



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-18L-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-13234
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/07/22
[TEST DATE] 02/02/22
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] XCN4-PT-5W-LED-18L-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	18551
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	148.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10972
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	10972
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	17 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1181 (6.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	597.2	N.A.	3.2
FM - Front-Medium (30-60)	3810.4	N.A.	20.5
FH - Front-High (60-80)	4778.6	N.A.	25.8
FVH - Front-Very High (80-90)	69.5	N.A.	0.4
BL - Back-Low (0-30)	597.2	N.A.	3.2
BM - Back-Medium (30-60)	3810.4	N.A.	20.5
BH - Back-High (60-80)	4778.6	N.A.	25.8
BVH - Back-Very High (80-90)	69.5	N.A.	0.4
UL - Uplight-Low (90-100)	13.3	N.A.	0.1
UH - Uplight-High (100-180)	25.8	N.A.	0.1
Total	18550.5	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	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012
2.5	1032	1031	1026	1019	1008	996	990	989	991	991
5.0	965	968	960	965	996	1028	1000	1005	978	957
7.5	928	924	922	917	917	921	959	1033	992	967
10.0	953	937	953	939	943	939	950	989	1065	996
12.5	988	1001	989	973	979	1010	989	1020	1107	1085
15.0	1067	1051	1060	1042	1033	1050	1093	1083	1176	1163
17.5	1200	1152	1174	1145	1154	1131	1170	1203	1255	1260
20.0	1371	1369	1296	1245	1263	1270	1267	1325	1367	1399
22.5	1552	1535	1507	1479	1388	1409	1398	1443	1479	1514
25.0	1800	1794	1708	1653	1644	1560	1571	1623	1643	1691
27.5	2002	1974	1970	1956	1851	1833	1772	1765	1833	1877
30.0	2249	2229	2185	2156	2181	2051	1967	1950	1976	2038
32.5	2357	2363	2431	2468	2417	2370	2174	2129	2142	2136
35.0	2464	2473	2562	2665	2686	2603	2436	2240	2234	2242
37.5	2584	2599	2695	2814	2885	2856	2615	2417	2368	2370
40.0	2721	2737	2845	2972	3084	3034	2800	2522	2506	2512
42.5	2881	2896	3013	3161	3286	3231	3007	2673	2642	2661
45.0	3053	3070	3193	3380	3486	3432	3198	2843	2807	2816
47.5	3240	3260	3392	3585	3710	3660	3392	2993	2974	2989
50.0	3444	3468	3601	3797	3936	3913	3620	3179	3145	3178
52.5	3679	3695	3827	4028	4194	4158	3861	3421	3348	3375
55.0	3935	3933	4070	4282	4464	4431	4130	3647	3565	3596
57.5	4250	4245	4370	4575	4785	4794	4426	3885	3821	3861
60.0	4566	4577	4711	4936	5184	5270	4807	4204	4128	4185
62.5	4902	4924	5093	5373	5748	5854	5332	4655	4553	4559
65.0	5401	5437	5635	5971	6499	6703	6068	5307	5125	5090
67.5	6008	6070	6491	7073	7763	8048	7190	6298	5929	5908
70.0	5171	5171	5942	7468	9663	10762	8962	7025	5732	5312
72.5	2833	2909	3763	5484	8405	10972	8304	5238	3655	3162
75.0	837	899	1206	2354	5318	7925	5158	2534	1450	1234
77.5	404	421	552	873	1853	3489	2031	1029	602	526
80.0	130	129	171	342	741	1181	851	402	227	204
82.5	72	70	74	113	220	384	234	145	113	125
85.0	44	43	42	58	91	130	101	79	67	76
87.5	21	20	20	24	34	41	39	36	31	29
90.0	4	4	5	7	11	14	16	17	17	15
92.5	4	4	5	8	12	16	18	19	18	16
95.0	4	4	5	8	13	17	19	20	19	16
97.5	4	4	5	7	12	16	17	18	17	16
100.0	4	4	5	6	9	12	14	16	16	15
102.5	4	4	5	5	7	9	11	13	13	12
105.0	4	4	5	5	6	7	8	10	10	9
107.5	4	4	5	5	5	5	6	7	7	6
110.0	4	4	5	5	5	5	5	5	5	5
112.5	4	4	4	5	5	5	5	5	5	5
115.0	4	4	5	5	5	5	5	5	5	5
117.5	4	4	5	5	5	5	5	5	5	5
120.0	5	5	5	5	5	5	6	5	5	5
122.5	5	5	5	5	6	6	6	6	5	5
125.0	5	5	5	5	5	6	6	6	5	5
127.5	5	5	5	5	5	5	6	6	5	5
130.0	5	5	5	5	5	5	6	6	5	5

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CANDELA TABULATION - (Cont.)

