



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-18L-S-840-R22AD.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12706  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 05/25/21  
 [TESTDATE] 04/15/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-18L-S-840-R22AD  
 [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	17954
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	111
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.83 ft (Diameter)
Luminous Width (90-270)	1.83 ft (Diameter)
Luminous Height	0.67 ft



**AUL R22**

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18181	17980	17835
55	9615	9782	10073
65	4692	4682	4692
75	4460	4477	4512
85	4034	4071	4108

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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	6676	6676	6676	6676	6676
2.5	6670	6676	6687	6704	6715
5.0	6693	6698	6708	6721	6735
7.5	6699	6704	6715	6729	6743
10.0	6692	6698	6706	6725	6738
12.5	6648	6650	6663	6680	6700
15.0	6549	6553	6581	6587	6600
17.5	6425	6444	6467	6481	6497
20.0	6277	6298	6335	6361	6382
22.5	6097	6132	6164	6201	6210
25.0	5956	5976	6005	6026	6041
27.5	5823	5838	5858	5872	5888
30.0	5687	5696	5711	5722	5729
32.5	5539	5545	5557	5566	5570
35.0	5380	5387	5397	5404	5406
37.5	5224	5232	5232	5242	5248
40.0	5077	5081	5086	5095	5101
42.5	4929	4923	4926	4910	4908
45.0	4617	4593	4566	4533	4529
47.5	4036	4033	4004	3979	3959
50.0	3343	3351	3354	3338	3336
52.5	2743	2751	2769	2784	2767
55.0	2249	2270	2288	2330	2356
57.5	1730	1749	1797	1827	1863
60.0	1177	1211	1256	1285	1304
62.5	973	980	996	1006	1018
65.0	970	969	968	968	970
67.5	940	939	941	941	943
70.0	892	893	896	898	900
72.5	836	837	838	841	843
75.0	773	775	776	781	782
77.5	711	713	715	716	718
80.0	653	655	656	658	660
82.5	598	598	600	603	605
85.0	543	545	548	551	553
87.5	495	494	498	502	504
90.0	448	450	453	457	461
92.5	416	417	420	422	424
95.0	386	388	390	392	394
97.5	359	361	363	365	365
100.0	335	336	337	339	340
102.5	313	313	314	316	317
105.0	291	292	294	295	296
107.5	272	273	275	277	277
110.0	256	257	258	259	260
112.5	242	242	243	244	244
115.0	229	229	230	230	230
117.5	217	218	218	218	219
120.0	207	207	207	207	207
122.5	197	198	197	198	198
125.0	189	189	189	189	189
127.5	181	181	181	181	181
130.0	174	174	174	174	174
132.5	168	168	168	168	167

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	162	162	162	161	161
<b>137.5</b>	157	157	157	156	156
<b>140.0</b>	152	151	151	151	151
<b>142.5</b>	147	146	146	146	146
<b>145.0</b>	142	141	141	141	141
<b>147.5</b>	138	137	136	137	137
<b>150.0</b>	134	133	132	133	133
<b>152.5</b>	130	129	128	129	129
<b>155.0</b>	126	125	123	124	124
<b>157.5</b>	122	122	120	120	120
<b>160.0</b>	118	119	117	116	116
<b>162.5</b>	115	116	114	112	112
<b>165.0</b>	112	111	110	108	107
<b>167.5</b>	108	108	106	105	103
<b>170.0</b>	105	105	104	103	102
<b>172.5</b>	102	102	102	101	101
<b>175.0</b>	100	100	100	100	100
<b>177.5</b>	97	97	98	97	97
<b>180.0</b>	93	93	93	93	93

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2493.28	N.A.	13.90
0-30	5266.71	N.A.	29.30
0-40	8648.91	N.A.	48.20
0-60	14093.38	N.A.	78.50
0-80	15899.11	N.A.	88.60
0-90	16499.47	N.A.	91.90
10-90	15859.02	N.A.	88.30
20-40	6155.63	N.A.	34.30
20-50	9564.93	N.A.	53.30
40-70	6429.42	N.A.	35.80
60-80	1805.73	N.A.	10.10
70-80	820.78	N.A.	4.60
80-90	600.36	N.A.	3.30
90-110	740.42	N.A.	4.10
90-120	969.81	N.A.	5.40
90-130	1140.14	N.A.	6.40
90-150	1355.1	N.A.	7.50
90-180	1454.09	N.A.	8.10
110-180	713.67	N.A.	4.00
0-180	17953.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	640.45
10-20	1852.83
20-30	2773.43
30-40	3382.2
40-50	3409.3
50-60	2035.17
60-70	984.95
70-80	820.78
80-90	600.36
90-100	427.85
100-110	312.57
110-120	229.40
120-130	170.32
130-140	125.83
140-150	89.13
150-160	57.95
160-170	31.40
170-180	9.63

