



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-11766  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 06/10/20  
[TEST DATE] 04/27/20  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] LXM4-PT-FT-LED-05L-30  
[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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4576
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3059
Maximum Candela Angle	40H 72.5V
Maximum Candela (<90 Degrees Vertical)	3059
Maximum Candela Angle (<90 Degrees Vertical)	40H 72.5V
Maximum Candela At 90 Degrees Vertical	45 (1.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	993 (21.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	212.0	N.A.	4.6
FM - Front-Medium (30-60)	1372.8	N.A.	30.0
FH - Front-High (60-80)	1712.8	N.A.	37.4
FVH - Front-Very High (80-90)	102.8	N.A.	2.2
BL - Back-Low (0-30)	199.0	N.A.	4.3
BM - Back-Medium (30-60)	657.7	N.A.	14.4
BH - Back-High (60-80)	283.5	N.A.	6.2
BVH - Back-Very High (80-90)	24.5	N.A.	0.5
UL - Uplight-Low (90-100)	3.6	N.A.	0.1
UH - Uplight-High (100-180)	7.4	N.A.	0.2
Total	4576.1	N.A.	100.0
BUG Rating	B1-U1-G2		

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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>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
<b>0.0</b>	380	380	380	380	380	380	380	380	380	380
<b>2.5</b>	377	378	372	374	376	376	379	382	381	382
<b>5.0</b>	336	343	353	362	372	368	354	356	353	350
<b>7.5</b>	326	339	352	337	337	329	338	349	374	367
<b>10.0</b>	333	337	343	327	338	348	359	368	372	377
<b>12.5</b>	337	364	343	339	359	357	369	377	387	406
<b>15.0</b>	363	384	375	388	402	381	391	410	418	434
<b>17.5</b>	387	408	395	408	424	431	436	432	452	482
<b>20.0</b>	450	452	445	447	462	462	471	482	486	515
<b>22.5</b>	492	502	515	514	509	496	505	538	530	560
<b>25.0</b>	554	545	565	565	568	582	563	583	580	587
<b>27.5</b>	633	667	664	631	623	642	638	630	621	645
<b>30.0</b>	723	713	707	702	682	684	702	684	684	702
<b>32.5</b>	842	848	788	758	769	764	747	755	746	732
<b>35.0</b>	952	930	892	857	824	825	822	817	788	784
<b>37.5</b>	1053	1034	983	926	912	896	881	875	845	801
<b>40.0</b>	1127	1129	1090	1030	996	981	972	935	902	842
<b>42.5</b>	1197	1204	1169	1150	1091	1061	1053	1017	944	867
<b>45.0</b>	1279	1285	1261	1234	1194	1161	1150	1093	997	900
<b>47.5</b>	1371	1380	1358	1325	1288	1262	1238	1187	1066	950
<b>50.0</b>	1468	1478	1466	1438	1400	1384	1346	1297	1157	1019
<b>52.5</b>	1561	1572	1571	1553	1522	1511	1475	1433	1280	1108
<b>55.0</b>	1639	1659	1672	1667	1658	1640	1622	1599	1439	1213
<b>57.5</b>	1707	1723	1751	1770	1790	1787	1797	1812	1630	1353
<b>60.0</b>	1769	1787	1826	1857	1921	1943	1983	2044	1864	1514
<b>62.5</b>	1868	1889	1933	1975	2075	2116	2198	2313	2093	1653
<b>65.0</b>	1959	1982	2062	2154	2301	2328	2448	2560	2260	1711
<b>67.5</b>	2003	2035	2178	2335	2604	2631	2720	2721	2289	1570
<b>70.0</b>	1893	1928	2142	2487	2907	2922	2921	2708	2006	1189
<b>72.5</b>	1555	1590	1845	2332	2988	3059	2964	2364	1446	716
<b>75.0</b>	995	999	1303	1792	2506	2657	2554	1707	857	432
<b>77.5</b>	451	494	694	1105	1635	1824	1714	1082	534	289
<b>80.0</b>	211	243	404	622	890	993	986	627	327	175
<b>82.5</b>	131	140	268	394	442	549	520	335	187	97
<b>85.0</b>	99	107	187	249	281	275	253	151	94	53
<b>87.5</b>	68	75	122	132	171	129	62	53	33	24
<b>90.0</b>	27	31	45	23	25	12	8	4	3	2
<b>92.5</b>	5	5	5	3	2	2	2	2	2	2
<b>95.0</b>	2	2	2	2	2	2	2	2	1	2
<b>97.5</b>	1	1	2	2	2	2	2	2	1	2
<b>100.0</b>	1	1	1	2	2	2	2	2	1	2
<b>102.5</b>	1	1	1	1	2	2	2	2	1	2
<b>105.0</b>	1	1	1	1	1	2	2	1	1	1
<b>107.5</b>	1	1	1	1	1	1	1	1	1	2
<b>110.0</b>	1	1	1	1	1	2	1	1	1	2
<b>112.5</b>	1	1	1	1	1	1	1	1	1	2
<b>115.0</b>	1	1	1	1	1	1	2	1	1	2
<b>117.5</b>	2	2	2	2	2	2	2	1	2	2
<b>120.0</b>	2	2	2	2	2	2	2	2	2	2
<b>122.5</b>	2	2	2	2	2	2	2	1	2	2
<b>125.0</b>	2	2	2	2	2	2	2	2	2	2
<b>127.5</b>	2	2	2	2	2	2	2	2	2	2
<b>130.0</b>	2	2	2	2	2	2	2	2	2	2

