



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-05L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11752

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/24/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-5W-LED-05L-40-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3128
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2251
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	2251
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	4 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	101 (3.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	174.9	N.A.	5.6
FM - Front-Medium (30-60)	1418.7	N.A.	45.4
FH - Front-High (60-80)	913.2	N.A.	29.2
FVH - Front-Very High (80-90)	11.3	N.A.	0.4
BL - Back-Low (0-30)	99.3	N.A.	3.2
BM - Back-Medium (30-60)	371.8	N.A.	11.9
BH - Back-High (60-80)	130.4	N.A.	4.2
BVH - Back-Very High (80-90)	2.1	N.A.	0.1
UL - Uplight-Low (90-100)	1.6	N.A.	0.1
UH - Uplight-High (100-180)	4.9	N.A.	0.2
Total	3128.2	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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	182	182	182	182	182	182	182	182	182	182
2.5	186	187	189	190	188	187	188	187	184	183
5.0	186	190	192	192	197	186	186	185	181	177
7.5	195	198	205	189	192	187	188	188	196	193
10.0	215	214	223	202	210	213	218	211	205	208
12.5	247	258	241	238	249	242	245	243	233	229
15.0	280	294	283	296	301	286	288	288	273	264
17.5	315	327	320	334	345	356	355	334	322	315
20.0	383	388	380	390	405	414	411	407	378	359
22.5	436	436	448	467	471	479	491	488	447	422
25.0	498	484	511	540	566	561	566	569	525	475
27.5	574	600	625	616	652	667	668	652	603	554
30.0	679	664	681	728	730	775	784	754	700	629
32.5	811	813	794	799	854	871	868	872	808	719
35.0	934	918	900	923	940	987	962	981	902	830
37.5	1045	1056	1018	1016	1054	1085	1063	1084	1006	883
40.0	1135	1146	1126	1131	1154	1173	1167	1175	1098	985
42.5	1205	1209	1196	1199	1234	1237	1239	1254	1169	1046
45.0	1263	1264	1252	1272	1305	1319	1325	1310	1229	1097
47.5	1310	1320	1320	1330	1364	1378	1374	1365	1285	1161
50.0	1353	1370	1380	1372	1409	1425	1422	1421	1345	1237
52.5	1400	1407	1429	1412	1457	1480	1485	1482	1415	1296
55.0	1443	1463	1489	1490	1522	1582	1592	1590	1511	1380
57.5	1510	1525	1566	1577	1648	1736	1743	1720	1576	1422
60.0	1505	1517	1590	1632	1742	1875	1871	1829	1607	1441
62.5	1347	1378	1501	1611	1812	2007	1997	1922	1622	1425
65.0	1060	1096	1257	1437	1809	2138	2117	1984	1593	1381
67.5	579	623	808	1103	1596	2225	2251	2054	1582	1297
70.0	124	129	216	556	1147	1957	2060	1893	1319	968
72.5	57	59	71	126	437	1267	1401	1312	860	578
75.0	36	36	40	52	107	438	594	632	429	262
77.5	19	19	21	27	45	92	117	225	205	123
80.0	13	13	14	16	22	34	38	64	101	70
82.5	12	12	12	13	16	19	21	28	52	55
85.0	9	9	10	11	13	16	17	20	29	45
87.5	6	6	7	7	9	11	11	14	20	26
90.0	3	3	3	3	3	3	3	2	2	4
92.5	1	1	1	1	1	1	1	1	1	1
95.0	0	0	0	0	1	1	1	1	1	1
97.5	0	0	0	0	1	1	1	1	1	1
100.0	0	0	0	0	1	1	1	1	1	1
102.5	0	0	0	0	0	1	1	1	1	1
105.0	0	1	0	0	1	1	1	1	1	1
107.5	1	1	0	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1	1	1	1
112.5	1	1	1	1	1	1	1	1	1	1
115.0	1	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	2	2	1	1	1	1	1	1	1	1
127.5	2	2	2	1	1	1	1	1	1	1
130.0	2	2	2	1	1	1	1	1	1	1

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CANDELA TABULATION - (Cont.)

