



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-18L-S-830-R22AC.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12692  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 05/25/21  
 [TESTDATE] 04/09/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-18L-S-830-R22AC  
 [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	16835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	111
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.32
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	16578	16610	16523
55	11432	11513	11462
65	7144	7139	7110
75	2002	2031	2002
85	936	943	943

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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	7184	7184	7184	7184	7184
2.5	7195	7197	7193	7198	7189
5.0	7163	7168	7159	7159	7159
7.5	7115	7119	7112	7108	7104
10.0	7052	7061	7059	7050	7047
12.5	6958	6960	6947	6956	6949
15.0	6820	6811	6804	6803	6806
17.5	6655	6652	6644	6649	6652
20.0	6467	6464	6454	6478	6476
22.5	6243	6249	6235	6261	6258
25.0	6031	6035	6027	6036	6050
27.5	5824	5825	5822	5830	5840
30.0	5609	5609	5607	5618	5622
32.5	5385	5382	5382	5385	5397
35.0	5155	5151	5143	5153	5151
37.5	4931	4927	4919	4925	4928
40.0	4735	4731	4723	4727	4733
42.5	4560	4548	4549	4549	4555
45.0	4210	4192	4218	4204	4196
47.5	3769	3752	3746	3776	3793
50.0	3342	3331	3324	3366	3371
52.5	2989	3004	3010	3009	3007
55.0	2674	2681	2693	2689	2681
57.5	2339	2346	2350	2341	2344
60.0	1977	1973	1961	1966	1981
62.5	1737	1747	1751	1751	1757
65.0	1477	1464	1476	1470	1470
67.5	1143	1151	1162	1161	1165
70.0	854	859	868	875	877
72.5	588	590	592	597	605
75.0	347	349	352	348	347
77.5	216	218	221	217	218
80.0	177	178	179	177	176
82.5	147	147	148	147	147
85.0	126	126	127	127	127
87.5	114	114	115	115	114
90.0	112	111	111	110	106
92.5	119	118	116	118	115
95.0	122	120	120	121	122
97.5	120	118	118	118	120
100.0	120	120	118	120	118
102.5	121	122	120	123	121
105.0	116	116	118	117	117
107.5	102	101	105	102	106
110.0	93	92	93	90	93
112.5	91	91	91	90	90
115.0	96	95	95	94	94
117.5	100	100	100	100	99
120.0	105	105	105	104	103
122.5	108	108	108	107	107
125.0	109	109	109	109	109
127.5	111	111	111	111	111
130.0	112	112	113	112	112
132.5	112	112	114	114	112

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	112	112	114	113	112
<b>137.5</b>	109	110	111	110	109
<b>140.0</b>	104	104	104	103	103
<b>142.5</b>	96	94	94	94	94
<b>145.0</b>	85	84	85	85	85
<b>147.5</b>	76	75	76	76	76
<b>150.0</b>	70	70	70	70	70
<b>152.5</b>	66	66	66	66	66
<b>155.0</b>	64	63	63	63	63
<b>157.5</b>	62	62	62	60	60
<b>160.0</b>	61	61	60	59	58
<b>162.5</b>	59	60	58	56	56
<b>165.0</b>	57	57	56	54	55
<b>167.5</b>	56	56	54	54	54
<b>170.0</b>	55	54	54	54	53
<b>172.5</b>	54	54	54	53	54
<b>175.0</b>	54	54	54	54	54
<b>177.5</b>	53	53	53	53	53
<b>180.0</b>	52	52	52	52	52

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2597.1	N.A.	15.40
0-30	5380.18	N.A.	32.00
0-40	8609.23	N.A.	51.10
0-60	14185.68	N.A.	84.30
0-80	16059.04	N.A.	95.40
0-90	16204.14	N.A.	96.30
10-90	15524.05	N.A.	92.20
20-40	6012.13	N.A.	35.70
20-50	9202.05	N.A.	54.70
40-70	7007.4	N.A.	41.60
60-80	1873.35	N.A.	11.10
70-80	442.41	N.A.	2.60
80-90	145.11	N.A.	0.90
90-110	246.88	N.A.	1.50
90-120	341.95	N.A.	2.00
90-130	439.68	N.A.	2.60
90-150	579.73	N.A.	3.40
90-180	630.59	N.A.	3.70
110-180	383.71	N.A.	2.30
0-180	16834.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	680.09
10-20	1917.01
20-30	2783.08
30-40	3229.05
40-50	3189.92
50-60	2386.53
60-70	1430.94
70-80	442.41
80-90	145.11
90-100	128.53
100-110	118.34
110-120	95.07
120-130	97.73
130-140	85.98
140-150	54.07
150-160	29.68
160-170	16.05
170-180	5.13

