



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-05L-30-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-30-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	2831
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2037
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	2037
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	91 (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)	158.2	N.A.	5.6
FM - Front-Medium (30-60)	1283.8	N.A.	45.3
FH - Front-High (60-80)	826.4	N.A.	29.2
FVH - Front-Very High (80-90)	10.2	N.A.	0.4
BL - Back-Low (0-30)	89.9	N.A.	3.2
BM - Back-Medium (30-60)	336.4	N.A.	11.9
BH - Back-High (60-80)	118.1	N.A.	4.2
BVH - Back-Very High (80-90)	2.0	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	2831.5	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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	165	165	165	165	165	165	165	165	165	165
2.5	168	169	171	172	170	169	170	169	167	166
5.0	168	172	174	174	178	168	168	167	164	160
7.5	176	179	186	171	174	169	170	170	177	175
10.0	195	194	202	183	190	193	197	191	186	188
12.5	224	233	218	215	225	219	222	220	211	207
15.0	253	266	256	268	272	259	261	261	247	239
17.5	285	296	290	302	312	322	321	302	291	285
20.0	347	351	344	353	366	375	372	368	342	325
22.5	395	395	405	423	426	433	444	442	404	382
25.0	451	438	462	489	512	508	512	515	475	430
27.5	519	543	566	557	590	604	604	590	546	501
30.0	614	601	616	659	661	701	709	682	633	569
32.5	734	736	718	723	773	788	785	789	731	651
35.0	845	831	814	835	851	893	871	888	816	751
37.5	946	956	921	919	954	982	962	981	910	799
40.0	1027	1037	1019	1023	1044	1061	1056	1063	994	891
42.5	1090	1094	1082	1085	1117	1119	1121	1135	1058	947
45.0	1143	1144	1133	1151	1181	1194	1199	1185	1112	993
47.5	1185	1194	1194	1204	1234	1247	1243	1235	1163	1051
50.0	1224	1240	1249	1242	1275	1289	1287	1286	1217	1119
52.5	1267	1273	1293	1278	1318	1339	1344	1341	1280	1173
55.0	1306	1324	1347	1348	1377	1432	1441	1439	1367	1249
57.5	1366	1380	1417	1427	1491	1571	1577	1556	1426	1287
60.0	1362	1373	1439	1477	1576	1697	1693	1655	1454	1304
62.5	1219	1247	1358	1458	1640	1816	1807	1739	1468	1289
65.0	959	992	1137	1300	1637	1935	1916	1795	1442	1250
67.5	524	564	731	998	1444	2013	2037	1859	1432	1174
70.0	112	117	195	503	1038	1771	1864	1713	1194	876
72.5	52	53	64	114	395	1147	1268	1187	778	523
75.0	33	33	36	47	97	396	538	572	388	237
77.5	17	17	19	24	41	83	106	204	186	111
80.0	12	12	13	14	20	31	34	58	91	63
82.5	11	11	11	12	14	17	19	25	47	50
85.0	8	8	9	10	12	14	15	18	26	41
87.5	5	5	6	6	8	10	10	13	18	24
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	165	165	165	165	165	165	165	165	165	165
2.5	165	164	165	164	163	161	162	162	161	159
5.0	159	158	155	154	156	155	150	151	148	146
7.5	166	167	163	163	155	146	138	139	134	137
10.0	176	172	168	172	150	147	138	134	130	132
12.5	195	192	187	176	157	148	143	145	144	148
15.0	216	211	202	185	165	160	163	166	164	160
17.5	251	238	227	203	180	183	187	182	174	173
20.0	290	275	262	227	206	211	207	198	193	186
22.5	347	316	299	257	242	243	231	221	204	195
25.0	388	365	338	285	293	277	259	235	218	186
27.5	442	409	385	330	344	313	283	249	203	155
30.0	509	464	433	388	399	366	324	235	156	108
32.5	558	523	481	453	457	421	332	179	101	72
35.0	636	579	540	522	519	475	296	119	68	54
37.5	703	651	608	601	585	494	214	79	51	44
40.0	750	701	656	680	654	452	138	57	43	38
42.5	804	750	702	743	709	353	85	47	36	33
45.0	865	810	761	812	730	227	61	39	32	27
47.5	914	863	822	885	689	138	47	33	26	22
50.0	984	933	893	965	576	91	37	27	22	16
52.5	1051	1012	974	1051	420	64	31	23	16	12
55.0	1117	1080	1076	1123	268	45	25	16	12	8
57.5	1165	1105	1138	1118	181	33	20	12	8	5
60.0	1184	1113	1156	992	147	25	15	8	5	2
62.5	1159	1096	1152	778	138	24	11	5	3	1
65.0	1109	1051	1109	511	138	31	7	3	2	1
67.5	1008	959	1019	286	135	43	5	2	2	1
70.0	731	692	729	140	104	57	5	2	2	1
72.5	412	383	406	51	44	55	5	3	2	1
75.0	179	163	169	28	19	23	4	2	1	0
77.5	79	71	70	17	9	11	3	2	0	0