132.5	5	5	6	6	5	6	6	6	5	5
135.0	6	6	6	6	5	5	6	6	5	5
137.5	6	6	6	6	6	6	6	6	6	5
140.0	6	6	7	6	6	6	6	6	6	5
142.5	6	6	6	5	5	5	6	6	6	5
145.0	4	4	4	4	3	4	4	5	5	4
147.5	2	2	2	2	2	2	2	2	3	3
150.0	2	2	2	2	2	1	2	2	3	3
152.5	2	2	2	2	2	1	2	2	3	3
155.0	2	2	2	2	2	1	2	2	3	3
157.5	2	2	2	2	2	1	2	2	3	3
160.0	2	2	2	2	2	1	2	2	3	3
162.5	2	2	2	2	1	1	1	2	2	3
165.0	2	2	2	2	1	1	1	2	2	2
167.5	2	2	2	2	1	1	1	2	3	2
170.0	2	2	2	2	1	1	1	2	2	2
172.5	1	1	2	1	1	1	1	2	2	2
175.0	1	1	1	1	1	1	1	2	2	2
177.5	1	1	1	1	1	1	1	1	2	2
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles

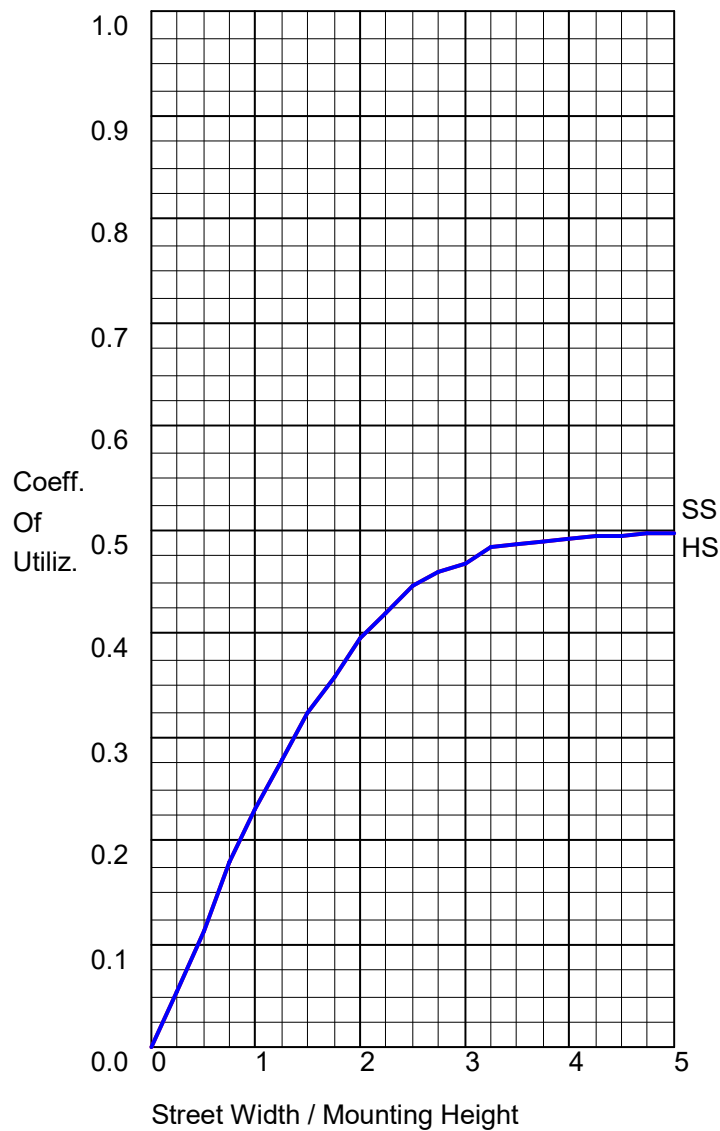
	90
0.0	1012
2.5	991
5.0	948
7.5	964
10.0	984
12.5	1056
15.0	1144
17.5	1243
20.0	1363
22.5	1509
25.0	1644
27.5	1796
30.0	1954
32.5	2044
35.0	2145
37.5	2256
40.0	2377
42.5	2523
45.0	2675
47.5	2826
50.0	3005
52.5	3188
55.0	3392
57.5	3634
60.0	3910
62.5	4243
65.0	4767
67.5	5608
70.0	5045
72.5	2989
75.0	1174
77.5	510

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CANDELA TABULATION - (Cont.)

