



## IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-05L-40.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11764  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/27/20  
[MANUFACTURER] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-5W-LED-05L-40  
[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	5084
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2688
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	2688
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	410 (8.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	159.7	N.A.	3.1
FM - Front-Medium (30-60)	1059.8	N.A.	20.8
FH - Front-High (60-80)	1290.9	N.A.	25.4
FVH - Front-Very High (80-90)	27.2	N.A.	0.5
BL - Back-Low (0-30)	159.7	N.A.	3.1
BM - Back-Medium (30-60)	1059.8	N.A.	20.8
BH - Back-High (60-80)	1290.9	N.A.	25.4
BVH - Back-Very High (80-90)	27.2	N.A.	0.5
UL - Uplight-Low (90-100)	3.3	N.A.	0.1
UH - Uplight-High (100-180)	5.5	N.A.	0.1
Total	5084.0	N.A.	100.0
BUG Rating	B3-U1-G1		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
<b>0.0</b>	283	283	283	283	283	283	283	283	283	283
<b>2.5</b>	276	278	281	284	284	284	284	283	283	283
<b>5.0</b>	256	258	267	270	274	267	267	266	263	262
<b>7.5</b>	259	259	264	255	258	250	257	271	278	267
<b>10.0</b>	254	260	259	247	257	261	268	272	282	273
<b>12.5</b>	283	285	280	271	276	267	273	282	295	299
<b>15.0</b>	302	307	296	307	306	296	293	298	313	313
<b>17.5</b>	318	330	320	323	331	333	322	318	336	342
<b>20.0</b>	355	362	355	354	359	360	363	340	356	370
<b>22.5</b>	388	383	390	389	397	401	407	385	394	409
<b>25.0</b>	424	416	425	431	434	438	456	452	417	441
<b>27.5</b>	463	470	477	475	479	493	505	508	467	487
<b>30.0</b>	507	502	501	521	531	559	567	573	519	531
<b>32.5</b>	568	576	562	571	596	622	641	641	580	564
<b>35.0</b>	622	617	622	632	650	706	713	700	662	621
<b>37.5</b>	691	698	686	689	739	770	783	769	726	674
<b>40.0</b>	728	741	748	764	812	845	851	844	799	711
<b>42.5</b>	763	776	784	826	885	909	922	896	848	744
<b>45.0</b>	802	818	831	867	938	977	976	943	893	783
<b>47.5</b>	847	861	871	907	988	1032	1030	994	941	826
<b>50.0</b>	893	907	913	959	1042	1092	1088	1047	988	870
<b>52.5</b>	949	962	970	1016	1100	1156	1152	1106	1047	924
<b>55.0</b>	1002	1018	1033	1082	1167	1228	1219	1172	1114	983
<b>57.5</b>	1075	1098	1110	1153	1250	1316	1302	1250	1190	1051
<b>60.0</b>	1172	1194	1218	1252	1357	1431	1410	1350	1280	1145
<b>62.5</b>	1281	1302	1347	1402	1524	1604	1564	1480	1397	1253
<b>65.0</b>	1373	1400	1453	1557	1743	1844	1772	1645	1545	1385
<b>67.5</b>	1426	1458	1532	1702	2006	2186	2057	1864	1721	1511
<b>70.0</b>	1225	1252	1397	1671	2269	2645	2361	1960	1626	1339
<b>72.5</b>	761	815	975	1285	2000	2688	2174	1544	1136	911
<b>75.0</b>	249	273	389	697	1372	1987	1463	891	554	419
<b>77.5</b>	122	125	160	253	584	1066	740	372	223	173
<b>80.0</b>	54	54	69	114	225	410	293	162	101	85
<b>82.5</b>	30	29	31	46	88	154	107	68	50	49
<b>85.0</b>	19	18	18	24	38	57	44	35	29	30
<b>87.5</b>	10	9	9	11	15	19	16	14	12	11
<b>90.0</b>	3	3	4	4	5	5	4	4	3	2
<b>92.5</b>	3	3	3	3	4	5	4	4	3	2
<b>95.0</b>	2	2	3	3	3	4	4	4	3	2
<b>97.5</b>	2	2	2	2	3	4	4	3	3	2
<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	1	2	2	2	2	1	1
<b>107.5</b>	1	1	1	1	1	1	1	1	1	1
<b>110.0</b>	1	1	1	2	1	2	1	1	1	1
<b>112.5</b>	1	1	1	1	1	1	1	1	1	1
<b>115.0</b>	1	1	1	1	2	1	1	1	1	1
<b>117.5</b>	2	2	2	2	2	2	2	2	2	1
<b>120.0</b>	2	2	2	2	2	2	2	2	2	2
<b>122.5</b>	1	1	2	2	2	2	2	2	2	1
<b>125.0</b>	1	2	2	2	2	2	2	2	2	2
<b>127.5</b>	1	2	2	2	2	2	2	2	2	2
<b>130.0</b>	1	1	2	2	2	2	2	1	2	2