132.5	2	2	2	1	1	1	1	1	1	1
135.0	2	2	1	1	1	1	1	1	1	1
137.5	1	1	1	1	1	1	1	1	1	1
140.0	0	0	0	0	0	0	0	0	0	1
142.5	0	0	0	0	0	0	0	0	0	1
145.0	0	0	0	0	0	0	0	0	0	1
147.5	0	0	0	0	0	0	0	0	0	1
150.0	0	0	0	0	0	0	0	0	0	1
152.5	0	0	0	0	0	0	0	0	0	1
155.0	0	0	0	0	0	0	0	0	0	1
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>85.0</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	182	182	182	182	182	182	182	182	182	182
2.5	182	181	182	181	180	178	179	179	178	176
5.0	176	175	171	170	172	171	166	167	164	161
7.5	183	185	180	180	171	161	152	154	148	151
10.0	195	190	186	190	166	162	153	148	144	146
12.5	215	212	207	194	173	164	158	160	159	164
15.0	239	233	223	204	182	177	180	183	181	177
17.5	277	263	251	224	199	202	207	201	192	191
20.0	320	304	289	251	228	233	229	219	213	205
22.5	384	349	330	284	267	269	255	244	225	215
25.0	429	403	373	315	324	306	286	260	241	206
27.5	488	452	425	365	380	346	313	275	224	171
30.0	563	513	479	429	441	404	358	260	172	119
32.5	617	578	532	501	505	465	367	198	112	80
35.0	703	640	597	577	574	525	327	132	75	60
37.5	777	719	672	664	646	546	237	87	56	49
40.0	829	775	725	751	723	499	152	63	47	42
42.5	889	829	776	821	783	390	94	52	40	36
45.0	956	895	841	897	807	251	67	43	35	30
47.5	1010	954	908	978	761	153	52	36	29	24
50.0	1087	1031	987	1066	637	101	41	30	24	18
52.5	1161	1118	1076	1162	464	71	34	25	18	13
55.0	1234	1194	1189	1241	296	50	28	18	13	9
57.5	1287	1221	1258	1235	200	36	22	13	9	5
60.0	1308	1230	1277	1096	162	28	17	9	5	2
62.5	1281	1211	1273	860	152	26	12	5	3	1
65.0	1225	1162	1225	565	153	34	8	3	2	1
67.5	1114	1060	1126	316	149	48	6	2	2	1
70.0	808	765	806	155	115	63	6	2	2	1
72.5	455	423	449	56	49	61	5	3	2	1
75.0	198	180	187	31	21	25	4	2	1	0
77.5	87	79	77	19	10	12	3	2	0	0

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CANDELA TABULATION - (Cont.)

80.0	53	46	38	11	7	6	2	2	0	0
82.5	40	34	24	7	5	4	2	2	0	0
85.0	29	22	13	4	4	4	2	2	0	0
87.5	17	9	4	3	4	3	3	2	0	0
90.0	3	1	3	3	4	4	3	2	0	0
92.5	1	1	2	3	4	4	3	2	0	1
95.0	1	1	2	3	4	4	3	2	0	1
97.5	1	1	2	2	3	3	2	2	0	1
100.0	1	1	1	2	2	2	2	1	1	0
102.5	1	1	1	2	2	2	2	1	1	0
105.0	1	1	1	1	2	2	1	1	1	0
107.5	1	1	1	1	2	2	1	1	1	1
110.0	1	1	1	1	2	2	1	1	1	1
112.5	1	1	1	1	2	2	1	1	1	1
115.0	1	1	1	2	2	2	1	1	1	1
117.5	1	1	1	2	2	2	1	1	1	1
120.0	1	1	1	2	2	2	2	1	1	1
122.5	1	1	2	2	2	2	2	1	1	1
125.0	1	2	2	2	2	2	2	2	1	1
127.5	2	2	2	2	2	2	2	2	1	1
130.0	2	2	2	2	2	2	2	2	1	1
132.5	2	2	2	2	2	2	2	1	1	1
135.0	1	2	2	2	2	2	2	1	1	1
137.5	1	1	1	1	1	1	1	1	1	1
140.0	1	1	1	1	1	1	1	1	1	0
142.5	1	1	1	1	1	1	1	1	1	0
145.0	1	1	1	1	1	1	1	1	1	0
147.5	1	1	1	1	1	1	1	1	0	0
150.0	1	1	1	1	1	1	1	1	0	0
152.5	1	1	1	1	1	1	1	1	0	0
155.0	1	1	1	1	1	1	1	1	0	0
157.5	1	1	1	1	1	1	1	1	0	0
160.0	1	1	1	1	1	1	1	0	0	0
162.5	0	1	1	1	1	1	1	0	0	0
165.0	0	0	1	1	1	1	1	0	0	0
167.5	0	0	0	1	1	1	1	0	0	0
170.0	0	0	0	1	1	1	0	0	0	0
172.5	0	0	0	1	1	1	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. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	182	182
2.5	174	173
5.0	157	157
7.5	148	146
10.0	148	142
12.5	165	162
15.0	181	173
17.5	192	184
20.0	205	195
22.5	203	198
25.0	187	183

