



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-05L-50.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11765

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-5W-LED-05L-50

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

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

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5316
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2803
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	2803
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	5 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	427 (8.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	166.9	N.A.	3.1
FM - Front-Medium (30-60)	1109.9	N.A.	20.9
FH - Front-High (60-80)	1348.6	N.A.	25.4
FVH - Front-Very High (80-90)	28.1	N.A.	0.5
BL - Back-Low (0-30)	166.9	N.A.	3.1
BM - Back-Medium (30-60)	1109.9	N.A.	20.9
BH - Back-High (60-80)	1348.6	N.A.	25.4
BVH - Back-Very High (80-90)	28.1	N.A.	0.5
UL - Uplight-Low (90-100)	3.1	N.A.	0.1
UH - Uplight-High (100-180)	5.6	N.A.	0.1
Total	5315.7	N.A.	100.0
BUG Rating	B3-U1-G1		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b>0</b>	<b>5</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>45</b>	<b>55</b>	<b>65</b>	<b>75</b>	<b>85</b>
<b>0.0</b>	295	295	295	295	295	295	295	295	295	295
<b>2.5</b>	290	290	293	296	297	296	295	295	295	294
<b>5.0</b>	268	271	277	283	286	280	278	278	275	273
<b>7.5</b>	270	269	274	266	270	263	269	284	291	280
<b>10.0</b>	266	271	270	259	269	272	280	284	294	284
<b>12.5</b>	298	298	292	282	288	280	288	295	308	311
<b>15.0</b>	316	321	309	317	317	310	307	311	326	329
<b>17.5</b>	334	345	333	337	344	350	339	334	351	356
<b>20.0</b>	372	379	371	367	375	377	383	358	373	386
<b>22.5</b>	404	400	406	405	412	419	426	404	411	427
<b>25.0</b>	441	434	443	450	453	457	475	469	434	462
<b>27.5</b>	483	492	500	499	503	516	526	530	488	509
<b>30.0</b>	530	526	528	545	562	585	589	596	542	561
<b>32.5</b>	593	604	591	601	627	653	669	667	606	591
<b>35.0</b>	649	648	653	664	685	739	742	730	694	650
<b>37.5</b>	726	730	719	722	775	808	819	806	760	706
<b>40.0</b>	764	775	784	799	849	886	891	886	836	743
<b>42.5</b>	801	812	821	861	921	951	968	939	889	778
<b>45.0</b>	844	856	869	907	980	1025	1026	989	938	818
<b>47.5</b>	888	901	913	947	1033	1081	1080	1043	987	865
<b>50.0</b>	935	948	959	1004	1089	1144	1140	1097	1035	910
<b>52.5</b>	991	1007	1017	1069	1155	1211	1204	1157	1096	968
<b>55.0</b>	1047	1068	1082	1137	1227	1286	1272	1224	1165	1028
<b>57.5</b>	1122	1149	1164	1211	1312	1378	1358	1303	1246	1101
<b>60.0</b>	1221	1250	1277	1317	1427	1499	1473	1412	1341	1199
<b>62.5</b>	1345	1364	1408	1464	1593	1681	1639	1552	1463	1312
<b>65.0</b>	1443	1461	1516	1622	1815	1937	1867	1725	1623	1444
<b>67.5</b>	1490	1518	1602	1771	2088	2295	2167	1958	1799	1575
<b>70.0</b>	1270	1305	1459	1755	2375	2769	2471	2030	1681	1397
<b>72.5</b>	820	846	1006	1320	2072	2803	2286	1611	1186	946
<b>75.0</b>	274	275	386	699	1392	2082	1553	957	606	418
<b>77.5</b>	132	130	162	254	601	1122	796	393	233	178
<b>80.0</b>	55	55	70	115	233	427	307	171	106	88
<b>82.5</b>	30	30	32	49	93	159	105	68	52	51
<b>85.0</b>	19	18	19	25	41	60	43	35	28	31
<b>87.5</b>	9	9	9	12	17	20	16	15	13	12
<b>90.0</b>	3	3	4	4	5	5	4	4	3	2
<b>92.5</b>	2	2	3	3	4	4	4	4	3	2
<b>95.0</b>	2	2	3	3	3	4	4	3	3	2
<b>97.5</b>	2	2	2	2	3	3	3	3	2	1
<b>100.0</b>	2	2	2	2	2	3	3	2	2	1
<b>102.5</b>	1	1	2	2	2	2	2	2	2	1
<b>105.0</b>	1	1	1	2	1	2	2	2	1	1
<b>107.5</b>	1	1	1	2	1	2	2	2	1	1
<b>110.0</b>	1	1	1	2	1	1	1	1	1	1
<b>112.5</b>	1	1	1	1	1	1	1	1	1	1
<b>115.0</b>	1	1	2	2	2	2	1	1	1	1
<b>117.5</b>	1	1	2	2	2	2	2	2	2	1
<b>120.0</b>	1	1	2	2	2	2	2	2	2	1
<b>122.5</b>	2	2	2	2	2	2	2	2	2	2
<b>125.0</b>	1	1	2	2	2	2	2	2	2	2
<b>127.5</b>	2	1	2	2	2	2	2	2	2	2
<b>130.0</b>	1	1	2	2	2	2	1	1	1	1

