0
170.0	1	1	1	1	1	1	1	1	0	0
172.5	1	1	1	1	1	1	1	1	0	0
175.0	1	1	1	1	1	1	1	1	0	0
177.5	1	1	1	1	1	1	1	1	0	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	216	216
2.5	218	218
5.0	207	207
7.5	191	188
10.0	158	159
12.5	138	137
15.0	127	125
17.5	121	120
20.0	120	118
22.5	118	115
25.0	129	124

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CANDELA TABULATION - (Cont.)

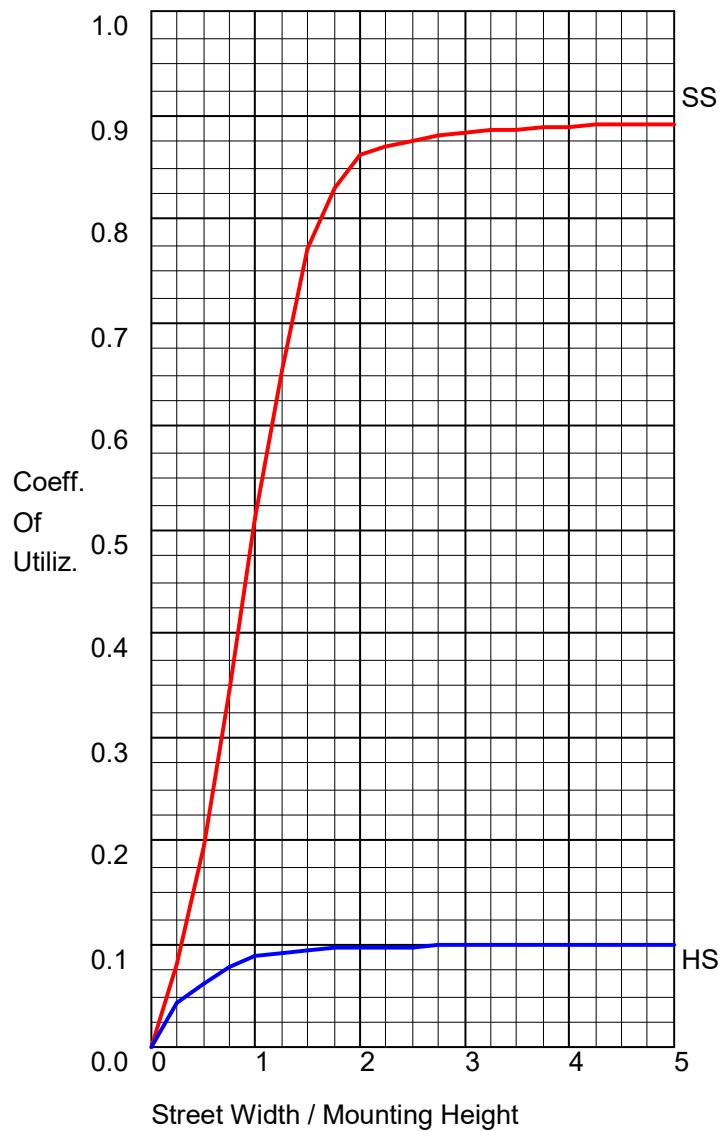
27.5	152	146
30.0	187	181
32.5	238	227
35.0	294	282
37.5	300	280
40.0	241	216
42.5	180	155
45.0	133	119
47.5	108	95
50.0	93	75
52.5	86	65
55.0	84	62
57.5	86	63
60.0	90	70
62.5	93	79
65.0	95	86
67.5	90	86
70.0	80	82
72.5	70	71
75.0	54	58
77.5	43	47
80.0	35	39
82.5	28	31
85.0	22	24
87.5	17	18
90.0	7	8
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	0	0
112.5	1	0
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	1	1
137.5	1	1
140.0	0	0
142.5	0	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
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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	1	1

