



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-12L-S-830-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-12L-S-830-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] 3000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11431
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)	1.28
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	11573	11447	11353
55	6122	6229	6413
65	2989	2984	2989
75	2839	2850	2873
85	2570	2593	2622

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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	4250	4250	4250	4250	4250
2.5	4246	4251	4258	4268	4276
5.0	4261	4264	4271	4279	4288
7.5	4265	4268	4276	4284	4293
10.0	4260	4264	4270	4282	4290
12.5	4233	4234	4242	4253	4266
15.0	4170	4172	4190	4194	4203
17.5	4091	4103	4117	4126	4136
20.0	3996	4010	4033	4050	4063
22.5	3882	3904	3925	3948	3954
25.0	3792	3805	3823	3837	3846
27.5	3707	3717	3729	3739	3748
30.0	3621	3627	3636	3643	3648
32.5	3527	3531	3538	3544	3547
35.0	3425	3430	3436	3440	3442
37.5	3326	3331	3331	3338	3341
40.0	3232	3235	3239	3244	3247
42.5	3138	3134	3136	3127	3125
45.0	2939	2924	2907	2886	2883
47.5	2570	2568	2550	2534	2520
50.0	2129	2134	2135	2126	2124
52.5	1747	1752	1763	1772	1761
55.0	1432	1445	1457	1484	1500
57.5	1101	1114	1144	1163	1186
60.0	750	771	800	818	831
62.5	620	624	634	641	648
65.0	618	617	617	616	618
67.5	598	598	599	599	601
70.0	568	569	570	571	573
72.5	532	533	534	536	537
75.0	492	493	494	497	498
77.5	452	453	455	456	457
80.0	415	417	417	419	420
82.5	381	381	382	384	385
85.0	346	347	349	351	353
87.5	315	315	316	319	321
90.0	285	287	288	291	294
92.5	265	265	267	269	270
95.0	246	247	248	250	251
97.5	229	230	231	232	233
100.0	213	214	215	216	217
102.5	199	200	201	201	202
105.0	185	186	187	188	188
107.5	173	174	175	176	177
110.0	163	163	164	165	165
112.5	154	154	155	155	155
115.0	145	146	146	146	146
117.5	139	139	139	139	139
120.0	132	132	132	132	132
122.5	125	126	125	126	126
125.0	121	121	121	121	121
127.5	116	116	116	116	116
130.0	111	111	111	111	111
132.5	107	107	106	106	106

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	104	104	103	103	103
<b>137.5</b>	100	100	100	100	100
<b>140.0</b>	97	96	96	96	96
<b>142.5</b>	93	93	93	93	93
<b>145.0</b>	90	90	89	90	90
<b>147.5</b>	87	87	86	87	87
<b>150.0</b>	85	85	85	85	85
<b>152.5</b>	83	82	82	82	82
<b>155.0</b>	80	80	79	79	79
<b>157.5</b>	78	78	76	76	76
<b>160.0</b>	75	76	74	74	74
<b>162.5</b>	73	74	72	71	71
<b>165.0</b>	71	70	70	68	68
<b>167.5</b>	68	68	67	67	66
<b>170.0</b>	67	67	67	66	65
<b>172.5</b>	65	65	65	65	65
<b>175.0</b>	64	64	64	64	64
<b>177.5</b>	62	62	63	62	62
<b>180.0</b>	60	60	60	60	60

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1587.42	N.A.	13.90
0-30	3353.2	N.A.	29.30
0-40	5506.63	N.A.	48.20
0-60	8973.17	N.A.	78.50
0-80	10122.8	N.A.	88.60
0-90	10505.02	N.A.	91.90
10-90	10097.26	N.A.	88.30
20-40	3919.22	N.A.	34.30
20-50	6089.93	N.A.	53.30
40-70	4093.73	N.A.	35.80
60-80	1149.63	N.A.	10.10
70-80	522.44	N.A.	4.60
80-90	382.21	N.A.	3.30
90-110	471.52	N.A.	4.10
90-120	617.51	N.A.	5.40
90-130	726.27	N.A.	6.40
90-150	863.13	N.A.	7.60
90-180	926.17	N.A.	8.10
110-180	454.65	N.A.	4.00
0-180	11431.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	407.76
10-20	1179.66
20-30	1765.79
30-40	2153.43
40-50	2170.71
50-60	1295.83
60-70	627.19
70-80	522.44
80-90	382.21
90-100	272.43
100-110	199.08
110-120	145.99
120-130	108.76
130-140	80.17
140-150	56.69
150-160	36.95
160-170	19.93
170-180	6.16