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**CANDELA TABULATION - (Cont.)**

132.5	2	2	2	2	2	2	2	2	2	2
135.0	2	2	2	2	2	2	2	2	2	2
137.5	1	1	1	1	1	1	1	1	1	2
140.0	0	0	1	1	1	1	1	1	1	1
142.5	0	0	1	1	1	1	1	1	1	1
145.0	0	0	1	1	1	1	1	1	1	1
147.5	0	0	1	1	1	1	1	1	1	1
150.0	0	0	1	1	1	1	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	1	1	1	1	1	1	1	1
157.5	0	0	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	1	1
162.5	0	0	1	1	1	1	1	1	1	1
165.0	0	0	1	1	1	1	1	1	1	1
167.5	0	0	1	1	1	1	1	1	1	1
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	0	1	1	1	1	1	1	1	1
175.0	0	0	1	1	1	1	1	1	1	1
177.5	0	0	1	1	1	1	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	380	380	380	380	380	380	380	380	380	380
2.5	384	385	386	381	381	385	387	389	379	374
5.0	350	350	352	360	367	366	368	371	367	357
7.5	372	370	375	388	368	353	332	343	337	348
10.0	368	371	374	383	354	357	346	346	338	356
12.5	404	403	415	396	375	357	360	384	381	401
15.0	436	436	434	405	374	393	399	418	425	419
17.5	481	469	466	433	401	428	448	448	446	446
20.0	517	519	511	445	427	457	456	467	472	473
22.5	586	564	558	491	477	492	493	488	482	492
25.0	621	626	613	513	548	525	505	499	508	512
27.5	675	657	664	556	582	544	521	515	530	537
30.0	717	696	695	591	608	580	543	536	535	545
32.5	733	723	710	634	643	608	575	554	553	570
35.0	771	748	738	669	656	627	606	561	578	584
37.5	792	779	756	687	665	639	608	587	574	606
40.0	797	774	748	697	668	640	609	588	580	609
42.5	792	774	739	678	645	631	600	588	571	594
45.0	809	780	735	657	617	608	584	573	577	551
47.5	834	794	739	640	587	583	559	553	554	511
50.0	876	814	751	625	554	554	533	541	518	474
52.5	940	858	777	612	521	524	504	519	474	438
55.0	1025	919	816	607	486	491	473	488	435	403
57.5	1122	992	863	608	446	459	445	450	396	359
60.0	1225	1061	892	609	414	428	416	409	346	320
62.5	1283	1075	838	597	381	393	386	366	306	286
65.0	1237	990	684	553	346	358	348	335	274	261
67.5	1029	774	469	461	308	320	315	309	247	244
70.0	673	484	313	345	265	280	287	282	225	230
72.5	350	258	211	251	218	241	255	253	202	203
75.0	225	161	138	176	170	193	215	210	147	139
77.5	145	101	93	124	128	152	167	132	103	109

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**CANDELA TABULATION - (Cont.)**

