



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-25L-30.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-30
[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] 3000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26219
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	232
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15070
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	15070
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	27 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1416 (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)	857.0	N.A.	3.3
FM - Front-Medium (30-60)	5609.7	N.A.	21.4
FH - Front-High (60-80)	6526.3	N.A.	24.9
FVH - Front-Very High (80-90)	88.0	N.A.	0.3
BL - Back-Low (0-30)	857.0	N.A.	3.3
BM - Back-Medium (30-60)	5609.7	N.A.	21.4
BH - Back-High (60-80)	6526.3	N.A.	24.9
BVH - Back-Very High (80-90)	88.0	N.A.	0.3
UL - Uplight-Low (90-100)	19.3	N.A.	0.1
UH - Uplight-High (100-180)	37.5	N.A.	0.1
Total	26218.8	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	1441	1441	1441	1441	1441	1441	1441	1441	1441	1441
2.5	1463	1468	1473	1462	1455	1438	1431	1420	1410	1413
5.0	1388	1391	1386	1388	1417	1439	1464	1421	1405	1373
7.5	1314	1320	1313	1311	1310	1311	1352	1431	1412	1382
10.0	1387	1346	1367	1334	1343	1331	1344	1403	1522	1423
12.5	1409	1406	1404	1388	1388	1414	1422	1450	1562	1551
15.0	1492	1480	1505	1498	1452	1479	1548	1532	1695	1674
17.5	1677	1633	1650	1615	1616	1606	1662	1720	1797	1821
20.0	1934	1934	1849	1764	1784	1798	1809	1896	1964	2011
22.5	2203	2192	2129	2095	1979	2000	2009	2079	2139	2199
25.0	2567	2593	2467	2354	2356	2231	2274	2336	2393	2452
27.5	2865	2856	2852	2804	2670	2633	2535	2588	2680	2733
30.0	3206	3228	3158	3136	3156	2980	2843	2848	2914	3012
32.5	3422	3445	3548	3599	3514	3436	3162	3116	3160	3185
35.0	3591	3616	3749	3901	3925	3839	3544	3307	3312	3363
37.5	3781	3807	3957	4131	4233	4175	3819	3505	3502	3563
40.0	3996	4027	4182	4381	4551	4450	4100	3719	3712	3772
42.5	4248	4279	4430	4651	4833	4710	4384	3929	3911	4006
45.0	4499	4532	4712	4986	5120	5026	4704	4178	4162	4243
47.5	4777	4811	4998	5287	5436	5404	5017	4433	4393	4489
50.0	5073	5121	5308	5598	5811	5761	5327	4686	4650	4764
52.5	5397	5454	5641	5938	6183	6125	5672	4976	4945	5059
55.0	5734	5801	5993	6313	6594	6535	6063	5328	5266	5386
57.5	6111	6179	6393	6733	7065	7040	6515	5730	5655	5758
60.0	6506	6575	6846	7238	7660	7782	7087	6215	6106	6202
62.5	6957	7024	7346	7841	8450	8727	7867	6888	6667	6711
65.0	7688	7790	8111	8662	9528	9987	8954	7747	7380	7386
67.5	8010	8169	8927	9991	11259	11869	10653	9040	8217	8205
70.0	6374	6523	7508	9491	12941	15070	12481	9267	7475	6982
72.5	3542	3606	4660	6880	10659	13861	10313	6444	4560	3891
75.0	1257	1285	1668	3101	6511	9648	6222	3002	1734	1517
77.5	520	541	698	1133	2376	4136	2512	1272	751	618
80.0	175	177	222	408	920	1416	1048	508	284	254
82.5	97	96	102	151	275	456	294	198	150	166
85.0	57	58	59	79	120	156	126	106	89	100
87.5	27	27	27	34	46	52	51	48	42	41
90.0	7	7	10	12	16	21	25	27	26	23
92.5	5	5	7	11	16	24	27	28	27	25
95.0	5	5	7	11	17	25	27	28	27	26
97.5	5	5	6	10	16	22	25	27	26	24
100.0	5	5	6	9	13	16	20	23	23	21
102.5	5	5	6	8	10	13	16	18	18	17
105.0	5	5	6	7	8	10	11	14	14	13
107.5	5	5	6	6	7	8	9	10	10	10
110.0	5	5	6	6	6	7	8	8	8	8
112.5	5	5	5	6	6	6	7	7	7	6
115.0	5	5	5	6	6	6	7	7	6	5
117.5	5	5	6	7	7	7	7	7	7	5
120.0	6	6	7	7	8	8	8	8	7	6
122.5	6	6	7	8	8	9	9	8	7	6
125.0	7	7	7	8	8	8	9	8	7	6
127.5	7	7	8	8	8	9	9	9	7	6
130.0	8	8	9	9	9	9	10	9	8	7

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CANDELA TABULATION - (Cont.)