80.0	197
82.5	112
85.0	60
87.5	18
90.0	5
92.5	5
95.0	5
97.5	5
100.0	5
102.5	5
105.0	5
107.5	5
110.0	4
112.5	4
115.0	4
117.5	4
120.0	4
122.5	4
125.0	5
127.5	5
130.0	5
132.5	5
135.0	5
137.5	5
140.0	5
142.5	5
145.0	4
147.5	3
150.0	3
152.5	3
155.0	3
157.5	3
160.0	3
162.5	3
165.0	2
167.5	2
170.0	2
172.5	2
175.0	2
177.5	2
180.0	1

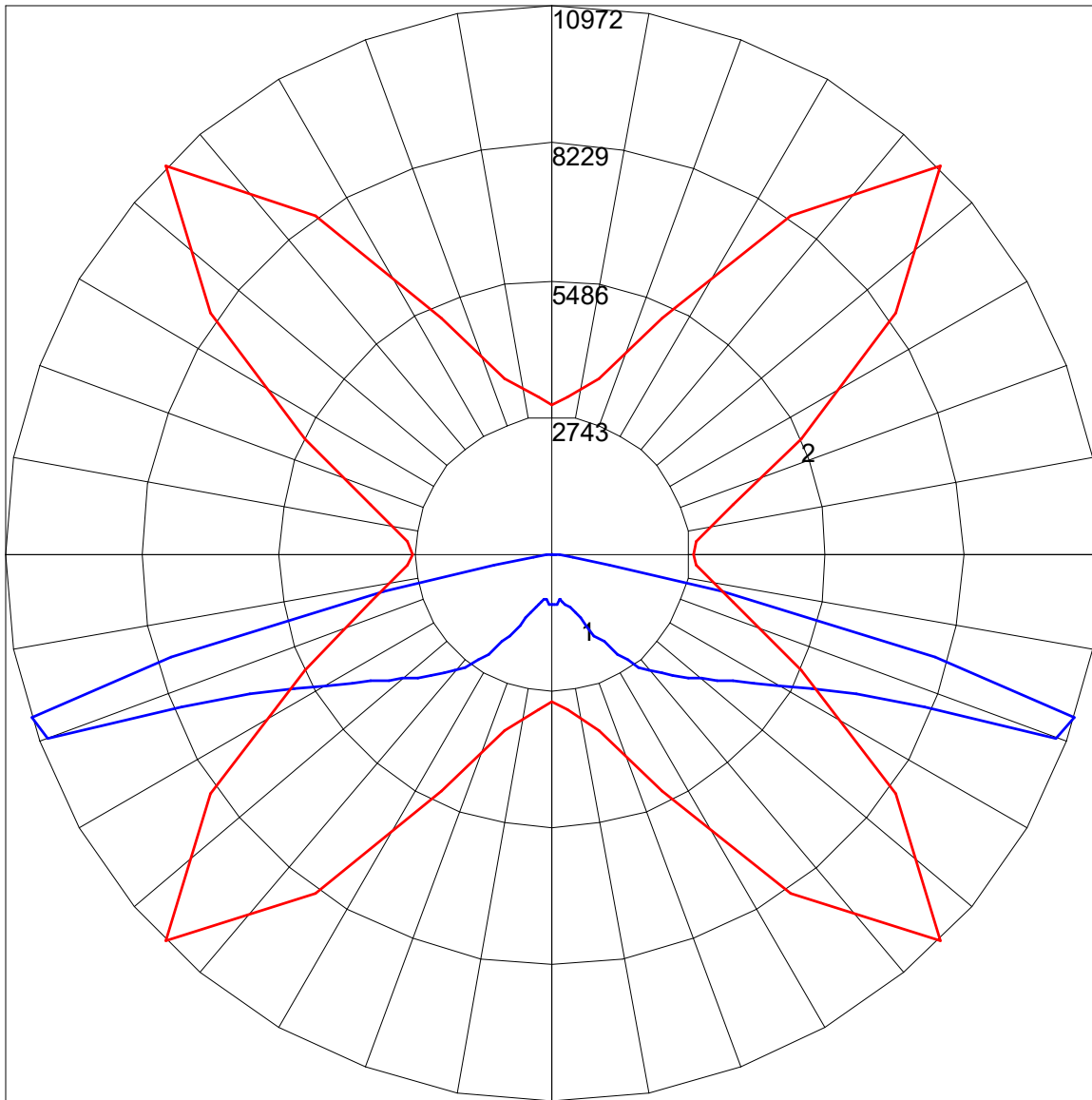
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

