



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-18L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11683
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/06/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-5W-LED-18L-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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16808
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	148.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8769
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	8769
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	16 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	877 (5.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	513.5	N.A.	3.1
FM - Front-Medium (30-60)	3744.1	N.A.	22.3
FH - Front-High (60-80)	4060.2	N.A.	24.2
FVH - Front-Very High (80-90)	72.1	N.A.	0.4
BL - Back-Low (0-30)	513.5	N.A.	3.1
BM - Back-Medium (30-60)	3744.1	N.A.	22.3
BH - Back-High (60-80)	4060.2	N.A.	24.2
BVH - Back-Very High (80-90)	72.1	N.A.	0.4
UL - Uplight-Low (90-100)	10.5	N.A.	0.1
UH - Uplight-High (100-180)	18.4	N.A.	0.1
Total	16808.7	N.A.	100.0
BUG Rating	B4-U2-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>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	834	834	834	834	834	834	834	834	834	834
2.5	830	832	831	832	835	833	830	825	822	826
5.0	786	781	783	800	795	791	789	783	770	780
7.5	783	770	770	771	765	761	782	799	817	798
10.0	783	779	777	752	775	783	810	815	837	837
12.5	880	862	852	826	836	827	842	875	877	885
15.0	956	932	911	929	936	918	921	923	956	972
17.5	1023	1019	994	1012	1037	1051	1021	1006	1045	1046
20.0	1121	1136	1111	1132	1149	1153	1157	1095	1129	1167
22.5	1222	1215	1248	1266	1288	1309	1314	1245	1250	1304
25.0	1340	1332	1373	1413	1451	1464	1510	1468	1377	1448
27.5	1504	1495	1552	1607	1636	1675	1692	1698	1560	1603
30.0	1635	1646	1691	1781	1850	1910	1950	1921	1770	1756
32.5	1877	1884	1908	1967	2081	2187	2229	2161	1991	1918
35.0	2056	2089	2107	2206	2324	2491	2512	2427	2236	2095
37.5	2340	2361	2334	2392	2603	2745	2790	2698	2506	2291
40.0	2508	2531	2591	2662	2865	3062	3053	2983	2748	2451
42.5	2672	2696	2745	2891	3162	3280	3319	3203	2944	2607
45.0	2840	2878	2910	3090	3367	3498	3496	3390	3136	2765
47.5	3018	3055	3115	3277	3538	3653	3668	3580	3337	2959
50.0	3217	3254	3316	3456	3697	3820	3841	3772	3548	3183
52.5	3402	3450	3512	3650	3873	3999	4015	3974	3759	3405
55.0	3619	3672	3735	3864	4051	4189	4208	4193	4000	3638
57.5	3872	3935	4016	4117	4277	4459	4461	4463	4285	3904
60.0	4166	4218	4323	4464	4654	4877	4836	4831	4647	4262
62.5	4467	4520	4633	4864	5206	5541	5428	5352	5048	4577
65.0	4698	4792	4953	5280	5863	6396	6169	5837	5407	4849
67.5	4568	4685	5021	5637	6646	7463	6973	6330	5730	5027
70.0	3532	3645	4140	5159	7136	8769	7663	6210	4934	3971
72.5	2011	2091	2589	3492	5657	7872	6314	4326	3004	2240
75.0	694	726	937	1650	3520	5442	3904	2235	1287	948
77.5	341	343	415	625	1337	2422	1643	966	560	429
80.0	158	158	184	275	539	877	677	416	249	220
82.5	105	104	113	143	216	286	222	185	158	157
85.0	70	70	73	89	119	134	124	111	97	99
87.5	39	39	40	47	55	57	52	48	43	39
90.0	10	11	13	13	14	16	14	12	11	8
92.5	7	7	9	10	13	15	14	12	11	8
95.0	7	7	8	9	11	14	13	12	10	7
97.5	6	6	7	7	9	11	10	9	8	5
100.0	5	5	5	6	7	8	8	7	6	5
102.5	5	5	5	5	6	6	6	6	5	4
105.0	4	4	5	5	5	5	5	5	5	4
107.5	4	4	5	5	5	5	5	5	5	4
110.0	4	4	5	5	5	5	5	5	5	4
112.5	4	4	5	5	5	5	5	5	5	4
115.0	4	4	5	5	5	5	5	5	5	4
117.5	5	5	5	5	5	5	5	5	5	5
120.0	5	5	5	5	6	6	5	5	5	5
122.5	5	5	5	6	6	6	5	5	5	5
125.0	5	5	5	6	6	6	5	5	5	5
127.5	5	5	5	6	6	6	5	5	5	5
130.0	5	5	5	6	6	6	5	5	5	5

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CANDELA TABULATION - (Cont.)

