



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-31W-3000K.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-12902

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUEDATE] 10/28/2021

[TESTDATE] 08/20/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] AW-4-FS1-31W-3000K

[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] 3000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	31
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	5777	5497	5459
55	5439	5213	5262
65	5003	4822	5004
75	4148	4279	4642
85	2279	3847	4665

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1079	1079	1079	1079	1079
2.5	1102	1087	1081	1074	1068
5.0	1100	1087	1080	1074	1068
7.5	1098	1084	1078	1072	1066
10.0	1092	1080	1073	1067	1062
12.5	1083	1072	1066	1061	1056
15.0	1073	1061	1056	1052	1047
17.5	1060	1048	1043	1040	1037
20.0	1043	1034	1029	1027	1024
22.5	1024	1015	1013	1012	1009
25.0	1001	994	994	995	992
27.5	976	971	972	975	972
30.0	948	945	948	953	950
32.5	918	918	922	928	925
35.0	887	888	893	901	898
37.5	852	855	863	871	868
40.0	817	821	830	841	839
42.5	779	785	798	808	805
45.0	740	748	762	775	774
47.5	699	709	723	740	740
50.0	656	668	687	704	706
52.5	614	626	648	667	671
55.0	569	584	609	630	634
57.5	525	541	567	590	597
60.0	481	498	525	550	557
62.5	436	454	483	509	517
65.0	390	410	441	467	478
67.5	344	366	397	425	435
70.0	297	320	354	384	394
72.5	249	273	313	343	354
75.0	203	228	271	303	314
77.5	157	186	230	265	276
80.0	115	147	194	227	240
82.5	75	111	158	193	206
85.0	42	80	128	163	176
87.5	16	55	103	139	151
90.0	2	39	85	118	131
92.5	1	31	72	103	114
95.0	2	27	63	92	101
97.5	1	25	58	83	92
100.0	1	22	54	77	85
102.5	1	20	51	73	80
105.0	1	19	48	68	75
107.5	1	17	45	64	72
110.0	1	15	42	60	67
112.5	1	13	39	56	63
115.0	1	12	36	53	59
117.5	1	11	33	50	55
120.0	1	10	31	46	52
122.5	1	8	28	42	48
125.0	1	7	25	38	44
127.5	1	6	23	35	40
130.0	1	5	20	32	36
132.5	1	4	18	30	33

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CANDELA TABULATION - (Cont.)

135.0	1	3	16	26	31
137.5	1	2	13	23	27
140.0	1	2	11	21	24
142.5	1	1	10	18	21
145.0	1	1	8	15	18
147.5	1	1	6	12	14
150.0	1	1	5	11	12
152.5	1	1	3	8	10
155.0	1	1	2	6	7
157.5	1	1	1	4	5
160.0	1	1	1	2	3
162.5	1	1	1	2	2
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	1
175.0	1	1	1	1	1
177.5	1	1	1	1	1
180.0	1	1	1	1	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	401.54	N.A.	11.20
0-30	860.03	N.A.	24.00
0-40	1418.86	N.A.	39.60
0-60	2546.82	N.A.	71.10
0-80	3261.21	N.A.	91.10
0-90	3396.76	N.A.	94.80
10-90	3293.78	N.A.	92.00
20-40	1017.33	N.A.	28.40
20-50	1603.72	N.A.	44.80
40-70	1561.12	N.A.	43.60
60-80	714.39	N.A.	19.90
70-80	281.23	N.A.	7.90
80-90	135.55	N.A.	3.80
90-110	111.51	N.A.	3.10
90-120	144.16	N.A.	4.00
90-130	165.21	N.A.	4.60
90-150	182.43	N.A.	5.10
90-180	184.49	N.A.	5.20
110-180	72.97	N.A.	2.00
0-180	3581.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.98
10-20	298.55
20-30	458.49
30-40	558.83
40-50	586.39
50-60	541.56
60-70	433.17
70-80	281.23
80-90	135.55
90-100	65.62
100-110	45.90
110-120	32.64
120-130	21.05
130-140	11.84
140-150	5.38
150-160	1.63
160-170	0.34
170-180	0.10