80.0	76	57	66	90	100	116	104	100	81	86
82.5	50	38	46	66	76	69	74	76	56	63
85.0	31	21	27	43	42	43	48	43	27	40
87.5	11	5	12	19	21	21	19	17	11	17
90.0	2	1	4	5	6	6	5	3	1	0
92.5	1	1	4	5	5	5	5	3	1	0
95.0	1	2	3	5	5	5	4	3	1	1
97.5	1	2	3	4	5	5	4	3	1	1
100.0	1	2	3	4	4	4	4	3	1	1
102.5	1	2	2	3	3	3	3	2	1	1
105.0	2	2	2	2	3	3	2	2	1	1
107.5	2	2	2	2	2	2	2	2	1	1
110.0	2	2	2	2	2	2	2	2	1	1
112.5	2	2	2	2	2	2	2	2	2	1
115.0	2	2	2	2	2	2	2	2	2	1
117.5	2	2	2	2	3	2	2	2	2	2
120.0	2	2	2	2	3	3	3	2	2	2
122.5	2	2	2	2	3	3	3	2	2	2
125.0	2	2	2	2	3	2	3	2	2	2
127.5	2	2	2	2	3	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2
132.5	2	2	2	3	2	2	2	2	1	1
135.0	2	2	2	2	2	2	2	1	1	1
137.5	2	2	2	2	2	1	1	1	0	0
140.0	1	1	1	1	1	1	0	0	0	0
142.5	1	1	1	1	1	1	0	0	0	0
145.0	1	1	1	1	1	1	0	0	0	0
147.5	1	1	1	1	1	1	0	0	0	0
150.0	1	1	1	1	1	0	0	0	0	0
152.5	1	1	1	1	1	0	0	0	0	0
155.0	1	1	1	1	1	0	0	0	0	0
157.5	1	1	1	1	1	0	0	0	0	0
160.0	1	1	1	1	1	0	0	0	0	0
162.5	1	1	1	1	1	0	0	0	0	0
165.0	1	1	1	1	1	0	0	0	0	0
167.5	1	1	1	1	1	0	0	0	0	0
170.0	1	1	1	1	1	0	0	0	0	0
172.5	1	1	1	1	1	0	0	0	0	0
175.0	1	1	1	1	1	0	0	0	0	0
177.5	1	1	1	1	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

	<u>175</u>	<u>180</u>
0.0	380	380
2.5	368	367
5.0	353	358
7.5	345	344
10.0	365	366
12.5	408	413
15.0	436	446
17.5	461	468
20.0	486	492
22.5	491	519
25.0	526	544

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

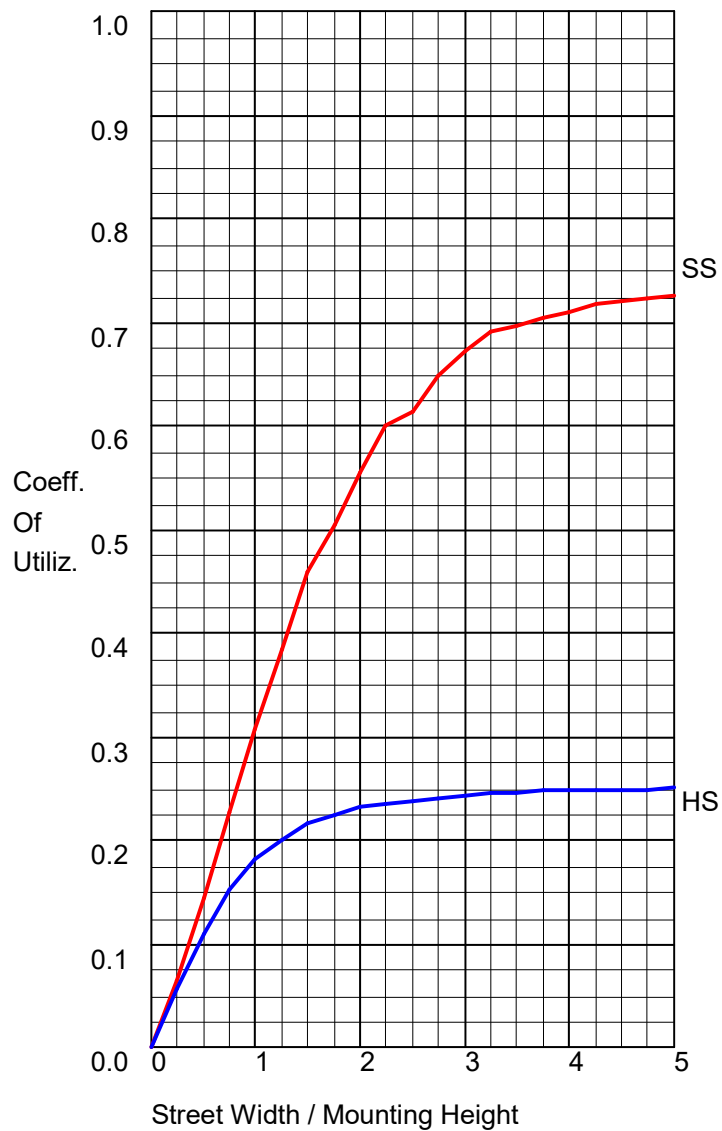
27.5	539	566
30.0	552	588
32.5	585	609
35.0	593	623
37.5	614	647
40.0	614	642
42.5	570	593
45.0	530	551
47.5	495	513
50.0	461	475
52.5	429	441
55.0	396	405
57.5	348	358
60.0	311	314
62.5	281	284
65.0	261	263
67.5	249	251
70.0	240	243
72.5	220	221
75.0	166	167
77.5	145	151
80.0	121	130
82.5	97	104
85.0	66	76
87.5	34	43
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
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	0
137.5	0	0
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**  
**PHOTOMETRIC FILENAME : LXM4-PT-FT-LED-05L-30.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.5</b>	0	0
<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	0	0

