



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-24L-S-840-R16AC.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12628  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 05/25/21  
 [TESTDATE] 03/19/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-24L-S-840-R16AC  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Interior  
 [SEARCH\_COLORTEMP] 4000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24137
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	151
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.28
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	33750	32798	31928
55	24744	24773	24887
65	18765	19169	19215
75	7758	7688	7556
85	2293	2314	2272

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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>	8614	8614	8614	8614	8614
<b>2.5</b>	8667	8654	8631	8621	8615
<b>5.0</b>	8968	8959	8860	8765	8735
<b>7.5</b>	9340	9325	9238	9089	8991
<b>10.0</b>	9704	9658	9623	9495	9460
<b>12.5</b>	9982	9979	9936	9861	9897
<b>15.0</b>	10191	10177	10144	10048	10083
<b>17.5</b>	10191	10229	10165	10159	10135
<b>20.0</b>	10117	10080	10086	10064	10047
<b>22.5</b>	9715	9735	9707	9694	9653
<b>25.0</b>	9393	9364	9329	9287	9247
<b>27.5</b>	9111	9073	9056	8988	8956
<b>30.0</b>	8745	8710	8708	8735	8741
<b>32.5</b>	8383	8336	8358	8407	8402
<b>35.0</b>	7621	7639	7695	7678	7680
<b>37.5</b>	6535	6581	6587	6564	6568
<b>40.0</b>	5691	5701	5677	5617	5585
<b>42.5</b>	5294	5232	5169	5103	5075
<b>45.0</b>	4965	4902	4825	4771	4697
<b>47.5</b>	4673	4610	4521	4479	4424
<b>50.0</b>	4222	4241	4150	4094	4107
<b>52.5</b>	3818	3827	3788	3732	3694
<b>55.0</b>	3467	3458	3471	3503	3487
<b>57.5</b>	3247	3236	3248	3266	3271
<b>60.0</b>	2951	2938	2964	2988	2990
<b>62.5</b>	2662	2663	2689	2709	2712
<b>65.0</b>	2418	2438	2470	2480	2476
<b>67.5</b>	2170	2188	2206	2203	2212
<b>70.0</b>	1812	1808	1818	1816	1826
<b>72.5</b>	1315	1295	1282	1282	1250
<b>75.0</b>	882	875	874	864	859
<b>77.5</b>	653	657	660	654	649
<b>80.0</b>	473	476	482	475	471
<b>82.5</b>	314	316	318	318	314
<b>85.0</b>	218	220	220	219	216
<b>87.5</b>	176	178	176	174	172
<b>90.0</b>	156	158	158	156	155
<b>92.5</b>	145	145	145	146	145
<b>95.0</b>	157	158	156	155	156
<b>97.5</b>	180	181	181	180	177
<b>100.0</b>	175	177	179	182	184
<b>102.5</b>	161	163	166	169	170
<b>105.0</b>	163	165	169	171	172
<b>107.5</b>	166	167	170	171	172
<b>110.0</b>	162	162	164	166	166
<b>112.5</b>	153	152	154	155	156
<b>115.0</b>	144	144	145	147	148
<b>117.5</b>	137	137	139	141	142
<b>120.0</b>	131	131	134	137	138
<b>122.5</b>	125	126	129	132	134
<b>125.0</b>	121	122	124	128	130
<b>127.5</b>	119	120	122	126	127
<b>130.0</b>	118	120	122	126	126
<b>132.5</b>	118	119	122	125	127

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	113	115	118	121	123
<b>137.5</b>	109	110	113	116	118
<b>140.0</b>	104	105	107	111	113
<b>142.5</b>	101	101	103	106	109
<b>145.0</b>	97	97	99	103	105
<b>147.5</b>	93	93	96	99	101
<b>150.0</b>	89	89	92	94	96
<b>152.5</b>	86	85	88	90	91
<b>155.0</b>	82	81	84	85	86
<b>157.5</b>	79	78	81	82	84
<b>160.0</b>	76	76	77	79	80
<b>162.5</b>	75	74	75	77	77
<b>165.0</b>	73	72	73	75	75
<b>167.5</b>	71	72	72	72	73
<b>170.0</b>	70	70	70	69	71
<b>172.5</b>	68	68	67	66	66
<b>175.0</b>	64	64	64	63	61
<b>177.5</b>	58	58	59	58	58
<b>180.0</b>	54	54	54	54	54

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3716.47	N.A.	15.40
0-30	8033.96	N.A.	33.30
0-40	12674.1	N.A.	52.50
0-60	19571.61	N.A.	81.10
0-80	23021.61	N.A.	95.40
0-90	23301.47	N.A.	96.50
10-90	22431.64	N.A.	92.90
20-40	8957.63	N.A.	37.10
20-50	12709.37	N.A.	52.70
40-70	9305.96	N.A.	38.60
60-80	3450.00	N.A.	14.30
70-80	1041.55	N.A.	4.30
80-90	279.86	N.A.	1.20
90-110	355.74	N.A.	1.50
90-120	501.73	N.A.	2.10
90-130	615.11	N.A.	2.50
90-150	768.97	N.A.	3.20
90-180	835.34	N.A.	3.50
110-180	479.60	N.A.	2.00
0-180	24136.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	869.84
10-20	2846.63
20-30	4317.49
30-40	4640.15
40-50	3751.73
50-60	3145.78
60-70	2408.45
70-80	1041.55
80-90	279.86
90-100	177.21
100-110	178.53
110-120	145.99
120-130	113.38
130-140	90.86
140-150	62.99
150-160	39.16
160-170	20.99
170-180	6.23

