



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-05L-50-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-5W-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3274
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2357
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	2357
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	106 (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)	183.1	N.A.	5.6
FM - Front-Medium (30-60)	1485.2	N.A.	45.4
FH - Front-High (60-80)	956.0	N.A.	29.2
FVH - Front-Very High (80-90)	11.8	N.A.	0.4
BL - Back-Low (0-30)	104.0	N.A.	3.2
BM - Back-Medium (30-60)	389.2	N.A.	11.9
BH - Back-High (60-80)	136.5	N.A.	4.2
BVH - Back-Very High (80-90)	2.2	N.A.	0.1
UL - Uplight-Low (90-100)	1.6	N.A.	0.0
UH - Uplight-High (100-180)	4.9	N.A.	0.1
Total	3274.5	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	191	191	191	191	191	191	191	191	191	191
2.5	195	196	198	199	197	196	197	196	193	192
5.0	195	199	201	201	206	195	195	194	189	185
7.5	204	207	215	198	201	196	197	197	205	202
10.0	225	224	233	211	220	223	228	221	215	218
12.5	259	270	252	249	261	253	256	254	244	240
15.0	293	308	296	310	315	299	302	302	286	276
17.5	330	342	335	350	361	373	372	350	337	330
20.0	401	406	398	408	424	433	430	426	396	376
22.5	456	456	469	489	493	501	514	511	468	442
25.0	521	507	535	565	593	587	593	596	550	497
27.5	601	628	654	645	683	698	699	683	631	580
30.0	711	695	713	762	764	811	821	789	733	659
32.5	849	851	831	836	894	912	909	913	846	753
35.0	978	961	942	966	984	1033	1007	1027	944	869
37.5	1094	1106	1066	1064	1103	1136	1113	1135	1053	924
40.0	1188	1200	1179	1184	1208	1228	1222	1230	1149	1031
42.5	1262	1266	1252	1255	1292	1295	1297	1313	1224	1095
45.0	1322	1323	1311	1332	1366	1381	1387	1371	1287	1148
47.5	1371	1382	1382	1392	1428	1443	1438	1429	1345	1215
50.0	1416	1434	1445	1436	1475	1492	1489	1488	1408	1295
52.5	1466	1473	1496	1478	1525	1549	1555	1552	1481	1357
55.0	1511	1532	1559	1560	1593	1656	1667	1665	1582	1445
57.5	1581	1597	1639	1651	1725	1817	1825	1801	1650	1489
60.0	1576	1588	1665	1709	1824	1963	1959	1915	1682	1509
62.5	1410	1443	1571	1687	1897	2101	2091	2012	1698	1492
65.0	1110	1147	1316	1504	1894	2238	2216	2077	1668	1446
67.5	606	652	846	1155	1671	2329	2357	2150	1656	1358
70.0	130	135	226	582	1201	2049	2157	1982	1381	1013
72.5	60	62	74	132	457	1326	1467	1374	900	605
75.0	38	38	42	54	112	459	622	662	449	274
77.5	20	20	22	28	47	96	122	236	215	129
80.0	14	14	15	17	23	36	40	67	106	73
82.5	13	13	13	14	17	20	22	29	54	58
85.0	9	9	10	12	14	17	18	21	30	47
87.5	6	6	7	7	9	12	12	15	21	27
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	191	191	191	191	191	191	191	191	191	191
2.5	191	189	191	189	188	186	187	187	186	184
5.0	184	183	179	178	180	179	174	175	172	169
7.5	192	194	188	188	179	169	159	161	155	158
10.0	204	199	195	199	174	170	160	155	151	153
12.5	225	222	217	203	181	172	165	168	166	172
15.0	250	244	233	214	191	185	188	192	189	185
17.5	290	275	263	235	208	211	217	210	201	200
20.0	335	318	303	263	239	244	240	229	223	215
22.5	402	365	345	297	280	282	267	255	236	225
25.0	449	422	390	330	339	320	299	272	252	216
27.5	511	473	445	382	398	362	328	288	235	179
30.0	589	537	501	449	462	423	375	272	180	125
32.5	646	605	557	524	529	487	384	207	117	84
35.0	736	670	625	604	601	550	342	138	79	63
37.5	813	753	704	695	676	572	248	91	59	51
40.0	868	811	759	786	757	522	159	66	49	44
42.5	931	868	812	860	820	408	98	54	42	38
45.0	1001	937	880	939	845	263	70	45	37	31
47.5	1057	999	951	1024	797	160	54	38	30	25
50.0	1138	1079	1033	1116	667	106	43	31	25	19
52.5	1215	1170	1126	1216	486	74	36	26	19	14
55.0	1292	1250	1245	1299	310	52	29	19	14	9
57.5	1347	1278	1317	1293	209	38	23	14	9	5
60.0	1369	1288	1337	1147	170	29	18	9	5	2
62.5	1341	1268	1333	900	159	27	13	5	3	1
65.0	1282	1216	1282	591	160	36	8	3	2	1
67.5	1166	1110	1179	331	156	50	6	2	2	1
70.0	846	801	844	162	120	66	6	2	2	1
72.5	476	443	470	59	51	64	5	3	2	1
75.0	207	188	196	32	22	26	4	2	1	0
77.5	91	83	81	20	10	13	3	2	0	0

