



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-42W-5000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12899
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 10/28/2021
[TESTDATE] 08/20/21
[MANUFAC] LSI INDUSTRIES, INC.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[LUMCAT] AW-4-FS1-42W-5000K
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4700
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	42
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	7573	7207	7152
55	7160	6831	6914
65	6555	6330	6564
75	5436	5621	6090
85	2984	5049	6176

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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	1414	1414	1414	1414	1414
2.5	1442	1424	1414	1406	1398
5.0	1442	1424	1414	1406	1399
7.5	1438	1420	1411	1404	1397
10.0	1431	1413	1405	1399	1392
12.5	1419	1404	1396	1390	1385
15.0	1406	1390	1384	1379	1373
17.5	1387	1373	1368	1364	1358
20.0	1367	1354	1350	1346	1342
22.5	1342	1331	1327	1326	1322
25.0	1313	1304	1302	1303	1300
27.5	1279	1275	1274	1277	1274
30.0	1244	1241	1243	1248	1245
32.5	1205	1202	1210	1216	1212
35.0	1162	1162	1172	1181	1177
37.5	1117	1119	1131	1143	1140
40.0	1070	1075	1089	1104	1102
42.5	1021	1028	1045	1061	1058
45.0	970	980	999	1016	1014
47.5	917	930	952	971	971
50.0	863	878	901	924	926
52.5	808	823	850	876	880
55.0	749	769	798	826	833
57.5	692	709	743	775	784
60.0	630	653	690	722	734
62.5	571	596	634	670	679
65.0	511	537	579	615	627
67.5	451	479	524	559	571
70.0	390	421	468	505	517
72.5	329	363	412	451	464
75.0	266	304	356	399	412
77.5	208	246	303	347	362
80.0	150	192	255	298	315
82.5	99	144	206	254	270
85.0	55	106	168	216	233
87.5	21	73	136	183	199
90.0	3	52	112	156	172
92.5	2	40	94	135	150
95.0	2	35	83	120	133
97.5	1	32	76	109	121
100.0	1	29	71	101	112
102.5	2	27	67	96	106
105.0	1	24	63	90	100
107.5	1	22	59	85	94
110.0	1	20	55	79	88
112.5	1	18	51	74	83
115.0	1	16	47	70	78
117.5	1	14	44	65	73
120.0	1	12	40	60	68
122.5	1	10	36	56	63
125.0	1	9	33	51	58
127.5	1	7	30	47	53
130.0	1	6	27	42	48
132.5	1	5	24	38	44

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CANDELA TABULATION - (Cont.)

135.0	1	4	21	35	40
137.5	1	3	18	31	35
140.0	1	2	15	27	31
142.5	1	2	13	24	28
145.0	2	2	10	20	24
147.5	2	2	8	17	20
150.0	1	1	6	13	16
152.5	1	1	4	10	12
155.0	1	1	3	7	9
157.5	1	1	2	5	6
160.0	1	1	2	3	4
162.5	1	1	1	2	2
165.0	2	1	1	2	1
167.5	1	1	1	1	1
170.0	2	1	1	1	1
172.5	1	1	1	1	1
175.0	2	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	526.10	N.A.	11.20
0-30	1127.09	N.A.	24.00
0-40	1859.69	N.A.	39.60
0-60	3340.00	N.A.	71.10
0-80	4279.39	N.A.	91.10
0-90	4457.65	N.A.	94.80
10-90	4322.78	N.A.	92.00
20-40	1333.58	N.A.	28.40
20-50	2102.81	N.A.	44.70
40-70	2049.35	N.A.	43.60
60-80	939.39	N.A.	20.00
70-80	370.35	N.A.	7.90
80-90	178.27	N.A.	3.80
90-110	146.46	N.A.	3.10
90-120	189.35	N.A.	4.00
90-130	216.95	N.A.	4.60
90-150	239.72	N.A.	5.10
90-180	242.24	N.A.	5.20
110-180	95.78	N.A.	2.00
0-180	4699.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.87
10-20	391.23
20-30	600.99
30-40	732.60
40-50	769.22
50-60	711.09
60-70	569.04
70-80	370.35
80-90	178.27
90-100	86.03
100-110	60.42
110-120	42.89
120-130	27.60
130-140	15.58
140-150	7.19
150-160	2.02
160-170	0.39
170-180	0.10

