



IES ROAD REPORT
PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-25L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13226
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 01/24/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-5W-LED-25L-40
[OTHER] TEST PROCEDURE: IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	28435
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16343
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	16343
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	29 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1535 (5.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	929.3	N.A.	3.3
FM - Front-Medium (30-60)	6083.5	N.A.	21.4
FH - Front-High (60-80)	7077.7	N.A.	24.9
FVH - Front-Very High (80-90)	95.4	N.A.	0.3
BL - Back-Low (0-30)	929.3	N.A.	3.3
BM - Back-Medium (30-60)	6083.5	N.A.	21.4
BH - Back-High (60-80)	7077.7	N.A.	24.9
BVH - Back-Very High (80-90)	95.4	N.A.	0.3
UL - Uplight-Low (90-100)	21.1	N.A.	0.1
UH - Uplight-High (100-180)	41.7	N.A.	0.1
Total	28434.6	N.A.	100.0
BUG Rating	B5-U2-G3		

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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	1563	1563	1563	1563	1563	1563	1563	1563	1563	1563
2.5	1586	1592	1597	1585	1578	1559	1552	1539	1530	1533
5.0	1505	1509	1503	1506	1536	1560	1588	1541	1524	1489
7.5	1425	1431	1424	1421	1420	1421	1466	1552	1532	1499
10.0	1504	1460	1483	1447	1456	1443	1457	1522	1651	1543
12.5	1528	1525	1523	1506	1506	1533	1542	1572	1694	1682
15.0	1618	1605	1632	1625	1574	1604	1678	1661	1838	1815
17.5	1819	1771	1789	1752	1753	1742	1802	1866	1949	1975
20.0	2097	2097	2005	1913	1934	1950	1962	2056	2130	2181
22.5	2390	2377	2309	2272	2147	2169	2178	2255	2320	2385
25.0	2784	2812	2675	2553	2555	2419	2466	2533	2595	2659
27.5	3107	3097	3093	3041	2895	2856	2750	2806	2906	2964
30.0	3477	3500	3425	3401	3422	3232	3083	3089	3160	3266
32.5	3711	3736	3848	3903	3811	3727	3429	3379	3427	3454
35.0	3894	3921	4066	4231	4256	4163	3844	3587	3592	3647
37.5	4101	4128	4291	4479	4591	4528	4141	3801	3798	3864
40.0	4334	4367	4535	4751	4936	4826	4447	4033	4025	4091
42.5	4606	4640	4804	5044	5241	5108	4754	4261	4241	4345
45.0	4879	4915	5110	5407	5553	5451	5101	4531	4513	4601
47.5	5181	5217	5420	5733	5895	5860	5441	4808	4764	4868
50.0	5501	5554	5756	6071	6302	6248	5777	5082	5043	5166
52.5	5853	5915	6117	6440	6705	6642	6151	5396	5362	5486
55.0	6218	6291	6499	6846	7151	7087	6575	5778	5710	5841
57.5	6627	6701	6932	7301	7662	7635	7065	6214	6133	6244
60.0	7055	7131	7424	7849	8307	8439	7685	6740	6622	6726
62.5	7544	7617	7967	8504	9163	9464	8531	7470	7230	7278
65.0	8337	8448	8796	9393	10333	10831	9710	8402	8004	8010
67.5	8686	8859	9681	10835	12210	12871	11553	9804	8911	8898
70.0	6913	7074	8143	10293	14035	16343	13536	10050	8107	7571
72.5	3841	3911	5054	7461	11560	15031	11184	6988	4946	4220
75.0	1363	1394	1809	3363	7061	10463	6748	3255	1881	1646
77.5	564	587	757	1229	2577	4485	2724	1380	814	671
80.0	189	191	241	442	998	1535	1137	551	307	276
82.5	105	104	110	164	299	495	318	214	163	181
85.0	61	62	63	85	130	170	137	115	96	108
87.5	29	29	29	37	50	57	56	53	46	45
90.0	8	8	11	13	18	23	27	29	28	25
92.5	6	6	8	12	18	26	29	31	29	27
95.0	6	6	8	12	19	27	30	31	30	28
97.5	5	5	7	11	17	24	27	29	28	26
100.0	5	6	7	10	14	18	22	25	25	23
102.5	6	6	7	9	11	14	17	20	20	19
105.0	5	6	7	8	9	11	12	15	15	14
107.5	6	6	7	7	8	9	10	11	11	11
110.0	6	6	7	7	7	8	9	9	9	9
112.5	6	6	6	7	7	7	8	8	8	7
115.0	6	6	6	7	7	7	8	8	7	6
117.5	6	6	7	8	8	8	8	8	8	6
120.0	7	7	8	8	9	9	9	9	8	7
122.5	7	7	8	9	9	10	10	9	8	7
125.0	8	8	8	9	9	9	10	9	8	7
127.5	8	8	9	9	9	10	10	10	8	7
130.0	9	9	10	10	10	10	11	10	9	8

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CANDELA TABULATION - (Cont.)

