



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-18L-S-850-R16AC.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12591  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 05/25/21  
 [TESTDATE] 03/11/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-18L-S-850-R16AC  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] Interior  
 [ \_SEARCH\_COLORTEMP] 5000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17890
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	111
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.30
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	24199	24369	24315
55	18285	18571	18585
65	14155	14155	14373
75	5885	5990	6070
85	1746	1757	1841

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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	6326	6326	6326	6326	6326
2.5	6342	6350	6346	6335	6333
5.0	6542	6525	6491	6485	6474
7.5	6819	6799	6725	6739	6709
10.0	7123	7087	7036	7002	6995
12.5	7324	7297	7267	7274	7251
15.0	7446	7428	7442	7457	7408
17.5	7463	7464	7507	7501	7448
20.0	7421	7379	7402	7376	7371
22.5	7115	7130	7143	7157	7143
25.0	6841	6852	6868	6866	6879
27.5	6664	6646	6640	6642	6646
30.0	6405	6431	6436	6455	6434
32.5	6149	6168	6140	6146	6154
35.0	5667	5652	5633	5646	5676
37.5	4862	4790	4877	4926	4945
40.0	4184	4171	4207	4258	4270
42.5	3808	3833	3836	3836	3858
45.0	3560	3589	3585	3570	3577
47.5	3353	3365	3372	3349	3341
50.0	3101	3089	3108	3082	3073
52.5	2822	2807	2819	2803	2803
55.0	2562	2584	2602	2604	2604
57.5	2413	2412	2428	2427	2422
60.0	2196	2196	2217	2223	2221
62.5	1992	1988	2004	2026	2030
65.0	1824	1817	1824	1841	1852
67.5	1636	1635	1634	1644	1632
70.0	1366	1365	1355	1352	1341
72.5	989	993	996	989	979
75.0	669	674	681	685	690
77.5	505	503	499	506	505
80.0	363	358	358	364	367
82.5	238	237	243	249	255
85.0	166	167	167	172	175
87.5	133	133	133	136	136
90.0	119	119	117	117	117
92.5	109	109	109	111	110
95.0	116	116	117	120	121
97.5	134	134	131	131	131
100.0	133	134	132	130	129
102.5	123	124	126	126	127
105.0	125	125	126	125	126
107.5	126	126	126	127	129
110.0	123	124	124	124	125
112.5	117	117	117	116	116
115.0	111	111	110	109	109
117.5	105	105	105	105	105
120.0	100	101	101	101	101
122.5	96	96	97	97	98
125.0	92	93	94	94	95
127.5	90	91	92	93	93
130.0	90	90	92	93	94
132.5	89	90	91	93	94

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	86	87	89	90	91
<b>137.5</b>	82	83	85	86	87
<b>140.0</b>	78	80	81	82	83
<b>142.5</b>	75	77	78	79	80
<b>145.0</b>	72	74	75	77	77
<b>147.5</b>	70	71	72	74	75
<b>150.0</b>	67	68	70	71	71
<b>152.5</b>	65	65	66	68	67
<b>155.0</b>	62	63	63	65	64
<b>157.5</b>	60	60	61	62	61
<b>160.0</b>	58	58	58	59	58
<b>162.5</b>	56	56	57	57	56
<b>165.0</b>	54	55	56	55	54
<b>167.5</b>	52	53	54	53	52
<b>170.0</b>	49	51	52	51	51
<b>172.5</b>	47	48	49	49	50
<b>175.0</b>	43	44	46	46	48
<b>177.5</b>	39	39	41	42	43
<b>180.0</b>	37	37	37	37	37

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2728.79	N.A.	15.30
0-30	5904.69	N.A.	33.00
0-40	9331.29	N.A.	52.20
0-60	14455.34	N.A.	80.80
0-80	17049.44	N.A.	95.30
0-90	17263.68	N.A.	96.50
10-90	16625.00	N.A.	92.90
20-40	6602.5	N.A.	36.90
20-50	9384.08	N.A.	52.50
40-70	6919.99	N.A.	38.70
60-80	2594.09	N.A.	14.50
70-80	798.15	N.A.	4.50
80-90	214.24	N.A.	1.20
90-110	265.69	N.A.	1.50
90-120	376.03	N.A.	2.10
90-130	461.02	N.A.	2.60
90-150	576.43	N.A.	3.20
90-180	626.15	N.A.	3.50
110-180	360.46	N.A.	2.00
0-180	17889.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	638.68
10-20	2090.11
20-30	3175.9
30-40	3426.6
40-50	2781.58
50-60	2342.47
60-70	1795.94
70-80	798.15
80-90	214.24
90-100	132.08
100-110	133.61
110-120	110.34
120-130	84.99
130-140	68.07
140-150	47.34
150-160	29.60
160-170	15.63
170-180	4.48