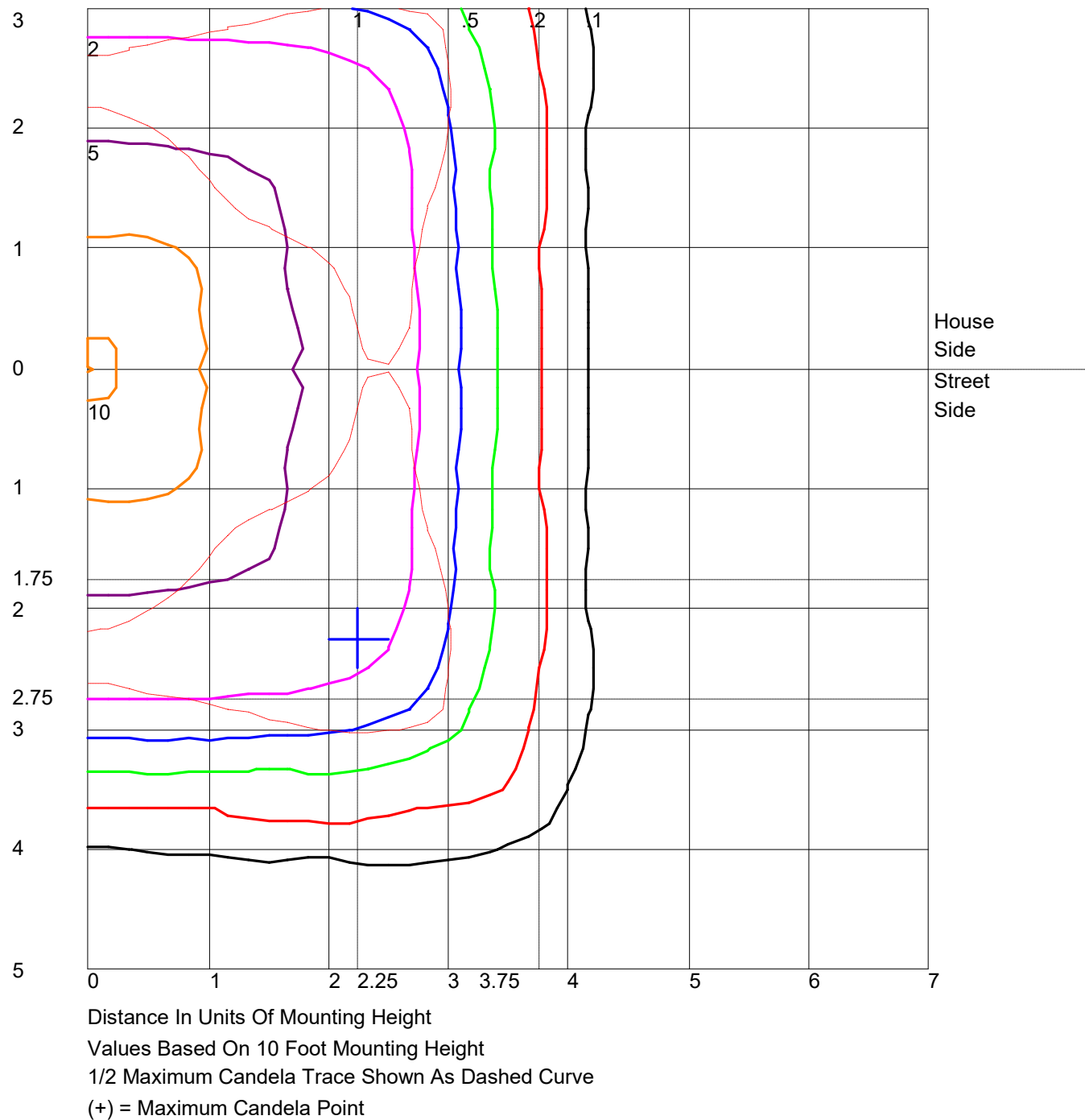
	Lumens	Percent Of Luminaire
Downward Street Side	9255.8	49.9
Downward House Side	9255.8	49.9
Downward Total	18511.6	99.8
Upward Street Side	19.5	0.1
Upward House Side	19.5	0.1
Upward Total	39.0	0.2
Total Flux	18550.6	100.0