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CANDELA TABULATION - (Cont.)

80.0	55	48	40	12	7	6	2	2	0	0
82.5	42	36	25	7	5	4	2	2	0	0
85.0	30	23	14	4	4	4	2	2	0	0
87.5	18	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	191	191
2.5	182	181
5.0	164	164
7.5	155	153
10.0	155	149
12.5	173	170
15.0	189	181
17.5	201	193
20.0	215	204
22.5	213	207
25.0	196	192

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

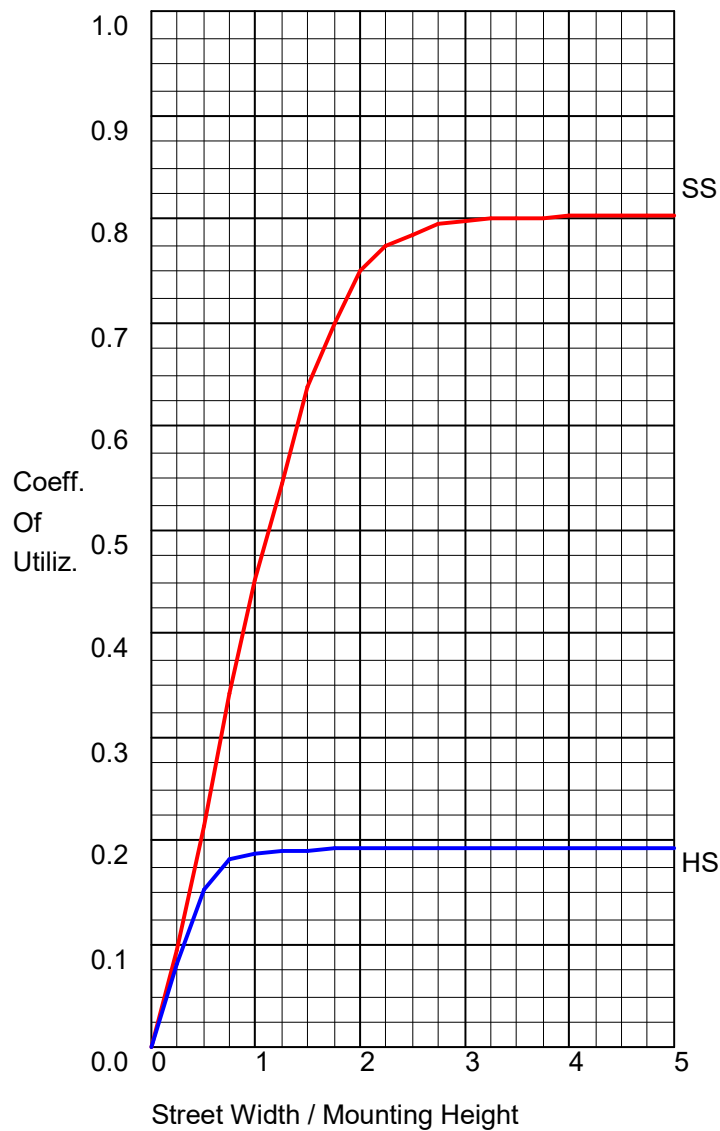
27.5	153	147
30.0	104	101
32.5	74	72
35.0	58	58
37.5	49	49
40.0	42	43
42.5	36	37
45.0	29	29
47.5	23	23
50.0	17	17
52.5	12	12
55.0	7	7
57.5	3	3
60.0	1	1
62.5	0	0
65.0	0	0
67.5	1	0
70.0	1	1
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	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

