



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-18L-S-850-R16AD.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] LED-12709  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 05/25/21  
 [TESTDATE] 04/15/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-18L-S-850-R16AD  
 [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	17971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
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)	1.24
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



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19760	20080	20508
55	9664	9892	10070
65	10252	10368	10508
75	9966	10037	10151
85	9131	9216	9279

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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	6014	6014	6014	6014	6014
2.5	6005	6009	6020	6031	6037
5.0	6052	6063	6106	6151	6204
7.5	6138	6185	6262	6329	6355
10.0	6307	6326	6404	6452	6450
12.5	6408	6438	6469	6525	6524
15.0	6388	6425	6490	6544	6514
17.5	6455	6404	6427	6507	6491
20.0	6339	6340	6392	6420	6414
22.5	6182	6238	6258	6293	6321
25.0	6098	6116	6163	6186	6202
27.5	6022	6040	6076	6101	6111
30.0	5929	5915	5874	5832	5824
32.5	5625	5609	5564	5505	5501
35.0	5098	5092	5075	5014	5000
37.5	4395	4359	4363	4343	4303
40.0	3726	3731	3750	3752	3734
42.5	3285	3297	3307	3339	3345
45.0	2907	2928	2954	2987	3017
47.5	2537	2551	2595	2644	2660
50.0	2096	2110	2158	2193	2226
52.5	1616	1638	1677	1726	1738
55.0	1354	1368	1386	1405	1411
57.5	1345	1352	1365	1382	1390
60.0	1352	1355	1369	1384	1390
62.5	1340	1344	1355	1370	1378
65.0	1321	1324	1336	1350	1354
67.5	1288	1292	1303	1314	1321
70.0	1245	1250	1258	1268	1272
72.5	1193	1196	1204	1212	1218
75.0	1133	1137	1141	1150	1154
77.5	1070	1068	1076	1085	1088
80.0	998	1001	1009	1017	1020
82.5	932	935	941	948	952
85.0	868	871	876	882	882
87.5	806	808	812	815	816
90.0	749	751	754	754	755
92.5	703	705	706	709	710
95.0	660	661	664	665	667
97.5	619	618	622	624	625
100.0	581	581	583	586	586
102.5	546	546	548	550	550
105.0	513	513	515	516	516
107.5	483	484	484	484	485
110.0	455	455	456	455	455
112.5	430	430	430	430	430
115.0	405	404	406	406	406
117.5	384	383	385	385	385
120.0	364	364	364	364	365
122.5	346	346	346	346	346
125.0	330	330	330	330	329
127.5	316	316	315	314	314
130.0	302	302	301	301	300
132.5	289	289	288	287	287

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	278	278	278	276	276
<b>137.5</b>	268	267	267	266	266
<b>140.0</b>	257	257	257	256	256
<b>142.5</b>	248	248	248	248	248
<b>145.0</b>	239	239	239	238	238
<b>147.5</b>	232	232	231	230	230
<b>150.0</b>	221	222	222	221	221
<b>152.5</b>	212	214	214	213	213
<b>155.0</b>	201	205	205	204	204
<b>157.5</b>	190	196	196	195	194
<b>160.0</b>	183	188	188	187	186
<b>162.5</b>	173	179	180	178	174
<b>165.0</b>	164	168	170	168	165
<b>167.5</b>	155	157	160	157	154
<b>170.0</b>	145	146	147	146	143
<b>172.5</b>	132	132	133	132	131
<b>175.0</b>	113	115	116	117	117
<b>177.5</b>	98	99	100	102	102
<b>180.0</b>	93	93	93	93	93

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2420.37	N.A.	13.50
0-30	5262.32	N.A.	29.30
0-40	8341.13	N.A.	46.40
0-60	11996.04	N.A.	66.80
0-80	14517.94	N.A.	80.80
0-90	15474.98	N.A.	86.10
10-90	14882.01	N.A.	82.80
20-40	5920.76	N.A.	32.90
20-50	8192.65	N.A.	45.60
40-70	4972.28	N.A.	27.70
60-80	2521.91	N.A.	14.00
70-80	1204.54	N.A.	6.70
80-90	957.04	N.A.	5.30
90-110	1272.55	N.A.	7.10
90-120	1677.47	N.A.	9.30
90-130	1974.87	N.A.	11.00
90-150	2341.1	N.A.	13.00
90-180	2496.04	N.A.	13.90
110-180	1223.49	N.A.	6.80
0-180	17971.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	592.97
10-20	1827.4
20-30	2841.95
30-40	3078.81
40-50	2271.89
50-60	1383.02
60-70	1317.37
70-80	1204.54
80-90	957.04
90-100	725.66
100-110	546.89
110-120	404.93
120-130	297.40
130-140	215.55
140-150	150.67
150-160	94.96
160-170	47.98
170-180	12.01