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**CANDELA TABULATION - (Cont.)**

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

**Vert. Horizontal Angles**

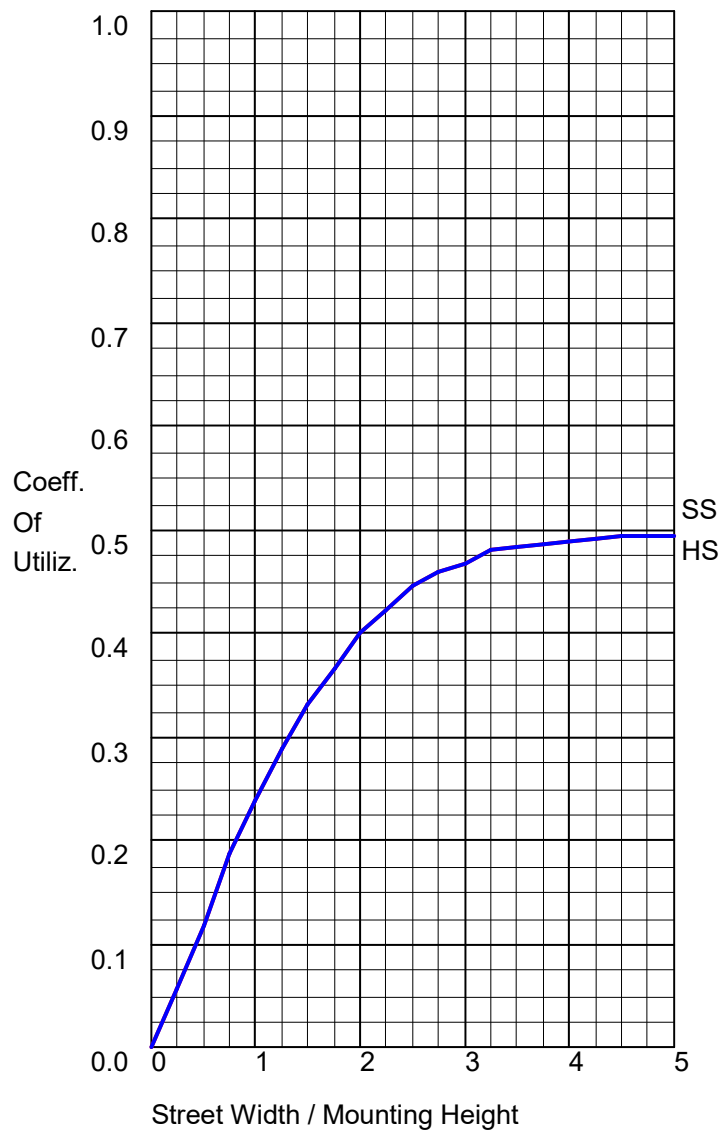
	<b>90</b>
0.0	283
2.5	283
5.0	263
7.5	272
10.0	275
12.5	294
15.0	321
17.5	339
20.0	375
22.5	400
25.0	450
27.5	478
30.0	521
32.5	567
35.0	610
37.5	675
40.0	716
42.5	754
45.0	793
47.5	827
50.0	872
52.5	923
55.0	974
57.5	1041
60.0	1127
62.5	1233
65.0	1351
67.5	1463
70.0	1283
72.5	868
75.0	396
77.5	171

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CANDELA TABULATION - (Cont.)