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CANDELA TABULATION - (Cont.)

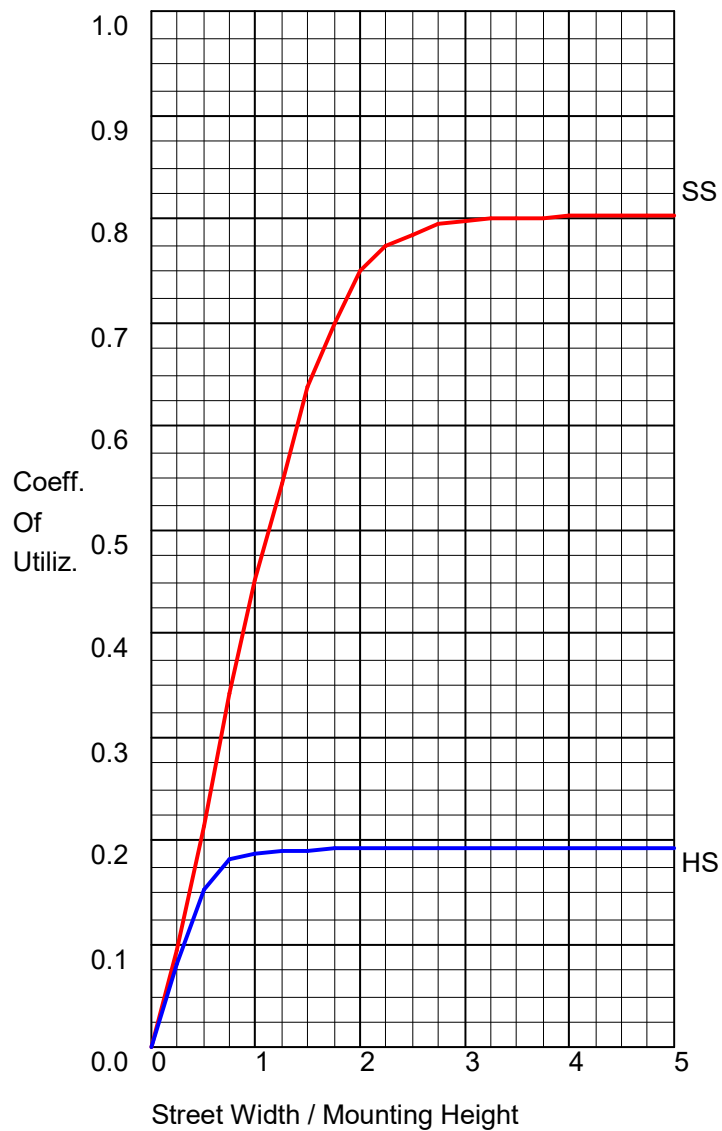
27.5	146	140
30.0	99	96
32.5	71	69
35.0	55	55
37.5	47	47
40.0	40	41
42.5	34	35
45.0	28	28
47.5	22	22
50.0	16	16
52.5	11	11
55.0	7	7
57.5	3	3
60.0	1	1
62.5	0	0
65.0	0	0
67.5	1	0
70.0	1	1
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	0	0
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	1	1
130.0	1	1
132.5	1	1
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