132.5	5	5	5	5	6	5	5	5	5	5
135.0	5	5	5	5	5	5	4	5	5	5
137.5	2	2	3	3	2	2	2	2	2	2
140.0	0	1	1	1	1	1	1	1	0	0
142.5	1	1	1	1	1	0	1	1	0	0
145.0	1	1	1	1	0	0	0	0	0	0
147.5	0	1	1	1	0	0	0	0	0	0
150.0	0	0	1	0	0	0	0	0	0	0
152.5	1	1	1	0	0	0	0	0	0	0
155.0	1	1	1	1	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	1	0	0	0	0	0	0
172.5	0	0	0	1	0	0	0	0	0	0
175.0	0	0	0	1	0	0	0	0	0	0
177.5	0	0	1	1	1	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

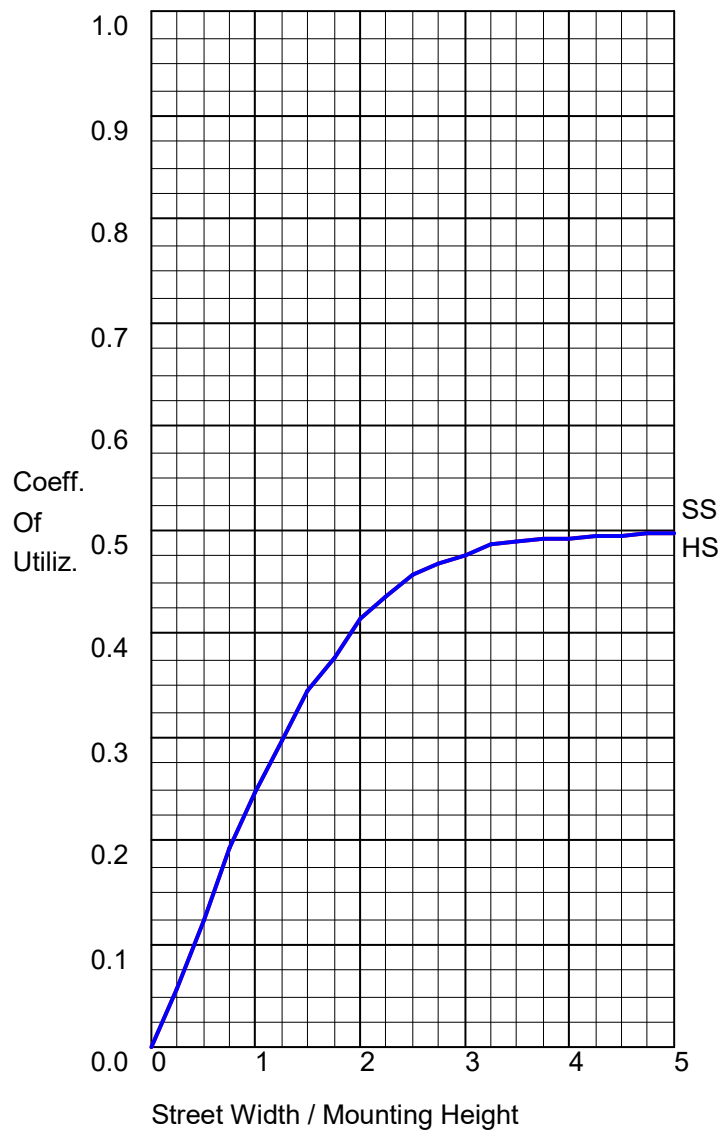
	90
0.0	834
2.5	835
5.0	785
7.5	805
10.0	835
12.5	904
15.0	976
17.5	1058
20.0	1156
22.5	1283
25.0	1457
27.5	1597
30.0	1767
32.5	1922
35.0	2111
37.5	2309
40.0	2461
42.5	2612
45.0	2771
47.5	2949
50.0	3152
52.5	3336
55.0	3554
57.5	3810
60.0	4129
62.5	4409
65.0	4641
67.5	4795
70.0	3757
72.5	2070
75.0	908
77.5	414

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CANDELA TABULATION - (Cont.)