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	0	0

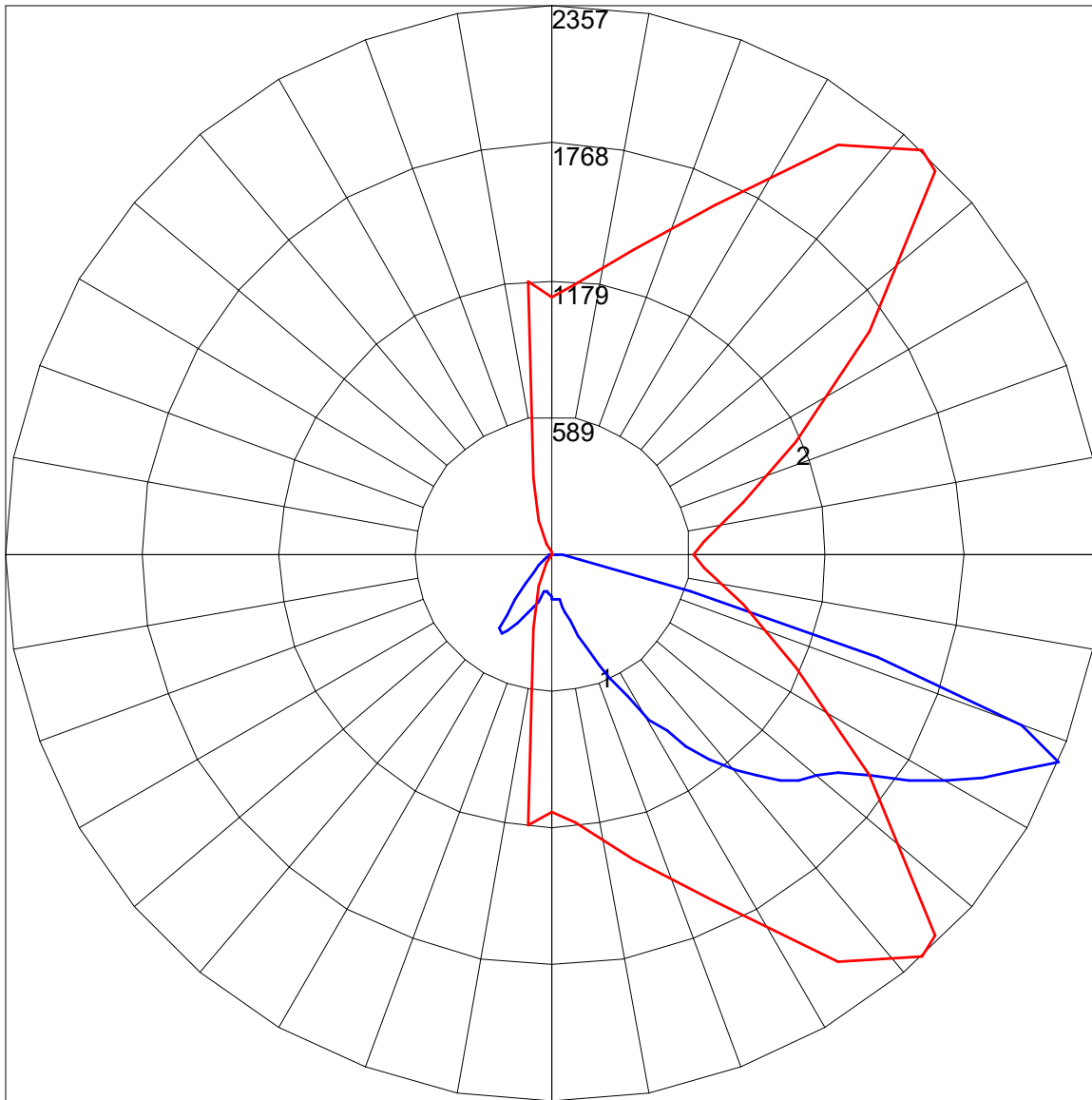
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