POLAR GRAPH

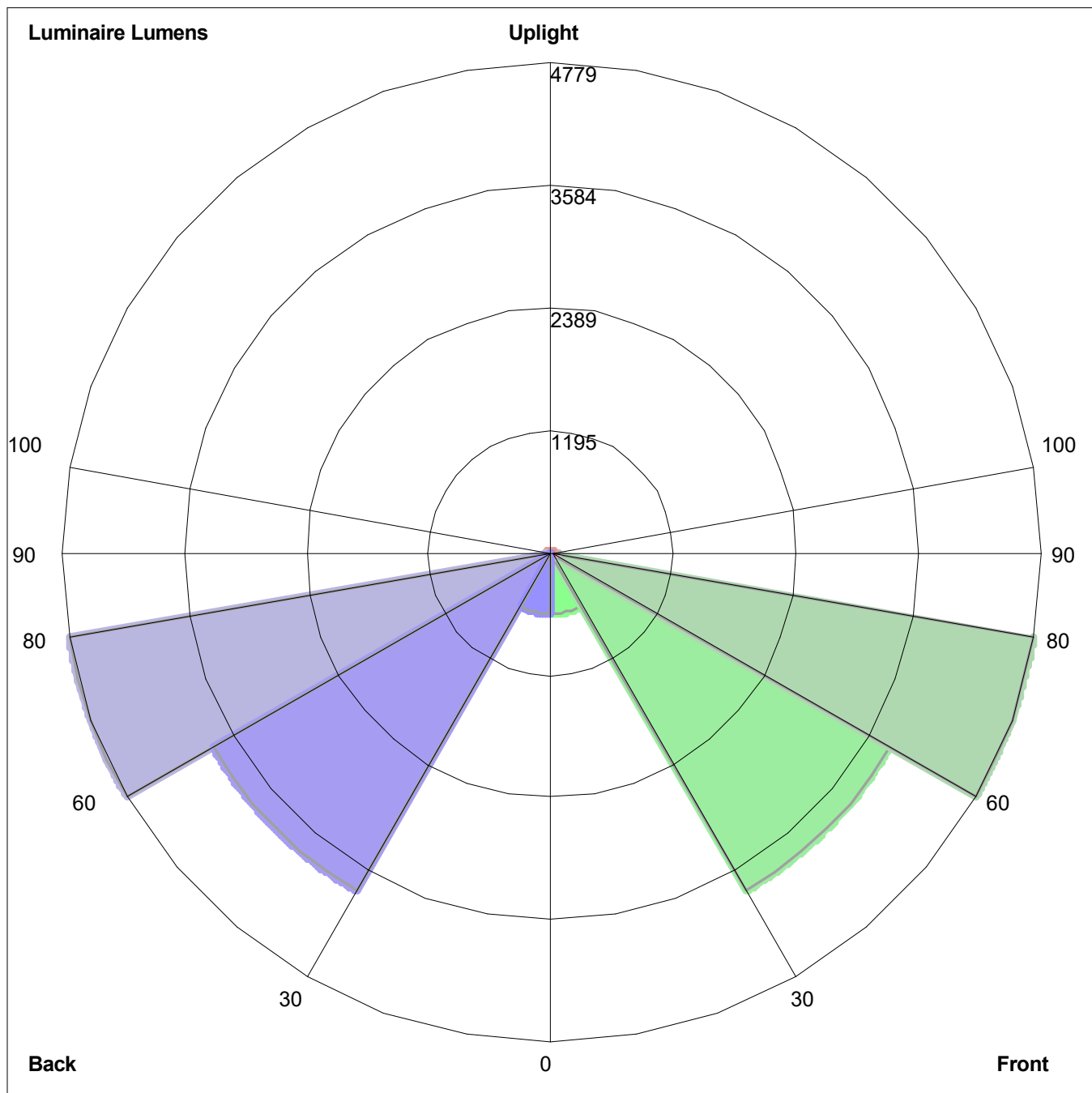


Maximum Candela = 10972 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=597.2, Medium=3810.4, High=4778.6, Very High=69.5
Back: Low=597.2, Medium=3810.4, High=4778.6, Very High=69.5
Uplight: Low=13.3, High=25.8

BUG Rating : B4-U2-G2