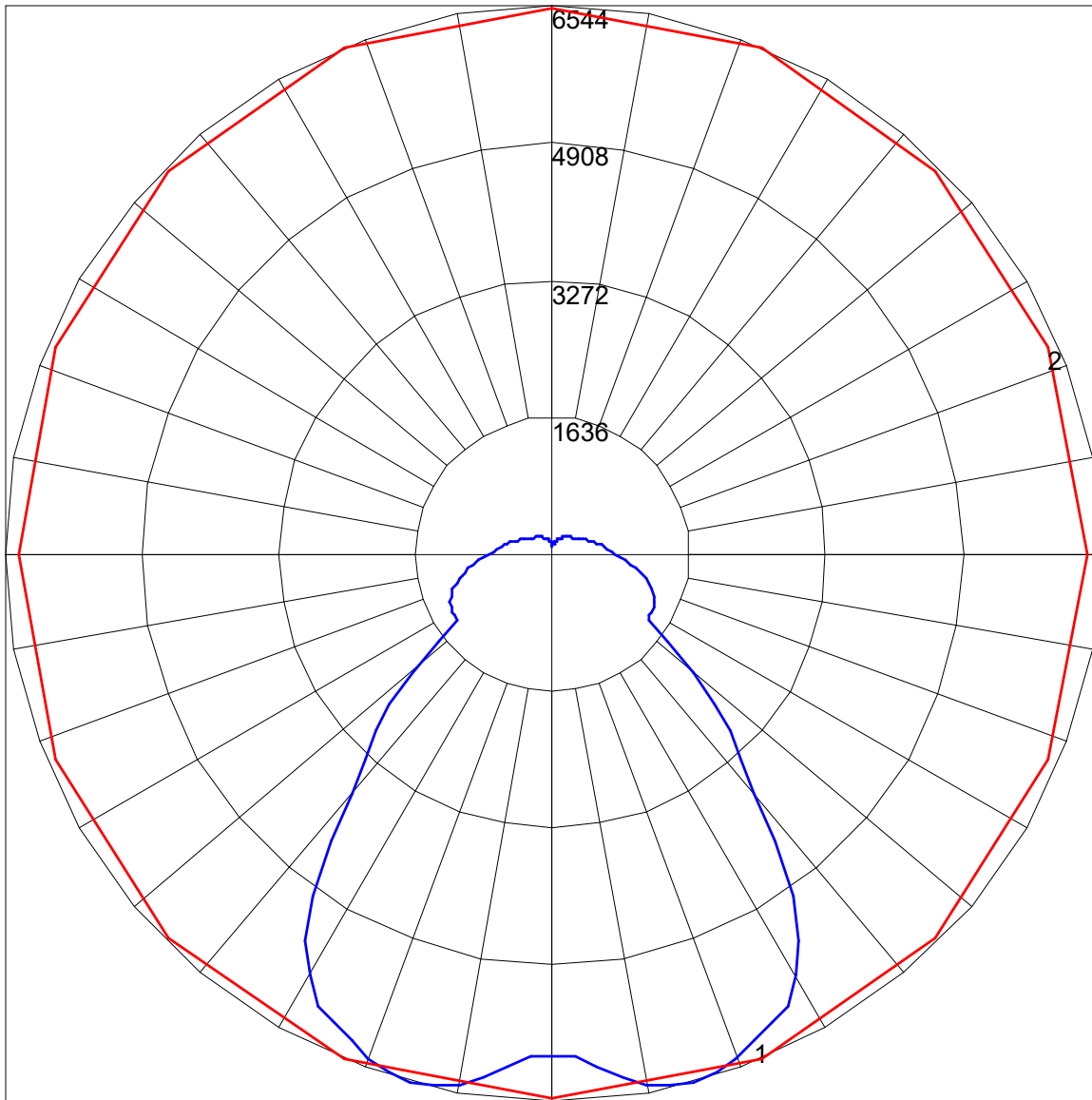
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	105	100	95	91	101	96	92	88	89	86	83	83	80	78	77	75	73	70
2	96	88	81	75	92	85	78	73	79	74	69	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	66	61	57	61	57	54	51
4	81	70	61	55	78	67	60	54	63	57	52	59	54	49	56	51	47	45
5	75	63	54	48	72	61	53	47	57	51	45	54	48	44	51	46	42	40
6	70	57	49	43	67	55	48	42	52	46	40	49	43	39	47	42	38	35
7	65	52	44	38	62	51	43	37	48	41	36	45	39	35	43	38	34	32
8	61	48	40	34	58	47	39	34	44	38	33	42	36	32	40	35	31	29
9	57	44	36	31	55	43	36	31	41	34	30	39	33	29	37	32	28	26
10	53	41	33	28	51	40	33	28	38	32	27	36	31	27	34	29	26	24

POLAR GRAPH



Maximum Candela = 6544 Located At Horizontal Angle = 67.5, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)