### COEFFICIENTS OF UTILIZATION

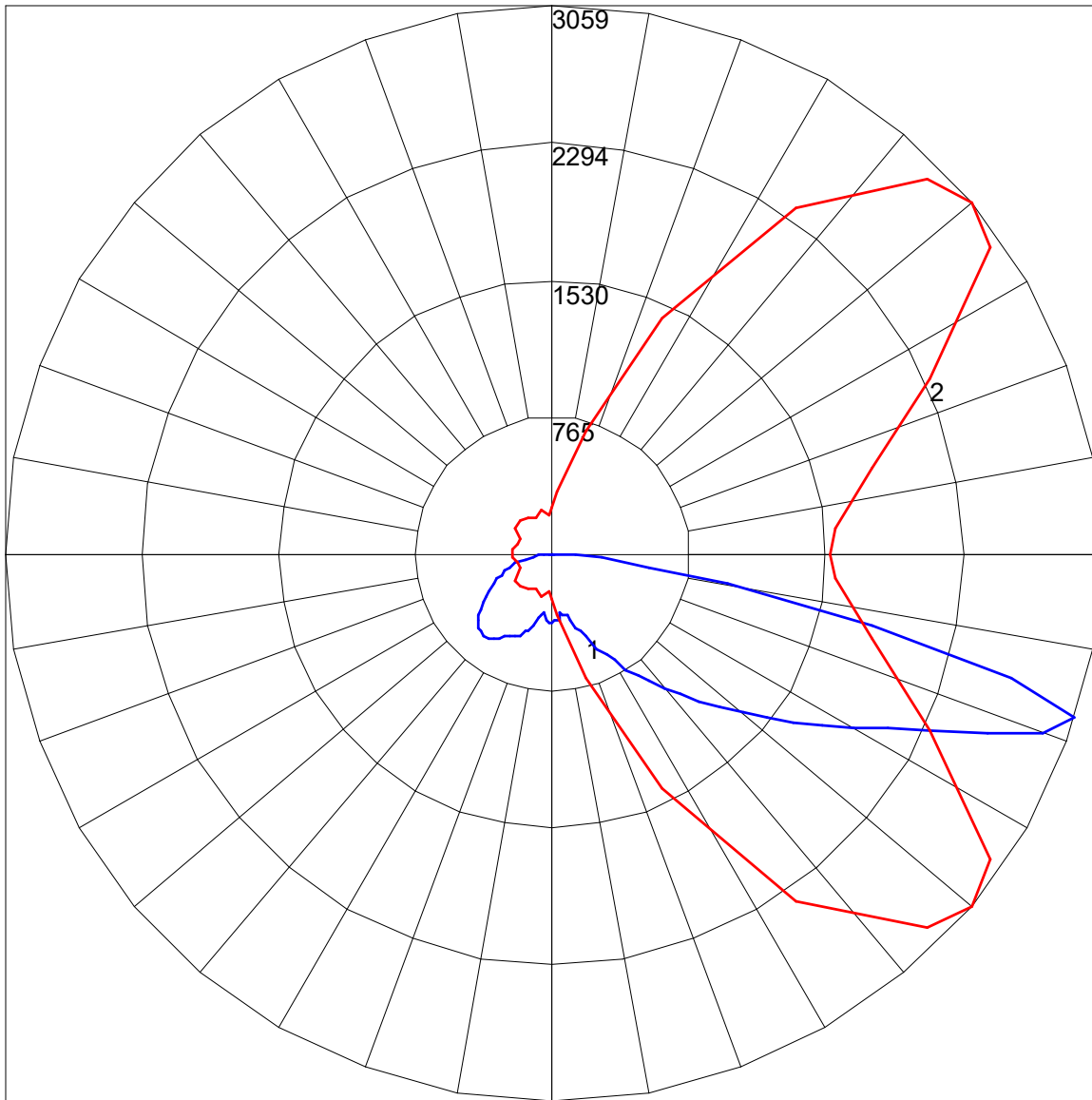


### FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3400.3	74.3
Downward House Side	1164.7	25.5
Downward Total	4565.0	99.8
Upward Street Side	5.7	0.1
Upward House Side	5.3	0.1
Upward Total	11.0	0.2
Total Flux	4576.0	100.0