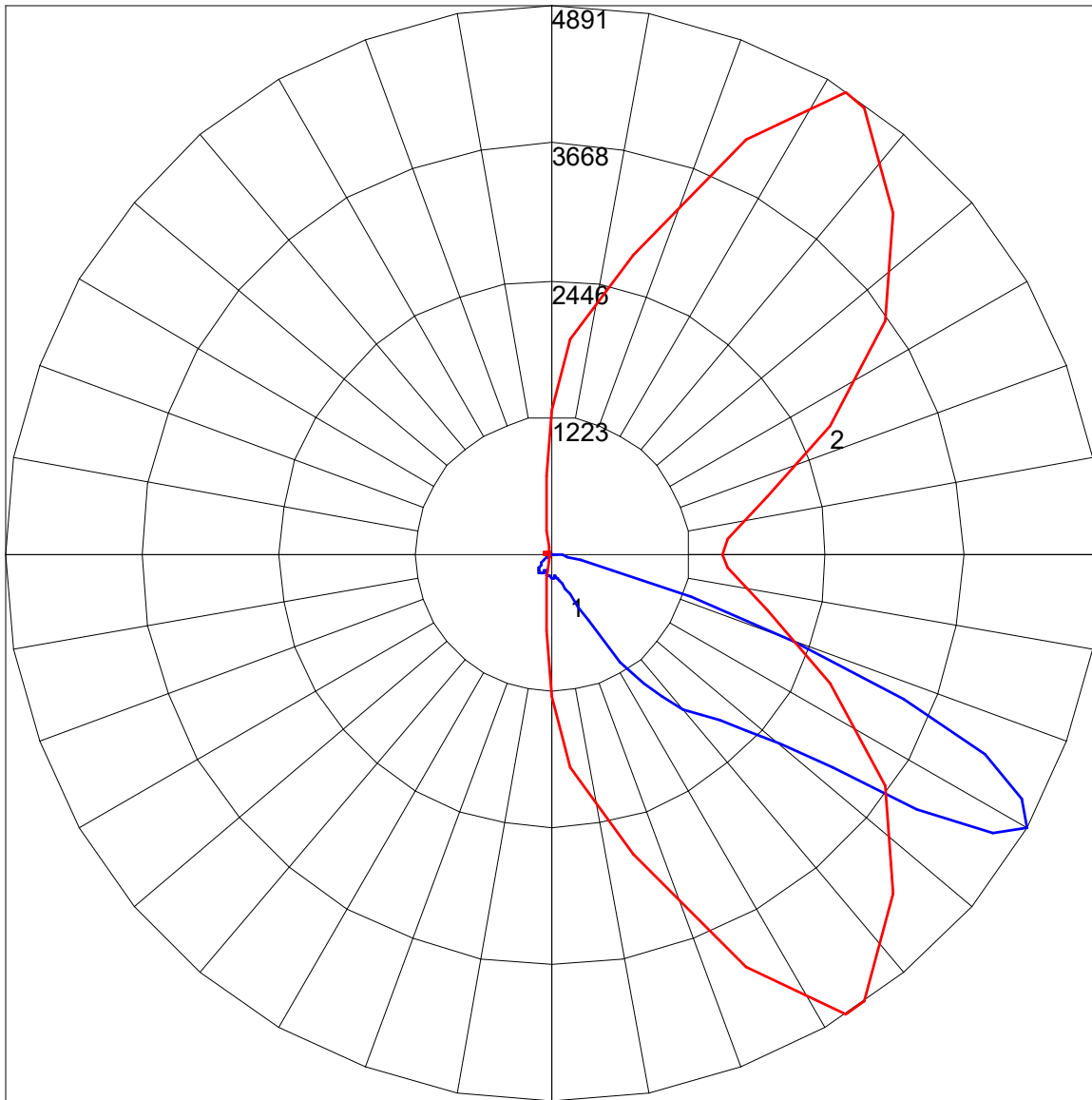
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