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CANDELA TABULATION - (Cont.)

80.0	48	42	34	10	6	5	2	2	0	0
82.5	36	31	22	6	5	4	2	2	0	0
85.0	26	20	12	4	4	4	2	2	0	0
87.5	15	8	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	165	165
2.5	157	157
5.0	142	142
7.5	134	132
10.0	134	128
12.5	149	147
15.0	164	157
17.5	174	167
20.0	186	176
22.5	184	179
25.0	169	166

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CANDELA TABULATION - (Cont.)

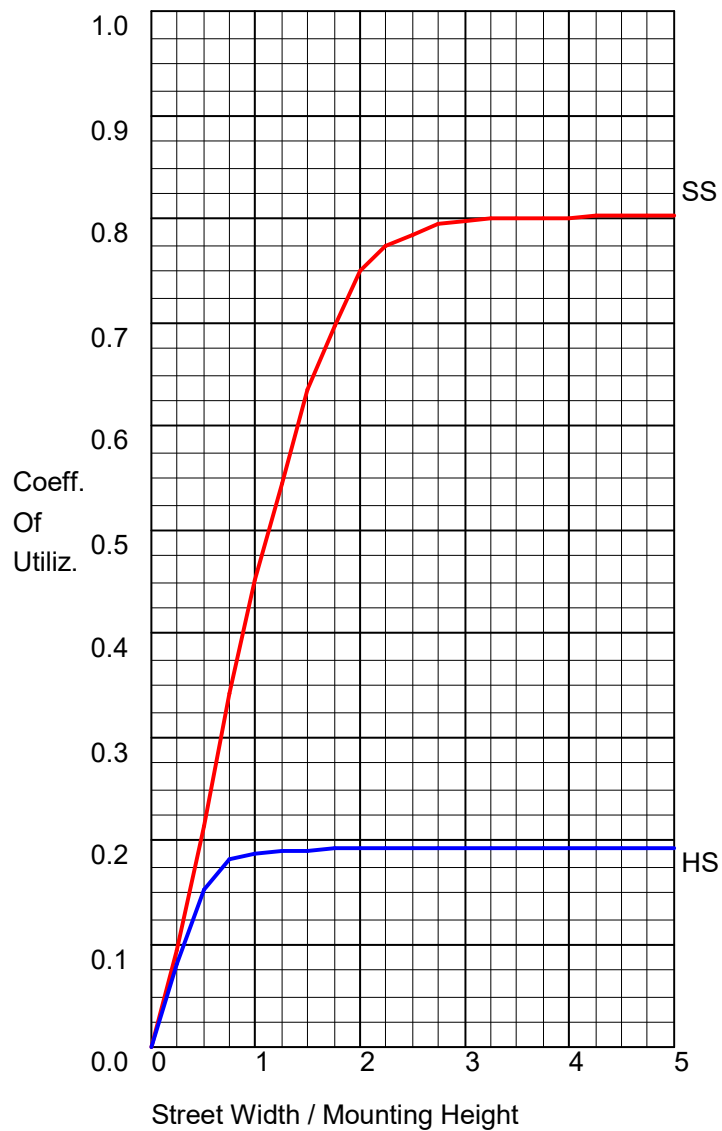
27.5	132	127
30.0	90	87
32.5	64	62
35.0	50	50
37.5	43	43
40.0	36	37
42.5	31	32
45.0	25	25
47.5	20	20
50.0	14	14
52.5	10	10
55.0	6	6
57.5	3	3
60.0	1	1
62.5	0	0
65.0	0	0
67.5	1	0
70.0	1	1
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	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