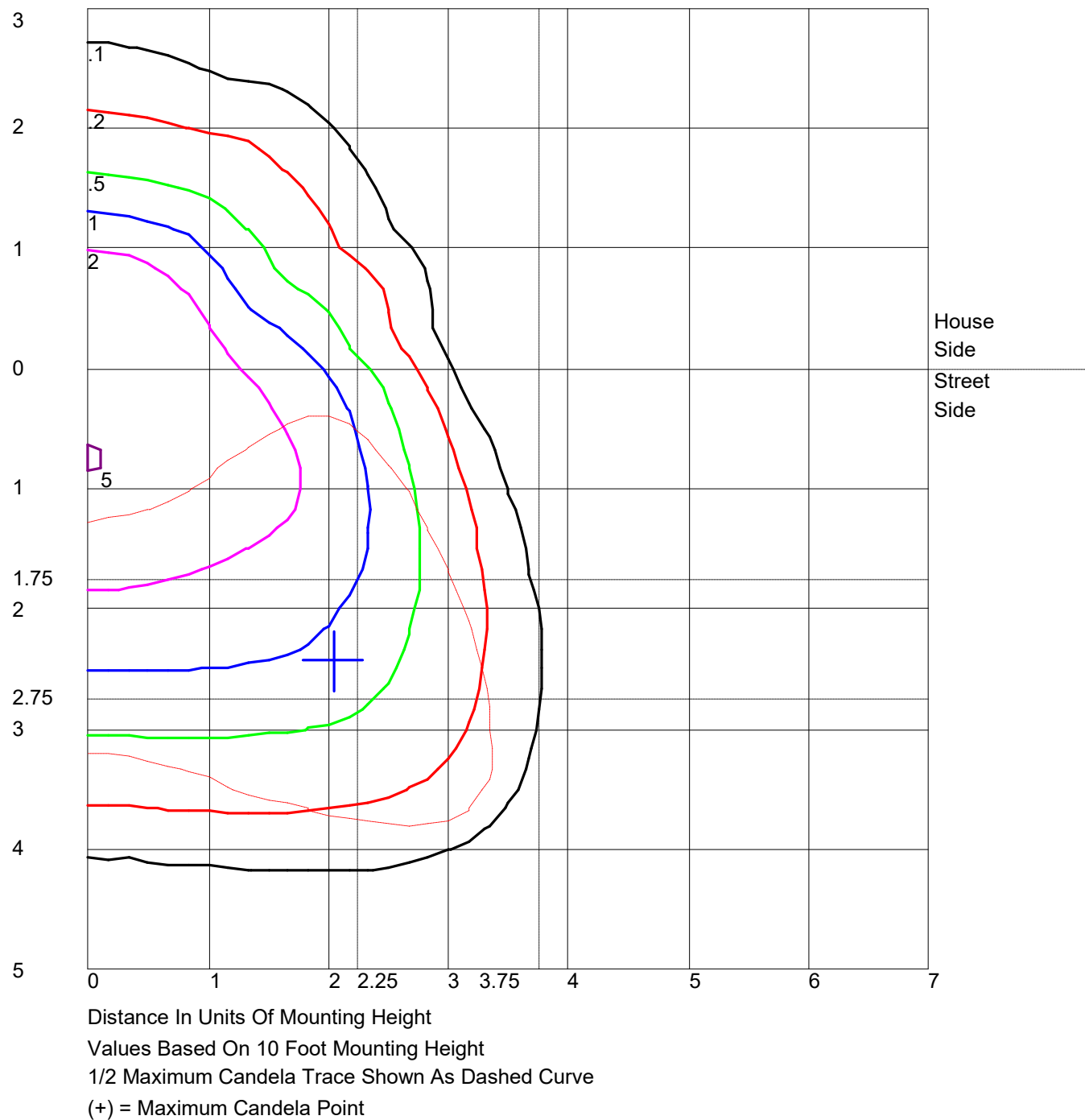


POLAR GRAPH

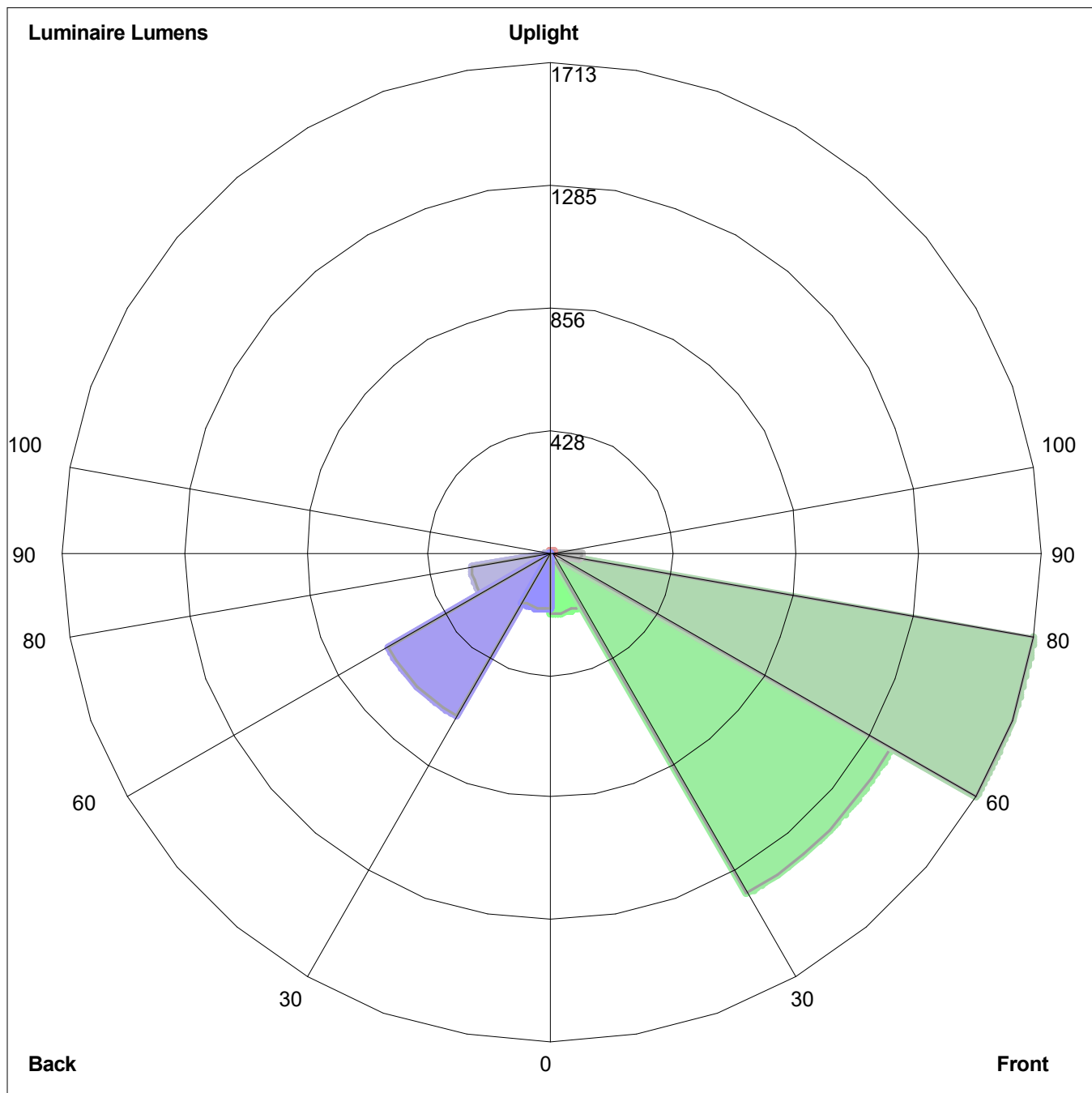


Maximum Candela = 3059 Located At Horizontal Angle = 40, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=212.0, Medium=1372.8, High=1712.8, Very High=102.8  
Back: Low=199.0, Medium=657.7, High=283.5, Very High=24.5  
Uplight: Low=3.6, High=7.4

BUG Rating : B1-U1-G2