132.5	9	9	9	9	9	9	10	10	8	7
135.0	9	9	10	9	9	9	10	10	9	7
137.5	10	10	10	9	9	9	10	10	9	8
140.0	10	10	10	10	9	9	10	10	9	8
142.5	10	9	9	9	8	9	9	10	9	7
145.0	5	5	5	5	5	5	5	6	6	5
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. Horizontal Angles

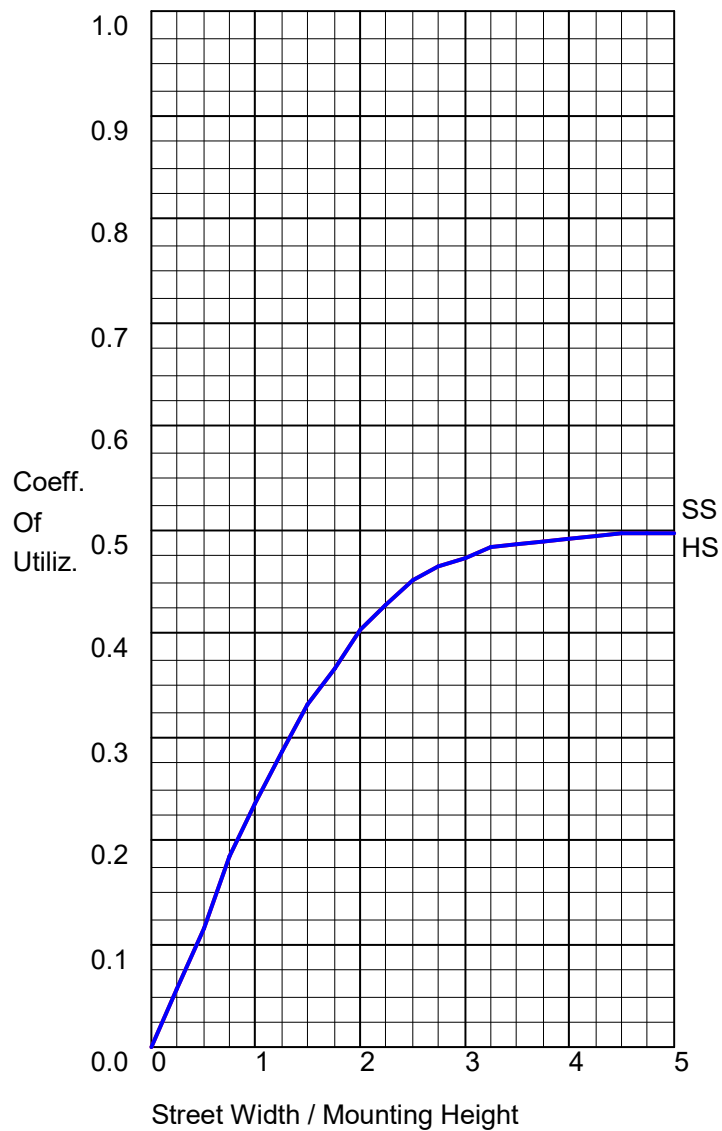
	90
0.0	1441
2.5	1409
5.0	1381
7.5	1380
10.0	1407
12.5	1518
15.0	1650
17.5	1783
20.0	1965
22.5	2174
25.0	2377
27.5	2617
30.0	2861
32.5	3003
35.0	3147
37.5	3324
40.0	3514
42.5	3724
45.0	3938
47.5	4162
50.0	4417
52.5	4699
55.0	5002
57.5	5353
60.0	5743
62.5	6168
65.0	6834
67.5	7831
70.0	6670
72.5	3821
75.0	1431
77.5	605

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CANDELA TABULATION - (Cont.)