80.0	219
82.5	154
85.0	96
87.5	36
90.0	6
92.5	5
95.0	5
97.5	5
100.0	4
102.5	4
105.0	3
107.5	4
110.0	4
112.5	4
115.0	4
117.5	5
120.0	5
122.5	5
125.0	5
127.5	5
130.0	5
132.5	5
135.0	5
137.5	2
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

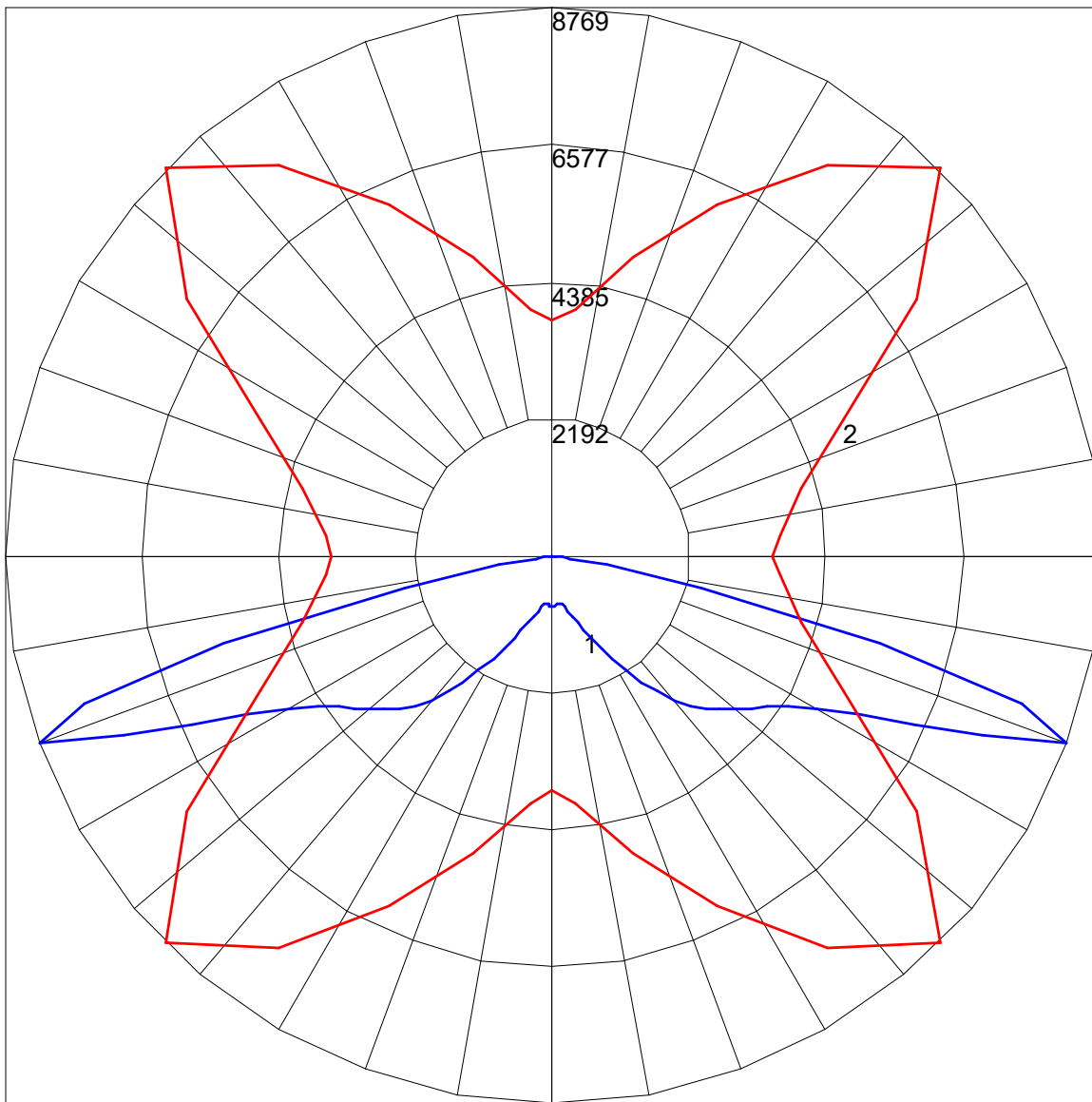
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

