



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-42W-3000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12901
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 10/28/2021
[TESTDATE] 08/20/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] AW-4-FS1-42W-3000K
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 3000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4653
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	7511	7142	7095
55	7093	6754	6831
65	6491	6265	6481
75	5395	5558	6002
85	2930	4959	6070

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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	1405	1405	1405	1405	1405
2.5	1433	1415	1406	1398	1390
5.0	1432	1415	1405	1397	1390
7.5	1429	1411	1402	1395	1388
10.0	1421	1405	1396	1389	1382
12.5	1411	1394	1387	1381	1374
15.0	1397	1380	1374	1369	1363
17.5	1378	1363	1358	1354	1349
20.0	1356	1343	1340	1337	1332
22.5	1331	1320	1317	1316	1313
25.0	1302	1294	1292	1293	1289
27.5	1270	1264	1264	1267	1263
30.0	1235	1231	1233	1237	1234
32.5	1196	1194	1200	1204	1200
35.0	1154	1154	1163	1169	1164
37.5	1111	1112	1122	1131	1128
40.0	1064	1068	1079	1092	1089
42.5	1015	1021	1035	1050	1048
45.0	962	969	990	1008	1006
47.5	906	919	941	962	962
50.0	853	867	891	916	918
52.5	798	814	841	867	870
55.0	742	760	789	816	823
57.5	685	705	737	765	774
60.0	627	649	684	714	722
62.5	569	591	628	660	671
65.0	506	532	573	607	619
67.5	446	471	518	554	566
70.0	383	414	462	501	513
72.5	323	356	406	447	460
75.0	264	300	352	394	406
77.5	206	245	301	342	357
80.0	151	192	253	292	308
82.5	101	145	205	250	266
85.0	54	104	165	212	229
87.5	21	71	134	180	196
90.0	3	50	110	153	170
92.5	2	39	93	133	148
95.0	2	35	82	118	130
97.5	2	32	75	107	118
100.0	1	29	70	99	110
102.5	1	26	66	93	103
105.0	1	24	62	88	98
107.5	2	22	58	83	92
110.0	1	19	54	78	87
112.5	1	18	50	73	81
115.0	2	16	47	68	76
117.5	1	14	43	64	71
120.0	1	12	39	59	66
122.5	1	10	36	54	61
125.0	1	9	32	50	57
127.5	2	7	29	46	52
130.0	1	6	26	42	48
132.5	2	6	23	38	43

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CANDELA TABULATION - (Cont.)

135.0	1	4	20	34	39
137.5	1	3	18	30	35
140.0	1	2	15	26	31
142.5	1	2	12	23	27
145.0	1	2	10	19	23
147.5	1	1	8	16	19
150.0	1	1	5	13	16
152.5	1	1	4	10	13
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	2	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	2	2	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	522.49	N.A.	11.20
0-30	1118.74	N.A.	24.00
0-40	1845.19	N.A.	39.70
0-60	3310.71	N.A.	71.10
0-80	4239.5	N.A.	91.10
0-90	4415.41	N.A.	94.90
10-90	4281.4	N.A.	92.00
20-40	1322.71	N.A.	28.40
20-50	2084.6	N.A.	44.80
40-70	2028.38	N.A.	43.60
60-80	928.79	N.A.	20.00
70-80	365.92	N.A.	7.90
80-90	175.91	N.A.	3.80
90-110	143.92	N.A.	3.10
90-120	186.08	N.A.	4.00
90-130	213.14	N.A.	4.60
90-150	235.37	N.A.	5.10
90-180	237.88	N.A.	5.10
110-180	93.96	N.A.	2.00
0-180	4653.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.01
10-20	388.47
20-30	596.25
30-40	726.46
40-50	761.89
50-60	703.62
60-70	562.87
70-80	365.92
80-90	175.91
90-100	84.70
100-110	59.22
110-120	42.16
120-130	27.07
130-140	15.36
140-150	6.86
150-160	2.02
160-170	0.38
170-180	0.11

