



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-20W-4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12903

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 10/28/2021

[TESTDATE] 08/20/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] AW-4-FS1-20W-4000K

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor

[SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.06 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4036	3845	3809
55	3824	3647	3685
65	3502	3378	3476
75	2902	3000	3237
85	1628	2705	3260

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AW-4-FS1-20W-4000K.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	754	754	754	754	754
2.5	770	760	755	751	746
5.0	769	760	755	751	747
7.5	767	758	753	749	745
10.0	763	754	750	747	743
12.5	757	749	745	742	739
15.0	750	742	738	736	732
17.5	741	733	730	728	726
20.0	730	723	719	718	716
22.5	717	710	708	707	706
25.0	700	695	695	695	693
27.5	683	679	680	682	679
30.0	664	661	663	666	664
32.5	642	641	644	648	646
35.0	619	619	624	629	627
37.5	596	597	603	610	607
40.0	571	573	581	587	586
42.5	545	549	557	565	564
45.0	517	523	533	541	540
47.5	489	496	506	517	517
50.0	461	468	480	492	493
52.5	429	438	453	467	469
55.0	400	408	426	440	444
57.5	367	378	396	413	418
60.0	336	348	367	385	391
62.5	305	318	338	356	362
65.0	273	287	309	327	332
67.5	240	256	279	298	304
70.0	208	224	249	269	275
72.5	174	193	219	240	247
75.0	142	161	190	212	219
77.5	111	131	162	185	193
80.0	80	103	135	159	167
82.5	53	77	110	134	144
85.0	30	56	90	115	123
87.5	11	39	72	97	106
90.0	2	27	59	83	92
92.5	1	21	50	72	80
95.0	1	19	44	64	71
97.5	1	17	41	58	64
100.0	1	16	38	54	59
102.5	1	14	36	51	56
105.0	1	13	34	48	53
107.5	1	12	31	45	50
110.0	1	10	29	42	47
112.5	1	9	27	39	44
115.0	1	8	25	37	41
117.5	1	7	23	34	39
120.0	1	6	21	32	36
122.5	1	6	19	30	33
125.0	1	5	18	27	31
127.5	1	4	16	25	28
130.0	1	3	14	23	26
132.5	1	3	12	20	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AW-4-FS1-20W-4000K.IES

CANDELA TABULATION - (Cont.)

135.0	1	2	11	19	21
137.5	1	1	9	16	19
140.0	1	1	8	14	17
142.5	1	1	7	13	15
145.0	1	1	5	11	12
147.5	1	1	4	9	11
150.0	1	1	3	7	9
152.5	1	1	2	5	7
155.0	1	1	1	4	5
157.5	1	1	1	2	3
160.0	1	1	1	2	2
162.5	1	1	1	1	1
165.0	1	1	1	1	1
167.5	1	1	1	1	1
170.0	1	1	1	1	1
172.5	1	1	1	1	0
175.0	1	1	1	1	1
177.5	1	1	1	1	1
180.0	1	1	1	1	1

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AW-4-FS1-20W-4000K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	280.77	N.A.	11.20
0-30	601.35	N.A.	24.00
0-40	991.79	N.A.	39.60
0-60	1780.51	N.A.	71.10
0-80	2280.83	N.A.	91.10
0-90	2375.63	N.A.	94.80
10-90	2303.65	N.A.	92.00
20-40	711.02	N.A.	28.40
20-50	1120.95	N.A.	44.80
40-70	1091.93	N.A.	43.60
60-80	500.32	N.A.	20.00
70-80	197.12	N.A.	7.90
80-90	94.80	N.A.	3.80
90-110	78.05	N.A.	3.10
90-120	100.66	N.A.	4.00
90-130	115.46	N.A.	4.60
90-150	127.52	N.A.	5.10
90-180	129.04	N.A.	5.20
110-180	51.00	N.A.	2.00
0-180	2504.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	71.98
10-20	208.78
20-30	320.58
30-40	390.44
40-50	409.93
50-60	378.79
60-70	303.20
70-80	197.12
80-90	94.80
90-100	45.85
100-110	32.20
110-120	22.61
120-130	14.80
130-140	8.23
140-150	3.84
150-160	1.13
160-170	0.30
170-180	0.09