132.5	10	10	10	10	10	10	11	11	9	8
135.0	10	10	11	10	10	10	11	11	10	8
137.5	11	11	11	10	10	10	11	11	10	9
140.0	11	11	11	11	10	10	11	11	10	9
142.5	11	10	10	10	9	10	10	11	10	8
145.0	6	6	6	6	6	6	6	7	7	6
147.5	4	4	4	3	3	3	3	4	4	4
150.0	4	4	4	3	3	3	3	4	5	4
152.5	4	4	3	3	3	3	3	4	4	4
155.0	3	3	3	3	3	3	3	4	4	4
157.5	3	4	4	3	3	3	3	4	4	4
160.0	3	3	3	3	3	2	3	4	4	4
162.5	3	3	3	3	3	2	3	4	4	4
165.0	3	3	3	3	2	2	2	3	4	4
167.5	3	3	3	3	2	2	2	3	4	4
170.0	3	3	3	3	2	2	2	3	4	4
172.5	2	2	3	2	2	2	2	3	3	3
175.0	2	2	2	2	2	2	2	3	3	3
177.5	2	2	2	2	2	2	2	3	3	3
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Angles **Horizontal Angles**

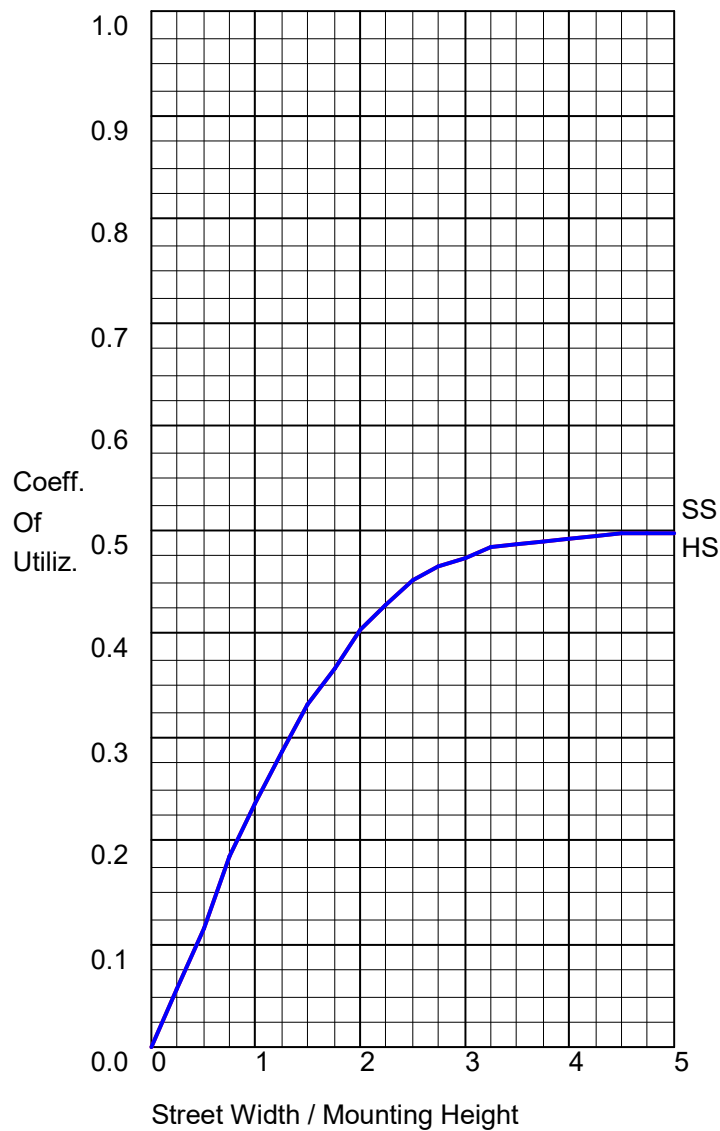
	90
0.0	1563
2.5	1529
5.0	1498
7.5	1497
10.0	1526
12.5	1647
15.0	1789
17.5	1933
20.0	2131
22.5	2358
25.0	2578
27.5	2838
30.0	3103
32.5	3256
35.0	3413
37.5	3605
40.0	3811
42.5	4038
45.0	4270
47.5	4513
50.0	4790
52.5	5095
55.0	5425
57.5	5806
60.0	6228
62.5	6688
65.0	7412
67.5	8493
70.0	7233
72.5	4144
75.0	1551
77.5	656

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CANDELA TABULATION - (Cont.)

