



IES ROAD REPORT

PHOTOMETRIC FILENAME : XCN4-PT-5W-LED-18L-50.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-50
[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] 5000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20282
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	148.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11996
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	11996
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	19 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1291 (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)	652.9	N.A.	3.2
FM - Front-Medium (30-60)	4165.9	N.A.	20.5
FH - Front-High (60-80)	5224.5	N.A.	25.8
FVH - Front-Very High (80-90)	76.0	N.A.	0.4
BL - Back-Low (0-30)	652.9	N.A.	3.2
BM - Back-Medium (30-60)	4165.9	N.A.	20.5
BH - Back-High (60-80)	5224.5	N.A.	25.8
BVH - Back-Very High (80-90)	76.0	N.A.	0.4
UL - Uplight-Low (90-100)	14.7	N.A.	0.1
UH - Uplight-High (100-180)	28.5	N.A.	0.1
Total	20281.8	N.A.	100.0
BUG Rating	B5-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106
2.5	1128	1127	1122	1114	1102	1089	1082	1081	1083	1084
5.0	1055	1058	1050	1055	1089	1124	1093	1099	1069	1046
7.5	1015	1010	1008	1003	1003	1007	1048	1129	1085	1057
10.0	1042	1024	1042	1027	1031	1027	1039	1081	1164	1089
12.5	1080	1094	1081	1064	1070	1104	1081	1115	1210	1186
15.0	1167	1149	1159	1139	1129	1148	1195	1184	1286	1272
17.5	1312	1260	1284	1252	1262	1236	1279	1315	1372	1378
20.0	1499	1497	1417	1361	1381	1389	1385	1449	1495	1529
22.5	1697	1678	1648	1617	1517	1540	1528	1578	1617	1655
25.0	1968	1961	1867	1807	1797	1706	1718	1774	1796	1849
27.5	2189	2158	2154	2139	2024	2004	1937	1930	2004	2052
30.0	2459	2437	2389	2357	2384	2242	2150	2132	2160	2228
32.5	2577	2584	2658	2698	2643	2591	2377	2328	2342	2335
35.0	2694	2704	2801	2914	2937	2846	2663	2449	2442	2451
37.5	2825	2841	2946	3077	3154	3122	2859	2642	2589	2591
40.0	2975	2992	3110	3249	3372	3317	3061	2757	2740	2746
42.5	3150	3166	3294	3456	3593	3533	3288	2922	2888	2909
45.0	3338	3356	3491	3695	3811	3752	3496	3108	3069	3079
47.5	3542	3564	3709	3920	4056	4001	3709	3272	3252	3268
50.0	3765	3792	3937	4151	4303	4278	3958	3476	3438	3474
52.5	4022	4040	4184	4404	4585	4546	4221	3740	3660	3690
55.0	4302	4300	4450	4682	4881	4845	4515	3987	3898	3931
57.5	4647	4641	4778	5002	5232	5241	4839	4247	4177	4221
60.0	4992	5004	5151	5397	5668	5762	5255	4596	4513	4576
62.5	5359	5384	5568	5874	6284	6400	5830	5089	4978	4984
65.0	5905	5944	6161	6528	7105	7329	6634	5802	5603	5565
67.5	6569	6636	7097	7733	8487	8799	7861	6886	6482	6459
70.0	5653	5654	6496	8165	10565	11766	9798	7680	6267	5808
72.5	3097	3180	4114	5996	9189	11996	9079	5727	3996	3457
75.0	915	983	1318	2574	5814	8664	5639	2770	1585	1349
77.5	442	460	604	955	2026	3815	2221	1125	658	575
80.0	142	141	187	374	810	1291	930	440	248	223
82.5	79	76	81	124	240	420	256	159	124	137
85.0	48	47	46	63	100	142	110	86	73	83
87.5	23	22	22	26	37	45	43	39	34	32
90.0	4	4	6	8	12	15	18	19	19	16
92.5	4	4	6	9	13	18	20	21	20	17
95.0	4	4	6	9	14	19	21	22	21	18
97.5	4	4	5	8	13	17	19	20	19	18
100.0	4	4	5	7	10	13	15	17	17	16
102.5	4	4	5	6	8	10	12	14	14	13
105.0	4	4	5	6	7	8	9	11	11	10
107.5	4	4	5	5	6	6	7	8	8	7
110.0	4	4	5	5	5	5	6	6	6	6
112.5	4	4	4	5	5	5	5	6	6	5
115.0	4	4	5	5	5	5	6	6	5	5
117.5	4	4	5	5	6	6	6	6	5	5
120.0	5	5	5	6	6	6	7	6	6	5
122.5	5	5	6	6	7	7	7	7	6	5
125.0	5	5	6	6	6	7	7	7	6	5
127.5	6	6	6	6	6	6	7	7	6	5
130.0	6	6	6	6	6	6	7	7	6	5

