



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-18L-S-850-R16AW.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] LED-12708  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 05/25/21  
 [TESTDATE] 04/15/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-18L-S-850-R16AW  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Interior  
 [SEARCH\_COLORTEMP] 5000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17549
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	111
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.30 ft (Diameter)
Luminous Width (90-270)	1.30 ft (Diameter)
Luminous Height	0.70 ft



**AUL R16**

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22289	22792	23424
55	10170	10470	10606
65	8490	8560	8630
75	6254	6298	6289
85	4071	4092	4145

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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	6806	6806	6806	6806	6806
2.5	6801	6808	6818	6830	6842
5.0	6834	6866	6919	6978	6991
7.5	6917	6979	7079	7121	7168
10.0	7151	7123	7185	7245	7266
12.5	7136	7249	7285	7349	7280
15.0	7257	7289	7305	7345	7329
17.5	7144	7227	7280	7291	7290
20.0	7190	7173	7225	7245	7230
22.5	7004	7029	7066	7093	7138
25.0	6889	6918	6965	6985	6986
27.5	6789	6824	6868	6883	6878
30.0	6692	6662	6605	6584	6574
32.5	6345	6331	6255	6194	6161
35.0	5777	5761	5719	5645	5606
37.5	4943	4941	4935	4895	4854
40.0	4245	4226	4271	4264	4247
42.5	3734	3748	3770	3805	3831
45.0	3279	3313	3353	3402	3446
47.5	2836	2861	2907	2972	3010
50.0	2296	2318	2378	2465	2475
52.5	1724	1766	1846	1885	1903
55.0	1425	1442	1467	1483	1486
57.5	1365	1371	1380	1392	1397
60.0	1289	1292	1300	1310	1314
62.5	1189	1192	1202	1210	1213
65.0	1094	1093	1103	1109	1112
67.5	991	994	1000	1005	1009
70.0	895	897	901	907	906
72.5	802	804	807	807	811
75.0	711	713	716	714	715
77.5	622	624	622	624	625
80.0	539	538	539	541	542
82.5	458	460	462	465	465
85.0	387	385	389	391	394
87.5	318	320	321	326	328
90.0	277	277	279	281	282
92.5	284	284	286	288	289
95.0	290	291	293	295	296
97.5	297	297	299	301	302
100.0	302	303	304	306	307
102.5	307	307	309	311	312
105.0	311	311	313	315	316
107.5	314	315	317	318	318
110.0	317	317	319	321	321
112.5	318	319	321	323	323
115.0	320	320	321	323	324
117.5	320	320	321	323	324
120.0	318	319	320	322	323
122.5	317	317	318	320	321
125.0	315	315	316	317	318
127.5	311	312	313	314	315
130.0	308	308	309	310	311
132.5	304	304	305	306	307

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	300	300	301	302	303
<b>137.5</b>	294	294	295	297	297
<b>140.0</b>	288	288	289	290	291
<b>142.5</b>	281	282	282	284	284
<b>145.0</b>	275	275	276	277	277
<b>147.5</b>	268	268	269	269	269
<b>150.0</b>	259	260	261	260	261
<b>152.5</b>	249	251	251	251	252
<b>155.0</b>	239	242	242	240	241
<b>157.5</b>	227	230	230	229	229
<b>160.0</b>	216	221	221	220	219
<b>162.5</b>	204	210	211	209	208
<b>165.0</b>	194	198	199	197	195
<b>167.5</b>	183	185	186	184	181
<b>170.0</b>	169	171	172	170	165
<b>172.5</b>	154	154	154	152	149
<b>175.0</b>	132	132	132	133	132
<b>177.5</b>	109	111	113	115	114
<b>180.0</b>	102	102	102	102	102

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2727.16	N.A.	15.50
0-30	5935.26	N.A.	33.80
0-40	9409.51	N.A.	53.60
0-60	13431.16	N.A.	76.50
0-80	15277.59	N.A.	87.10
0-90	15708.99	N.A.	89.50
10-90	15039.52	N.A.	85.70
20-40	6682.36	N.A.	38.10
20-50	9251.65	N.A.	52.70
40-70	5112.01	N.A.	29.10
60-80	1846.43	N.A.	10.50
70-80	756.06	N.A.	4.30
80-90	431.40	N.A.	2.50
90-110	649.76	N.A.	3.70
90-120	968.27	N.A.	5.50
90-130	1251.51	N.A.	7.10
90-150	1657.6	N.A.	9.40
90-180	1839.59	N.A.	10.50
110-180	1189.83	N.A.	6.80
0-180	17548.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	669.46
10-20	2057.69
20-30	3208.11
30-40	3474.25
40-50	2569.29
50-60	1452.36
60-70	1090.37
70-80	756.06
80-90	431.40
90-100	319.10
100-110	330.66
110-120	318.51
120-130	283.23
130-140	232.69
140-150	173.41
150-160	111.79
160-170	56.37
170-180	13.82