80.0	81
82.5	46
85.0	26
87.5	9
90.0	2
92.5	1
95.0	2
97.5	2
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	2
122.5	1
125.0	2
127.5	2
130.0	2
132.5	1
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

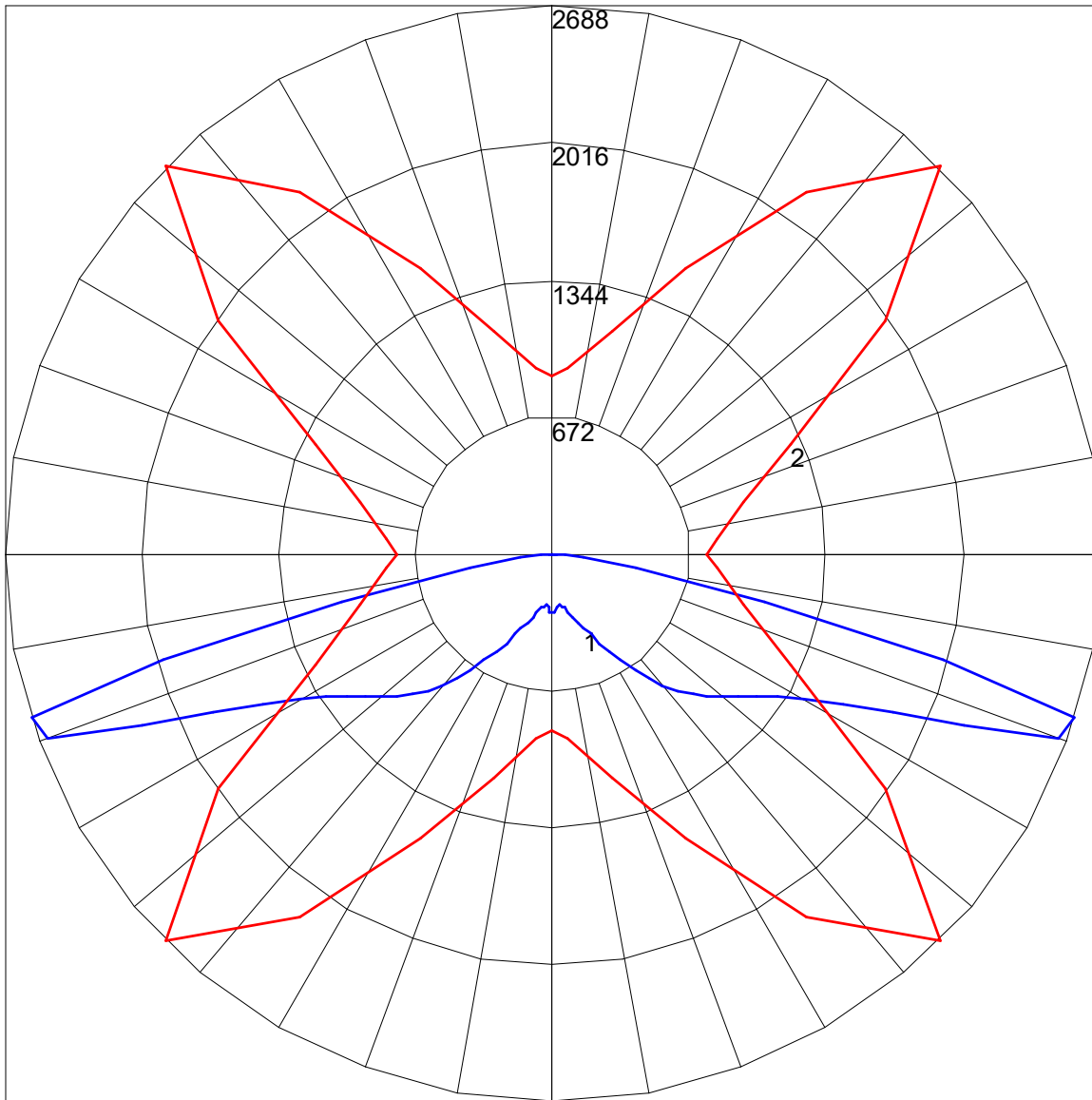
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

