



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-12L-S-830-R16AC.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12593  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 05/25/21  
 [TESTDATE] 03/11/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-12L-S-830-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] 3000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11405
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	75
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	15471	15492	15546
55	11741	11755	11691
65	8979	8964	8925
75	3624	3633	3677
85	1073	1073	1094

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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	4065	4065	4065	4065	4065
2.5	4079	4075	4078	4075	4073
5.0	4147	4161	4156	4150	4139
7.5	4314	4347	4343	4348	4376
10.0	4532	4535	4537	4513	4550
12.5	4720	4701	4716	4714	4710
15.0	4806	4789	4803	4765	4808
17.5	4810	4827	4832	4814	4817
20.0	4781	4792	4766	4759	4745
22.5	4607	4606	4591	4602	4600
25.0	4417	4428	4419	4405	4419
27.5	4292	4297	4295	4280	4268
30.0	4140	4148	4152	4139	4132
32.5	3984	3959	3945	3951	3943
35.0	3641	3647	3624	3594	3615
37.5	3140	3118	3103	3081	3087
40.0	2676	2670	2679	2671	2681
42.5	2437	2439	2444	2448	2441
45.0	2276	2287	2279	2285	2287
47.5	2141	2140	2147	2134	2128
50.0	1967	1960	1970	1962	1958
52.5	1784	1792	1783	1777	1772
55.0	1645	1642	1647	1634	1638
57.5	1537	1539	1534	1529	1527
60.0	1403	1402	1402	1399	1391
62.5	1264	1264	1264	1265	1259
65.0	1157	1152	1155	1157	1150
67.5	1027	1033	1034	1034	1034
70.0	849	850	851	855	849
72.5	604	608	609	613	612
75.0	412	412	413	412	418
77.5	312	314	308	310	310
80.0	225	223	220	221	223
82.5	148	146	147	148	148
85.0	102	101	102	103	104
87.5	82	82	82	83	84
90.0	73	73	73	74	74
92.5	68	68	68	68	69
95.0	73	74	73	74	74
97.5	86	87	86	85	85
100.0	85	83	83	84	85
102.5	78	78	78	79	79
105.0	79	79	79	79	80
107.5	80	80	80	80	80
110.0	78	78	78	78	78
112.5	72	73	73	74	74
115.0	68	68	69	69	70
117.5	65	66	66	66	66
120.0	63	63	63	63	63
122.5	61	61	61	61	61
125.0	58	59	59	58	58
127.5	58	58	58	58	58
130.0	58	58	58	57	57
132.5	58	58	57	57	57

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	57	57	56	55	55
<b>137.5</b>	54	54	53	53	52
<b>140.0</b>	52	52	51	51	51
<b>142.5</b>	50	50	49	49	49
<b>145.0</b>	48	48	47	47	47
<b>147.5</b>	47	47	46	46	45
<b>150.0</b>	45	45	44	44	43
<b>152.5</b>	43	43	42	42	41
<b>155.0</b>	41	41	40	40	40
<b>157.5</b>	39	39	39	38	38
<b>160.0</b>	37	38	37	37	37
<b>162.5</b>	36	36	37	37	37
<b>165.0</b>	35	35	36	36	36
<b>167.5</b>	34	34	35	35	36
<b>170.0</b>	32	33	34	35	35
<b>172.5</b>	31	31	33	33	34
<b>175.0</b>	29	30	31	32	32
<b>177.5</b>	27	27	28	29	29
<b>180.0</b>	26	26	26	26	26

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1758.05	N.A.	15.40
0-30	3805.04	N.A.	33.40
0-40	5998.93	N.A.	52.60
0-60	9254.34	N.A.	81.10
0-80	10878.9	N.A.	95.40
0-90	11009.55	N.A.	96.50
10-90	10599.53	N.A.	92.90
20-40	4240.88	N.A.	37.20
20-50	6011.85	N.A.	52.70
40-70	4387.85	N.A.	38.50
60-80	1624.57	N.A.	14.20
70-80	492.13	N.A.	4.30
80-90	130.65	N.A.	1.10
90-110	167.70	N.A.	1.50
90-120	236.87	N.A.	2.10
90-130	290.26	N.A.	2.50
90-150	363.20	N.A.	3.20
90-180	395.21	N.A.	3.50
110-180	227.51	N.A.	2.00
0-180	11404.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	410.02
10-20	1348.03
20-30	2046.99
30-40	2193.89
40-50	1770.97
50-60	1484.43
60-70	1132.44
70-80	492.13
80-90	130.65
90-100	83.49
100-110	84.21
110-120	69.17
120-130	53.39
130-140	42.89
140-150	30.05
150-160	18.84
160-170	10.15
170-180	3.01

