



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AW-4-FS1-31W-4000K.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-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	3748
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	6051	5757	5713
55	5697	5453	5511
65	5234	5051	5235
75	4332	4484	4863
85	2388	4027	4877

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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	1129	1129	1129	1129	1129
2.5	1153	1138	1131	1124	1118
5.0	1151	1138	1130	1124	1118
7.5	1149	1135	1128	1122	1116
10.0	1143	1130	1123	1117	1112
12.5	1134	1122	1116	1110	1105
15.0	1123	1111	1105	1101	1096
17.5	1109	1097	1092	1089	1085
20.0	1092	1082	1077	1075	1072
22.5	1072	1062	1060	1059	1056
25.0	1048	1040	1040	1041	1038
27.5	1021	1016	1017	1020	1017
30.0	992	989	992	997	994
32.5	961	961	965	971	968
35.0	928	929	935	943	940
37.5	892	895	903	912	909
40.0	855	859	869	880	878
42.5	815	822	835	846	843
45.0	775	783	798	811	810
47.5	732	742	757	774	775
50.0	687	699	719	737	739
52.5	643	655	678	698	702
55.0	596	611	637	659	664
57.5	550	566	593	617	625
60.0	503	521	550	576	583
62.5	456	475	506	533	541
65.0	408	429	462	489	500
67.5	360	383	416	445	455
70.0	311	335	371	402	412
72.5	261	286	328	359	370
75.0	212	239	284	317	329
77.5	164	195	241	277	289
80.0	120	154	203	238	251
82.5	79	116	165	202	216
85.0	44	84	134	171	184
87.5	17	58	108	145	158
90.0	2	41	89	124	137
92.5	1	32	75	108	119
95.0	2	28	66	96	106
97.5	1	26	61	87	96
100.0	1	23	57	81	89
102.5	1	21	53	76	84
105.0	1	20	50	71	79
107.5	1	18	47	67	75
110.0	1	16	44	63	70
112.5	1	14	41	59	66
115.0	1	13	38	55	62
117.5	1	11	35	52	58
120.0	1	10	32	48	54
122.5	1	8	29	44	50
125.0	1	7	26	40	46
127.5	1	6	24	37	42
130.0	1	5	21	34	38
132.5	1	4	19	31	35

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CANDELA TABULATION - (Cont.)

135.0	1	3	17	27	32
137.5	1	2	14	24	28
140.0	1	2	12	22	25
142.5	1	1	10	19	22
145.0	1	1	8	16	19
147.5	1	1	6	13	15
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	420.28	N.A.	11.20
0-30	900.04	N.A.	24.00
0-40	1484.93	N.A.	39.60
0-60	2665.46	N.A.	71.10
0-80	3413.38	N.A.	91.10
0-90	3555.34	N.A.	94.90
10-90	3447.55	N.A.	92.00
20-40	1064.65	N.A.	28.40
20-50	1678.45	N.A.	44.80
40-70	1633.99	N.A.	43.60
60-80	747.92	N.A.	20.00
70-80	294.45	N.A.	7.90
80-90	141.96	N.A.	3.80
90-110	116.68	N.A.	3.10
90-120	150.90	N.A.	4.00
90-130	172.85	N.A.	4.60
90-150	190.85	N.A.	5.10
90-180	192.92	N.A.	5.10
110-180	76.24	N.A.	2.00
0-180	3748.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.79
10-20	312.50
20-30	479.76
30-40	584.89
40-50	613.80
50-60	566.73
60-70	453.46
70-80	294.45
80-90	141.96
90-100	68.65
100-110	48.03
110-120	34.22
120-130	21.95
130-140	12.39
140-150	5.61
150-160	1.64
160-170	0.34
170-180	0.10

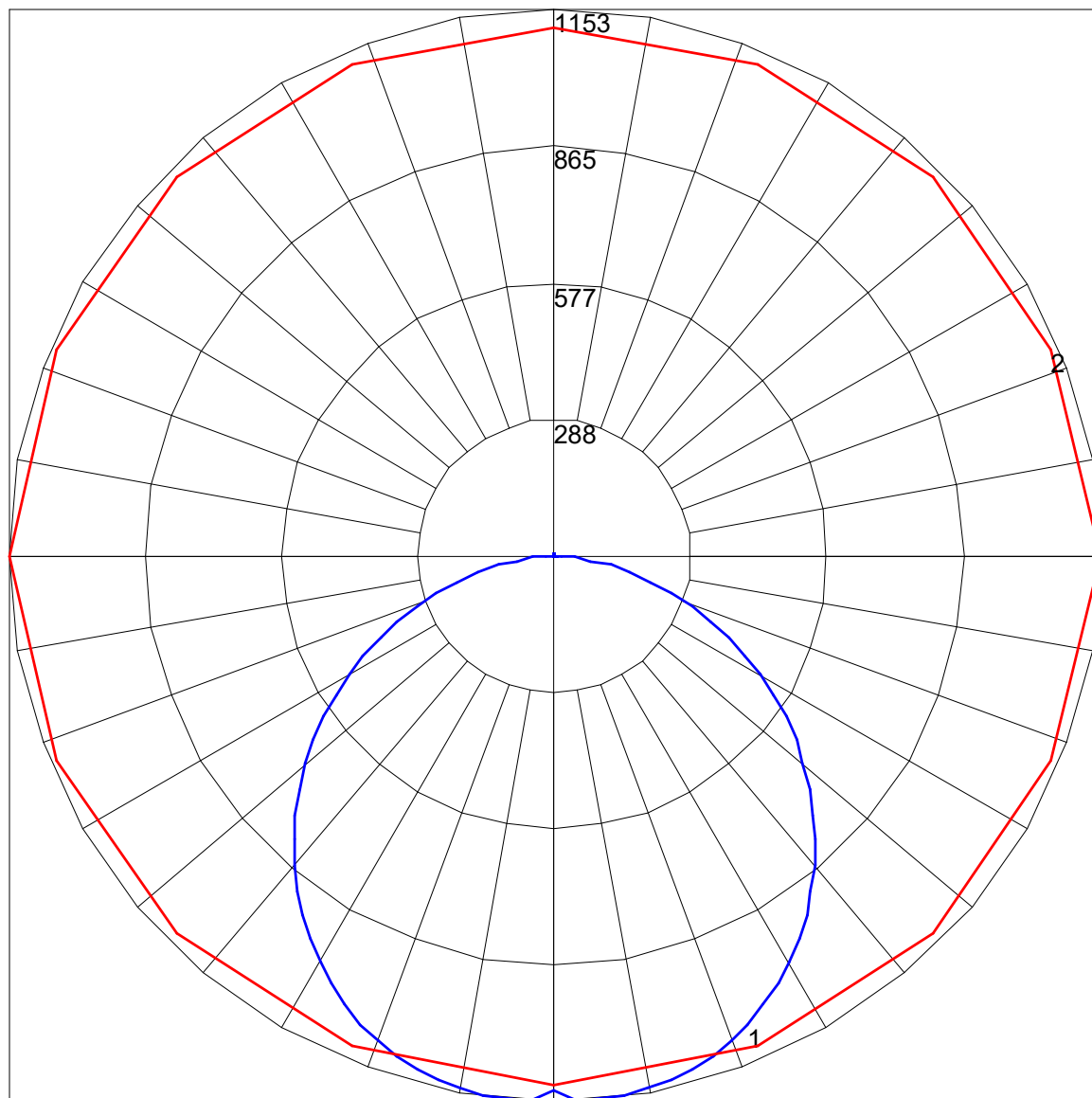
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1153 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.)