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CANDELA TABULATION - (Cont.)

132.5	6	6	7	7	6	7	7	7	6	5
135.0	7	7	7	7	6	6	7	7	6	5
137.5	7	7	7	7	7	7	7	7	7	6
140.0	7	7	8	7	7	7	7	7	7	6
142.5	7	7	7	6	6	6	7	7	7	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

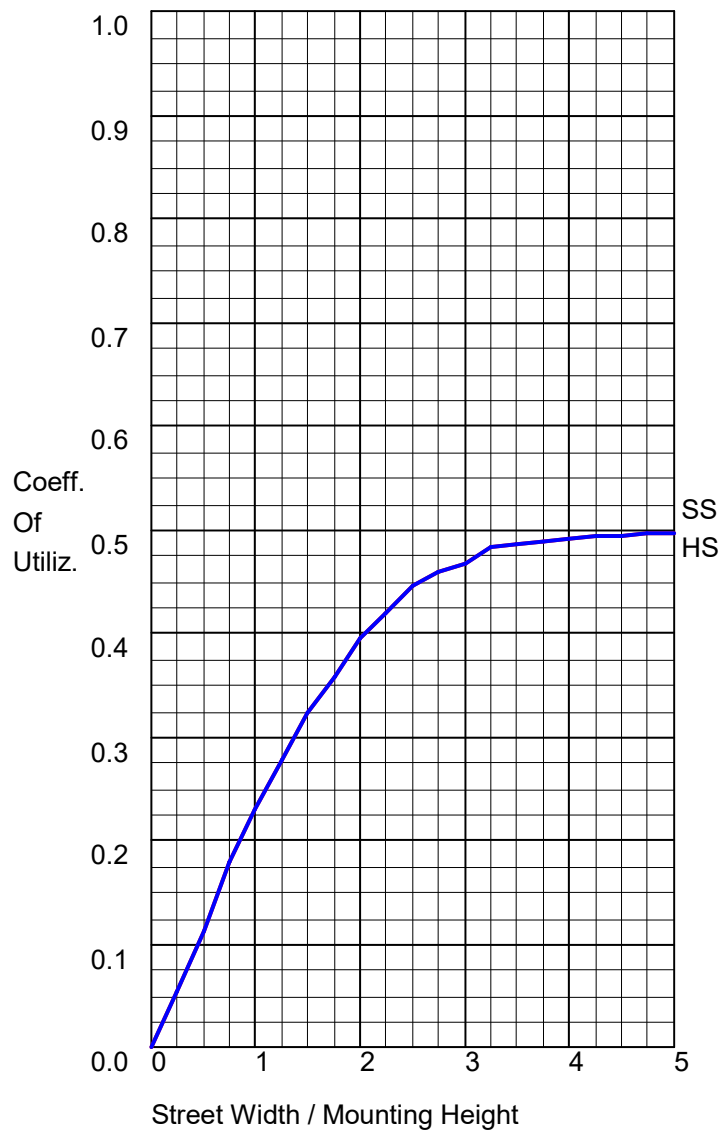
	<u>90</u>
0.0	1106
2.5	1084
5.0	1037
7.5	1054
10.0	1076
12.5	1154
15.0	1251
17.5	1359
20.0	1490
22.5	1650
25.0	1797
27.5	1964
30.0	2136
32.5	2235
35.0	2345
37.5	2466
40.0	2599
42.5	2758
45.0	2925
47.5	3090
50.0	3285
52.5	3486
55.0	3708
57.5	3973
60.0	4275
62.5	4639
65.0	5212
67.5	6131
70.0	5516
72.5	3268
75.0	1284
77.5	558

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CANDELA TABULATION - (Cont.)