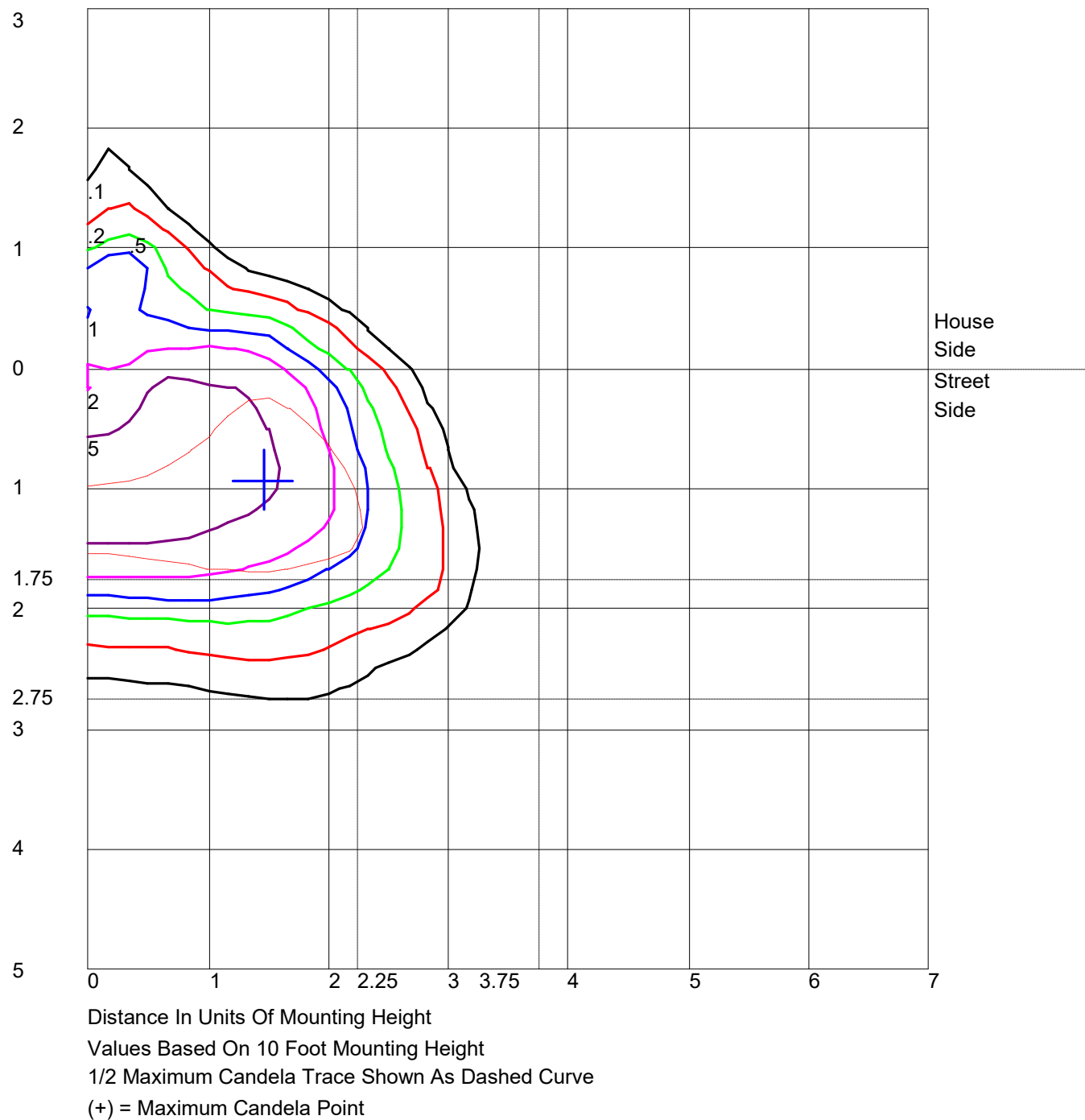
	Lumens	Percent Of Luminaire
Downward Street Side	4000.8	89.6
Downward House Side	450.4	10.1
Downward Total	4451.2	99.7
Upward Street Side	5.1	0.1
Upward House Side	7.1	0.2
Upward Total	12.2	0.3
Total Flux	4463.4	100.0