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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	0	0

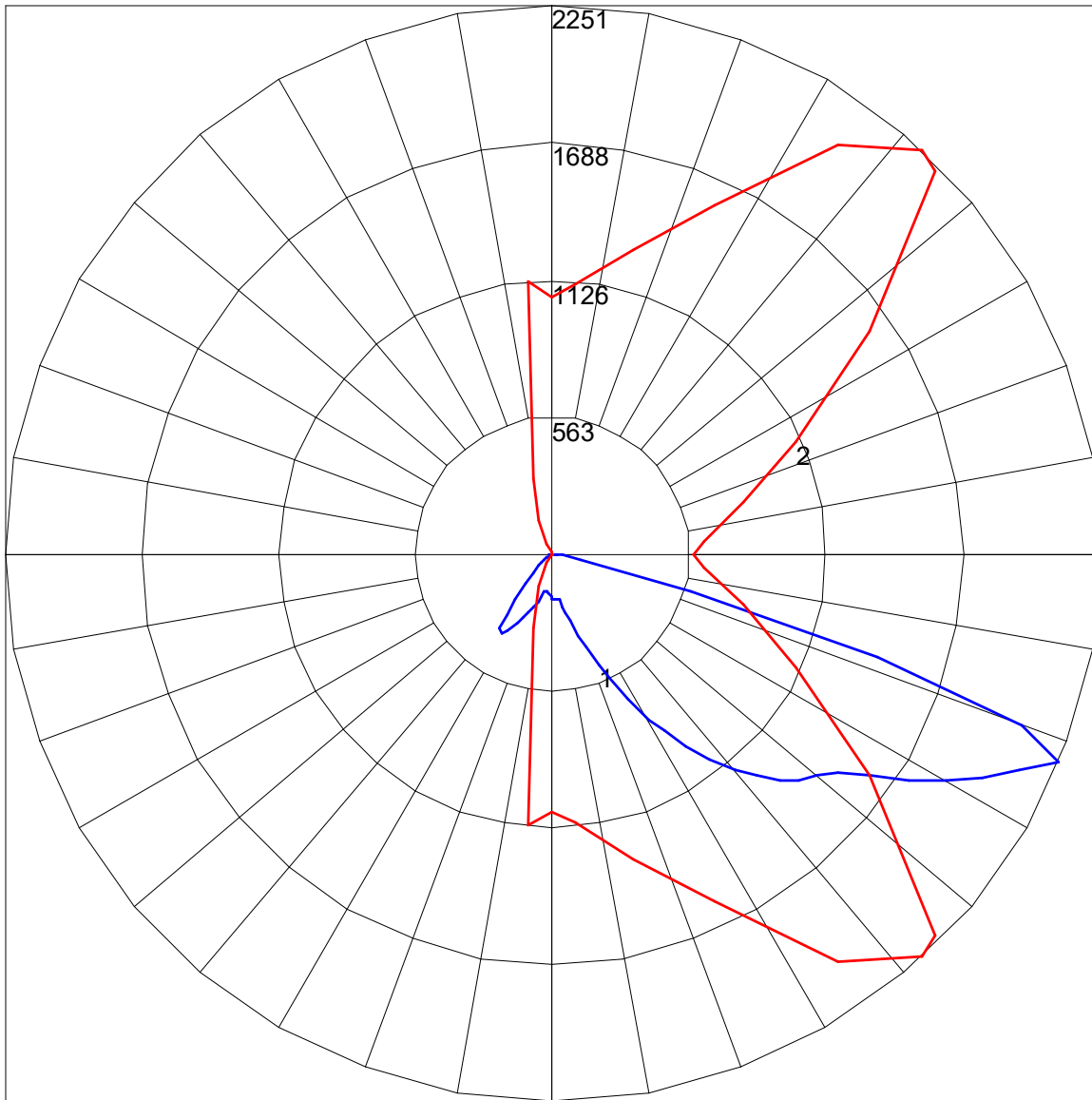
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