80.0	215
82.5	122
85.0	66
87.5	20
90.0	5
92.5	6
95.0	6
97.5	6
100.0	6
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	6
140.0	6
142.5	6
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

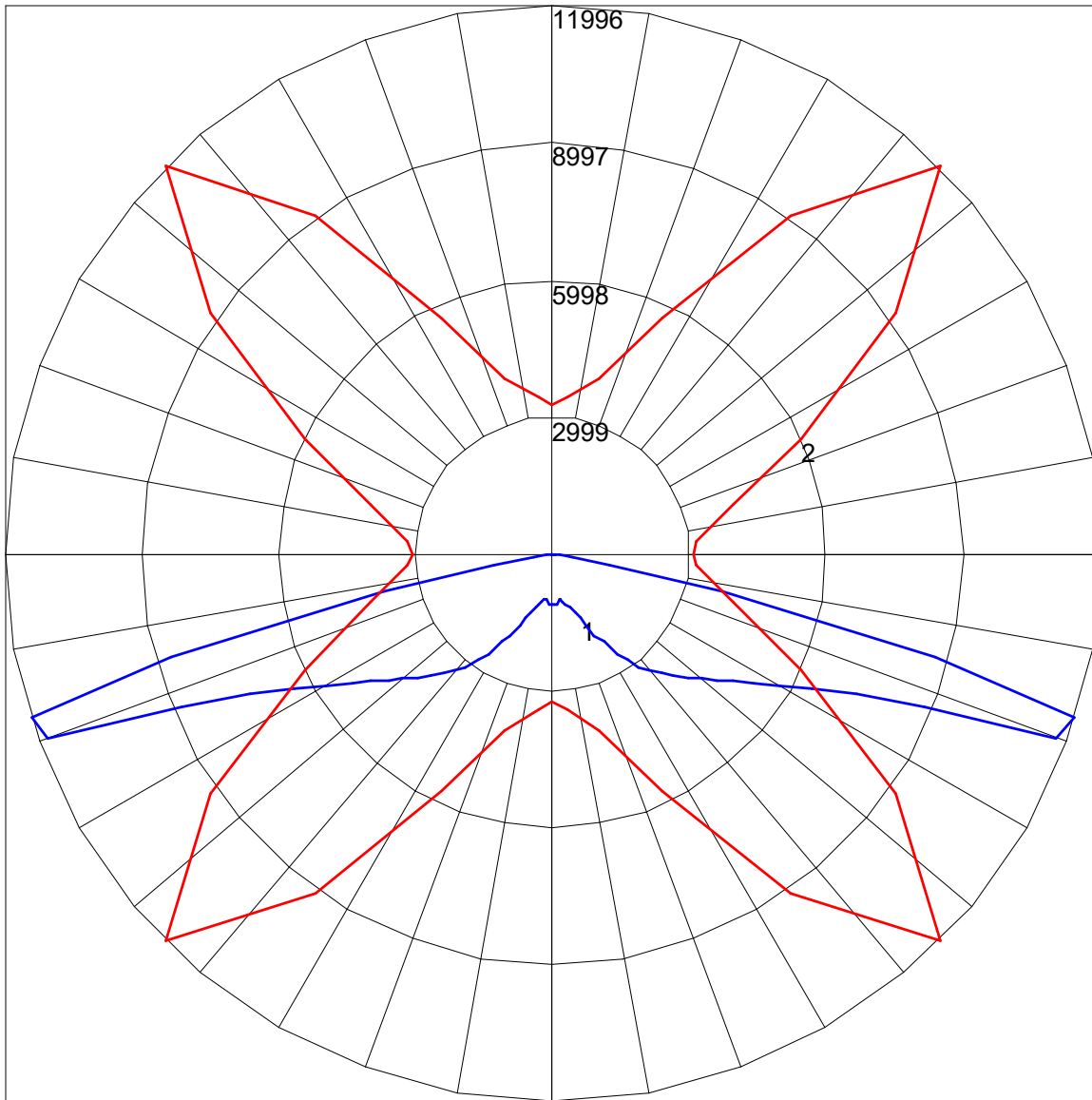
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

