



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-24L-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-24L-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	24093
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	151
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



**AUL R16**

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26497	26925	27503
55	12954	13261	13511
65	13744	13892	14086
75	13362	13458	13608
85	12245	12361	12435

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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	8061	8061	8061	8061	8061
2.5	8052	8057	8072	8088	8094
5.0	8114	8127	8188	8247	8318
7.5	8231	8294	8395	8486	8519
10.0	8456	8481	8585	8650	8648
12.5	8593	8631	8674	8750	8747
15.0	8565	8615	8703	8774	8733
17.5	8654	8586	8618	8725	8705
20.0	8499	8501	8569	8607	8600
22.5	8288	8363	8391	8439	8475
25.0	8176	8200	8263	8295	8315
27.5	8075	8099	8147	8181	8192
30.0	7949	7931	7876	7819	7809
32.5	7542	7521	7459	7382	7375
35.0	6837	6826	6804	6724	6705
37.5	5894	5845	5851	5824	5768
40.0	4996	5001	5027	5032	5006
42.5	4404	4419	4433	4477	4485
45.0	3898	3925	3961	4005	4046
47.5	3402	3419	3479	3545	3566
50.0	2811	2829	2892	2940	2985
52.5	2166	2196	2249	2314	2329
55.0	1815	1833	1858	1884	1893
57.5	1804	1811	1831	1853	1863
60.0	1811	1816	1834	1854	1864
62.5	1798	1802	1817	1836	1847
65.0	1771	1776	1790	1809	1815
67.5	1728	1734	1746	1762	1770
70.0	1670	1674	1687	1700	1705
72.5	1600	1605	1614	1624	1632
75.0	1519	1524	1530	1542	1547
77.5	1435	1432	1444	1454	1458
80.0	1338	1341	1353	1364	1368
82.5	1249	1253	1261	1271	1276
85.0	1164	1166	1175	1182	1182
87.5	1080	1084	1089	1093	1093
90.0	1004	1006	1010	1010	1013
92.5	943	945	946	950	952
95.0	884	886	889	892	895
97.5	831	829	834	837	839
100.0	778	778	782	786	786
102.5	732	732	734	737	738
105.0	688	688	689	691	690
107.5	647	648	649	649	650
110.0	611	611	611	611	611
112.5	577	577	577	577	577
115.0	544	543	545	545	545
117.5	515	514	515	515	515
120.0	487	487	487	487	488
122.5	463	464	463	464	463
125.0	442	442	441	441	440
127.5	422	422	421	420	420
130.0	404	404	404	403	402
132.5	388	388	387	387	387

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	372	372	372	371	371
<b>137.5</b>	358	357	357	356	356
<b>140.0</b>	345	345	345	344	344
<b>142.5</b>	332	332	332	332	332
<b>145.0</b>	321	321	321	320	320
<b>147.5</b>	310	310	310	310	310
<b>150.0</b>	297	299	298	297	297
<b>152.5</b>	283	287	287	285	285
<b>155.0</b>	269	276	276	274	274
<b>157.5</b>	256	262	262	262	261
<b>160.0</b>	245	252	251	250	249
<b>162.5</b>	232	240	241	239	234
<b>165.0</b>	219	226	227	225	222
<b>167.5</b>	208	212	214	212	207
<b>170.0</b>	195	196	197	196	192
<b>172.5</b>	177	177	178	177	175
<b>175.0</b>	152	153	155	157	157
<b>177.5</b>	131	133	135	137	137
<b>180.0</b>	124	124	124	124	124

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3245.21	N.A.	13.50
0-30	7055.7	N.A.	29.30
0-40	11183.84	N.A.	46.40
0-60	16083.7	N.A.	66.80
0-80	19464.67	N.A.	80.80
0-90	20747.5	N.A.	86.10
10-90	19952.47	N.A.	82.80
20-40	7938.63	N.A.	32.90
20-50	10984.49	N.A.	45.60
40-70	6665.89	N.A.	27.70
60-80	3380.98	N.A.	14.00
70-80	1614.94	N.A.	6.70
80-90	1282.83	N.A.	5.30
90-110	1705.76	N.A.	7.10
90-120	2248.8	N.A.	9.30
90-130	2646.76	N.A.	11.00
90-150	3138.01	N.A.	13.00
90-180	3345.84	N.A.	13.90
110-180	1640.08	N.A.	6.80
0-180	24093.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	795.03
10-20	2450.18
20-30	3810.49
30-40	4128.14
40-50	3045.86
50-60	1854.00
60-70	1766.03
70-80	1614.94
80-90	1282.83
90-100	972.79
100-110	732.97
110-120	543.05
120-130	397.95
130-140	289.08
140-150	202.18
150-160	127.38
160-170	64.35
170-180	16.09