80.0	255
82.5	154
85.0	82
87.5	24
90.0	4
92.5	5
95.0	5
97.5	5
100.0	5
102.5	6
105.0	5
107.5	6
110.0	6
112.5	6
115.0	6
117.5	6
120.0	6
122.5	6
125.0	7
127.5	7
130.0	8
132.5	8
135.0	9
137.5	9
140.0	9
142.5	9
145.0	6
147.5	4
150.0	4
152.5	4
155.0	5
157.5	4
160.0	4
162.5	4
165.0	4
167.5	4
170.0	4
172.5	3
175.0	3
177.5	3
180.0	2

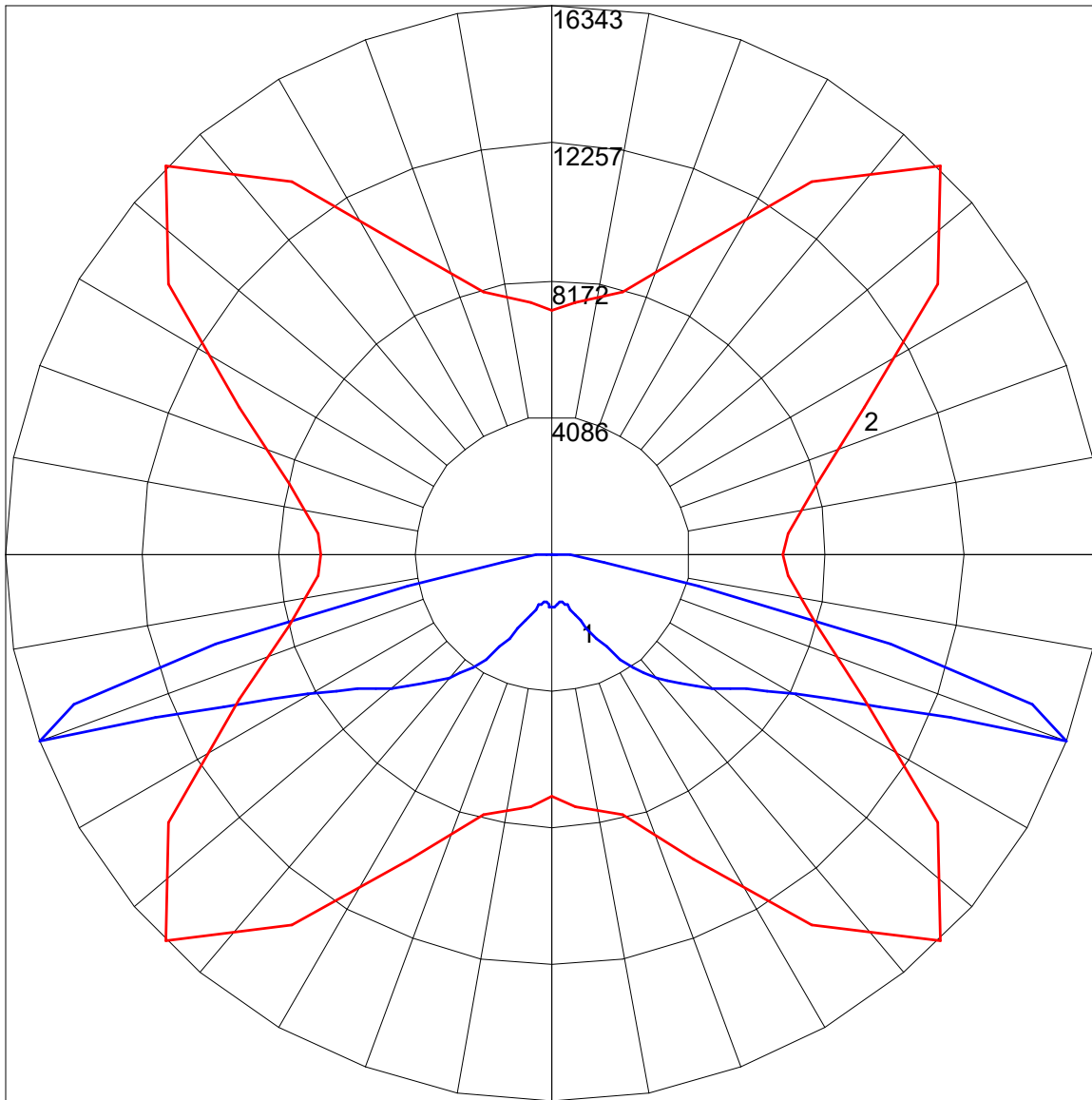
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