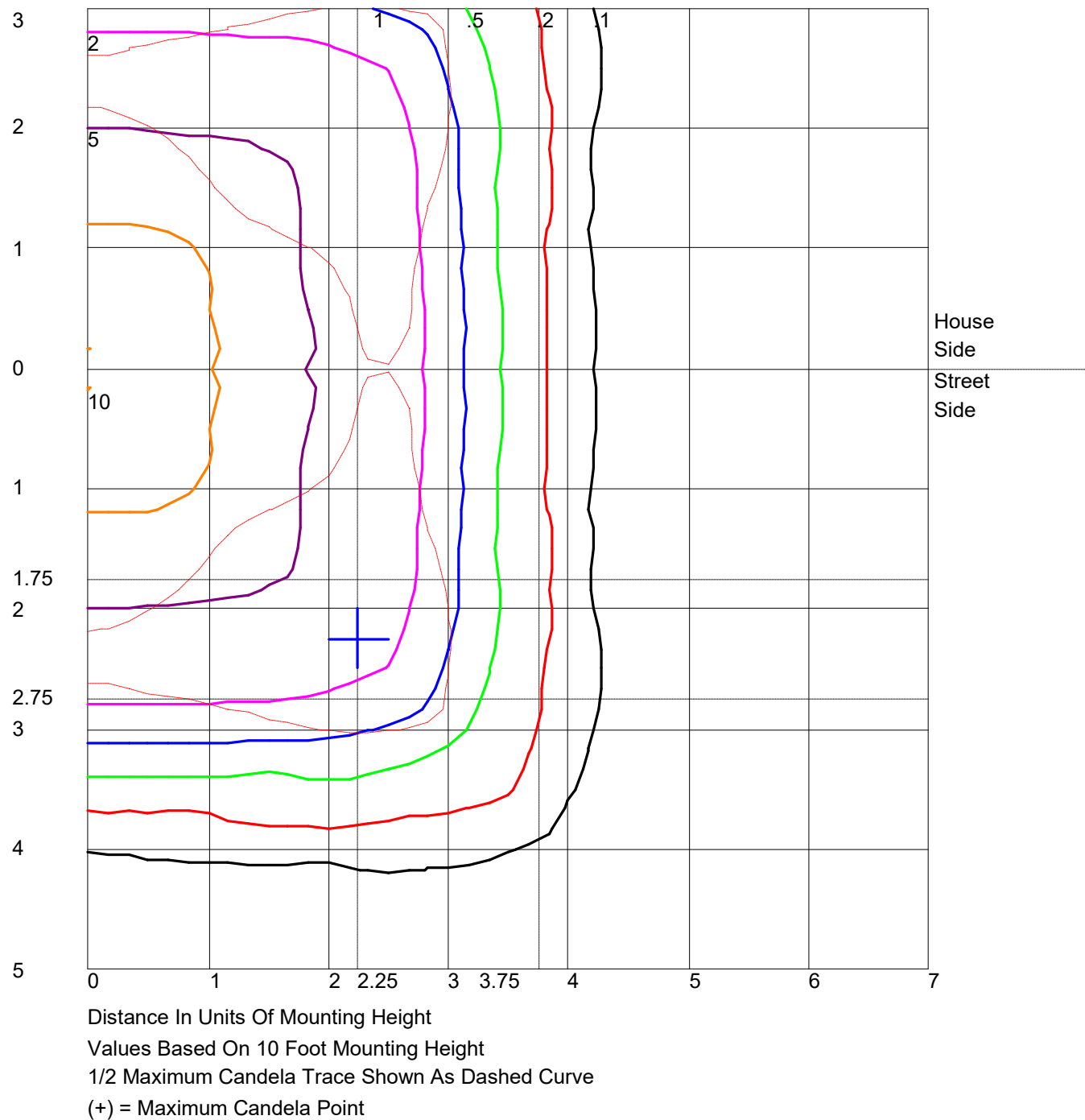
	Lumens	Percent Of Luminaire
Downward Street Side	10119.4	49.9
Downward House Side	10119.4	49.9
Downward Total	20238.8	99.8
Upward Street Side	21.6	0.1
Upward House Side	21.6	0.1
Upward Total	43.2	0.2
Total Flux	20282.0	100.0

