



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-08L-S-840-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-08L-S-840-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] 4000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7997
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	49
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	8796	8939	9129
55	4297	4396	4482
65	4563	4610	4680
75	4433	4469	4513
85	4061	4103	4134

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	2676	2676	2676	2676	2676
<b>2.5</b>	2672	2674	2679	2684	2687
<b>5.0</b>	2693	2698	2718	2737	2761
<b>7.5</b>	2732	2753	2787	2816	2828
<b>10.0</b>	2807	2815	2850	2871	2870
<b>12.5</b>	2852	2865	2879	2904	2904
<b>15.0</b>	2843	2860	2889	2912	2899
<b>17.5</b>	2873	2850	2860	2896	2889
<b>20.0</b>	2821	2822	2844	2857	2854
<b>22.5</b>	2751	2776	2785	2801	2813
<b>25.0</b>	2714	2722	2743	2753	2760
<b>27.5</b>	2680	2688	2704	2715	2719
<b>30.0</b>	2638	2632	2614	2595	2592
<b>32.5</b>	2503	2496	2476	2450	2448
<b>35.0</b>	2269	2266	2258	2232	2225
<b>37.5</b>	1956	1940	1942	1933	1914
<b>40.0</b>	1658	1660	1668	1670	1662
<b>42.5</b>	1462	1467	1471	1486	1489
<b>45.0</b>	1294	1303	1315	1329	1343
<b>47.5</b>	1130	1135	1154	1177	1184
<b>50.0</b>	933	939	960	976	991
<b>52.5</b>	719	729	746	768	773
<b>55.0</b>	602	608	616	625	628
<b>57.5</b>	599	601	607	615	618
<b>60.0</b>	601	603	609	616	619
<b>62.5</b>	597	598	603	610	613
<b>65.0</b>	588	589	594	600	603
<b>67.5</b>	574	575	580	585	587
<b>70.0</b>	554	556	560	564	566
<b>72.5</b>	531	533	536	539	542
<b>75.0</b>	504	506	508	512	513
<b>77.5</b>	476	475	479	483	484
<b>80.0</b>	444	445	449	452	454
<b>82.5</b>	415	416	419	422	424
<b>85.0</b>	386	387	390	393	393
<b>87.5</b>	358	360	362	363	363
<b>90.0</b>	333	334	336	336	336
<b>92.5</b>	313	314	314	315	316
<b>95.0</b>	294	294	295	296	297
<b>97.5</b>	276	275	277	278	278
<b>100.0</b>	258	258	260	261	261
<b>102.5</b>	243	243	243	244	245
<b>105.0</b>	228	228	229	230	229
<b>107.5</b>	215	215	215	215	216
<b>110.0</b>	203	203	203	203	203
<b>112.5</b>	191	191	191	191	191
<b>115.0</b>	180	180	181	181	181
<b>117.5</b>	171	170	171	171	171
<b>120.0</b>	162	162	162	162	162
<b>122.5</b>	154	154	154	154	154
<b>125.0</b>	147	147	147	147	146
<b>127.5</b>	140	140	140	139	139
<b>130.0</b>	134	134	134	134	133
<b>132.5</b>	129	129	128	128	128

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	124	123	123	123	123
<b>137.5</b>	119	119	119	118	118
<b>140.0</b>	115	115	115	114	114
<b>142.5</b>	110	110	110	110	110
<b>145.0</b>	107	107	107	106	106
<b>147.5</b>	103	103	103	102	102
<b>150.0</b>	98	99	99	99	99
<b>152.5</b>	94	95	95	95	95
<b>155.0</b>	90	91	91	91	91
<b>157.5</b>	85	87	87	87	86
<b>160.0</b>	81	84	84	83	83
<b>162.5</b>	77	80	80	79	78
<b>165.0</b>	73	75	75	75	74
<b>167.5</b>	69	70	71	70	69
<b>170.0</b>	65	65	65	65	64
<b>172.5</b>	59	59	59	59	58
<b>175.0</b>	50	51	51	52	52
<b>177.5</b>	44	44	45	45	45
<b>180.0</b>	41	41	41	41	41