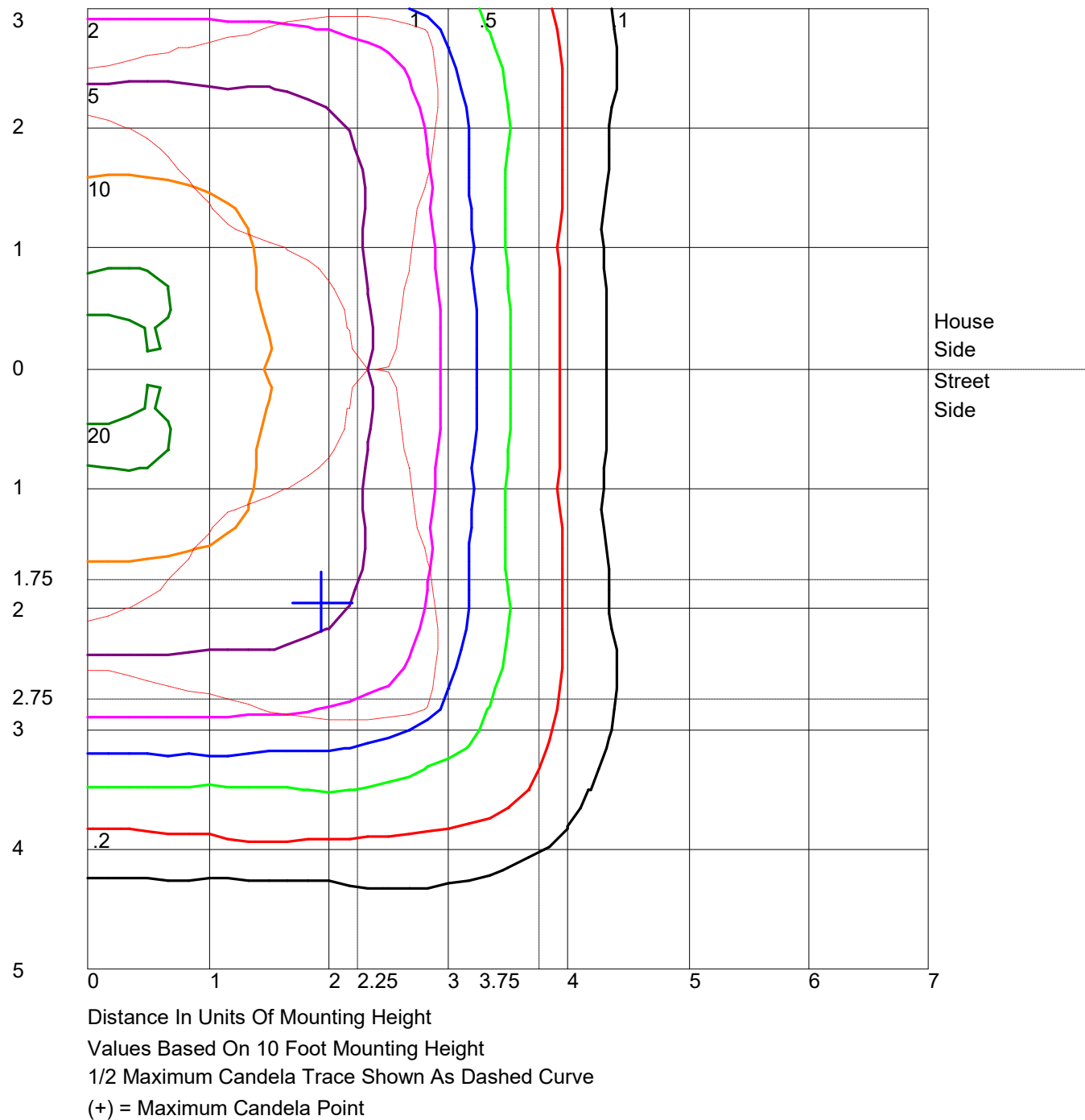
	Lumens	Percent Of Luminaire
Downward Street Side	14185.9	49.9
Downward House Side	14185.9	49.9
Downward Total	28371.8	99.8
Upward Street Side	31.4	0.1
Upward House Side	31.4	0.1
Upward Total	62.8	0.2
Total Flux	28434.6	100.0