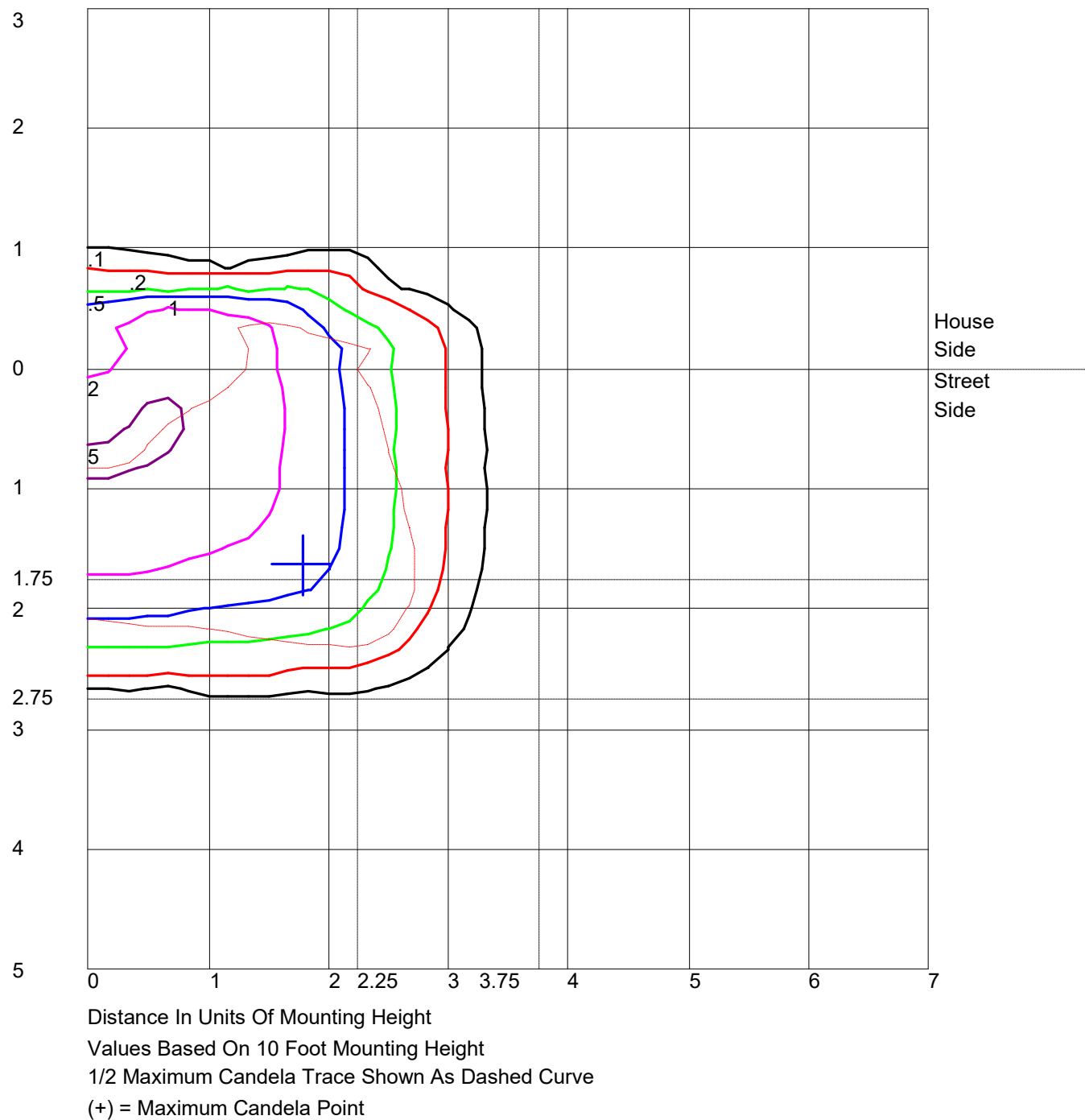
	Lumens	Percent Of Luminaire
Downward Street Side	2636.2	80.5
Downward House Side	631.8	19.3
Downward Total	3268.0	99.8
Upward Street Side	2.5	0.1
Upward House Side	3.9	0.1
Upward Total	6.4	0.2
Total Flux	3274.4	100.0