80.0	235
82.5	142
85.0	76
87.5	22
90.0	4
92.5	5
95.0	5
97.5	5
100.0	5
102.5	5
105.0	5
107.5	5
110.0	5
112.5	5
115.0	5
117.5	5
120.0	5
122.5	5
125.0	6
127.5	6
130.0	7
132.5	7
135.0	8
137.5	8
140.0	8
142.5	8
145.0	5
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

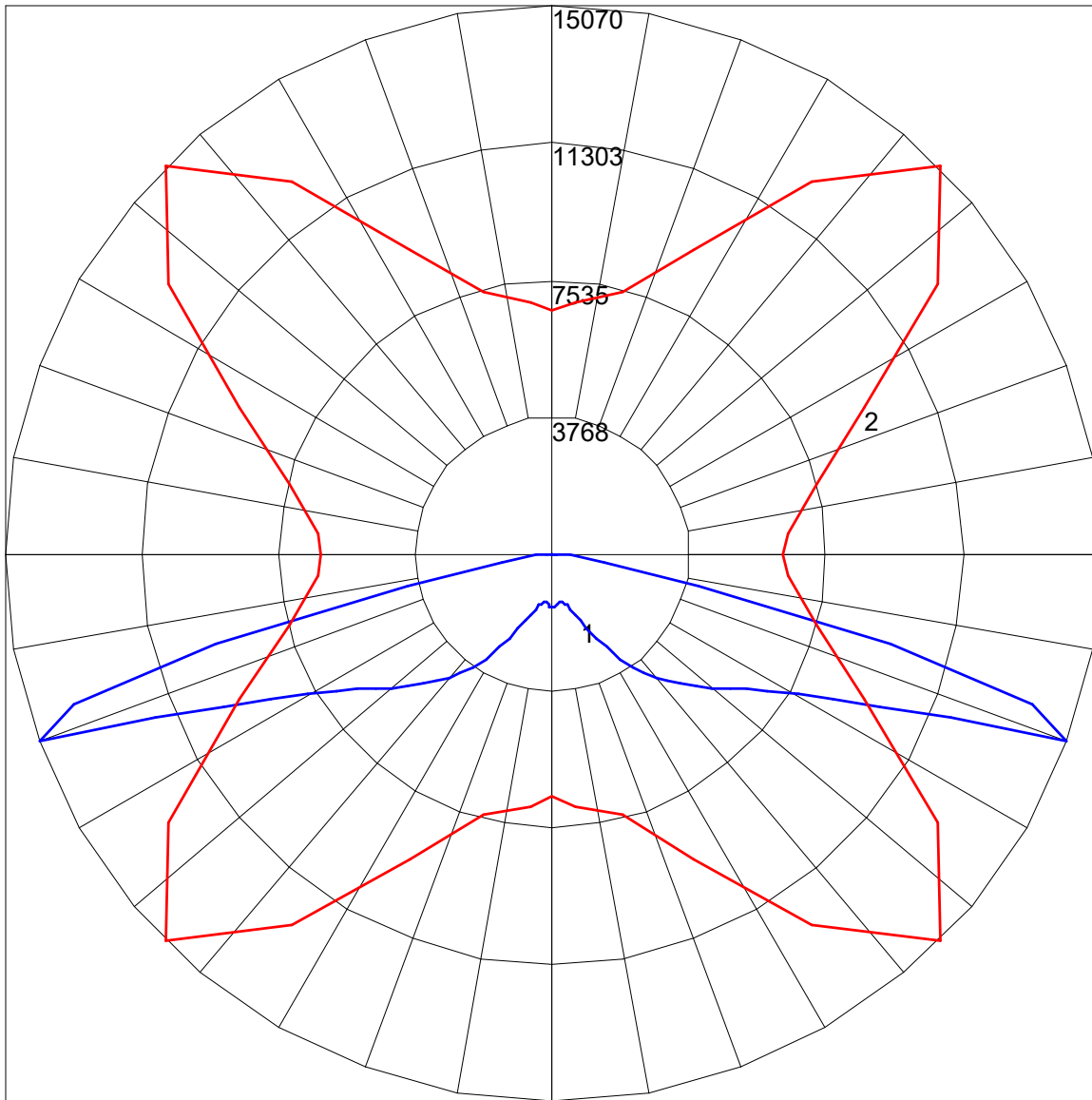
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