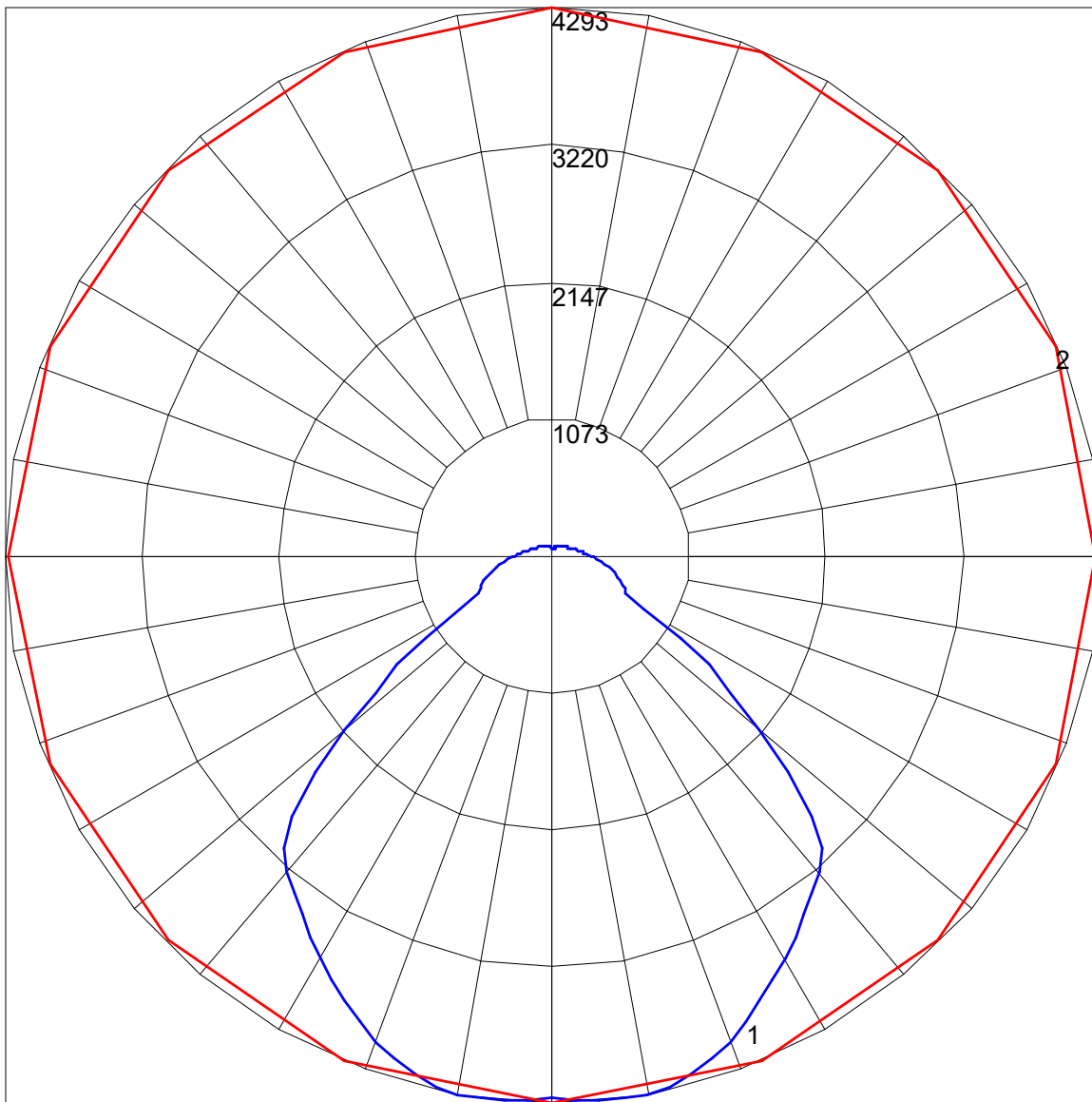
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 4293 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.)