POLAR GRAPH

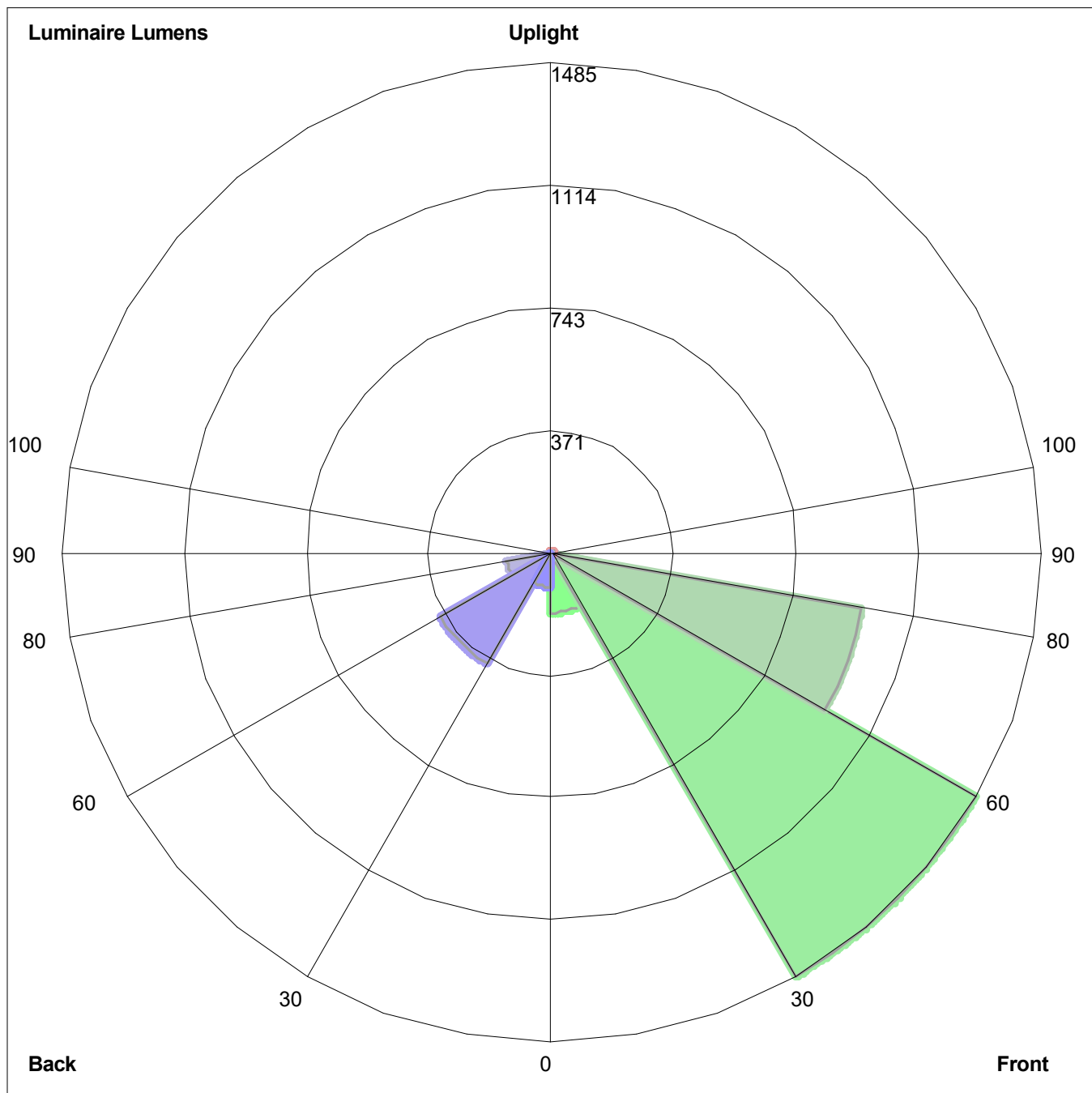


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Results derived from content of manufacturers photometric file.

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=183.1, Medium=1485.2, High=956.0, Very High=11.8
Back: Low=104.0, Medium=389.2, High=136.5, Very High=2.2
Uplight: Low=1.6, High=4.9

BUG Rating : B1-U1-G1