



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-20W-5000K.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-5000K

[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] 5000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	3896	3708	3675
55	3690	3518	3561
65	3386	3258	3350
75	2800	2890	3119
85	1574	2615	3154

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AW-4-FS1-20W-5000K.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	728	728	728	728	728
2.5	743	734	729	725	720
5.0	742	734	729	725	721
7.5	740	732	727	723	719
10.0	737	728	724	721	717
12.5	731	723	719	716	713
15.0	724	716	712	710	707
17.5	715	708	705	703	701
20.0	705	698	694	693	691
22.5	692	685	683	682	681
25.0	676	671	671	671	669
27.5	659	655	656	658	655
30.0	641	638	640	643	641
32.5	620	619	622	625	624
35.0	598	598	602	607	605
37.5	575	576	582	589	586
40.0	551	553	561	567	566
42.5	526	530	538	545	544
45.0	499	505	514	522	521
47.5	472	479	488	499	499
50.0	445	452	463	475	476
52.5	414	423	437	451	453
55.0	386	394	411	425	429
57.5	354	365	382	399	403
60.0	324	336	354	372	377
62.5	294	307	326	344	349
65.0	264	277	298	316	320
67.5	232	247	269	288	293
70.0	201	216	240	260	265
72.5	168	186	211	232	238
75.0	137	155	183	205	211
77.5	107	126	156	179	186
80.0	77	99	130	153	161
82.5	51	74	106	129	139
85.0	29	54	87	111	119
87.5	11	38	69	94	102
90.0	2	26	57	80	89
92.5	1	20	48	69	77
95.0	1	18	42	62	69
97.5	1	16	40	56	62
100.0	1	15	37	52	57
102.5	1	14	35	49	54
105.0	1	13	33	46	51
107.5	1	12	30	43	48
110.0	1	10	28	41	45
112.5	1	9	26	38	42
115.0	1	8	24	36	40
117.5	1	7	22	33	38
120.0	1	6	20	31	35
122.5	1	6	18	29	32
125.0	1	5	17	26	30
127.5	1	4	15	24	27
130.0	1	3	14	22	25
132.5	1	3	12	19	22

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : AW-4-FS1-20W-5000K.IES

CANDELA TABULATION - (Cont.)

135.0	1	2	11	18	20
137.5	1	1	9	15	18
140.0	1	1	8	14	16
142.5	1	1	7	13	14
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-5000K.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	271.03	N.A.	11.20
0-30	580.42	N.A.	24.00
0-40	957.32	N.A.	39.60
0-60	1718.64	N.A.	71.10
0-80	2201.36	N.A.	91.10
0-90	2292.79	N.A.	94.80
10-90	2223.3	N.A.	92.00
20-40	686.29	N.A.	28.40
20-50	1081.95	N.A.	44.80
40-70	1053.95	N.A.	43.60
60-80	482.72	N.A.	20.00
70-80	190.09	N.A.	7.90
80-90	91.43	N.A.	3.80
90-110	75.30	N.A.	3.10
90-120	97.24	N.A.	4.00
90-130	111.51	N.A.	4.60
90-150	123.27	N.A.	5.10
90-180	124.79	N.A.	5.20
110-180	49.49	N.A.	2.00
0-180	2417.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	69.49
10-20	201.54
20-30	309.39
30-40	376.91
40-50	395.65
50-60	365.66
60-70	292.63
70-80	190.09
80-90	91.43
90-100	44.16
100-110	31.14
110-120	21.94
120-130	14.27
130-140	7.96
140-150	3.81
150-160	1.13
160-170	0.30
170-180	0.09

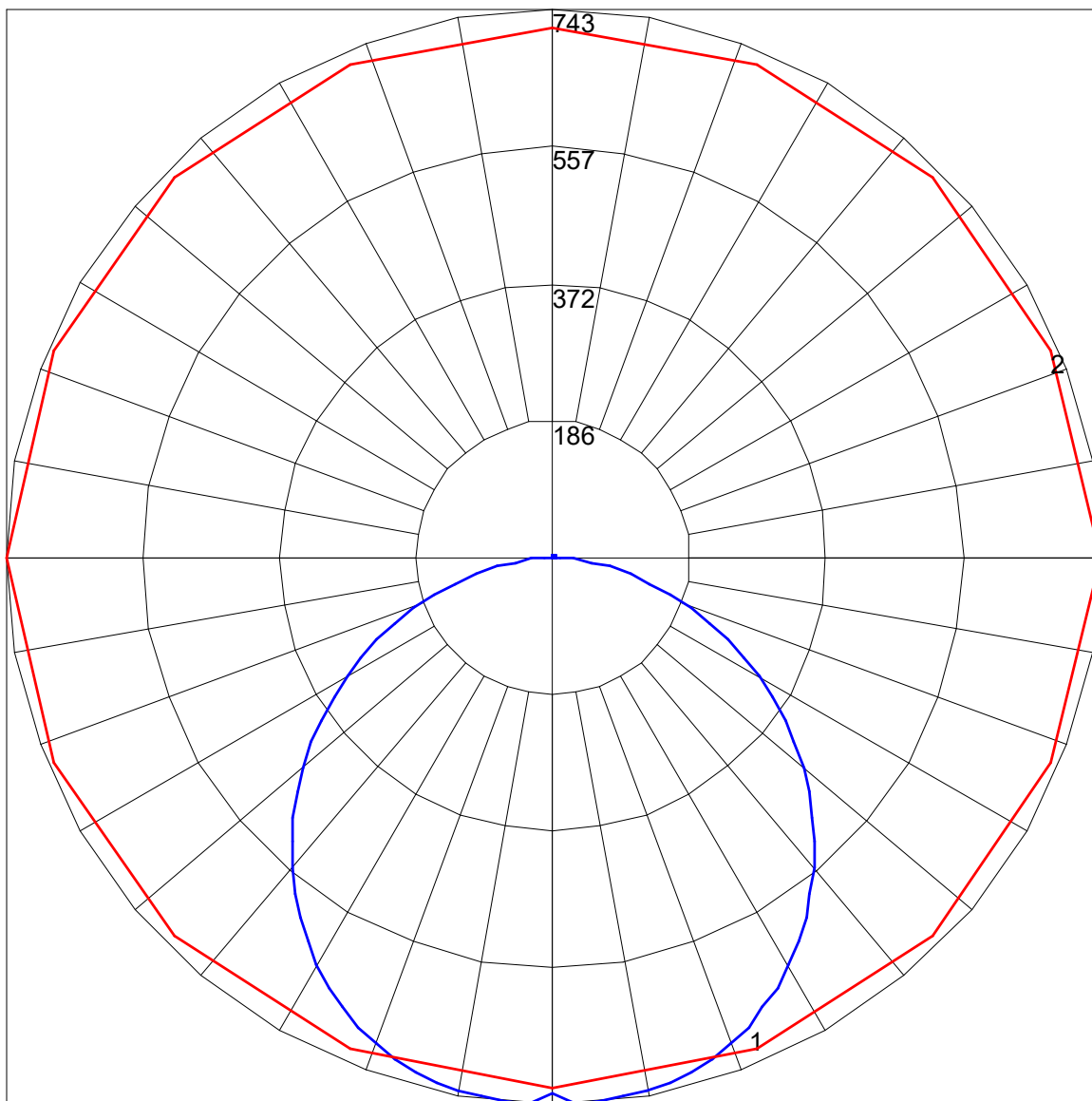
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AW-4-FS1-20W-5000K.IES**

**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 = 743 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.)