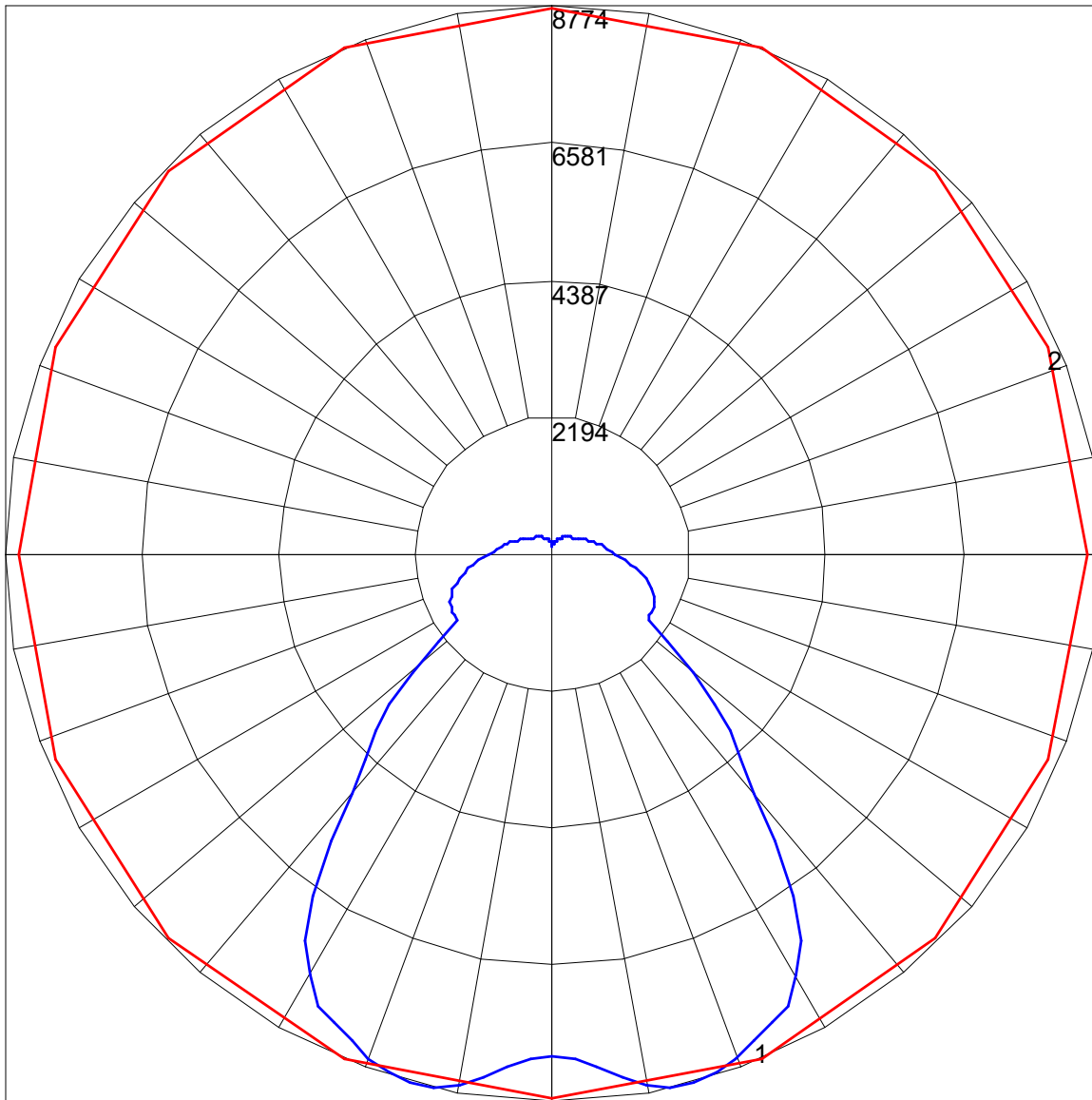
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	44	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 = 8774 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.)