



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-18L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11684

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/06/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-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	16760
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	8716
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	8716
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	15 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	853 (5.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	511.6	N.A.	3.1
FM - Front-Medium (30-60)	3738.8	N.A.	22.3
FH - Front-High (60-80)	4042.8	N.A.	24.1
FVH - Front-Very High (80-90)	71.7	N.A.	0.4
BL - Back-Low (0-30)	511.6	N.A.	3.1
BM - Back-Medium (30-60)	3738.8	N.A.	22.3
BH - Back-High (60-80)	4042.8	N.A.	24.1
BVH - Back-Very High (80-90)	71.7	N.A.	0.4
UL - Uplight-Low (90-100)	10.5	N.A.	0.1
UH - Uplight-High (100-180)	19.7	N.A.	0.1
Total	16760.0	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	829	829	829	829	829	829	829	829	829	829
2.5	825	827	827	825	831	827	825	821	818	822
5.0	782	775	780	795	792	785	783	781	766	775
7.5	779	767	765	766	762	758	780	792	813	795
10.0	773	774	774	750	771	780	805	808	832	834
12.5	873	855	850	825	835	823	838	866	875	881
15.0	952	926	909	927	932	916	913	919	950	967
17.5	1020	1015	989	1008	1034	1046	1017	1003	1033	1041
20.0	1116	1133	1105	1132	1145	1149	1157	1092	1124	1161
22.5	1221	1210	1245	1259	1277	1303	1311	1246	1250	1304
25.0	1329	1331	1368	1394	1448	1461	1506	1464	1375	1442
27.5	1506	1493	1549	1594	1631	1669	1692	1701	1560	1594
30.0	1631	1644	1678	1774	1838	1908	1953	1917	1768	1743
32.5	1883	1878	1898	1955	2070	2175	2224	2161	1990	1910
35.0	2054	2081	2093	2208	2321	2476	2496	2423	2222	2089
37.5	2340	2344	2339	2389	2601	2734	2773	2691	2493	2291
40.0	2512	2520	2591	2665	2868	3053	3051	2956	2747	2451
42.5	2673	2693	2746	2880	3164	3280	3311	3187	2942	2608
45.0	2844	2870	2908	3083	3364	3493	3488	3383	3133	2762
47.5	3022	3052	3099	3279	3530	3654	3659	3576	3339	2956
50.0	3220	3252	3305	3456	3688	3817	3830	3771	3549	3172
52.5	3409	3447	3508	3639	3869	3987	4006	3980	3759	3389
55.0	3628	3670	3731	3854	4048	4184	4206	4192	3995	3631
57.5	3881	3921	4010	4128	4287	4455	4447	4469	4273	3906
60.0	4154	4219	4327	4463	4667	4877	4833	4834	4637	4259
62.5	4480	4523	4639	4855	5229	5561	5426	5334	5047	4574
65.0	4701	4780	4954	5279	5884	6413	6149	5808	5406	4841
67.5	4557	4661	5008	5618	6625	7439	6958	6312	5713	4996
70.0	3503	3594	4154	5130	7136	8716	7632	6135	4906	3976
72.5	1989	2046	2583	3593	5591	7778	6231	4247	2940	2234
75.0	691	708	936	1678	3450	5350	3827	2177	1287	967
77.5	339	343	410	610	1306	2361	1648	945	572	419
80.0	157	157	180	268	528	853	675	406	247	218
82.5	106	106	112	142	213	289	223	190	156	156
85.0	70	71	73	89	119	136	125	111	97	99
87.5	39	38	41	47	57	57	52	47	43	41
90.0	10	10	13	13	14	15	14	12	11	8
92.5	7	8	9	10	13	15	14	13	11	8
95.0	7	7	8	9	11	14	13	12	10	7
97.5	6	6	7	7	9	11	11	9	8	6
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	5	5	5	5	5	5	5	5	5	5
117.5	5	5	5	5	6	6	5	5	5	5
120.0	5	5	5	6	6	6	6	5	5	5
122.5	5	5	5	6	7	6	6	5	5	5
125.0	5	5	6	7	7	7	6	6	5	5
127.5	5	5	6	6	7	6	6	5	5	5
130.0	5	5	6	6	6	6	6	5	5	5

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CANDELA TABULATION - (Cont.)

