



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-42W-4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12900
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 10/28/2021
 [TESTDATE] 08/20/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] AW-4-FS1-42W-4000K
 [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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4870
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	7831	7459	7427
55	7428	7079	7138
65	6773	6560	6805
75	5660	5842	6268
85	3039	5229	6388

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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	1466	1466	1466	1466	1466
2.5	1495	1477	1467	1459	1451
5.0	1495	1477	1467	1459	1451
7.5	1491	1473	1464	1456	1449
10.0	1484	1466	1458	1451	1444
12.5	1472	1455	1448	1442	1435
15.0	1457	1441	1435	1430	1424
17.5	1438	1424	1418	1415	1409
20.0	1416	1403	1399	1396	1391
22.5	1390	1379	1376	1375	1371
25.0	1360	1352	1350	1350	1347
27.5	1326	1322	1322	1324	1319
30.0	1290	1286	1289	1292	1289
32.5	1250	1249	1253	1259	1255
35.0	1207	1207	1214	1223	1219
37.5	1161	1162	1173	1184	1180
40.0	1110	1114	1129	1143	1140
42.5	1056	1065	1082	1100	1097
45.0	1003	1014	1034	1054	1053
47.5	949	962	985	1007	1006
50.0	893	908	933	958	960
52.5	836	853	881	906	912
55.0	777	796	827	855	860
57.5	717	739	770	801	809
60.0	657	679	714	747	757
62.5	593	616	658	693	704
65.0	528	556	600	638	650
67.5	465	495	541	580	594
70.0	402	434	484	525	536
72.5	340	374	427	466	481
75.0	277	315	370	412	424
77.5	217	258	313	358	373
80.0	159	201	264	308	324
82.5	104	150	215	263	280
85.0	56	108	174	223	241
87.5	22	75	140	190	208
90.0	4	53	115	162	178
92.5	2	41	98	140	154
95.0	2	37	86	123	137
97.5	2	34	79	112	124
100.0	2	31	74	105	115
102.5	2	28	70	99	109
105.0	2	25	65	93	103
107.5	2	23	61	87	97
110.0	2	21	57	82	91
112.5	1	19	53	76	85
115.0	2	17	49	72	80
117.5	2	15	45	67	75
120.0	1	13	41	62	70
122.5	1	11	38	57	65
125.0	1	9	34	53	60
127.5	2	8	31	48	55
130.0	1	6	28	44	50
132.5	1	6	24	40	45

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CANDELA TABULATION - (Cont.)

135.0	1	4	22	36	41
137.5	1	3	18	32	36
140.0	1	2	16	28	32
142.5	2	2	13	24	28
145.0	2	2	11	21	24
147.5	1	2	8	17	21
150.0	2	2	6	14	17
152.5	2	2	4	11	13
155.0	1	2	3	8	10
157.5	2	2	2	5	6
160.0	2	2	2	3	4
162.5	2	2	2	2	2
165.0	1	2	1	2	2
167.5	1	1	1	1	2
170.0	1	2	1	1	1
172.5	1	1	1	1	1
175.0	2	2	2	2	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	545.57	N.A.	11.20
0-30	1168.52	N.A.	24.00
0-40	1927.99	N.A.	39.60
0-60	3461.3	N.A.	71.10
0-80	4434.08	N.A.	91.10
0-90	4618.76	N.A.	94.80
10-90	4478.86	N.A.	92.00
20-40	1382.42	N.A.	28.40
20-50	2179.15	N.A.	44.70
40-70	2122.65	N.A.	43.60
60-80	972.78	N.A.	20.00
70-80	383.43	N.A.	7.90
80-90	184.69	N.A.	3.80
90-110	151.66	N.A.	3.10
90-120	196.07	N.A.	4.00
90-130	224.69	N.A.	4.60
90-150	248.19	N.A.	5.10
90-180	251.10	N.A.	5.20
110-180	99.44	N.A.	2.00
0-180	4869.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.91
10-20	405.67
20-30	622.95
30-40	759.47
40-50	796.73
50-60	736.58
60-70	589.35
70-80	383.43
80-90	184.69
90-100	89.05
100-110	62.61
110-120	44.41
120-130	28.61
130-140	16.11
140-150	7.40
150-160	2.30
160-170	0.49
170-180	0.12