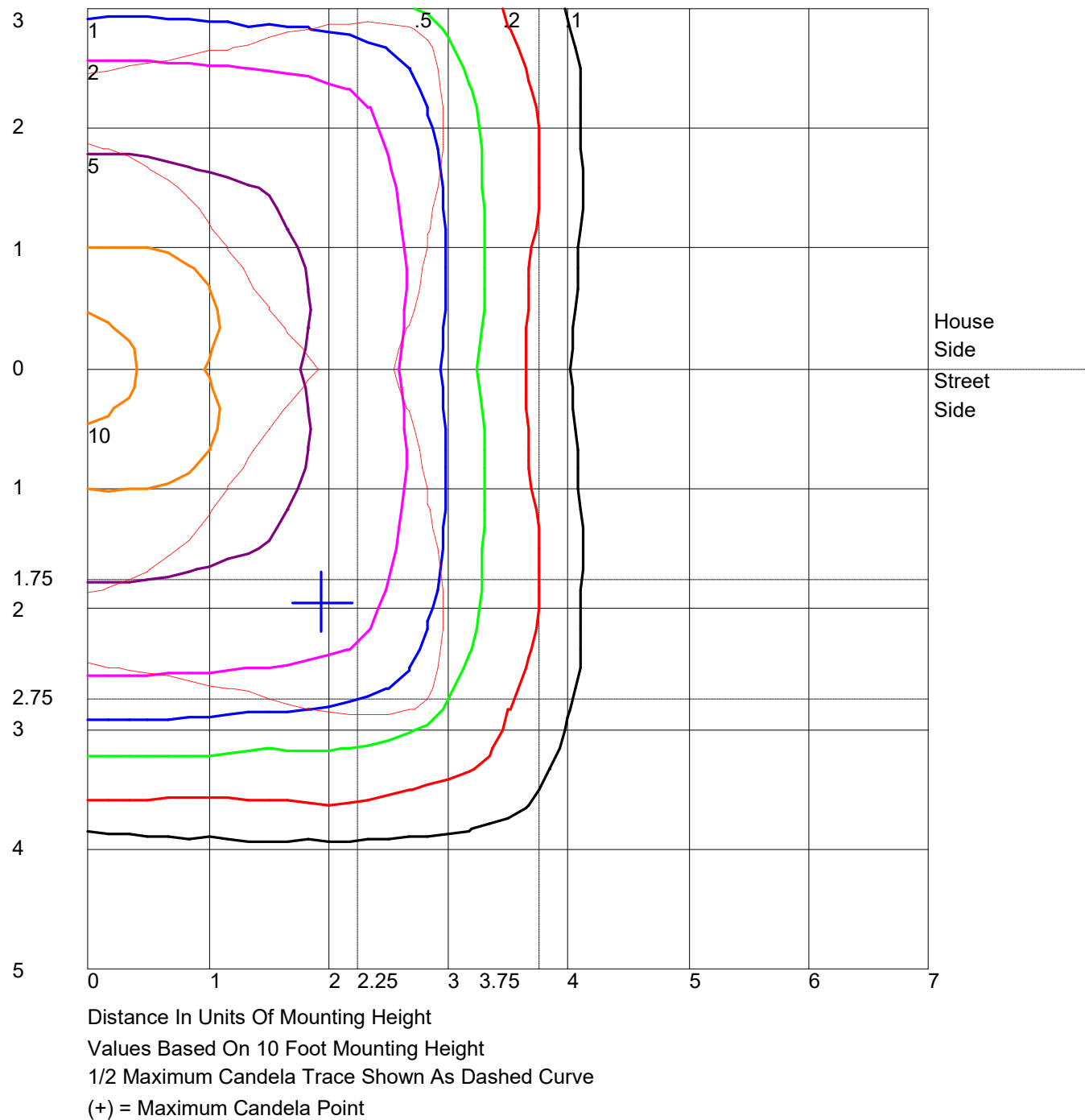
	Lumens	Percent Of Luminaire
Downward Street Side	8389.8	49.9
Downward House Side	8389.8	49.9
Downward Total	16779.6	99.8
Upward Street Side	14.4	0.1
Upward House Side	14.4	0.1
Upward Total	28.8	0.2
Total Flux	16808.4	100.0