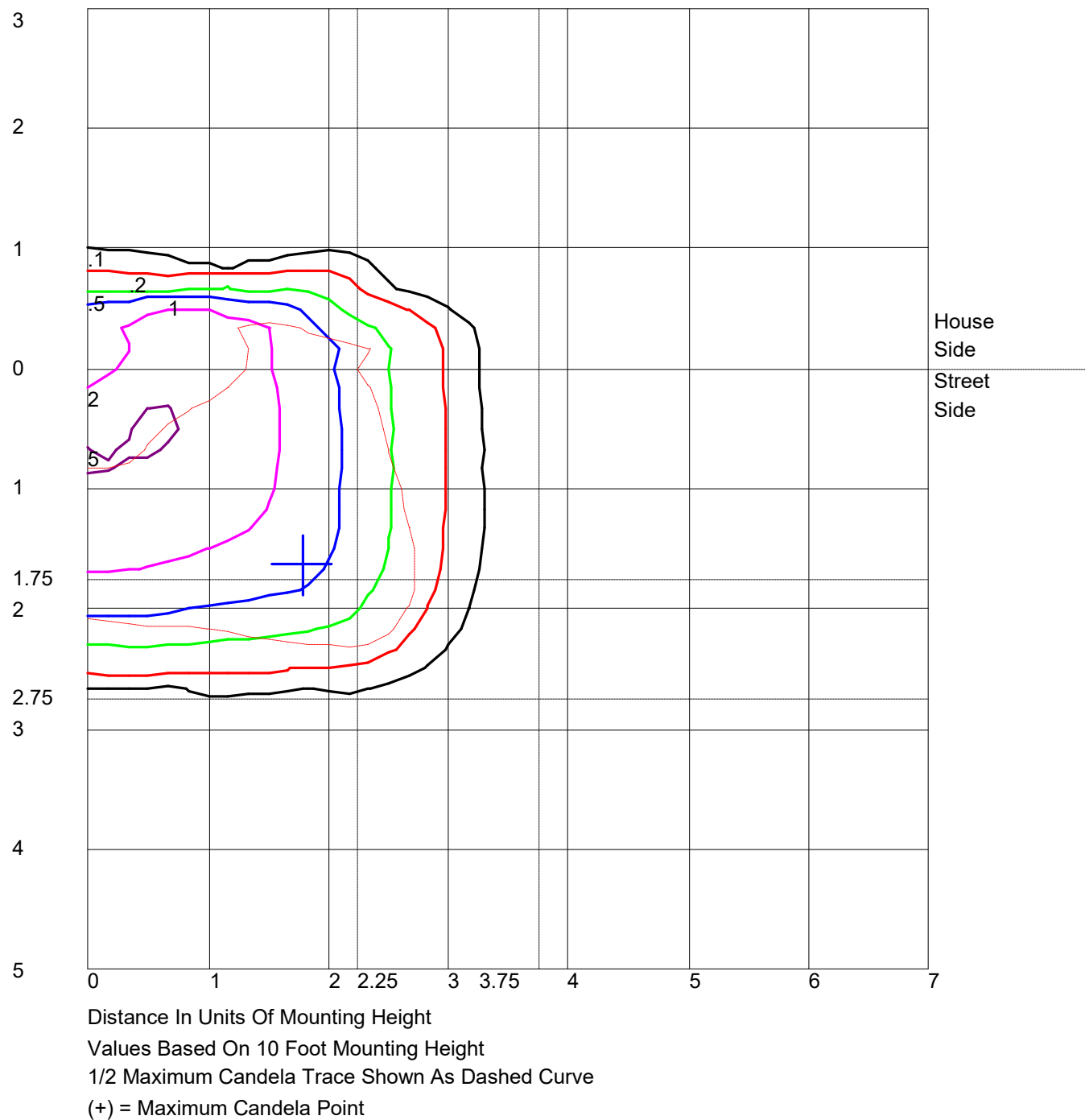
	Lumens	Percent Of Luminaire
Downward Street Side	2518.1	80.5
Downward House Side	603.7	19.3
Downward Total	3121.8	99.8
Upward Street Side	2.5	0.1
Upward House Side	3.9	0.1
Upward Total	6.4	0.2
Total Flux	3128.2	100.0