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1077.16	N.A.	13.50
0-30	2341.9	N.A.	29.30
0-40	3712.02	N.A.	46.40
0-60	5338.27	N.A.	66.80
0-80	6460.51	N.A.	80.80
0-90	6886.5	N.A.	86.10
10-90	6622.62	N.A.	82.80
20-40	2634.86	N.A.	32.90
20-50	3645.87	N.A.	45.60
40-70	2212.46	N.A.	27.70
60-80	1122.23	N.A.	14.00
70-80	536.03	N.A.	6.70
80-90	426.00	N.A.	5.30
90-110	566.17	N.A.	7.10
90-120	746.31	N.A.	9.30
90-130	878.54	N.A.	11.00
90-150	1041.55	N.A.	13.00
90-180	1110.53	N.A.	13.90
110-180	544.35	N.A.	6.80
0-180	7997.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	263.89
10-20	813.28
20-30	1264.74
30-40	1370.12
40-50	1011.01
50-60	615.24
60-70	586.21
70-80	536.03
80-90	426.00
90-100	322.95
100-110	243.22
110-120	180.14
120-130	132.22
130-140	95.92
140-150	67.09
150-160	42.27
160-170	21.37
170-180	5.34

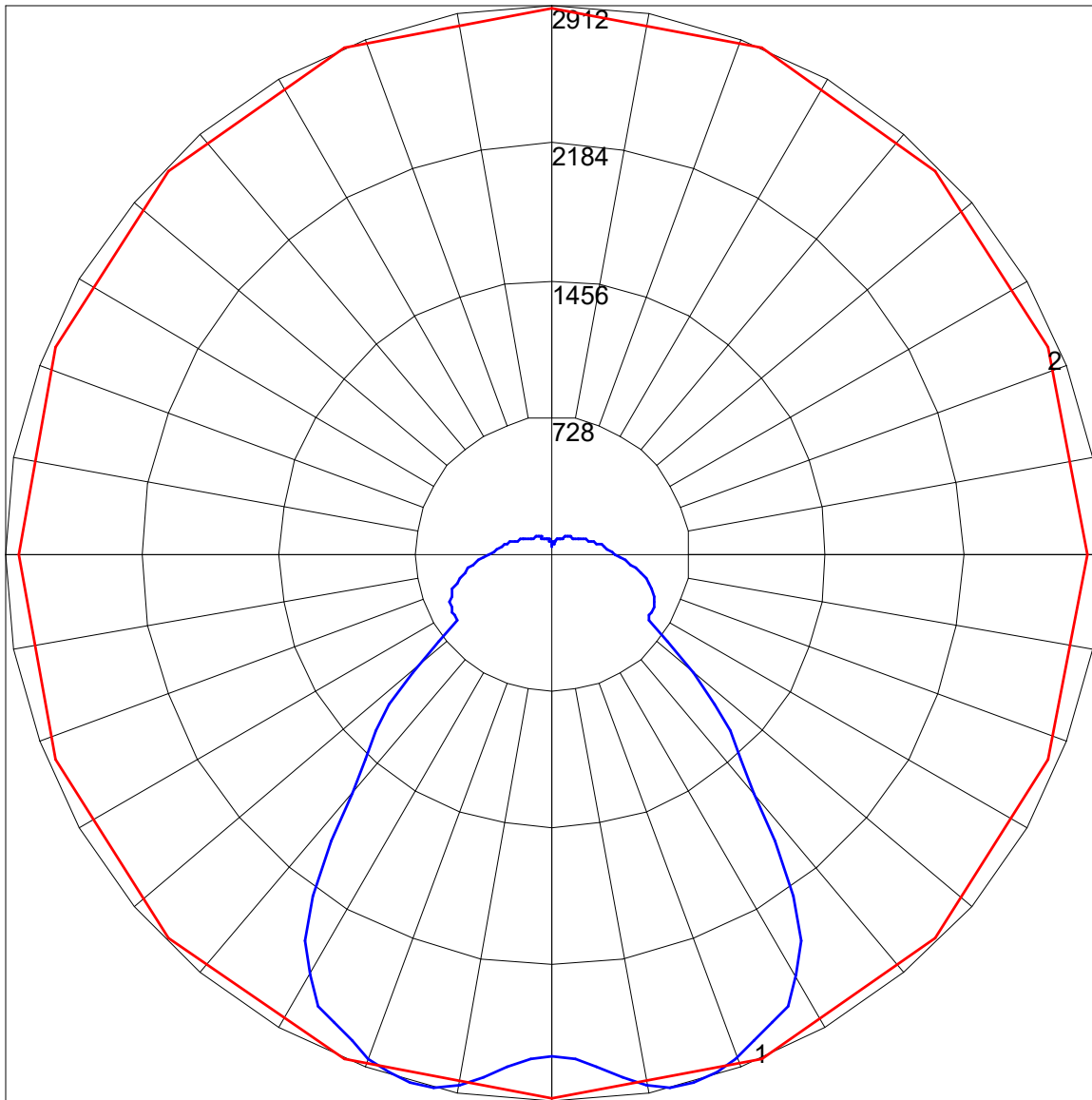
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2912 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.)