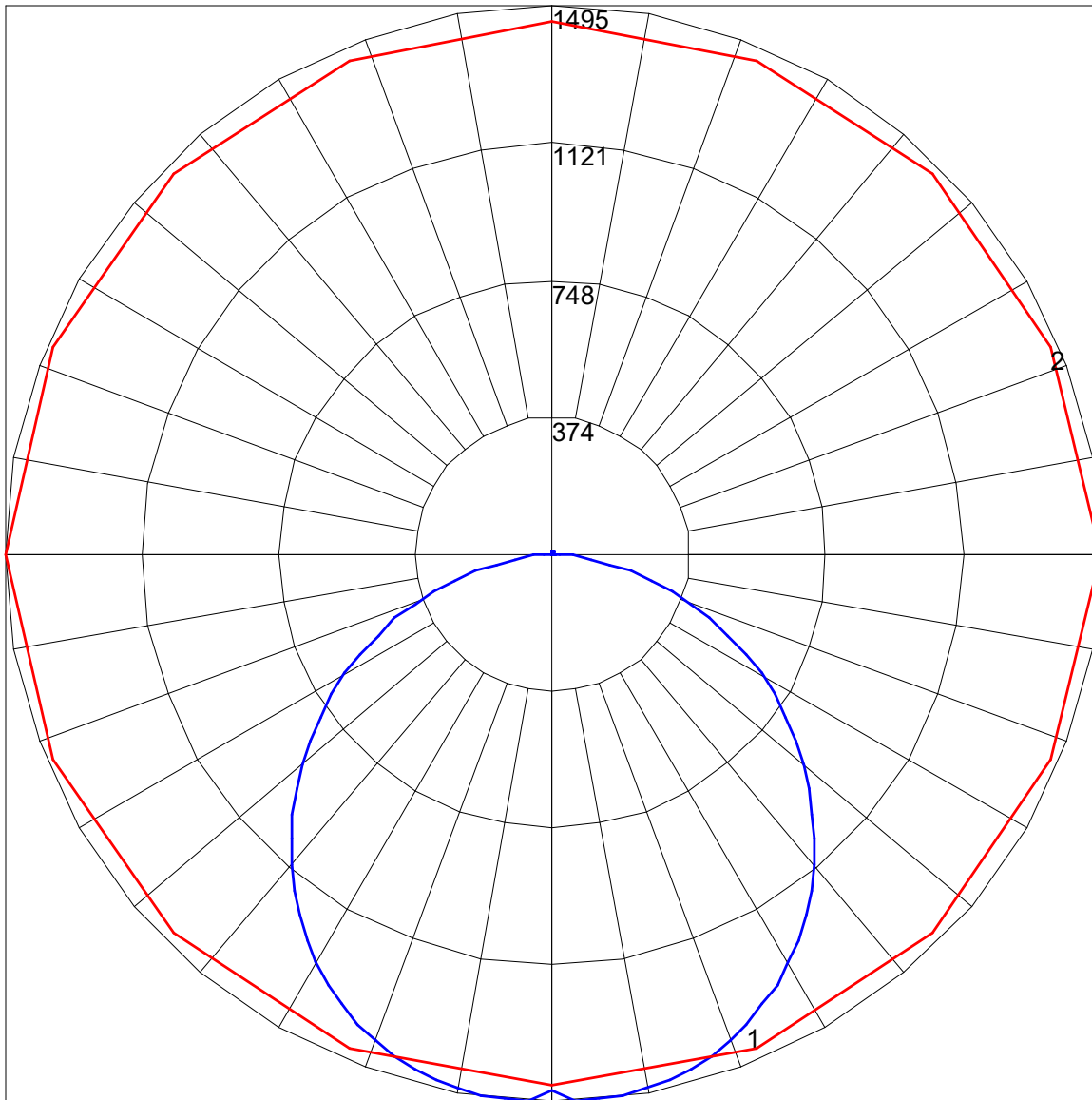
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1495 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.)