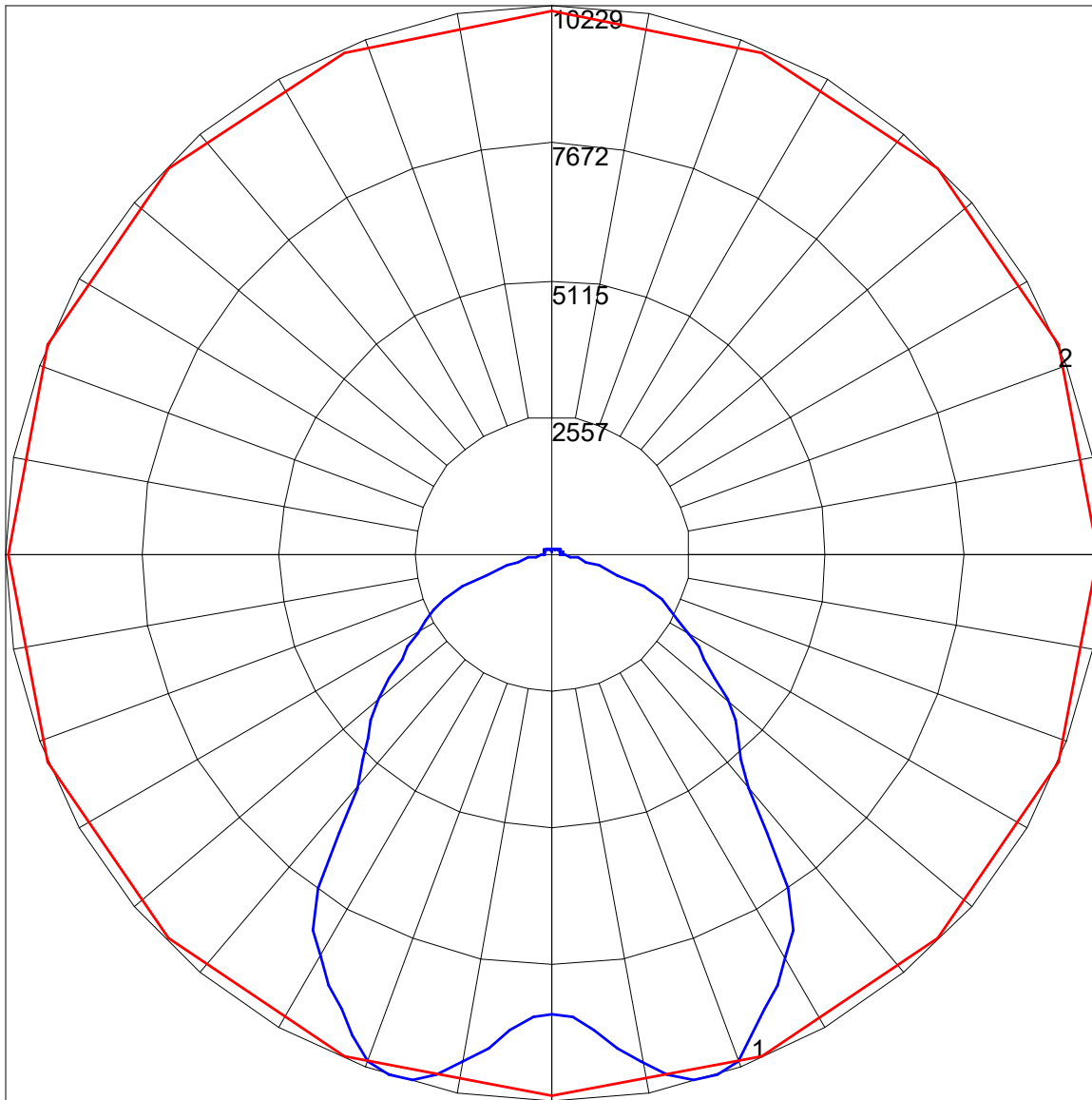
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	109	105	101	97	106	102	99	96	97	94	92	93	91	88	89	87	85	83
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	71
3	92	82	75	69	89	80	73	68	77	71	66	74	69	65	71	67	63	61
4	85	74	65	59	82	72	64	59	69	63	57	66	61	56	64	59	55	53
5	78	66	58	52	76	65	57	51	62	56	50	60	54	49	58	53	49	47
6	73	60	52	46	70	59	51	45	57	50	45	55	49	44	53	48	43	41
7	67	55	46	41	66	54	46	40	52	45	40	50	44	39	49	43	39	37
8	63	50	42	37	61	49	42	36	48	41	36	46	40	36	45	39	35	33
9	59	46	38	33	57	46	38	33	44	37	33	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	33	29	28

POLAR GRAPH



Maximum Candela = 10229 Located At Horizontal Angle = 22.5, Vertical Angle = 17.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)