132.5	5	5	6	6	6	6	5	5	5	5
135.0	5	5	5	5	5	5	5	5	5	5
137.5	2	3	3	3	3	2	2	2	3	3
140.0	1	1	1	1	1	1	1	1	1	1
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	1	1
150.0	1	1	1	1	1	0	1	1	0	0
152.5	1	1	1	1	1	0	1	1	0	0
155.0	1	1	1	1	0	0	1	1	0	0
157.5	1	1	1	1	0	0	1	1	0	0
160.0	0	1	1	0	0	0	0	0	0	0
162.5	1	1	1	1	0	0	0	1	0	0
165.0	0	1	1	1	0	0	0	0	0	0
167.5	0	0	1	1	0	0	0	0	0	0
170.0	0	1	1	1	0	0	0	1	0	0
172.5	1	1	1	1	1	0	0	1	0	0
175.0	1	1	1	1	1	1	1	1	1	0
177.5	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles

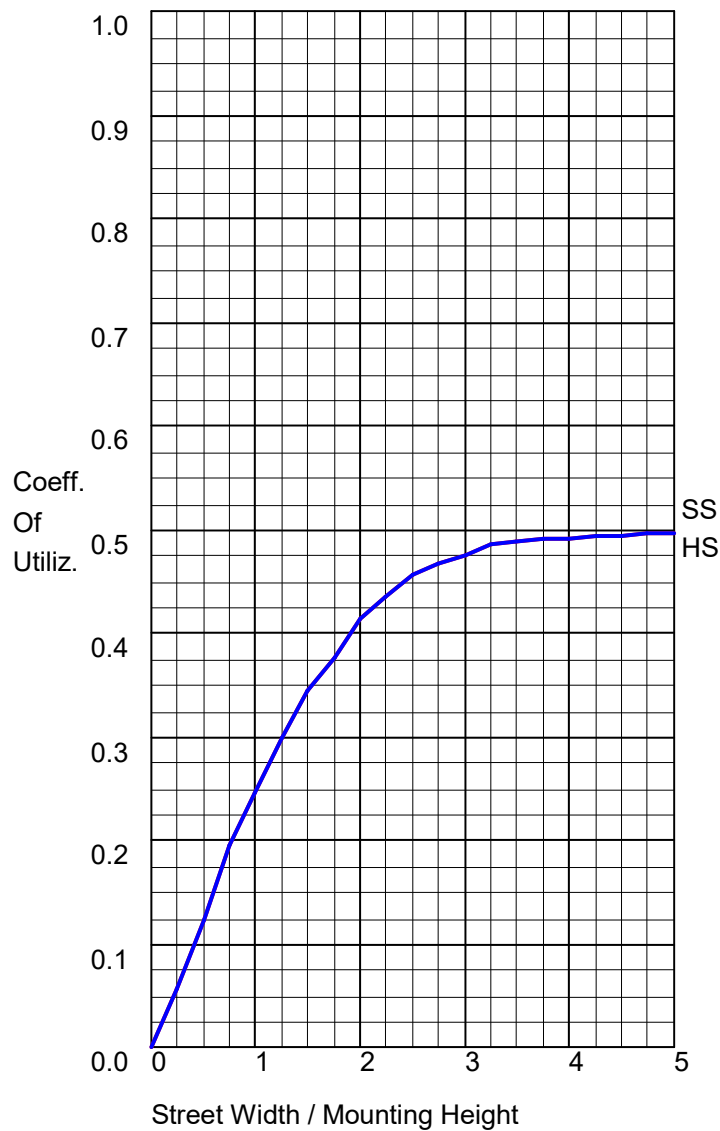
	<u>90</u>
0.0	829
2.5	829
5.0	781
7.5	802
10.0	830
12.5	899
15.0	972
17.5	1053
20.0	1151
22.5	1278
25.0	1443
27.5	1583
30.0	1761
32.5	1918
35.0	2108
37.5	2300
40.0	2458
42.5	2609
45.0	2771
47.5	2943
50.0	3135
52.5	3330
55.0	3558
57.5	3816
60.0	4142
62.5	4406
65.0	4626
67.5	4769
70.0	3778
72.5	2040
75.0	894
77.5	410

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CANDELA TABULATION - (Cont.)