POLAR GRAPH

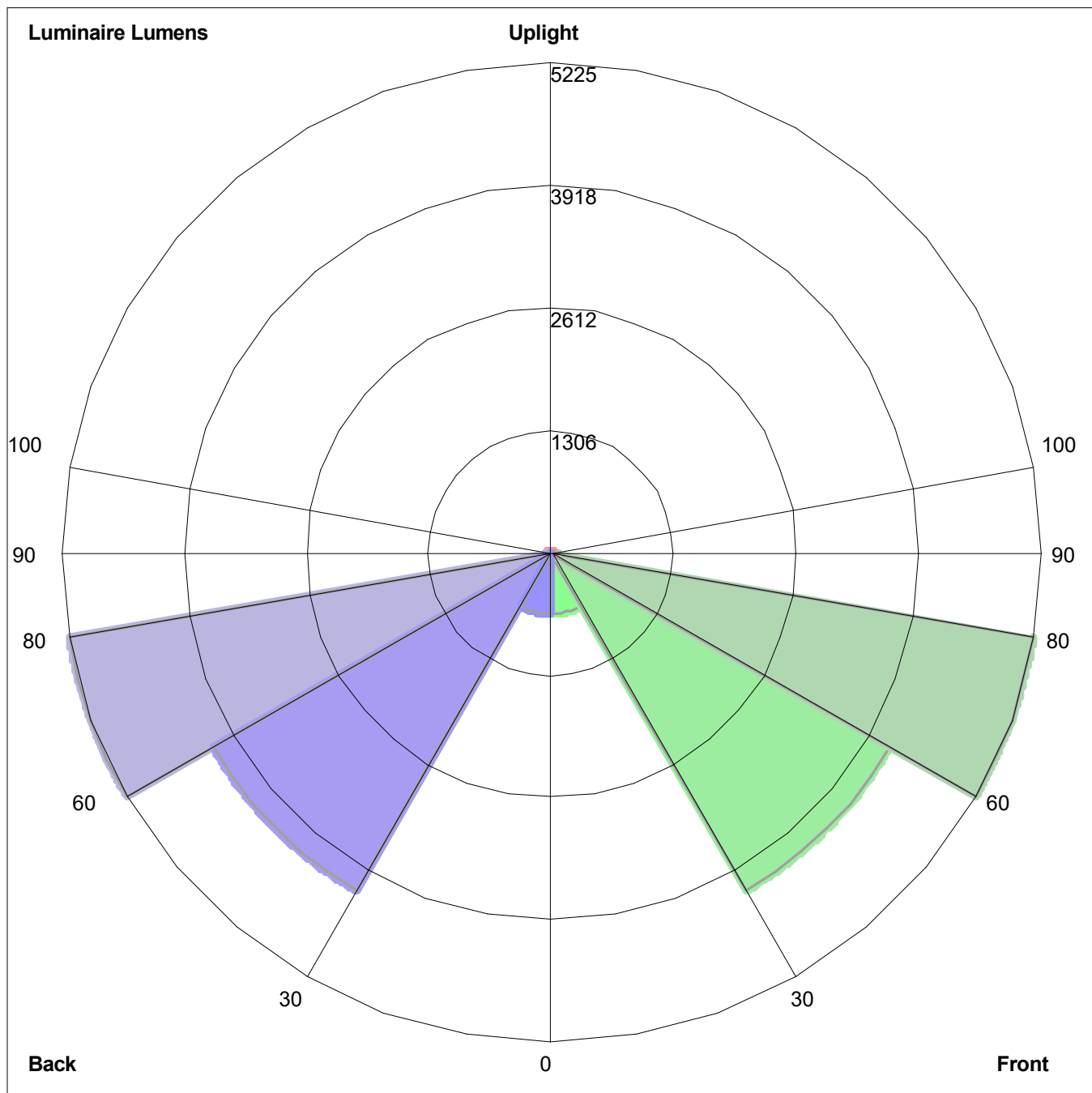


Maximum Candela = 11996 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=652.9, Medium=4165.9, High=5224.5, Very High=76.0
Back: Low=652.9, Medium=4165.9, High=5224.5, Very High=76.0
Uplight: Low=14.7, High=28.5

BUG Rating : B5-U2-G3