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**CANDELA TABULATION - (Cont.)**

132.5	2	1	2	2	2	2	1	1	2	2
135.0	1	1	2	1	2	1	1	1	1	1
137.5	1	1	1	1	1	1	0	1	1	1
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	1	1	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**

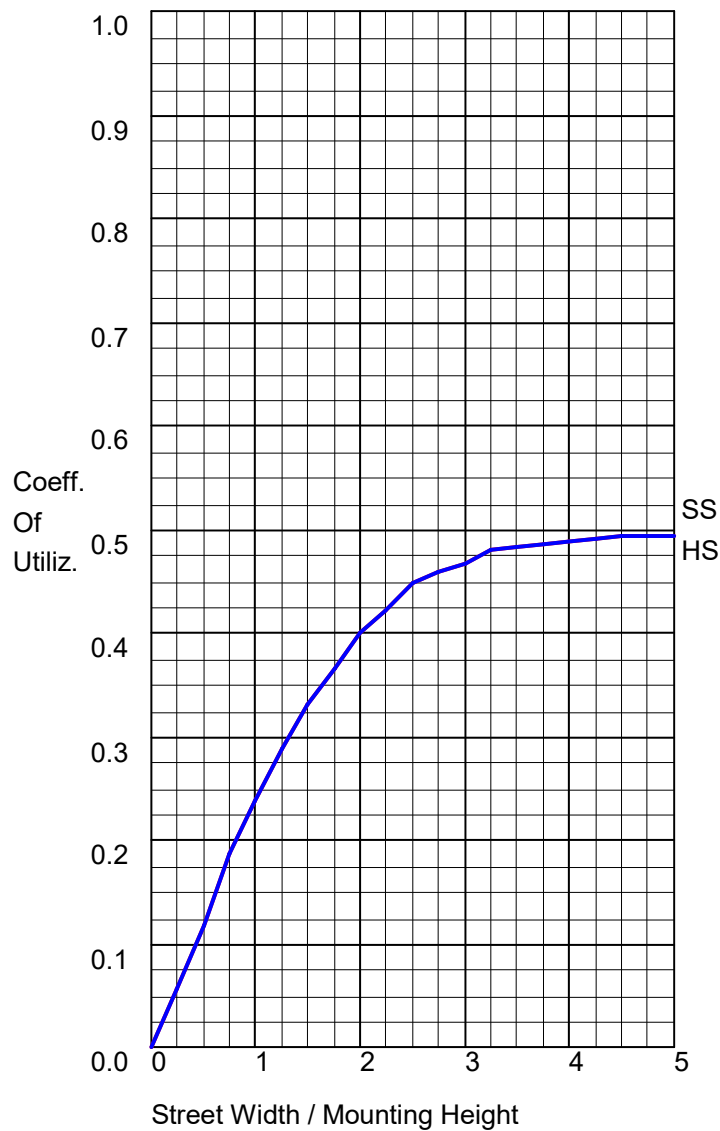
	<u>90</u>
0.0	295
2.5	295
5.0	272
7.5	284
10.0	286
12.5	307
15.0	335
17.5	354
20.0	390
22.5	417
25.0	470
27.5	500
30.0	548
32.5	598
35.0	641
37.5	706
40.0	749
42.5	788
45.0	829
47.5	865
50.0	910
52.5	970
55.0	1023
57.5	1094
60.0	1179
62.5	1283
65.0	1406
67.5	1526
70.0	1356
72.5	901
75.0	394
77.5	171

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CANDELA TABULATION - (Cont.)