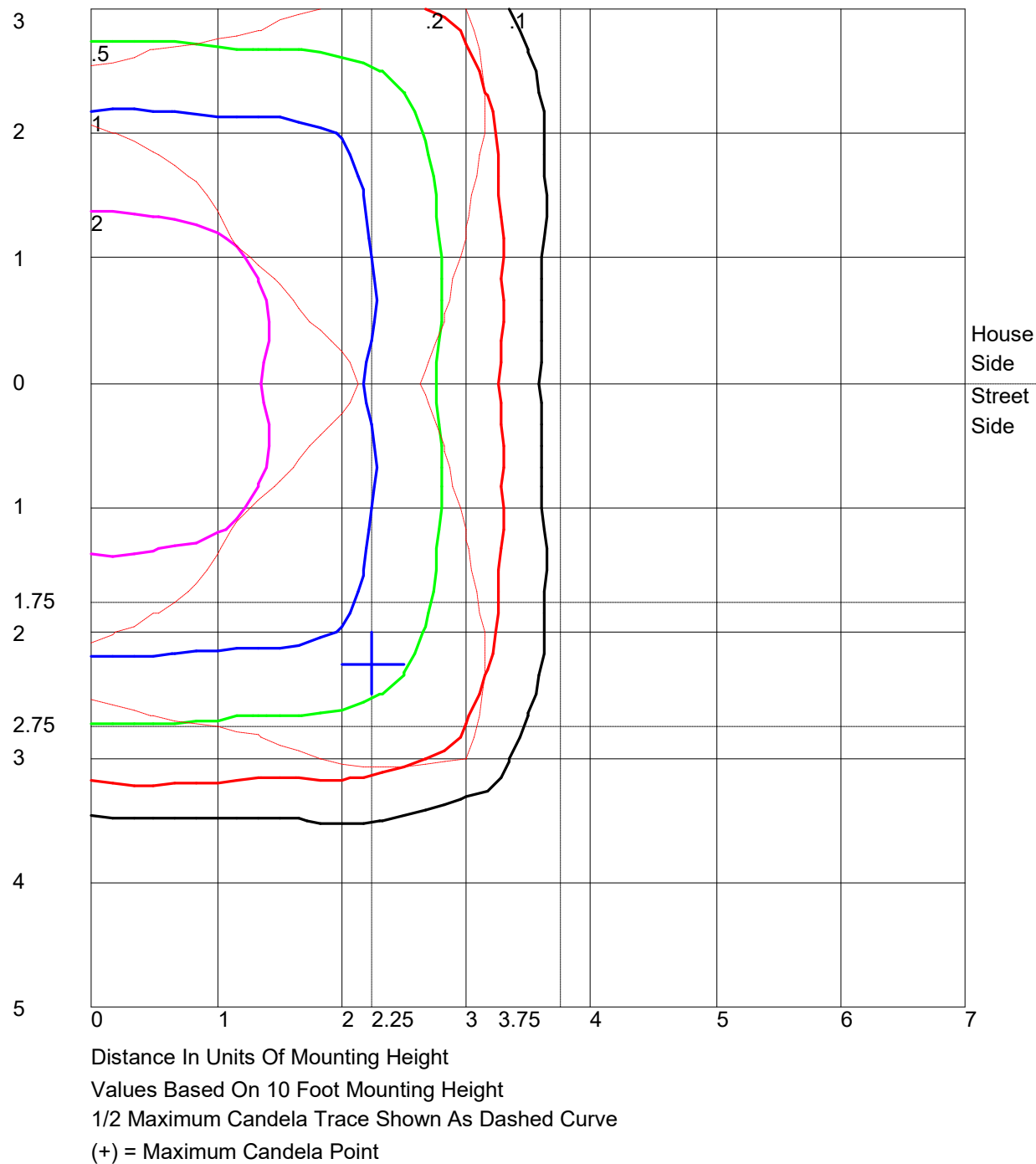
	Lumens	Percent Of Luminaire
Downward Street Side	2537.6	49.9
Downward House Side	2537.6	49.9
Downward Total	5075.2	99.8
Upward Street Side	4.4	0.1
Upward House Side	4.4	0.1
Upward Total	8.8	0.2
Total Flux	5084.0	100.0