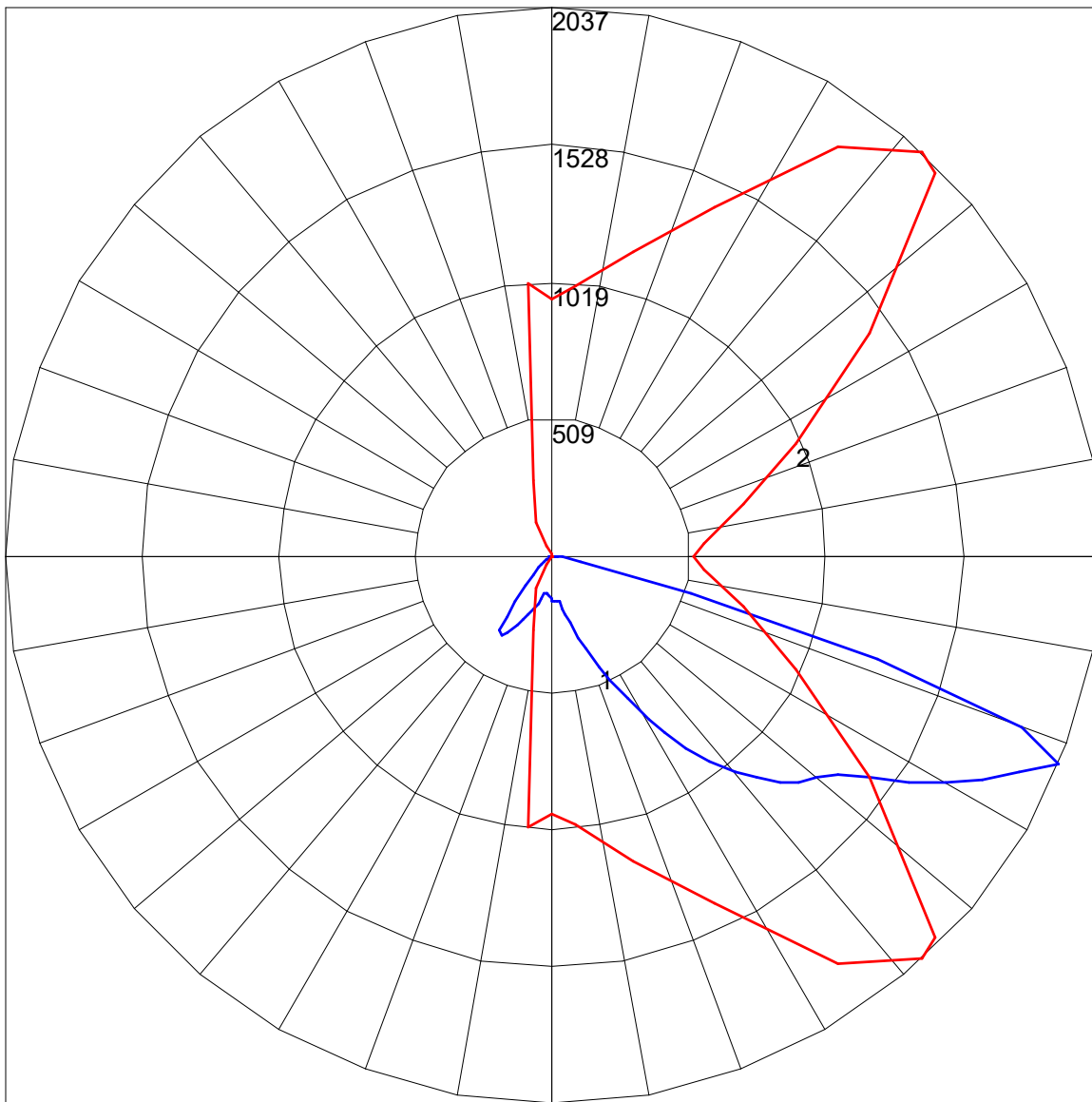
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

