



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-20W-3000K.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-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	2393
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	3857	3672	3639
55	3652	3484	3519
65	3348	3225	3319
75	2779	2874	3089
85	1574	2585	3128

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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	720	720	720	720	720
2.5	736	726	721	717	713
5.0	735	726	721	717	714
7.5	733	724	719	716	712
10.0	729	720	716	714	710
12.5	723	716	712	709	706
15.0	716	709	705	703	699
17.5	708	700	697	695	694
20.0	697	691	687	686	684
22.5	685	678	676	675	674
25.0	669	664	664	664	662
27.5	652	649	650	652	649
30.0	634	631	633	636	634
32.5	613	612	615	619	617
35.0	591	591	596	601	599
37.5	569	570	576	583	580
40.0	545	547	555	561	560
42.5	521	524	532	540	539
45.0	494	500	509	517	516
47.5	467	474	483	494	494
50.0	440	447	459	470	471
52.5	410	418	433	446	448
55.0	382	390	407	420	424
57.5	351	361	378	395	399
60.0	321	332	351	368	374
62.5	291	304	323	340	346
65.0	261	274	295	312	317
67.5	229	245	267	285	290
70.0	199	214	238	257	263
72.5	166	184	209	229	236
75.0	136	154	182	203	209
77.5	106	125	155	177	184
80.0	76	98	129	152	160
82.5	51	74	105	128	138
85.0	29	53	86	110	118
87.5	11	37	69	93	101
90.0	2	26	56	79	88
92.5	1	20	48	69	76
95.0	1	18	42	61	68
97.5	1	16	39	55	61
100.0	1	15	36	52	56
102.5	1	13	34	49	53
105.0	1	12	32	46	51
107.5	1	11	30	43	48
110.0	1	10	28	40	45
112.5	1	9	26	37	42
115.0	1	8	24	35	39
117.5	1	7	22	32	37
120.0	1	6	20	31	34
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	13	22	25
132.5	1	3	11	19	22

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CANDELA TABULATION - (Cont.)

135.0	1	2	11	18	20
137.5	1	1	9	15	18
140.0	1	1	8	13	16
142.5	1	1	7	12	14
145.0	1	1	5	11	11
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	268.21	N.A.	11.20
0-30	574.46	N.A.	24.00
0-40	947.35	N.A.	39.60
0-60	1700.84	N.A.	71.10
0-80	2178.88	N.A.	91.10
0-90	2269.51	N.A.	94.80
10-90	2200.75	N.A.	92.00
20-40	679.15	N.A.	28.40
20-50	1070.77	N.A.	44.70
40-70	1043.18	N.A.	43.60
60-80	478.04	N.A.	20.00
70-80	188.34	N.A.	7.90
80-90	90.63	N.A.	3.80
90-110	74.41	N.A.	3.10
90-120	96.06	N.A.	4.00
90-130	110.28	N.A.	4.60
90-150	121.86	N.A.	5.10
90-180	123.38	N.A.	5.20
110-180	48.98	N.A.	2.00
0-180	2392.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.76
10-20	199.44
20-30	306.25
30-40	372.90
40-50	391.62
50-60	361.86
60-70	289.69
70-80	188.34
80-90	90.63
90-100	43.72
100-110	30.69
110-120	21.65
120-130	14.22
130-140	7.86
140-150	3.73
150-160	1.13
160-170	0.30
170-180	0.09

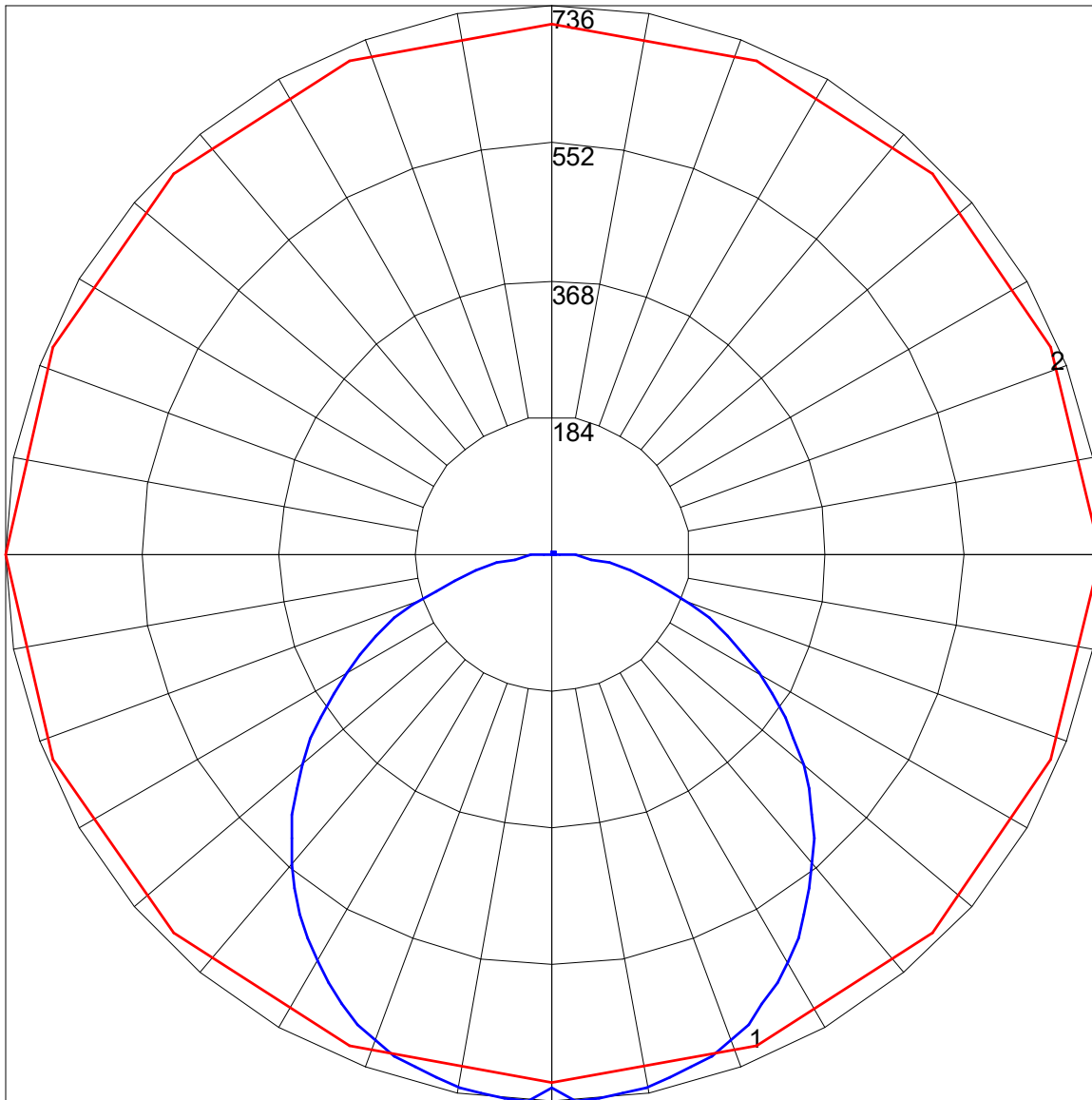
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 736 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.)