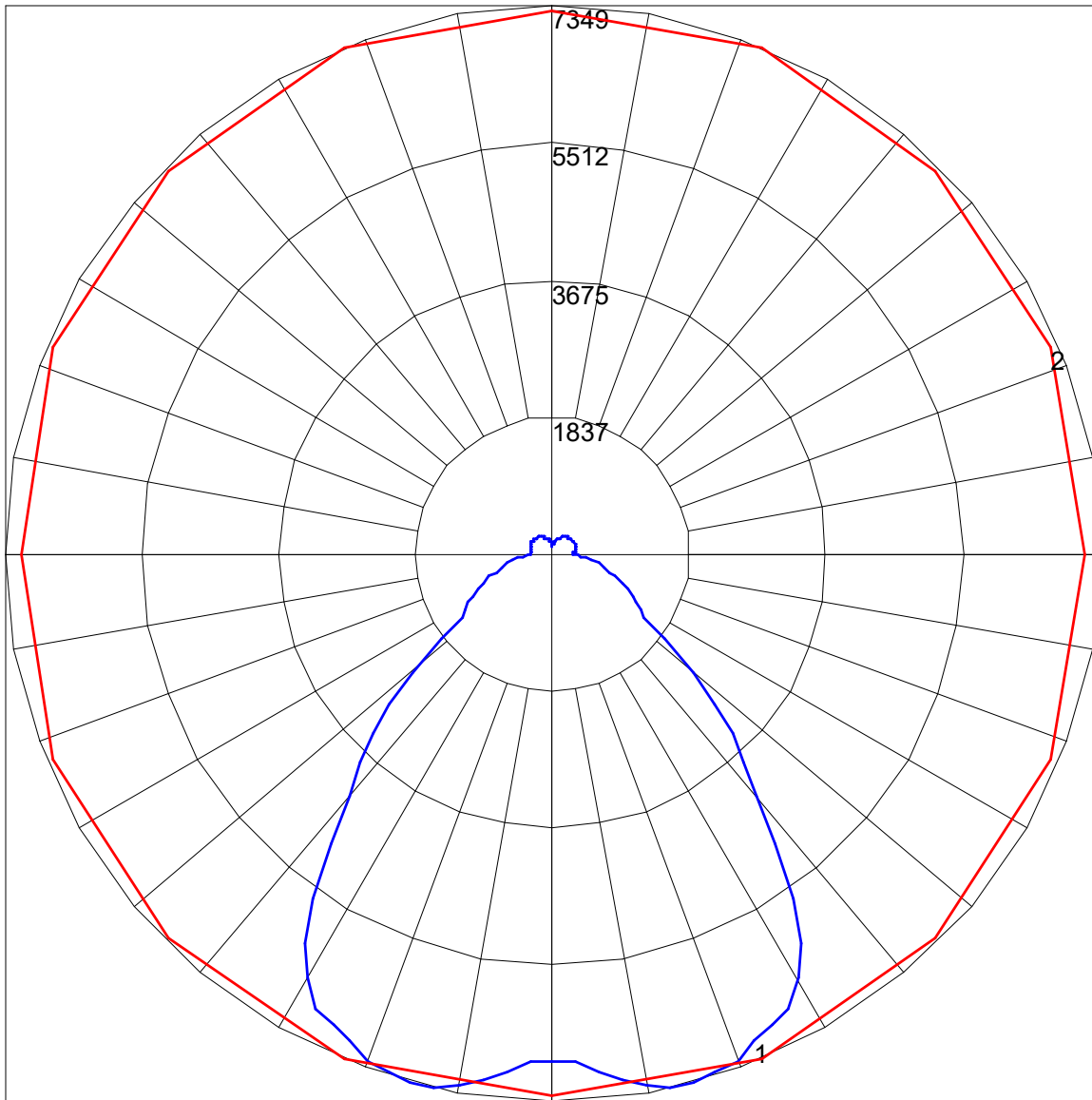
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	90
1	107	103	99	96	104	100	96	93	94	91	88	88	86	84	83	81	79	77
2	99	92	85	80	95	89	83	79	84	79	75	79	75	72	74	72	69	66
3	91	82	75	69	88	80	73	68	75	70	65	71	67	63	67	64	60	58
4	84	74	66	60	81	72	65	59	68	62	57	65	59	55	61	57	53	51
5	78	67	59	53	76	65	58	52	62	55	51	59	53	49	56	51	48	45
6	73	61	53	47	70	59	52	46	57	50	45	54	48	44	51	47	43	41
7	68	56	48	42	66	54	47	42	52	45	41	50	44	40	47	42	39	37
8	63	51	43	38	61	50	43	38	48	41	37	46	40	36	44	39	35	33
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	38	33	29	28

POLAR GRAPH



Maximum Candela = 7349 Located At Horizontal Angle = 67.5, Vertical Angle = 12.5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)