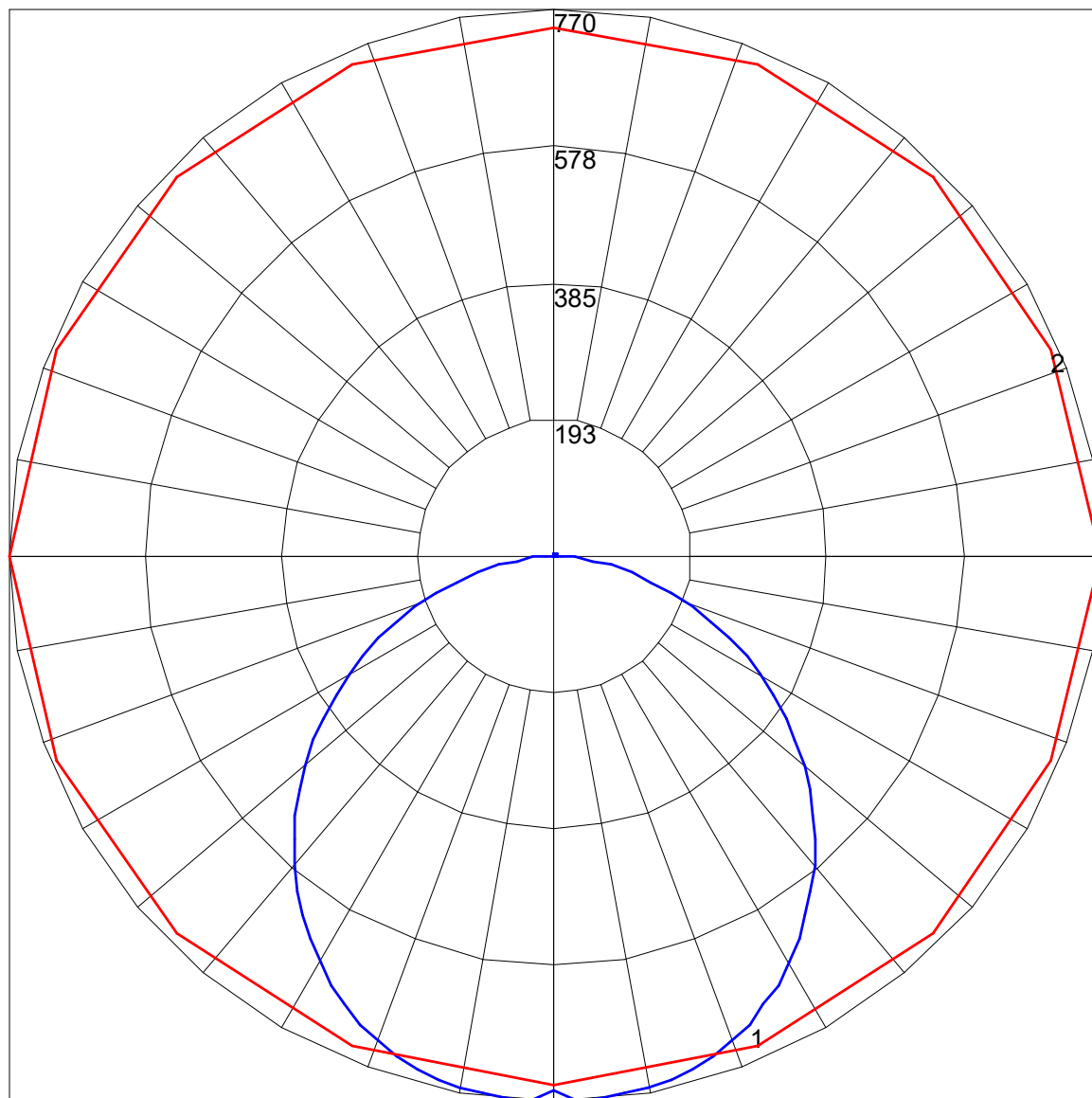
IES INDOOR REPORT
PHOTOMETRIC FILENAME : AW-4-FS1-20W-4000K.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	106	101	97	92	103	98	94	90	93	90	87	88	86	83	84	82	80	77
2	96	88	80	74	93	85	79	73	81	75	71	77	72	68	73	69	66	63
3	88	77	68	61	85	75	67	60	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	55	50	60	54	48	57	52	47	45
5	73	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	38	65	53	44	38	51	43	37	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	57	44	36	30	42	35	29	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	26	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	24	33	27	23	21

POLAR GRAPH



Maximum Candela = 770 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)