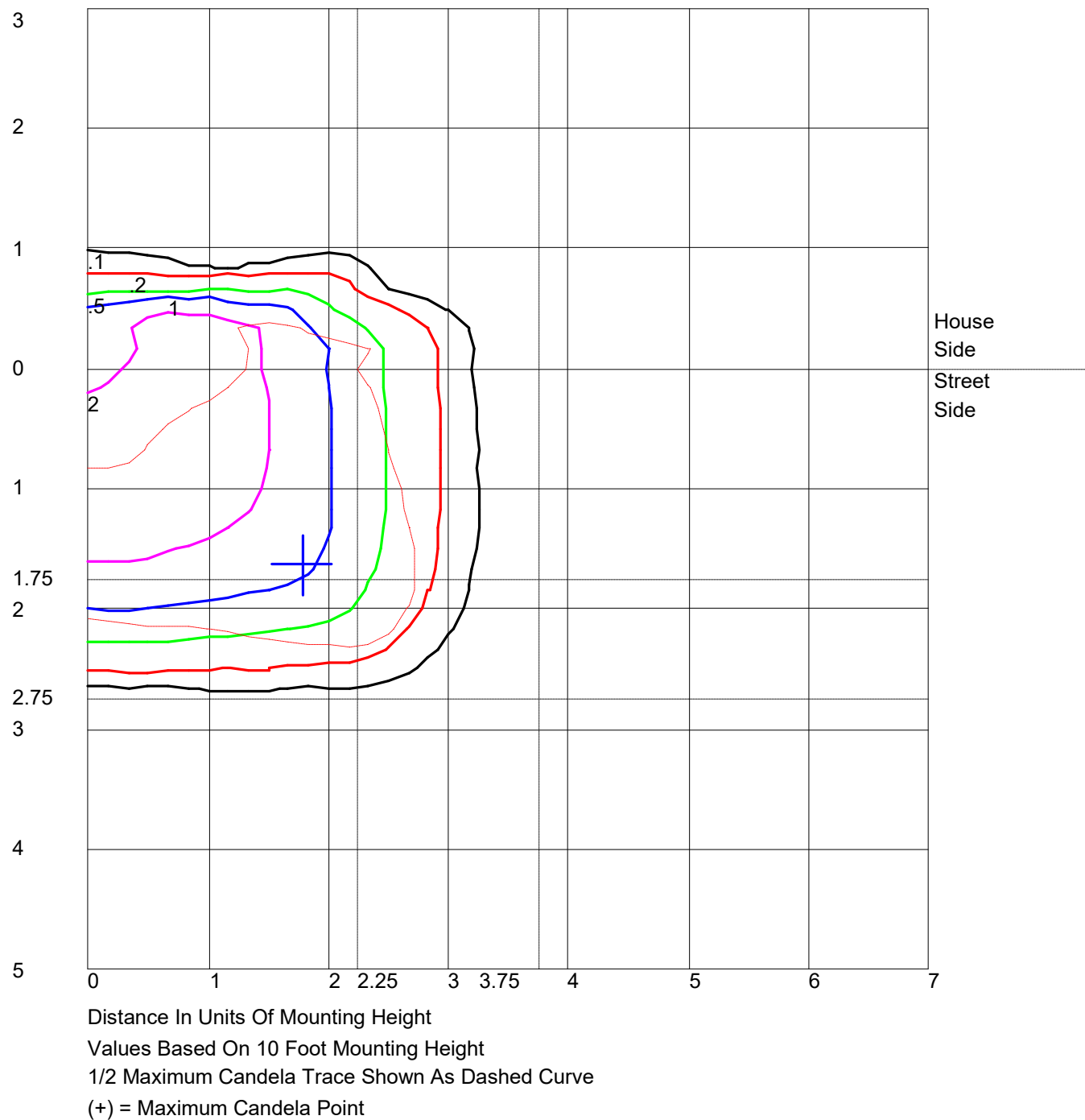
	Lumens	Percent Of Luminaire
Downward Street Side	2278.6	80.5
Downward House Side	546.4	19.3
Downward Total	2825.0	99.8
Upward Street Side	2.5	0.1
Upward House Side	3.9	0.1
Upward Total	6.4	0.2
Total Flux	2831.4	100.0