80.0	218
82.5	154
85.0	95
87.5	38
90.0	6
92.5	6
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	5
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	3
140.0	1
142.5	0
145.0	0
147.5	1
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	1

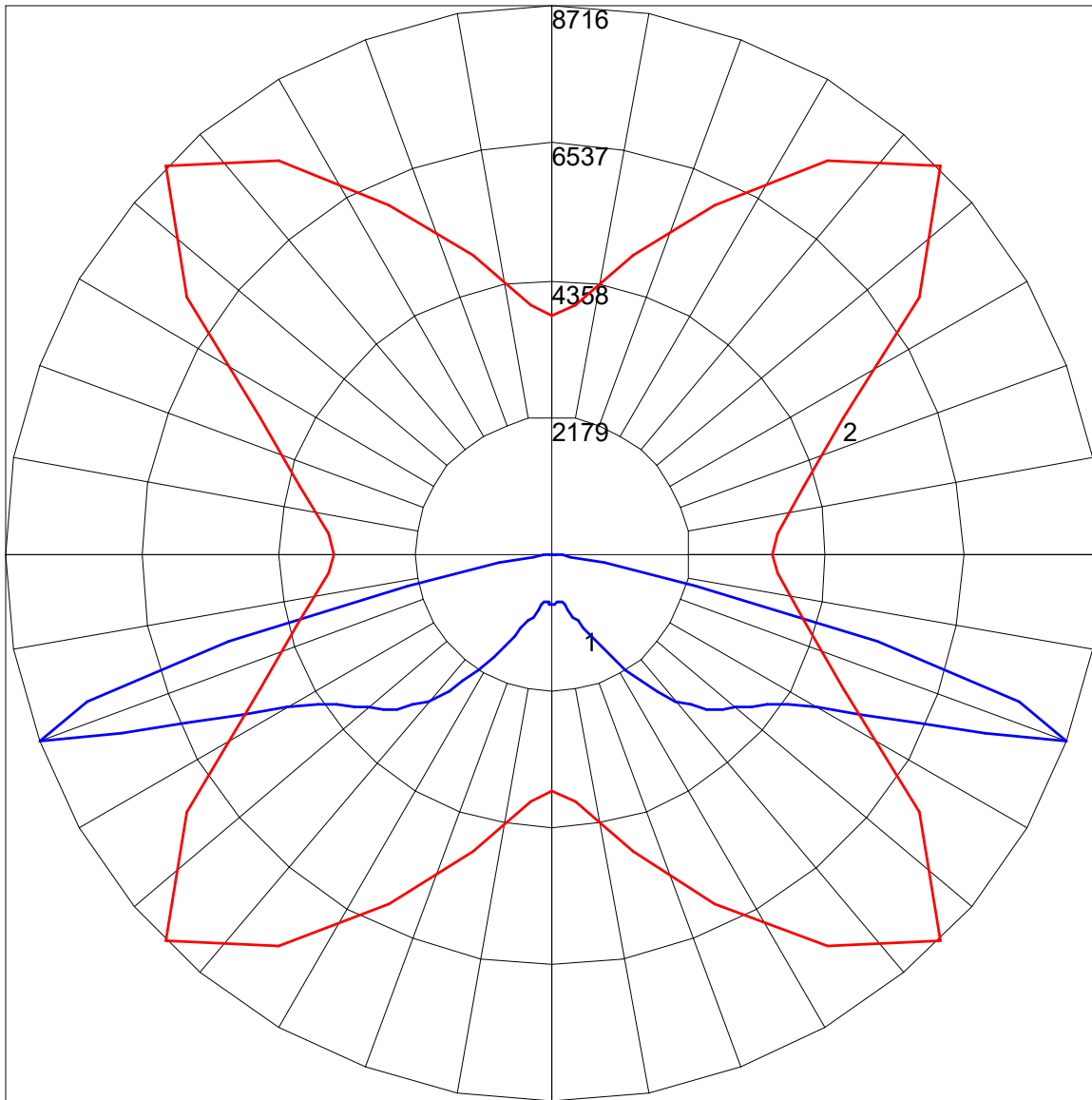
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