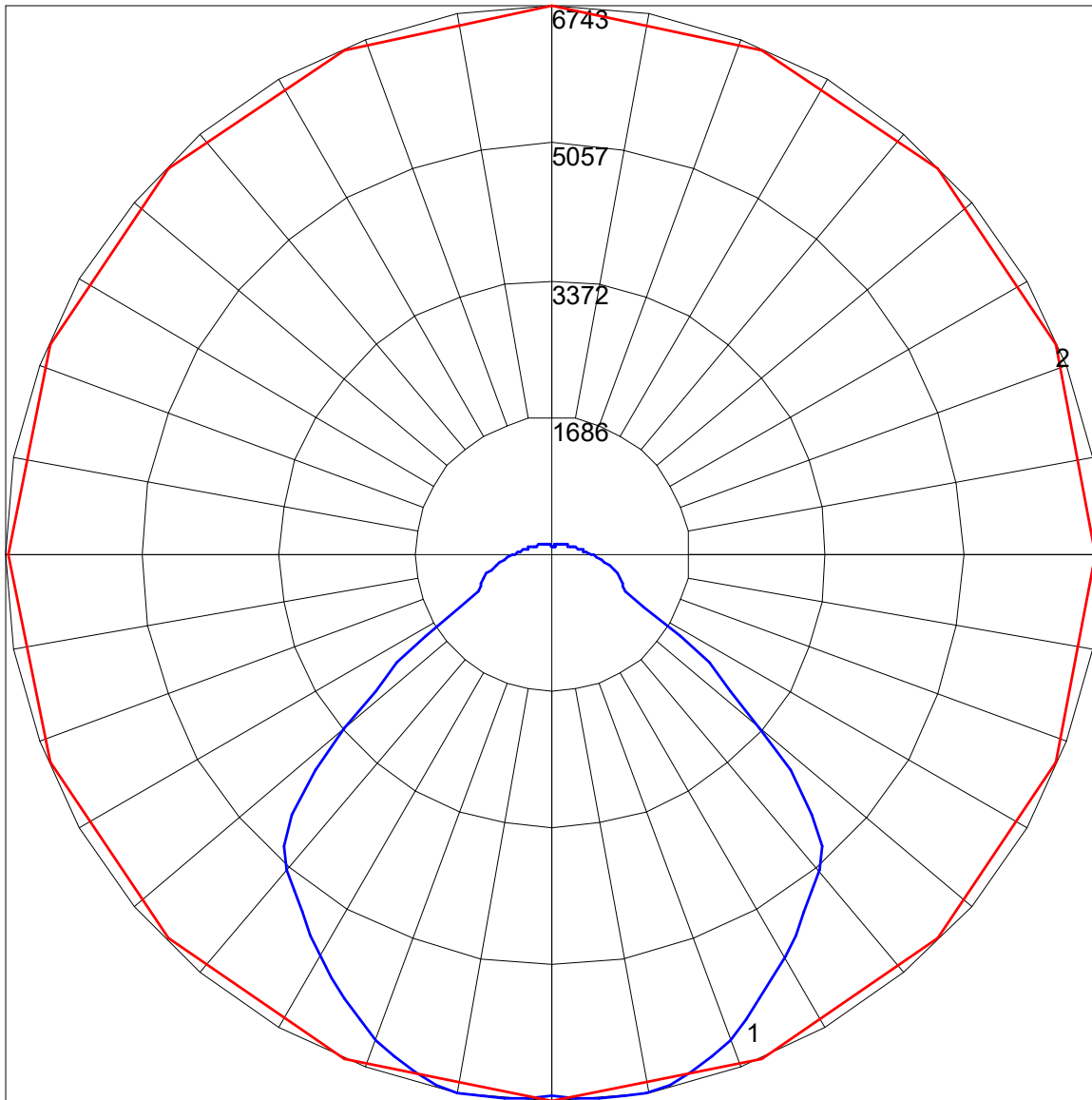
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	107	107	100	100	100	95	95	95	92
1	107	103	99	95	104	100	96	93	94	91	88	89	86	84	84	82	80	78
2	99	91	85	79	95	88	83	78	83	79	75	79	75	72	75	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	67	63	60	57
4	83	72	64	58	81	71	63	57	67	61	56	64	58	54	61	56	52	50
5	77	65	57	51	75	64	56	50	61	54	49	58	52	47	55	50	46	44
6	71	59	51	45	69	58	50	44	55	48	43	53	47	42	50	45	41	39
7	66	54	45	40	64	53	45	39	50	43	38	48	42	38	46	41	37	35
8	62	49	41	36	60	48	40	35	46	39	35	44	38	34	43	37	33	31
9	58	45	37	32	56	44	37	32	43	36	31	41	35	31	39	34	30	28
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26

POLAR GRAPH



Maximum Candela = 6743 Located At Horizontal Angle = 90, Vertical Angle = 7.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)