POLAR GRAPH



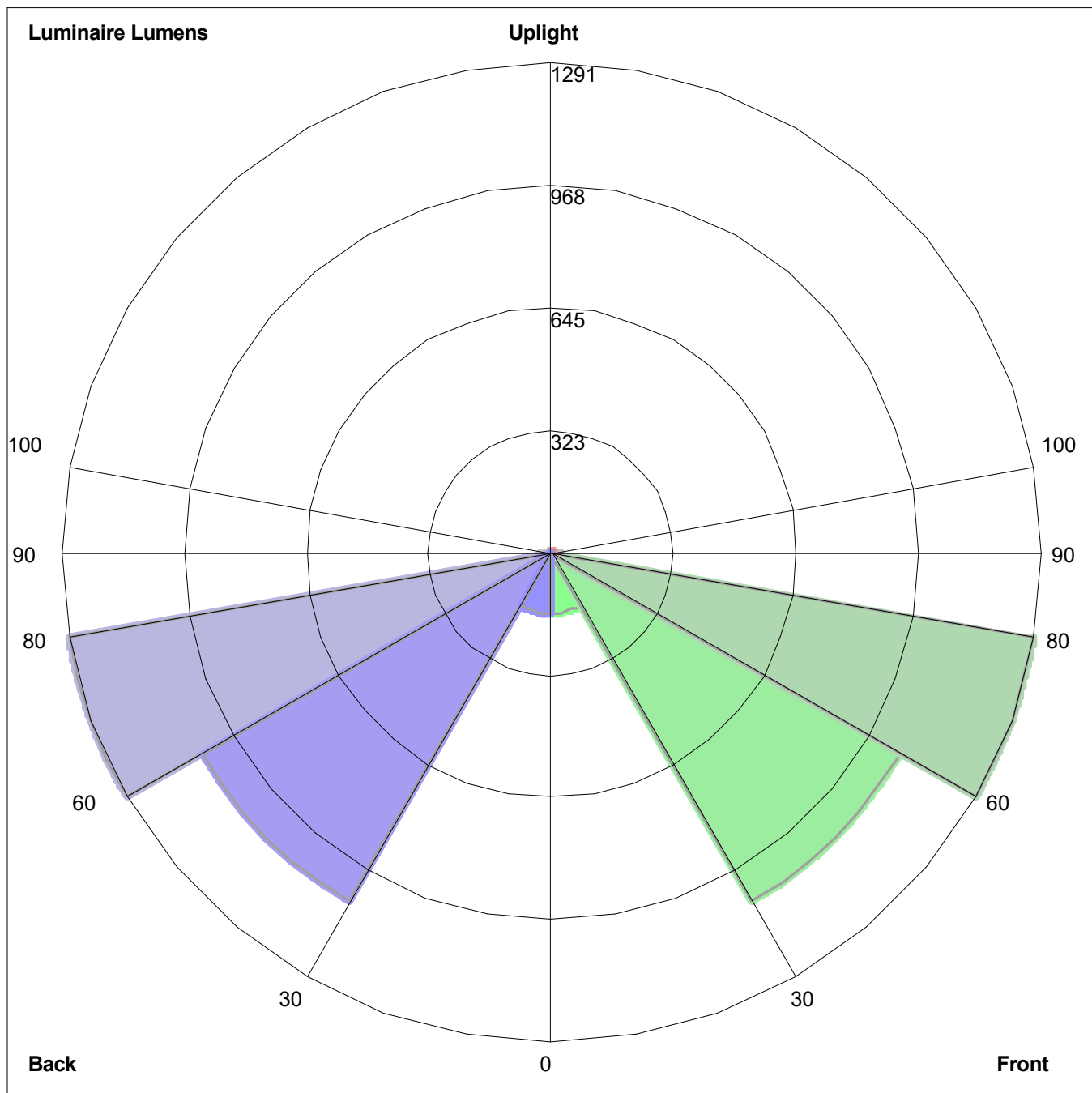
Maximum Candela = 2688 Located At Horizontal Angle = 45, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=159.7, Medium=1059.8, High=1290.9, Very High=27.2  
Back: Low=159.7, Medium=1059.8, High=1290.9, Very High=27.2  
Uplight: Low=3.3, High=5.5

BUG Rating : B3-U1-G1