



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-24L-S-830-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-830-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] 3000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22723
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
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



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24988	25395	25939
55	12219	12504	12740
65	12960	13100	13286
75	12605	12693	12834
85	11551	11656	11730

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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>	7603	7603	7603	7603	7603
<b>2.5</b>	7594	7599	7613	7628	7634
<b>5.0</b>	7653	7665	7722	7778	7845
<b>7.5</b>	7763	7822	7918	8003	8035
<b>10.0</b>	7975	7999	8097	8158	8156
<b>12.5</b>	8104	8140	8181	8252	8250
<b>15.0</b>	8078	8125	8208	8275	8236
<b>17.5</b>	8162	8098	8128	8229	8210
<b>20.0</b>	8016	8018	8082	8118	8111
<b>22.5</b>	7817	7887	7914	7959	7993
<b>25.0</b>	7711	7734	7793	7823	7842
<b>27.5</b>	7616	7638	7684	7716	7726
<b>30.0</b>	7497	7480	7428	7374	7365
<b>32.5</b>	7113	7093	7035	6962	6956
<b>35.0</b>	6448	6438	6417	6342	6324
<b>37.5</b>	5559	5513	5518	5493	5440
<b>40.0</b>	4712	4717	4741	4746	4721
<b>42.5</b>	4154	4168	4181	4222	4230
<b>45.0</b>	3676	3702	3736	3777	3816
<b>47.5</b>	3209	3225	3281	3343	3363
<b>50.0</b>	2651	2668	2728	2773	2815
<b>52.5</b>	2043	2071	2121	2182	2197
<b>55.0</b>	1712	1729	1752	1777	1785
<b>57.5</b>	1701	1708	1727	1748	1757
<b>60.0</b>	1708	1713	1730	1749	1758
<b>62.5</b>	1696	1700	1714	1732	1742
<b>65.0</b>	1670	1675	1688	1706	1712
<b>67.5</b>	1630	1635	1647	1662	1669
<b>70.0</b>	1575	1579	1591	1603	1608
<b>72.5</b>	1509	1514	1522	1532	1539
<b>75.0</b>	1433	1437	1443	1454	1459
<b>77.5</b>	1353	1351	1362	1371	1375
<b>80.0</b>	1262	1265	1276	1286	1290
<b>82.5</b>	1178	1182	1189	1199	1203
<b>85.0</b>	1098	1100	1108	1115	1115
<b>87.5</b>	1019	1022	1027	1031	1031
<b>90.0</b>	947	949	953	953	955
<b>92.5</b>	889	891	892	896	898
<b>95.0</b>	834	836	838	841	844
<b>97.5</b>	784	782	787	789	791
<b>100.0</b>	734	734	738	741	741
<b>102.5</b>	690	690	692	695	696
<b>105.0</b>	649	649	650	652	651
<b>107.5</b>	610	611	612	612	613
<b>110.0</b>	576	576	576	576	576
<b>112.5</b>	544	544	544	544	544
<b>115.0</b>	513	512	514	514	514
<b>117.5</b>	486	485	486	486	486
<b>120.0</b>	459	459	459	459	460
<b>122.5</b>	437	438	437	438	437
<b>125.0</b>	417	417	416	416	415
<b>127.5</b>	398	398	397	396	396
<b>130.0</b>	381	381	381	380	379
<b>132.5</b>	366	366	365	365	365

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	351	351	351	350	350
<b>137.5</b>	338	337	337	336	336
<b>140.0</b>	325	325	325	324	324
<b>142.5</b>	313	313	313	313	313
<b>145.0</b>	303	303	303	302	302
<b>147.5</b>	292	292	292	292	292
<b>150.0</b>	280	282	281	280	280
<b>152.5</b>	267	271	271	269	269
<b>155.0</b>	254	260	260	258	258
<b>157.5</b>	241	247	247	247	246
<b>160.0</b>	231	238	237	236	235
<b>162.5</b>	219	226	227	225	221
<b>165.0</b>	207	213	214	212	209
<b>167.5</b>	196	200	202	200	195
<b>170.0</b>	184	185	186	185	181
<b>172.5</b>	167	167	168	167	165
<b>175.0</b>	143	144	146	148	148
<b>177.5</b>	124	125	127	129	129
<b>180.0</b>	117	117	117	117	117