POLAR GRAPH

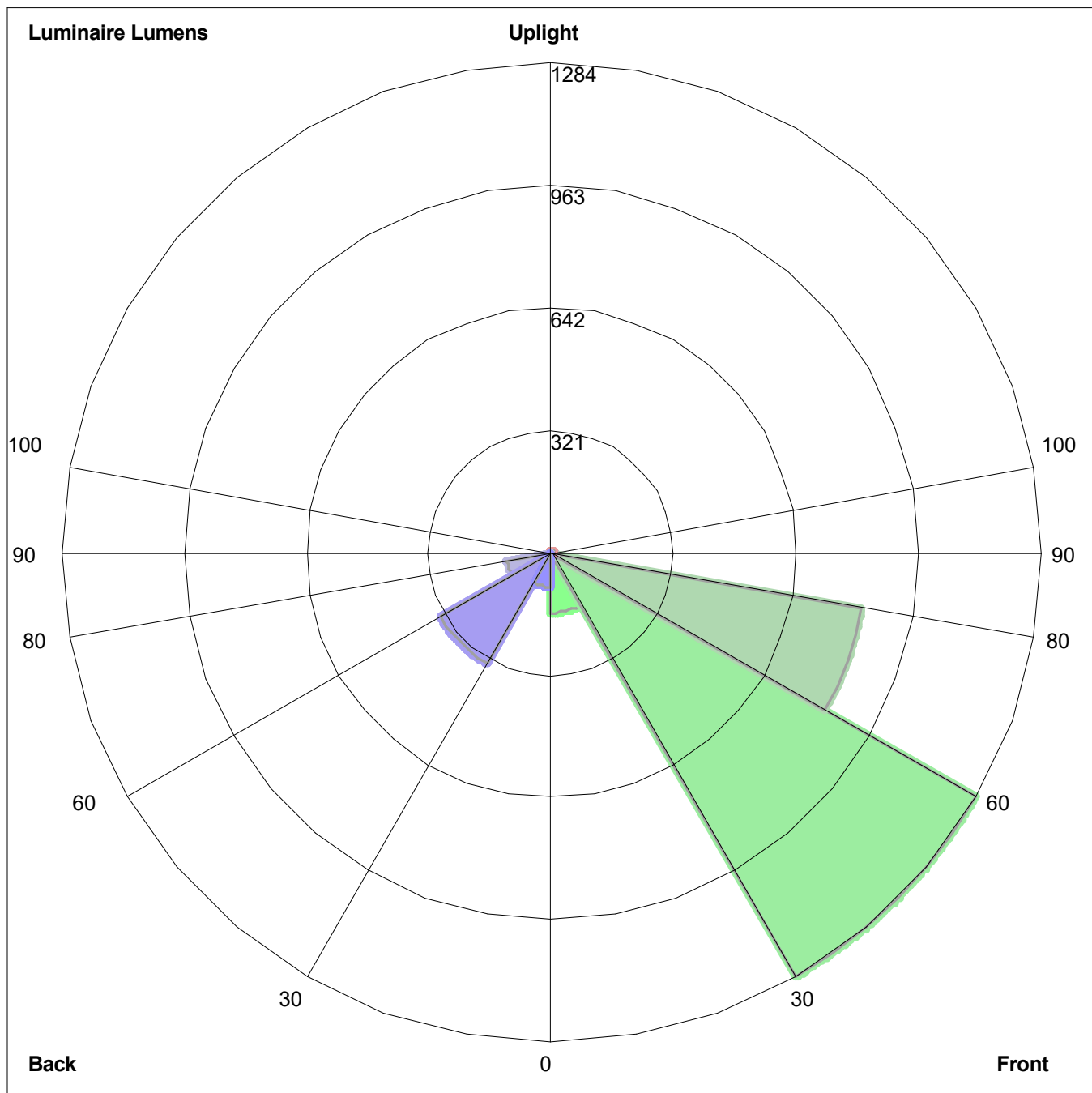


Maximum Candela = 2037 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=158.2, Medium=1283.8, High=826.4, Very High=10.2
Back: Low=89.9, Medium=336.4, High=118.1, Very High=2.0
Uplight: Low=1.6, High=4.9

BUG Rating : B1-U1-G1