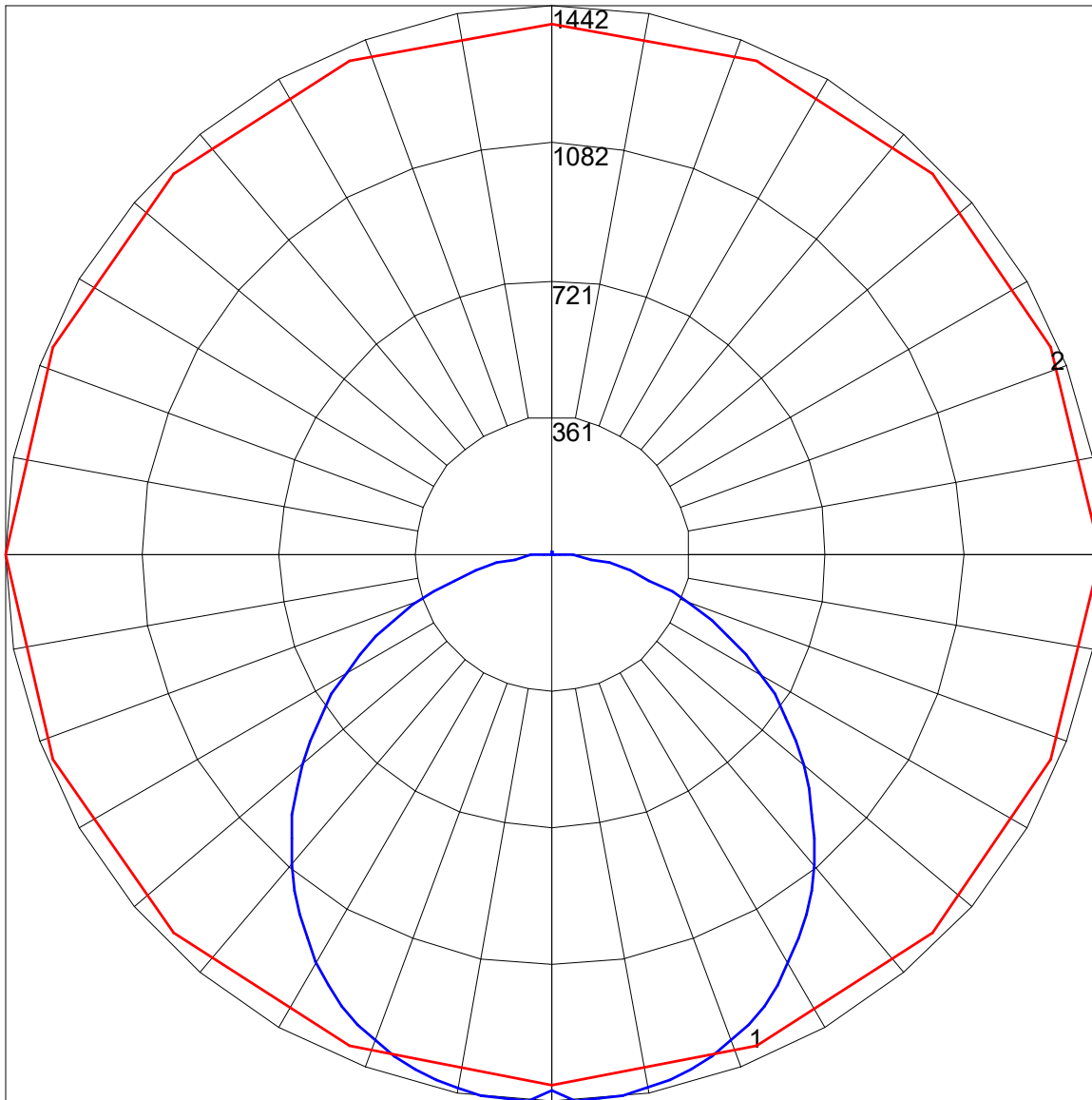
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	45	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 = 1442 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.)