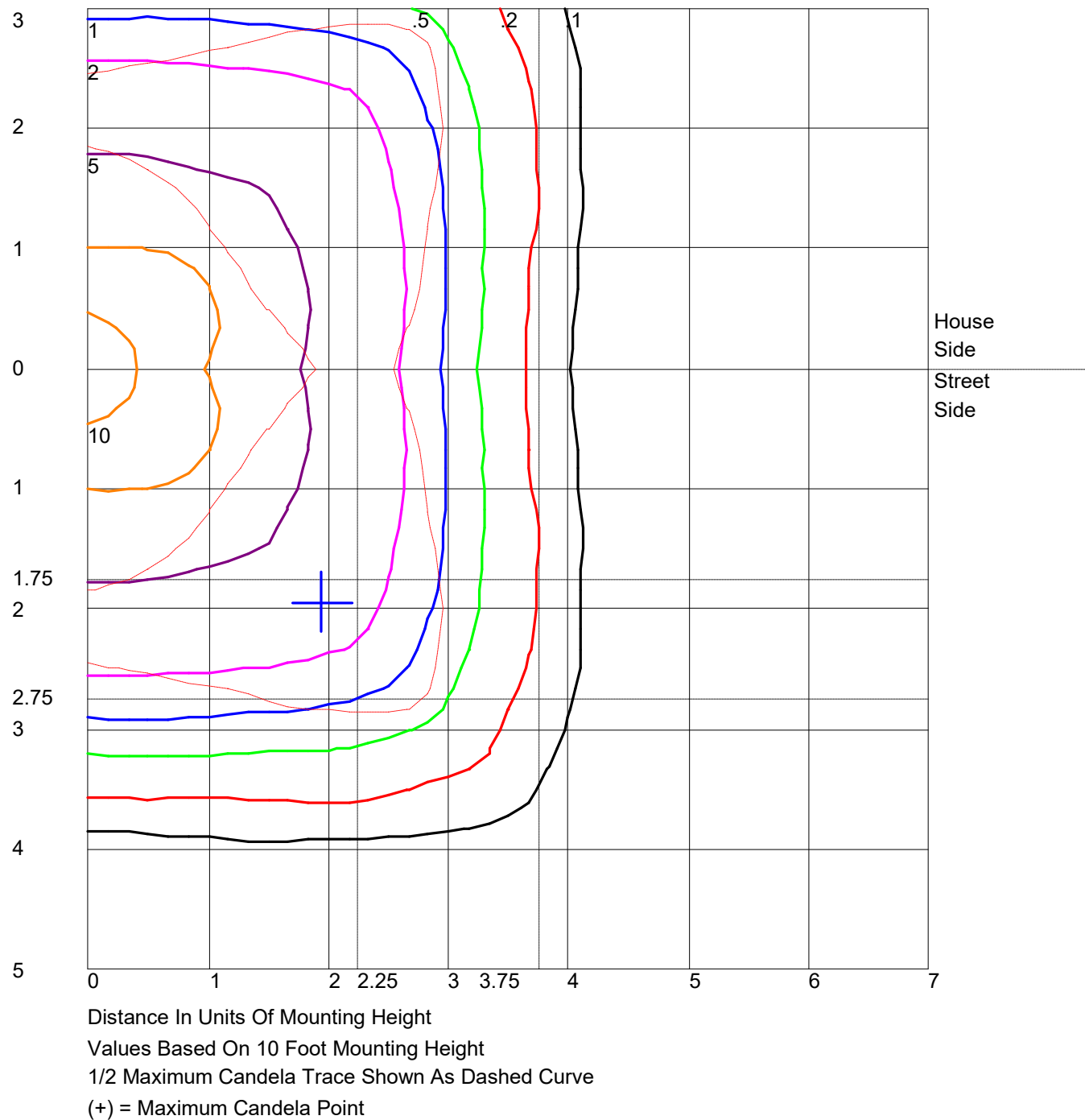
	Lumens	Percent Of Luminaire
Downward Street Side	8365.0	49.9
Downward House Side	8365.0	49.9
Downward Total	16730.0	99.8
Upward Street Side	15.1	0.1
Upward House Side	15.1	0.1
Upward Total	30.2	0.2
Total Flux	16760.2	100.0

