



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-31W-5000K.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-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	3617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	5840	5555	5516
55	5497	5265	5320
65	5054	4876	5057
75	4189	4326	4701
85	2279	3877	4718

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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	1090	1090	1090	1090	1090
2.5	1113	1098	1091	1085	1079
5.0	1111	1098	1091	1085	1079
7.5	1109	1095	1089	1083	1077
10.0	1103	1091	1084	1078	1073
12.5	1094	1083	1077	1071	1066
15.0	1084	1072	1066	1063	1058
17.5	1070	1059	1054	1051	1047
20.0	1054	1044	1039	1037	1035
22.5	1035	1025	1023	1022	1019
25.0	1011	1004	1004	1005	1002
27.5	985	980	981	984	981
30.0	957	954	957	962	959
32.5	927	927	931	937	934
35.0	896	897	902	910	907
37.5	861	864	871	880	877
40.0	825	829	839	849	847
42.5	787	793	806	816	814
45.0	748	756	770	783	782
47.5	706	716	731	747	748
50.0	663	675	694	711	713
52.5	621	632	654	674	677
55.0	575	590	615	636	641
57.5	531	546	572	595	603
60.0	485	503	531	556	563
62.5	440	458	488	514	522
65.0	394	414	446	472	483
67.5	347	370	401	429	439
70.0	300	323	358	388	398
72.5	252	276	317	346	357
75.0	205	231	274	306	318
77.5	158	188	233	267	279
80.0	116	149	196	230	242
82.5	76	112	159	195	208
85.0	42	81	129	165	178
87.5	16	56	104	140	152
90.0	2	40	86	120	132
92.5	1	31	72	104	115
95.0	2	27	64	93	102
97.5	1	25	59	84	93
100.0	1	22	55	78	86
102.5	1	20	51	73	81
105.0	1	19	48	69	76
107.5	1	17	45	65	72
110.0	1	15	42	61	68
112.5	1	14	40	57	64
115.0	1	13	37	53	60
117.5	1	11	34	50	56
120.0	1	10	31	46	52
122.5	1	8	28	42	48
125.0	1	7	25	39	44
127.5	1	6	23	36	41
130.0	1	5	20	33	37
132.5	1	4	18	30	34

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CANDELA TABULATION - (Cont.)

135.0	1	3	16	26	31
137.5	1	2	14	23	27
140.0	1	2	12	21	24
142.5	1	1	10	18	21
145.0	1	1	8	15	18
147.5	1	1	6	13	14
150.0	1	1	5	11	13
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	405.61	N.A.	11.20
0-30	868.56	N.A.	24.00
0-40	1432.94	N.A.	39.60
0-60	2572.28	N.A.	71.10
0-80	3294.05	N.A.	91.10
0-90	3431.00	N.A.	94.80
10-90	3326.97	N.A.	92.00
20-40	1027.33	N.A.	28.40
20-50	1619.74	N.A.	44.80
40-70	1576.88	N.A.	43.60
60-80	721.77	N.A.	20.00
70-80	284.23	N.A.	7.90
80-90	136.95	N.A.	3.80
90-110	112.53	N.A.	3.10
90-120	145.69	N.A.	4.00
90-130	166.92	N.A.	4.60
90-150	184.33	N.A.	5.10
90-180	186.40	N.A.	5.20
110-180	73.88	N.A.	2.00
0-180	3617.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.03
10-20	301.58
20-30	462.95
30-40	564.38
40-50	592.40
50-60	546.93
60-70	437.55
70-80	284.23
80-90	136.95
90-100	66.30
100-110	46.23
110-120	33.16
120-130	21.23
130-140	11.98
140-150	5.44
150-160	1.64
160-170	0.34
170-180	0.10

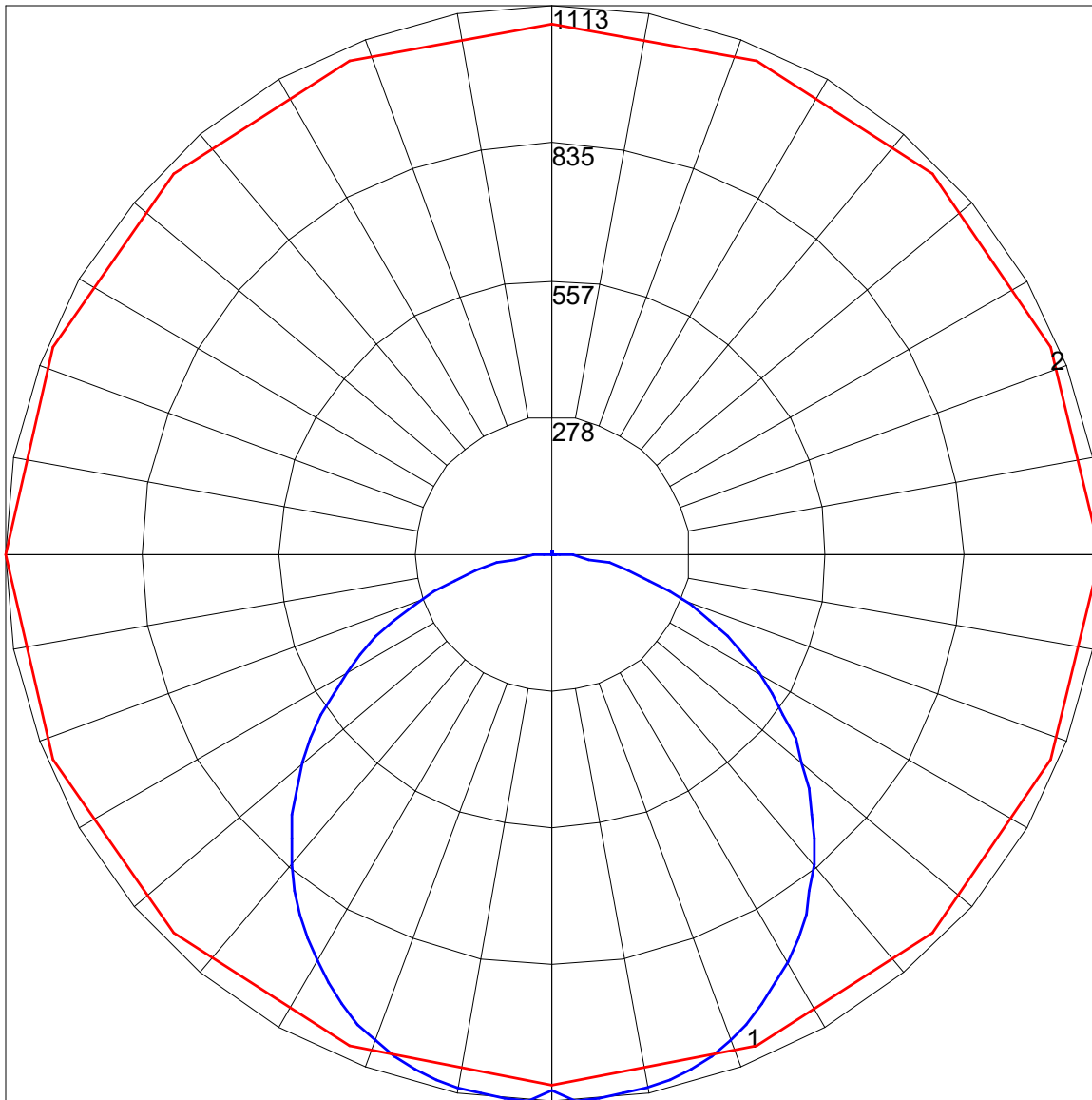
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1113 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.)