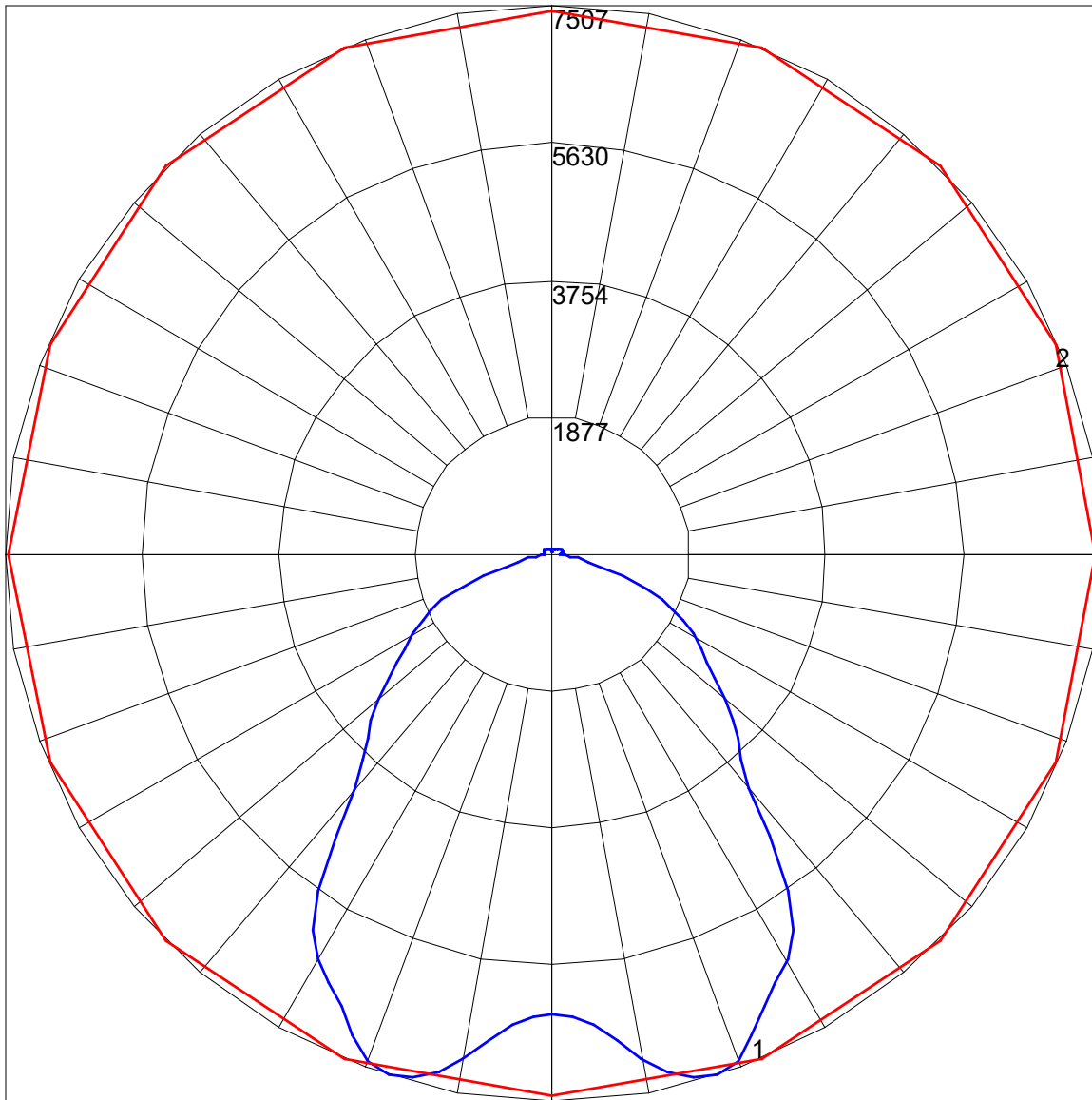
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	101	97	106	102	99	95	97	94	92	93	90	88	89	87	85	83
2	100	92	86	81	97	90	85	80	86	81	77	82	79	75	79	76	73	71
3	92	82	74	68	89	80	73	68	77	71	66	74	69	64	71	67	63	61
4	85	73	65	59	82	72	64	58	69	62	57	66	61	56	64	59	55	53
5	78	66	58	51	76	65	57	51	62	55	50	60	54	49	58	53	48	46
6	72	60	51	45	70	59	51	45	57	50	44	55	48	44	53	47	43	41
7	67	55	46	40	65	54	46	40	52	45	40	50	44	39	48	43	39	37
8	63	50	42	36	61	49	42	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	41	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 7507 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.)