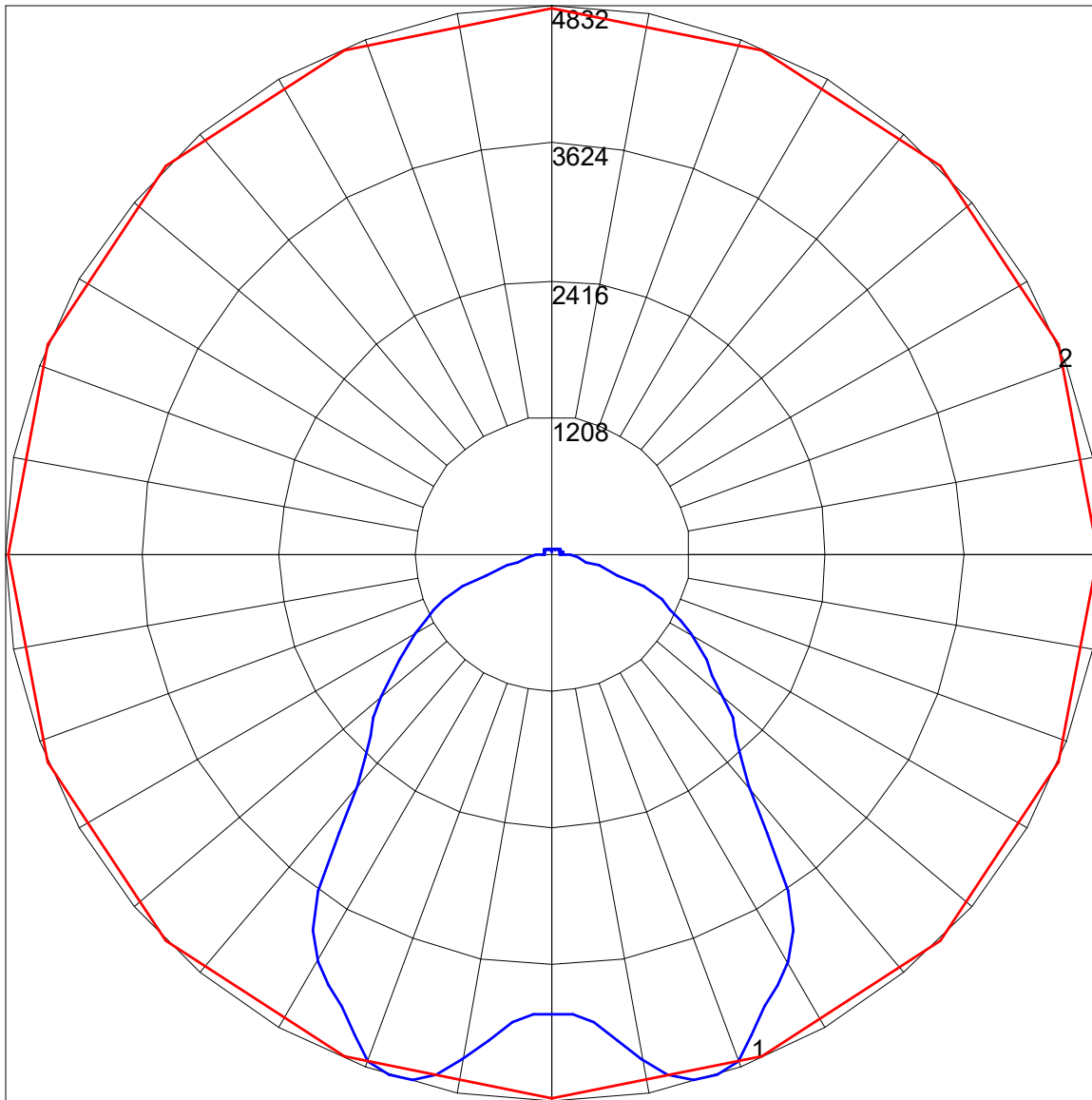
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	92	93	91	89	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	50	58	53	49	47
6	73	60	52	46	70	59	51	45	57	50	45	55	49	44	53	48	43	41
7	68	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 = 4832 Located At Horizontal Angle = 45, Vertical Angle = 17.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)