80.0	86
82.5	49
85.0	27
87.5	10
90.0	1
92.5	1
95.0	2
97.5	1
100.0	1
102.5	1
105.0	1
107.5	1
110.0	1
112.5	1
115.0	1
117.5	1
120.0	1
122.5	2
125.0	2
127.5	1
130.0	1
132.5	2
135.0	1
137.5	1
140.0	0
142.5	0
145.0	0
147.5	0
150.0	0
152.5	0
155.0	0
157.5	0
160.0	0
162.5	0
165.0	0
167.5	0
170.0	0
172.5	0
175.0	0
177.5	0
180.0	0

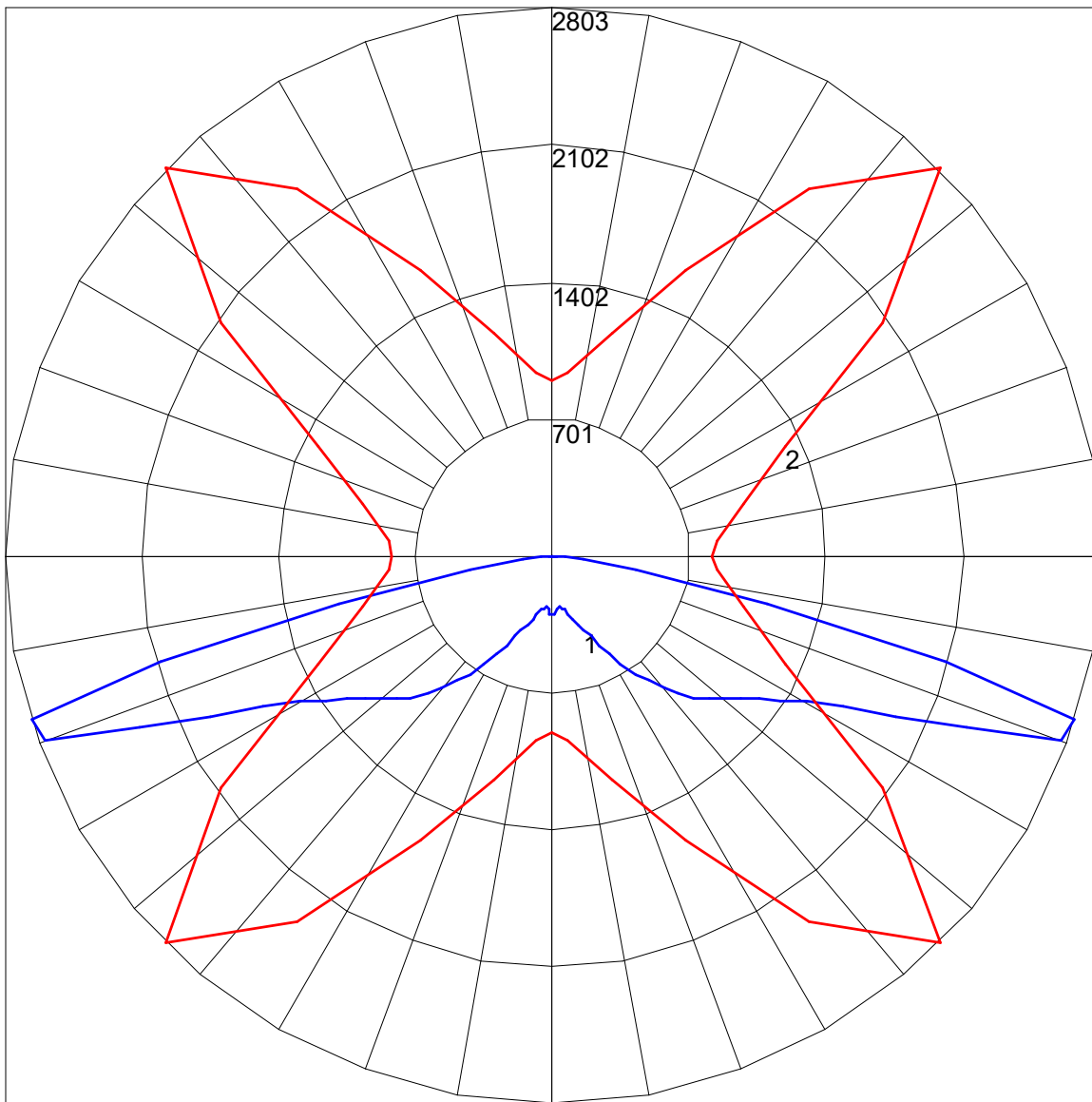
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