POLAR GRAPH

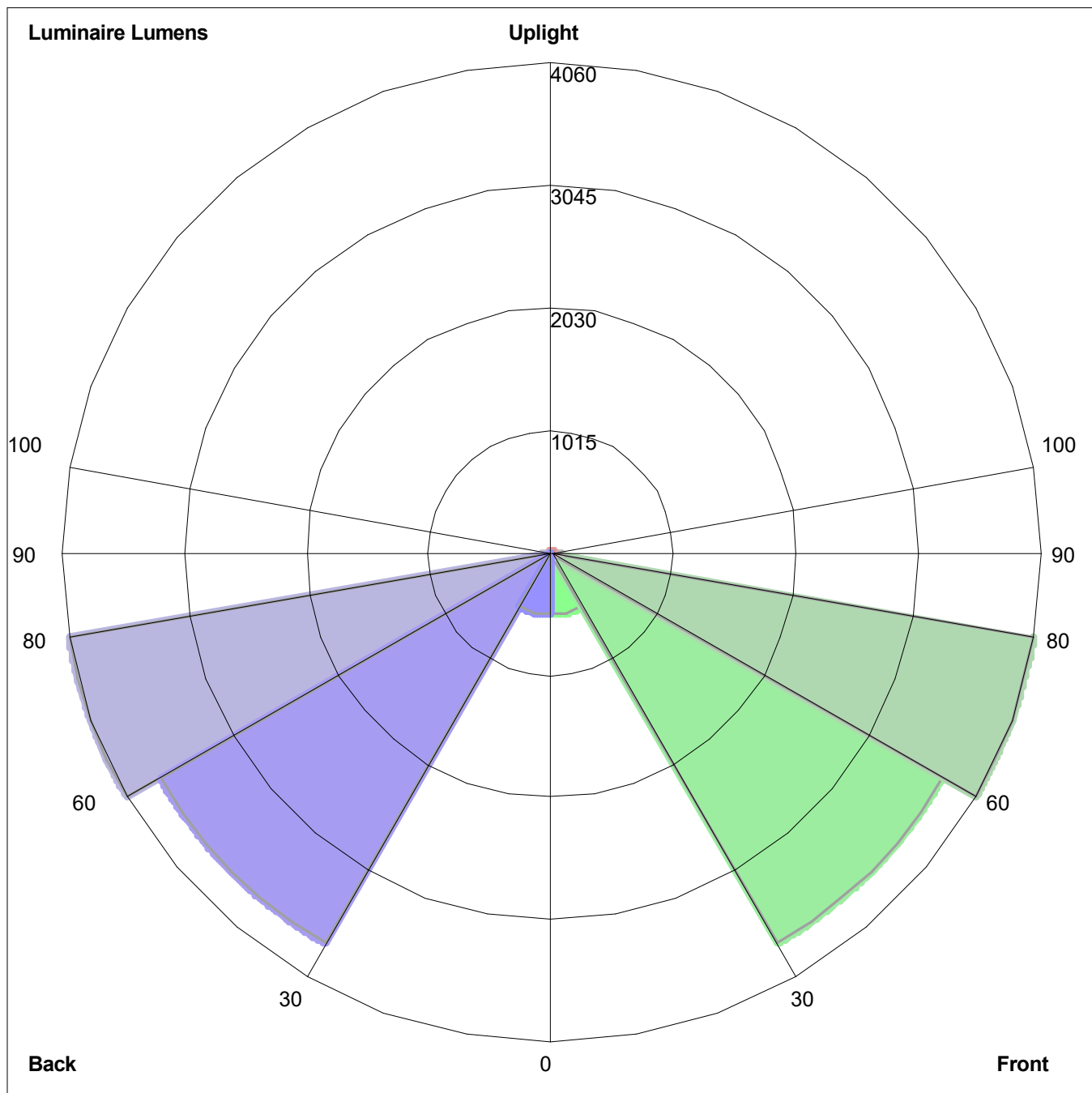


Maximum Candela = 8769 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=513.5, Medium=3744.1, High=4060.2, Very High=72.1
Back: Low=513.5, Medium=3744.1, High=4060.2, Very High=72.1
Uplight: Low=10.5, High=18.4

BUG Rating : B4-U2-G2