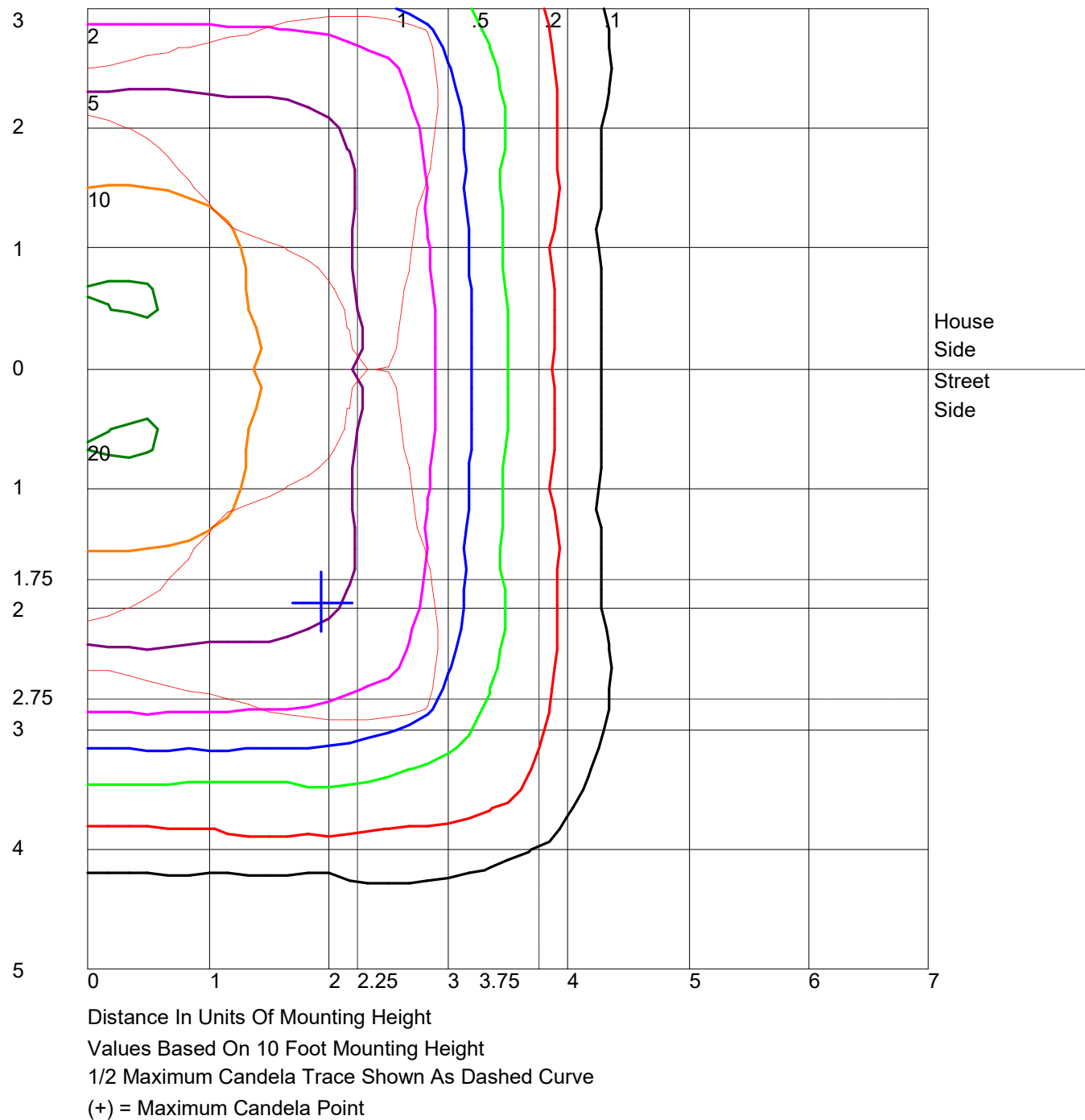
	Lumens	Percent Of Luminaire
Downward Street Side	13081.0	49.9
Downward House Side	13081.0	49.9
Downward Total	26162.0	99.8
Upward Street Side	28.4	0.1
Upward House Side	28.4	0.1
Upward Total	56.8	0.2
Total Flux	26218.8	100.0

