



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-24L-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-24L-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	24243
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
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	26660	27095	27673
55	13032	13339	13589
65	13829	13977	14179
75	13450	13546	13696
85	12319	12435	12519

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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	8112	8112	8112	8112	8112
2.5	8102	8107	8122	8138	8145
5.0	8165	8178	8239	8298	8370
7.5	8282	8345	8448	8538	8573
10.0	8509	8534	8639	8704	8702
12.5	8646	8685	8728	8804	8802
15.0	8618	8669	8757	8829	8787
17.5	8708	8640	8672	8779	8759
20.0	8552	8554	8623	8661	8654
22.5	8340	8415	8443	8491	8528
25.0	8227	8251	8314	8346	8367
27.5	8125	8149	8198	8232	8243
30.0	7998	7980	7925	7867	7858
32.5	7589	7567	7506	7428	7421
35.0	6879	6869	6846	6766	6747
37.5	5931	5882	5887	5860	5804
40.0	5027	5033	5058	5063	5037
42.5	4432	4447	4461	4504	4513
45.0	3922	3950	3986	4030	4071
47.5	3424	3441	3500	3567	3588
50.0	2828	2847	2911	2959	3003
52.5	2180	2210	2263	2328	2344
55.0	1826	1845	1869	1896	1904
57.5	1815	1822	1842	1865	1875
60.0	1822	1828	1846	1866	1876
62.5	1809	1814	1829	1848	1859
65.0	1782	1787	1801	1820	1827
67.5	1739	1744	1757	1773	1781
70.0	1680	1685	1697	1710	1716
72.5	1610	1615	1624	1635	1642
75.0	1529	1533	1540	1551	1557
77.5	1443	1441	1453	1463	1467
80.0	1346	1350	1361	1372	1376
82.5	1257	1261	1269	1279	1284
85.0	1171	1174	1182	1190	1190
87.5	1087	1090	1096	1100	1100
90.0	1010	1013	1017	1017	1019
92.5	949	951	952	956	958
95.0	890	892	894	897	900
97.5	836	834	840	842	844
100.0	783	783	787	791	791
102.5	736	736	738	741	743
105.0	692	692	693	696	695
107.5	651	652	653	653	654
110.0	615	615	615	615	615
112.5	580	580	580	580	580
115.0	547	546	548	548	548
117.5	518	517	518	518	518
120.0	490	490	490	490	491
122.5	466	467	466	467	466
125.0	445	445	444	444	443
127.5	425	425	424	423	423
130.0	407	407	406	405	404
132.5	390	390	389	389	389

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CANDELA TABULATION - (Cont.)

135.0	375	374	374	373	373
137.5	361	360	360	359	359
140.0	347	347	347	346	346
142.5	334	334	334	334	334
145.0	323	323	323	322	322
147.5	312	312	311	311	311
150.0	299	301	300	299	299
152.5	285	289	289	287	287
155.0	271	277	277	275	275
157.5	257	264	264	263	262
160.0	246	254	253	252	251
162.5	234	241	242	240	236
165.0	221	227	228	226	223
167.5	209	213	215	213	208
170.0	196	197	198	197	193
172.5	178	178	179	178	176
175.0	153	154	156	158	158
177.5	132	133	135	138	138
180.0	125	125	125	125	125

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3265.45	N.A.	13.50
0-30	7099.61	N.A.	29.30
0-40	11253.44	N.A.	46.40
0-60	16184.01	N.A.	66.80
0-80	19586.14	N.A.	80.80
0-90	20877.11	N.A.	86.10
10-90	20077.13	N.A.	82.80
20-40	7987.99	N.A.	32.90
20-50	11052.92	N.A.	45.60
40-70	6707.73	N.A.	27.70
60-80	3402.13	N.A.	14.00
70-80	1624.97	N.A.	6.70
80-90	1290.97	N.A.	5.30
90-110	1716.39	N.A.	7.10
90-120	2262.55	N.A.	9.30
90-130	2663.12	N.A.	11.00
90-150	3157.34	N.A.	13.00
90-180	3366.37	N.A.	13.90
110-180	1649.98	N.A.	6.80
0-180	24243.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	799.98
10-20	2465.47
20-30	3834.16
30-40	4153.83
40-50	3064.93
50-60	1865.64
60-70	1777.16
70-80	1624.97
80-90	1290.97
90-100	978.93
100-110	737.47
110-120	546.15
120-130	400.58
130-140	290.87
140-150	203.35
150-160	128.14
160-170	64.70
170-180	16.18