POLAR GRAPH

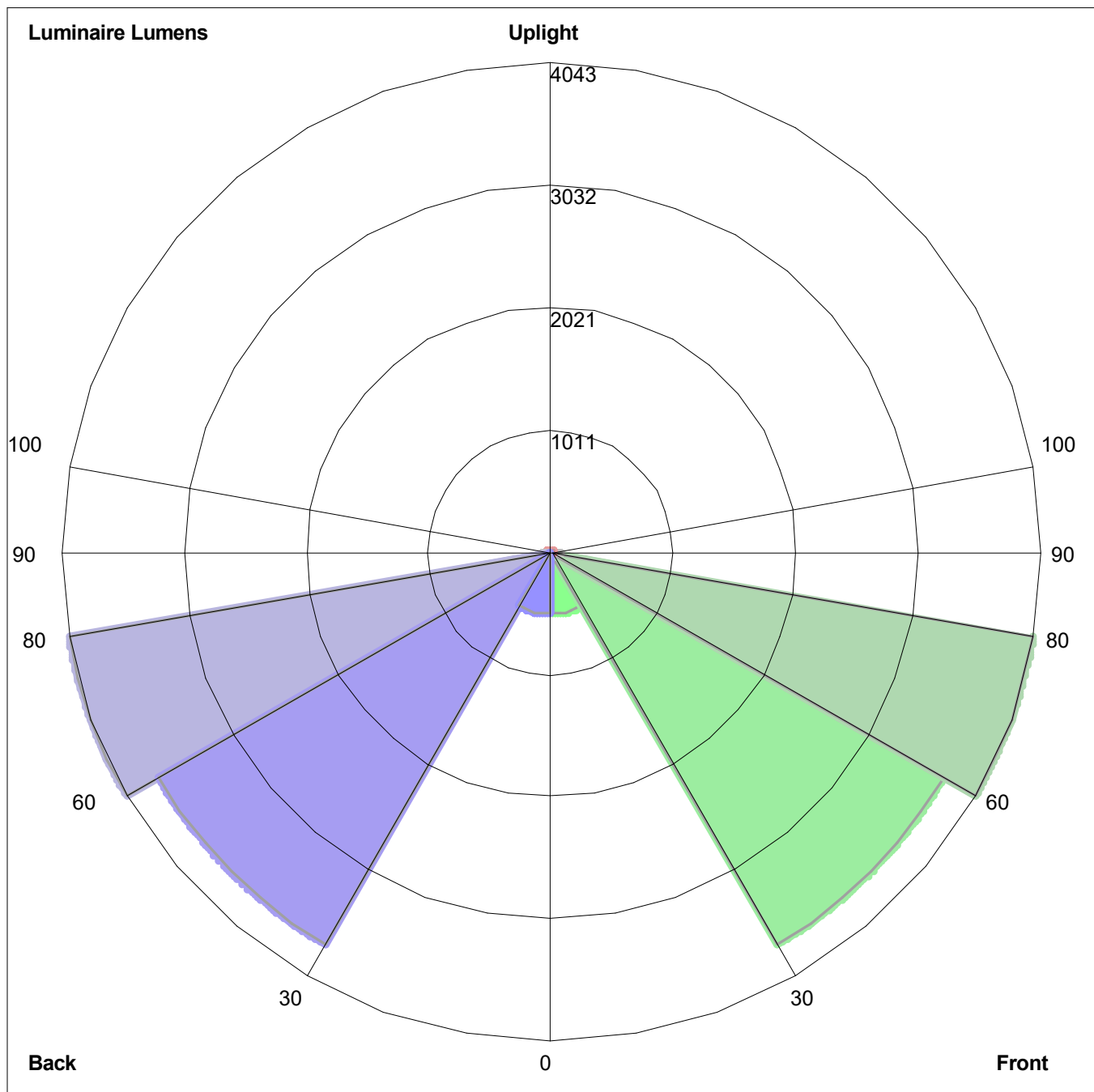


Maximum Candela = 8716 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=511.6, Medium=3738.8, High=4042.8, Very High=71.7
Back: Low=511.6, Medium=3738.8, High=4042.8, Very High=71.7
Uplight: Low=10.5, High=19.7

BUG Rating : B4-U2-G2