POLAR GRAPH

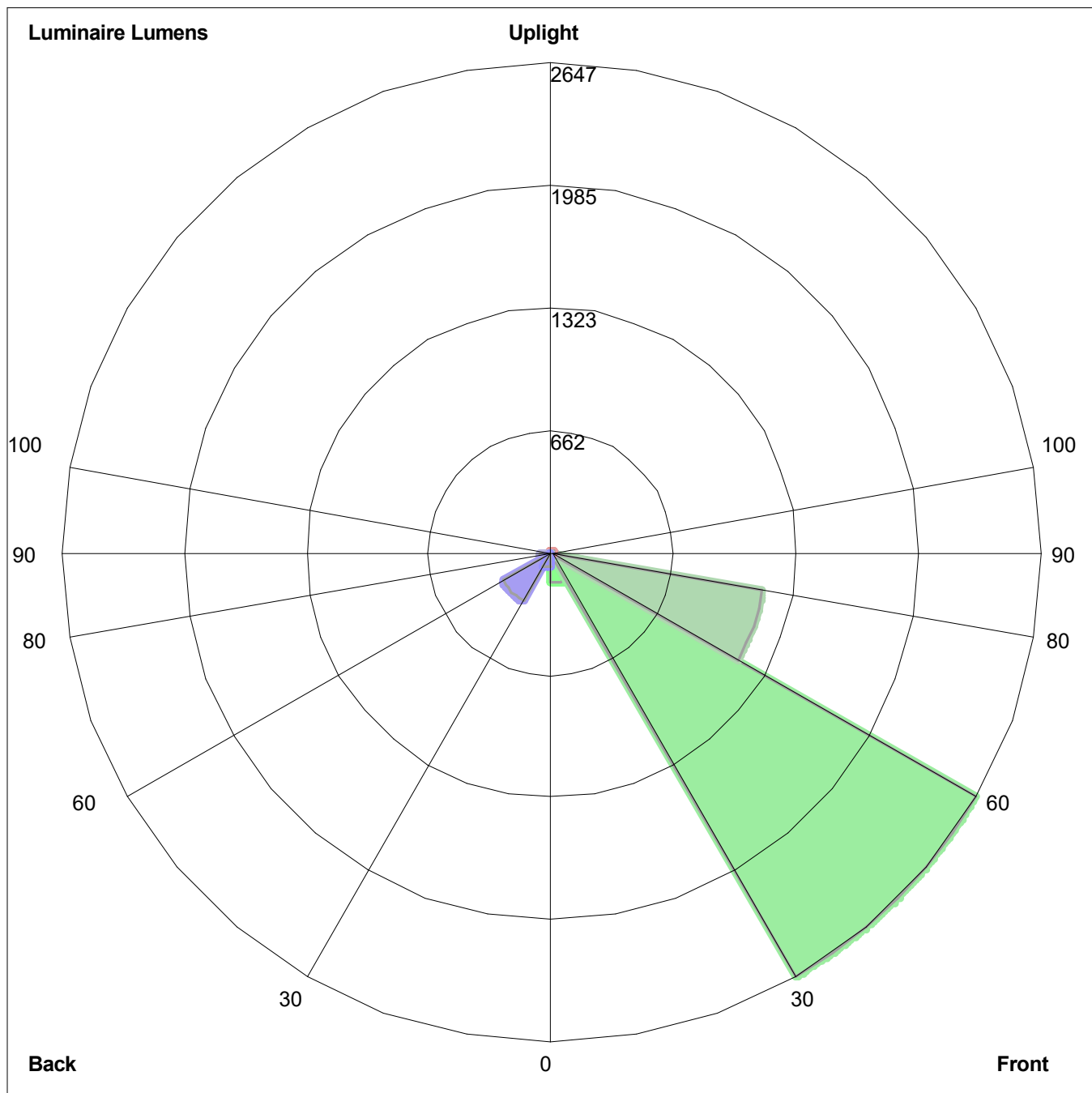


Maximum Candela = 4891 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=165.7, Medium=2646.6, High=1160.9, Very High=27.7
Back: Low=80.4, Medium=303.7, High=59.8, Very High=6.5
Uplight: Low=3.0, High=9.2

BUG Rating : B1-U1-G1