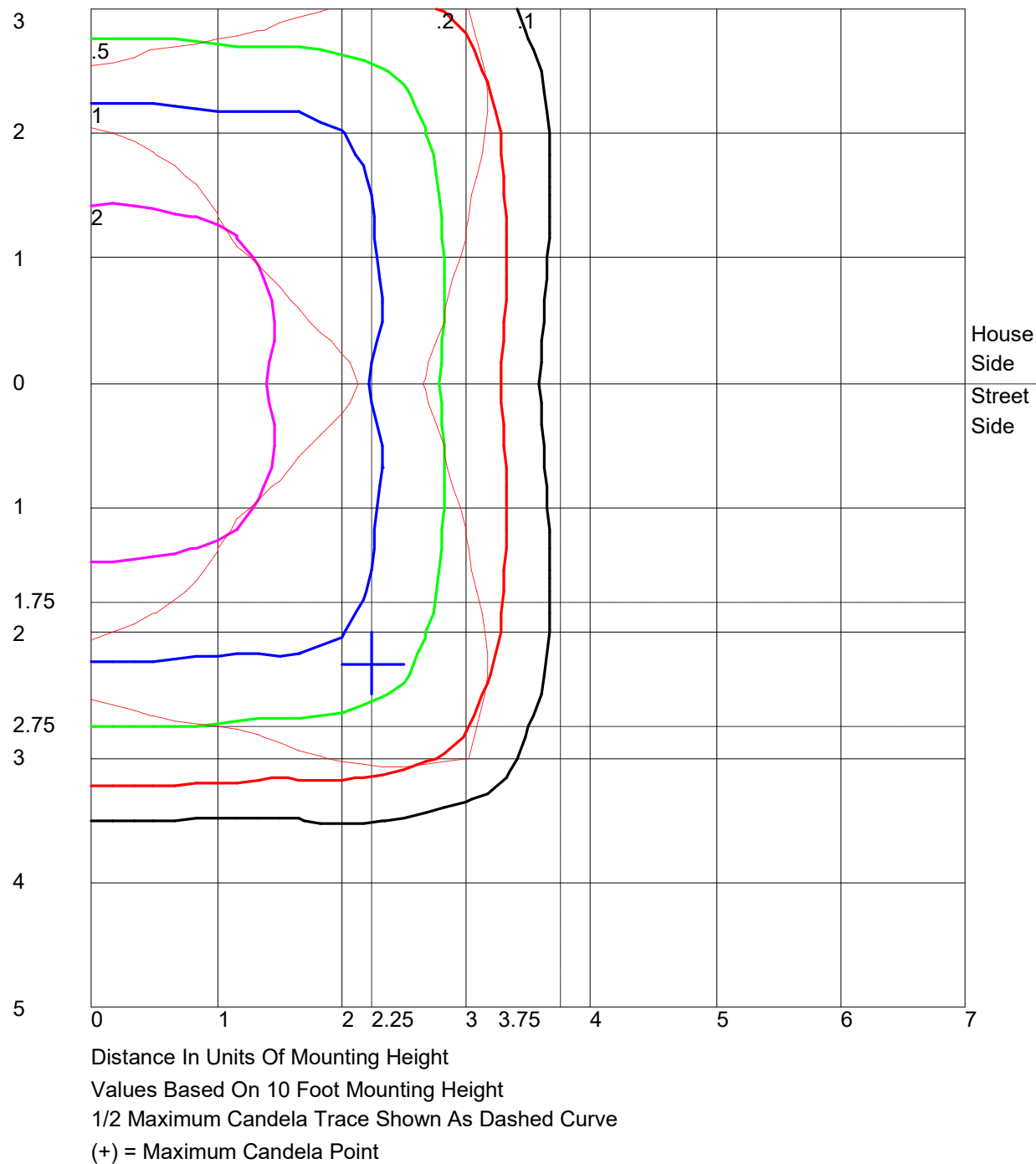
	Lumens	Percent Of Luminaire
Downward Street Side	2653.5	49.9
Downward House Side	2653.5	49.9
Downward Total	5307.0	99.8
Upward Street Side	4.4	0.1
Upward House Side	4.4	0.1
Upward Total	8.8	0.2
Total Flux	5315.8	100.0