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3060.68	N.A.	13.50
0-30	6654.48	N.A.	29.30
0-40	10547.9	N.A.	46.40
0-60	15169.18	N.A.	66.80
0-80	18357.94	N.A.	80.80
0-90	19567.88	N.A.	86.10
10-90	18818.07	N.A.	82.80
20-40	7487.21	N.A.	32.90
20-50	10359.89	N.A.	45.60
40-70	6286.97	N.A.	27.70
60-80	3188.77	N.A.	14.00
70-80	1523.08	N.A.	6.70
80-90	1209.94	N.A.	5.30
90-110	1608.69	N.A.	7.10
90-120	2120.8	N.A.	9.30
90-130	2496.17	N.A.	11.00
90-150	2959.46	N.A.	13.00
90-180	3155.44	N.A.	13.90
110-180	1546.75	N.A.	6.80
0-180	22723.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	749.82
10-20	2310.87
20-30	3593.8
30-40	3893.42
40-50	2872.68
50-60	1748.6
60-70	1665.69
70-80	1523.08
80-90	1209.94
90-100	917.47
100-110	691.23
110-120	512.10
120-130	375.37
130-140	272.68
140-150	190.61
150-160	120.13
160-170	60.68
170-180	15.17

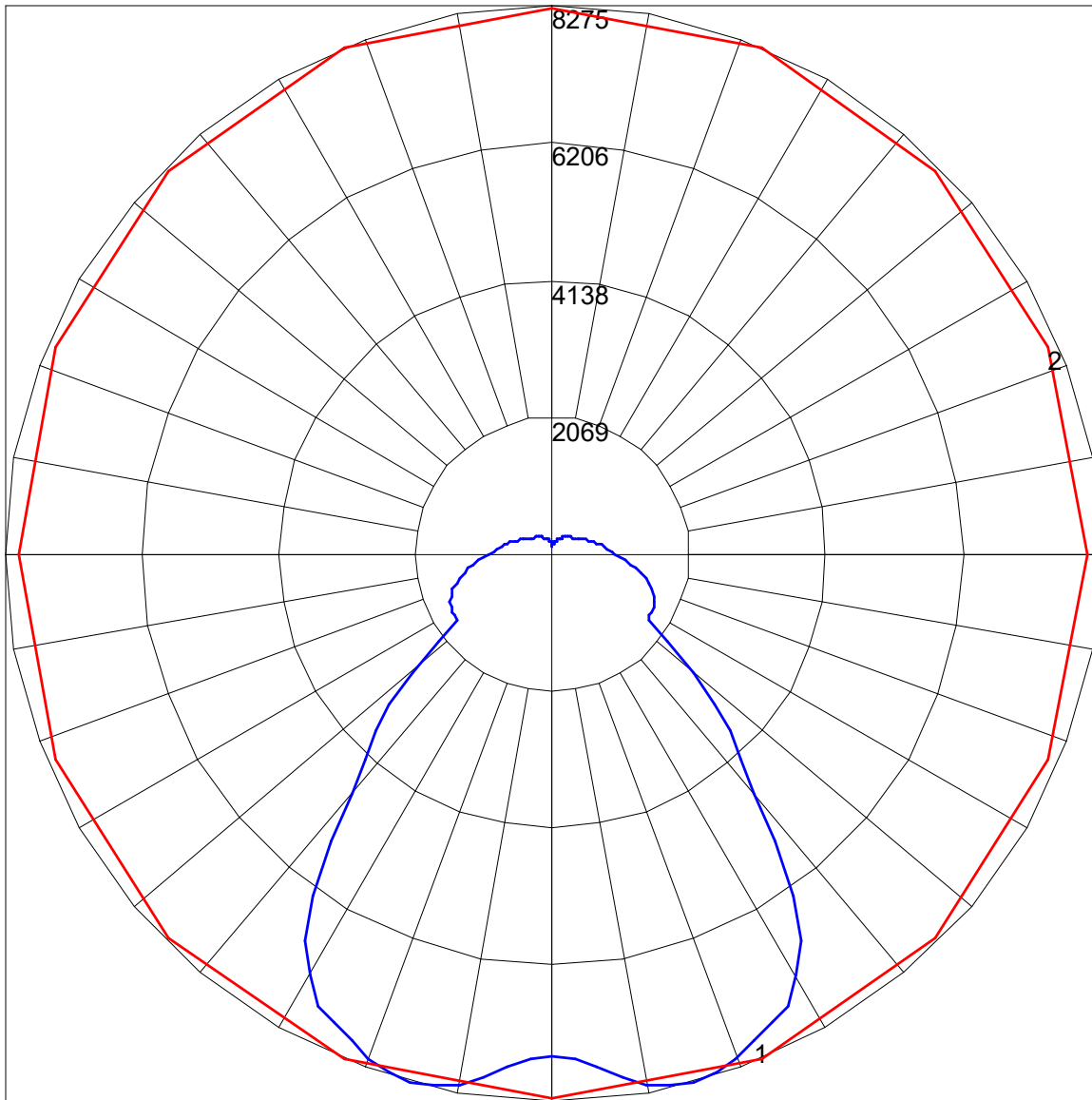
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 8275 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.)