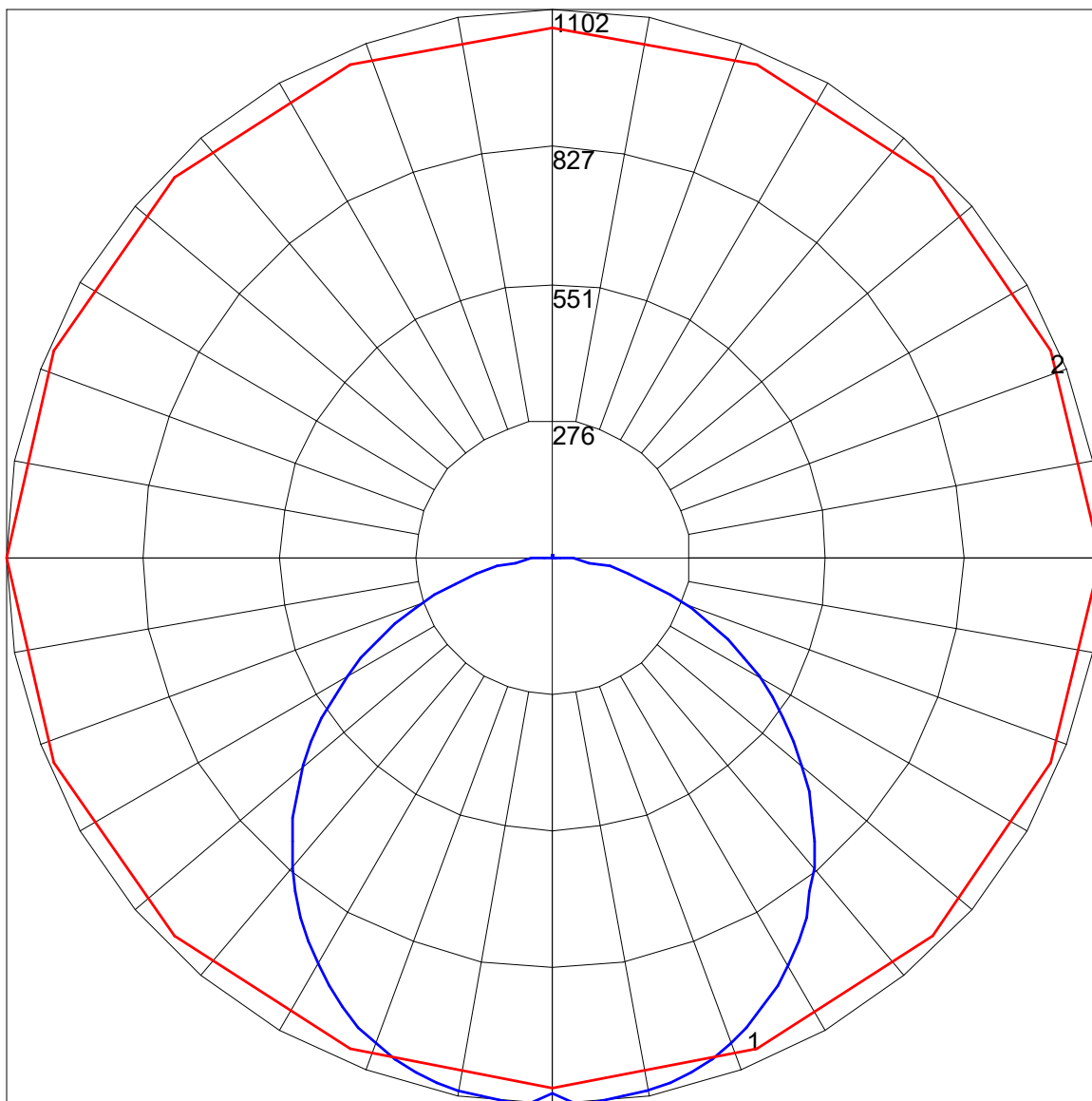
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	101	97	92	103	99	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	56	50	60	54	49	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	38	66	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 = 1102 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.)