POLAR GRAPH

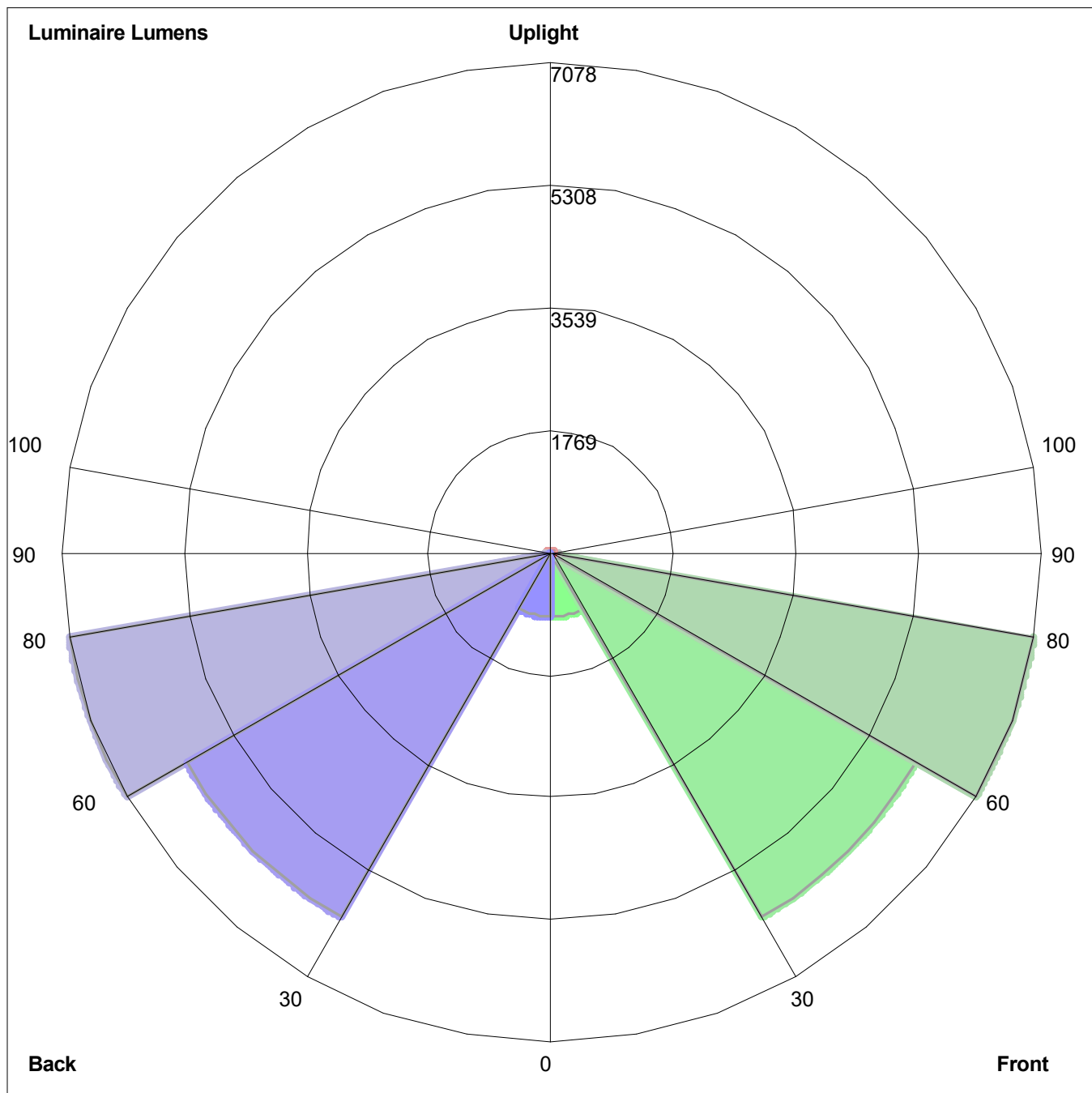


Maximum Candela = 16343 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=929.3, Medium=6083.5, High=7077.7, Very High=95.4
Back: Low=929.3, Medium=6083.5, High=7077.7, Very High=95.4
Uplight: Low=21.1, High=41.7

BUG Rating : B5-U2-G3