POLAR GRAPH

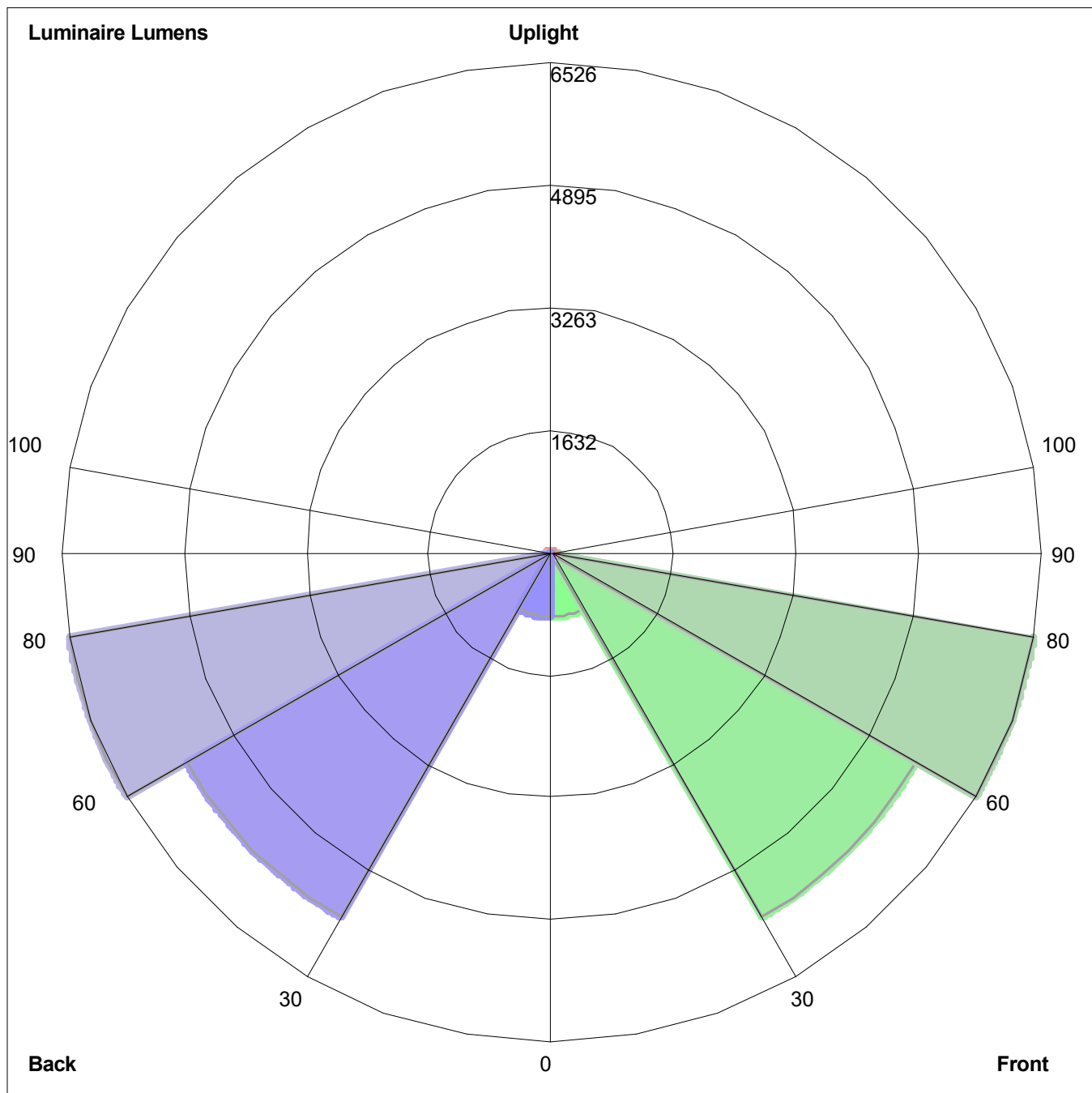


Maximum Candela = 15070 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=857.0, Medium=5609.7, High=6526.3, Very High=88.0
Back: Low=857.0, Medium=5609.7, High=6526.3, Very High=88.0
Uplight: Low=19.3, High=37.5

BUG Rating : B5-U2-G3