POLAR GRAPH

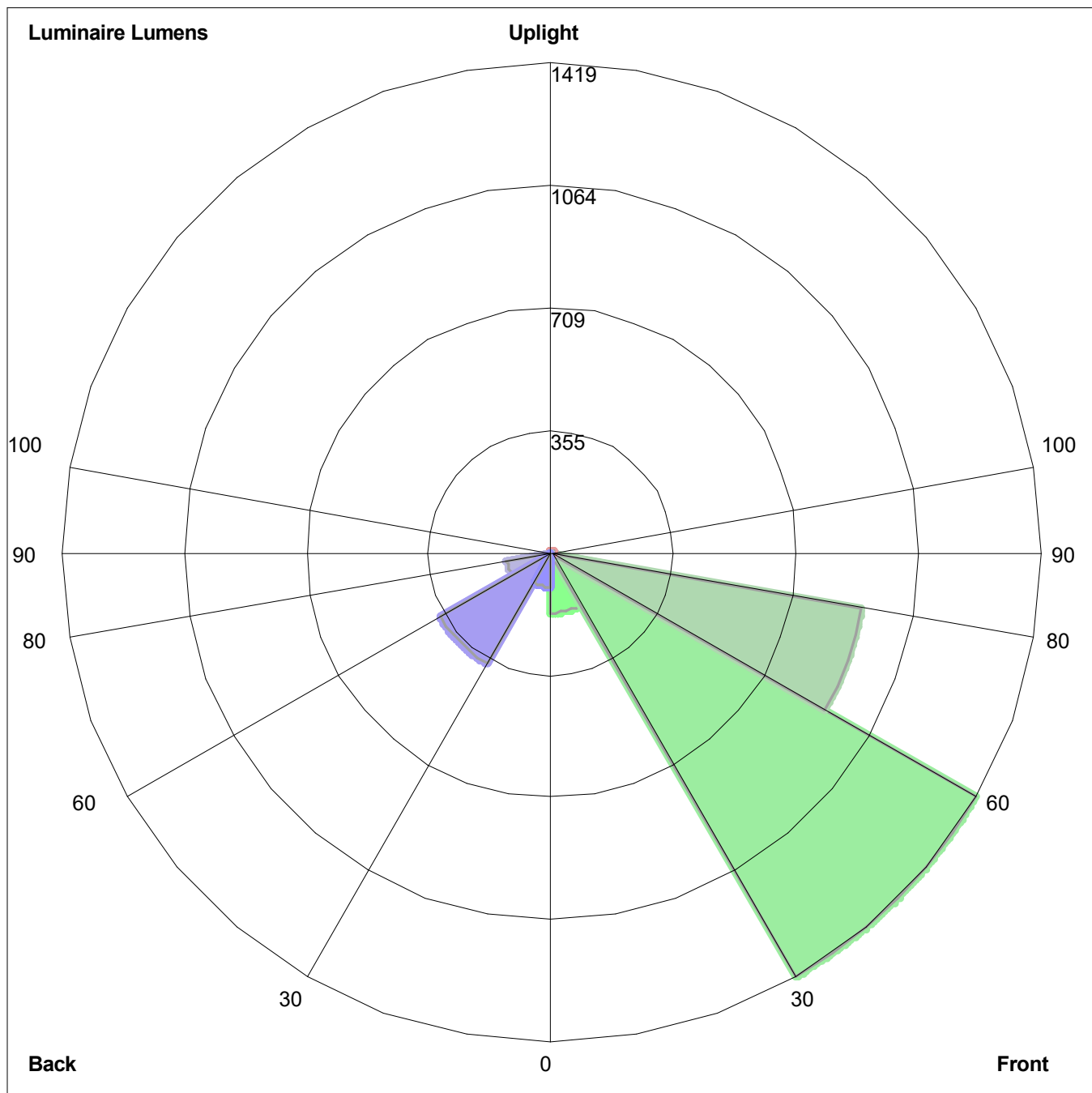


Maximum Candela = 2251 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=174.9, Medium=1418.7, High=913.2, Very High=11.3
Back: Low=99.3, Medium=371.8, High=130.4, Very High=2.1
Uplight: Low=1.6, High=4.9

BUG Rating : B1-U1-G1