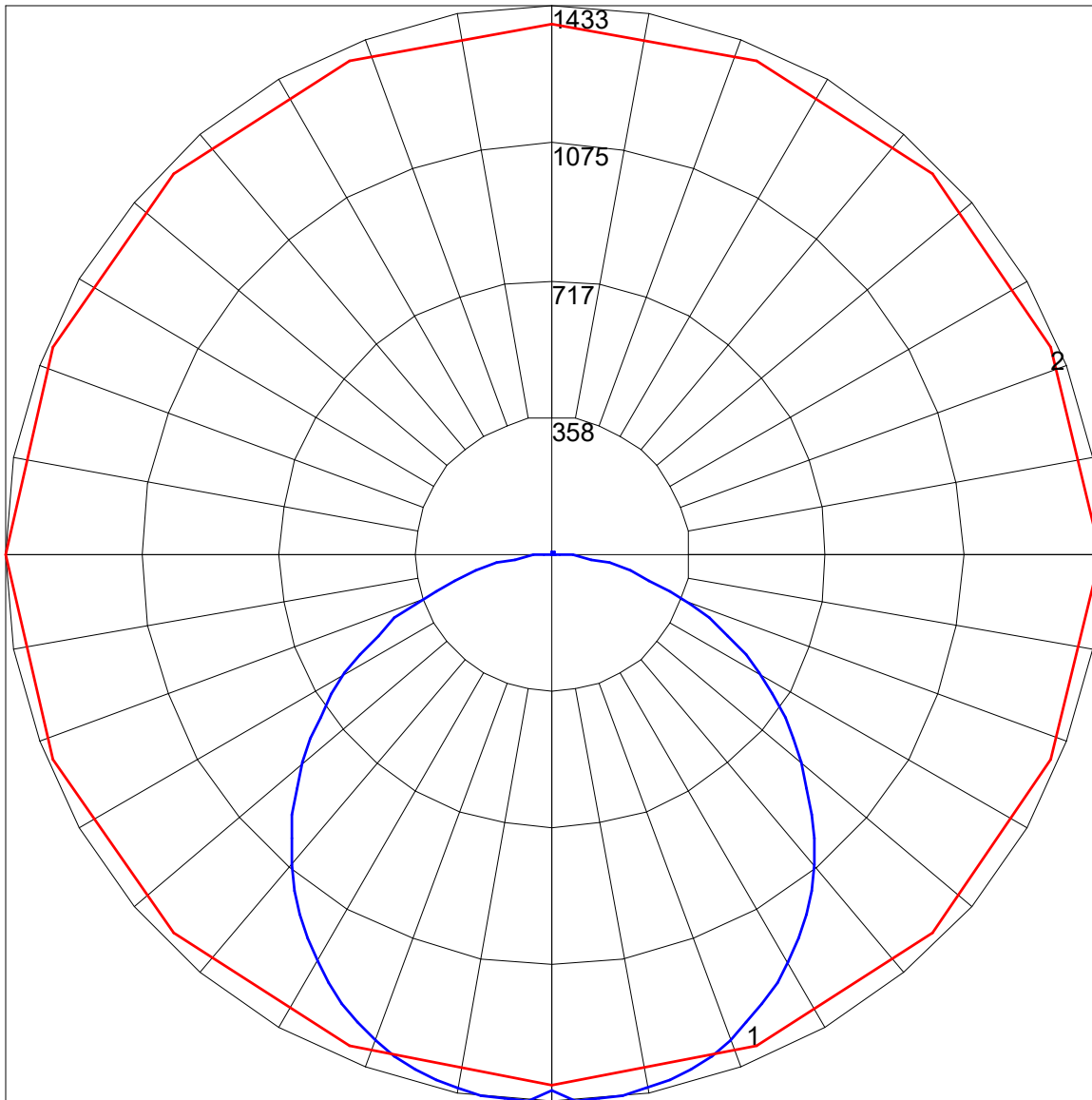
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	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	60	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 = 1433 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.)