POLAR GRAPH



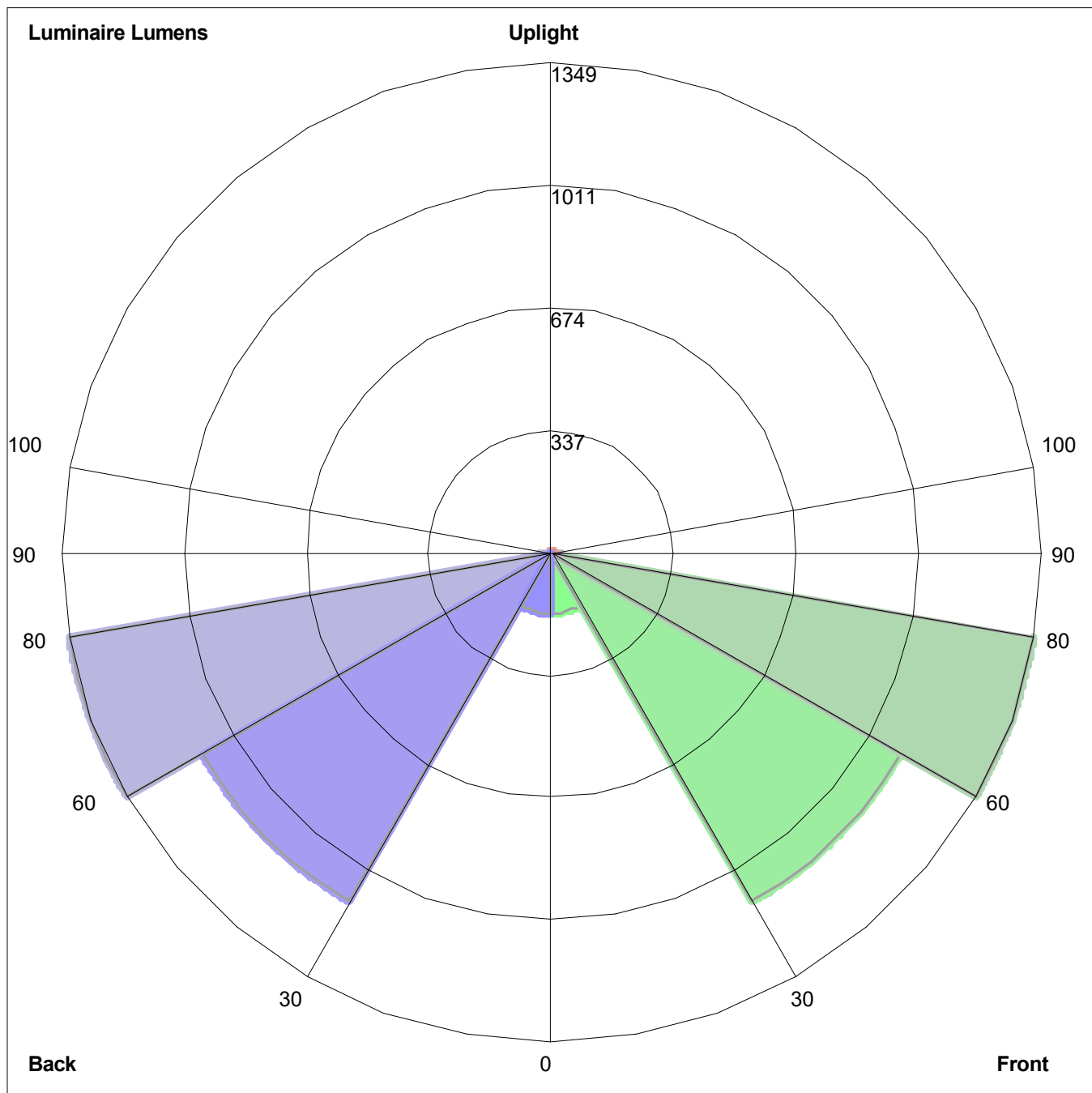
Maximum Candela = 2803 Located At Horizontal Angle = 45, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=166.9, Medium=1109.9, High=1348.6, Very High=28.1  
Back: Low=166.9, Medium=1109.9, High=1348.6, Very High=28.1  
Uplight: Low=3.1, High=5.6

BUG Rating : B3-U1-G1