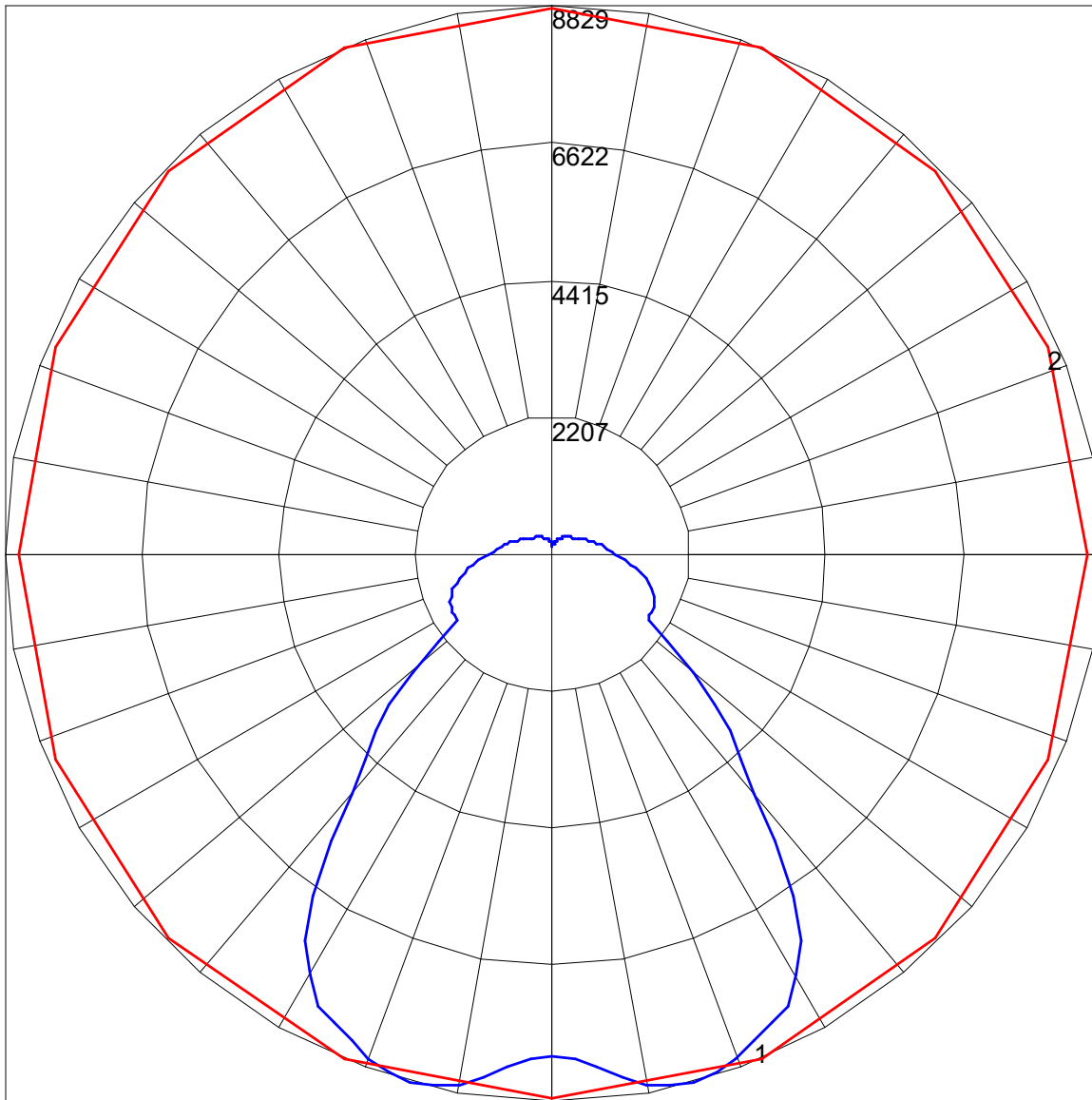
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 8829 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.)