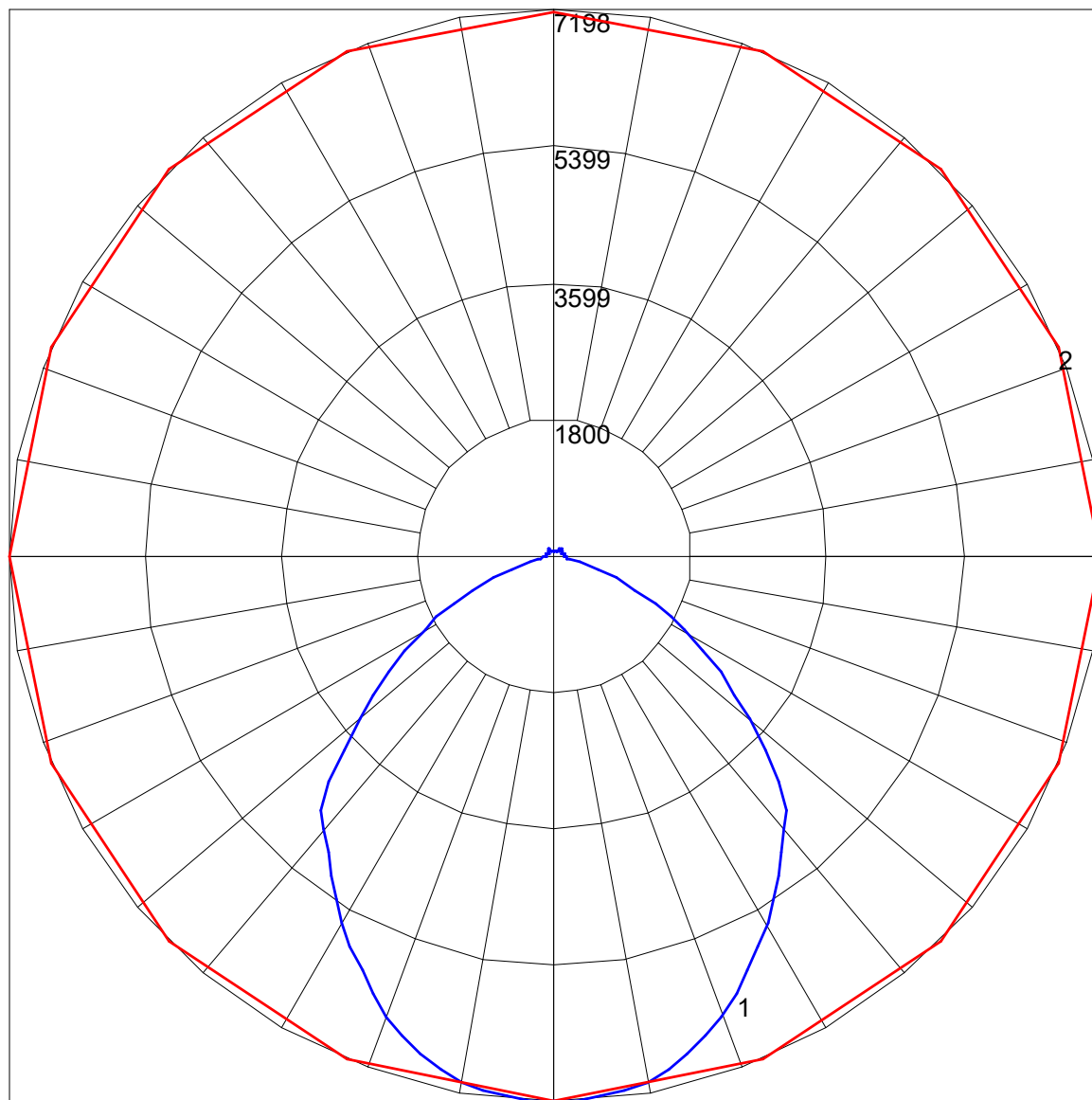
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96
1	109	105	102	98	106	103	99	96	98	95	93	93	91	89	89	88	86	84
2	101	93	87	82	98	91	86	81	87	83	79	83	80	76	80	77	74	72
3	92	83	76	70	90	81	74	69	78	72	67	75	70	66	72	68	64	62
4	85	74	66	60	83	73	65	60	70	63	58	67	62	57	65	60	56	54
5	79	67	59	52	76	65	58	52	63	56	51	61	55	50	59	53	49	47
6	73	60	52	46	71	59	52	46	57	50	45	55	49	44	53	48	44	42
7	68	55	47	41	66	54	46	41	52	45	40	51	44	40	49	43	39	37
8	63	50	42	37	61	50	42	37	48	41	36	46	40	36	45	39	35	33
9	59	46	39	33	58	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 = 7198 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)