



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-12L-S-850-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-12L-S-850-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] 5000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12081
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
Total Luminaire Watts	75
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	11900	11920	11853
55	8204	8264	8226
65	5132	5127	5098
75	1437	1460	1437
85	676	676	676

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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>	5156	5156	5156	5156	5156
<b>2.5</b>	5162	5164	5161	5165	5159
<b>5.0</b>	5140	5143	5138	5138	5138
<b>7.5</b>	5106	5108	5103	5100	5097
<b>10.0</b>	5060	5066	5066	5058	5057
<b>12.5</b>	4993	4995	4985	4992	4986
<b>15.0</b>	4894	4887	4883	4882	4884
<b>17.5</b>	4775	4774	4767	4771	4774
<b>20.0</b>	4640	4638	4632	4649	4647
<b>22.5</b>	4479	4485	4474	4492	4490
<b>25.0</b>	4328	4330	4325	4331	4342
<b>27.5</b>	4179	4180	4178	4184	4190
<b>30.0</b>	4024	4024	4023	4032	4034
<b>32.5</b>	3863	3861	3861	3863	3872
<b>35.0</b>	3699	3696	3691	3698	3696
<b>37.5</b>	3537	3536	3530	3534	3536
<b>40.0</b>	3398	3394	3390	3392	3395
<b>42.5</b>	3273	3263	3264	3263	3270
<b>45.0</b>	3022	3008	3027	3017	3010
<b>47.5</b>	2704	2692	2687	2709	2722
<b>50.0</b>	2397	2390	2385	2415	2419
<b>52.5</b>	2144	2156	2159	2158	2158
<b>55.0</b>	1919	1924	1933	1930	1924
<b>57.5</b>	1678	1683	1686	1680	1682
<b>60.0</b>	1418	1415	1408	1410	1421
<b>62.5</b>	1247	1253	1256	1256	1262
<b>65.0</b>	1061	1050	1060	1054	1054
<b>67.5</b>	820	826	834	833	836
<b>70.0</b>	613	617	622	628	629
<b>72.5</b>	422	423	424	429	434
<b>75.0</b>	249	251	253	250	249
<b>77.5</b>	155	157	158	156	156
<b>80.0</b>	127	128	129	127	126
<b>82.5</b>	106	106	107	106	106
<b>85.0</b>	91	91	91	91	91
<b>87.5</b>	82	82	83	83	82
<b>90.0</b>	80	79	79	78	76
<b>92.5</b>	86	85	84	86	83
<b>95.0</b>	88	87	87	88	88
<b>97.5</b>	87	86	86	86	87
<b>100.0</b>	87	87	85	87	86
<b>102.5</b>	88	88	87	89	88
<b>105.0</b>	84	83	85	85	85
<b>107.5</b>	73	72	75	73	76
<b>110.0</b>	67	67	68	65	67
<b>112.5</b>	66	66	66	66	66
<b>115.0</b>	69	69	69	68	68
<b>117.5</b>	72	71	71	71	71
<b>120.0</b>	75	75	75	74	74
<b>122.5</b>	77	77	77	76	76
<b>125.0</b>	78	78	78	78	78
<b>127.5</b>	79	79	79	79	79
<b>130.0</b>	80	80	80	80	80
<b>132.5</b>	80	80	82	82	80

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CANDELA TABULATION - (Cont.)

135.0	80	80	82	80	80
137.5	78	78	79	78	78
140.0	74	74	74	74	74
142.5	69	68	68	68	68
145.0	61	60	60	60	60
147.5	54	54	54	54	54
150.0	51	50	51	51	51
152.5	48	48	48	48	48
155.0	47	46	46	46	46
157.5	44	44	44	43	43
160.0	44	44	43	42	42
162.5	42	43	42	40	40
165.0	41	41	40	39	40
167.5	40	40	39	38	39
170.0	40	39	38	38	38
172.5	39	38	38	38	38
175.0	38	38	38	38	38
177.5	38	38	38	38	38
180.0	37	37	37	37	37

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1863.64	N.A.	15.40
0-30	3860.69	N.A.	32.00
0-40	6177.6	N.A.	51.10
0-60	10178.82	N.A.	84.30
0-80	11523.05	N.A.	95.40
0-90	11627.4	N.A.	96.20
10-90	11139.4	N.A.	92.20
20-40	4313.97	N.A.	35.70
20-50	6602.81	N.A.	54.70
40-70	5027.92	N.A.	41.60
60-80	1344.23	N.A.	11.10
70-80	317.53	N.A.	2.60
80-90	104.35	N.A.	0.90
90-110	178.43	N.A.	1.50
90-120	246.97	N.A.	2.00
90-130	316.67	N.A.	2.60
90-150	416.78	N.A.	3.40
90-180	453.41	N.A.	3.80
110-180	274.98	N.A.	2.30
0-180	12080.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	488.01
10-20	1375.63
20-30	1997.05
30-40	2316.92
40-50	2288.84
50-60	1712.37
60-70	1026.71
70-80	317.53
80-90	104.35
90-100	93.02
100-110	85.40
110-120	68.54
120-130	69.70
130-140	61.39
140-150	38.73
150-160	21.47
160-170	11.51
170-180	3.64

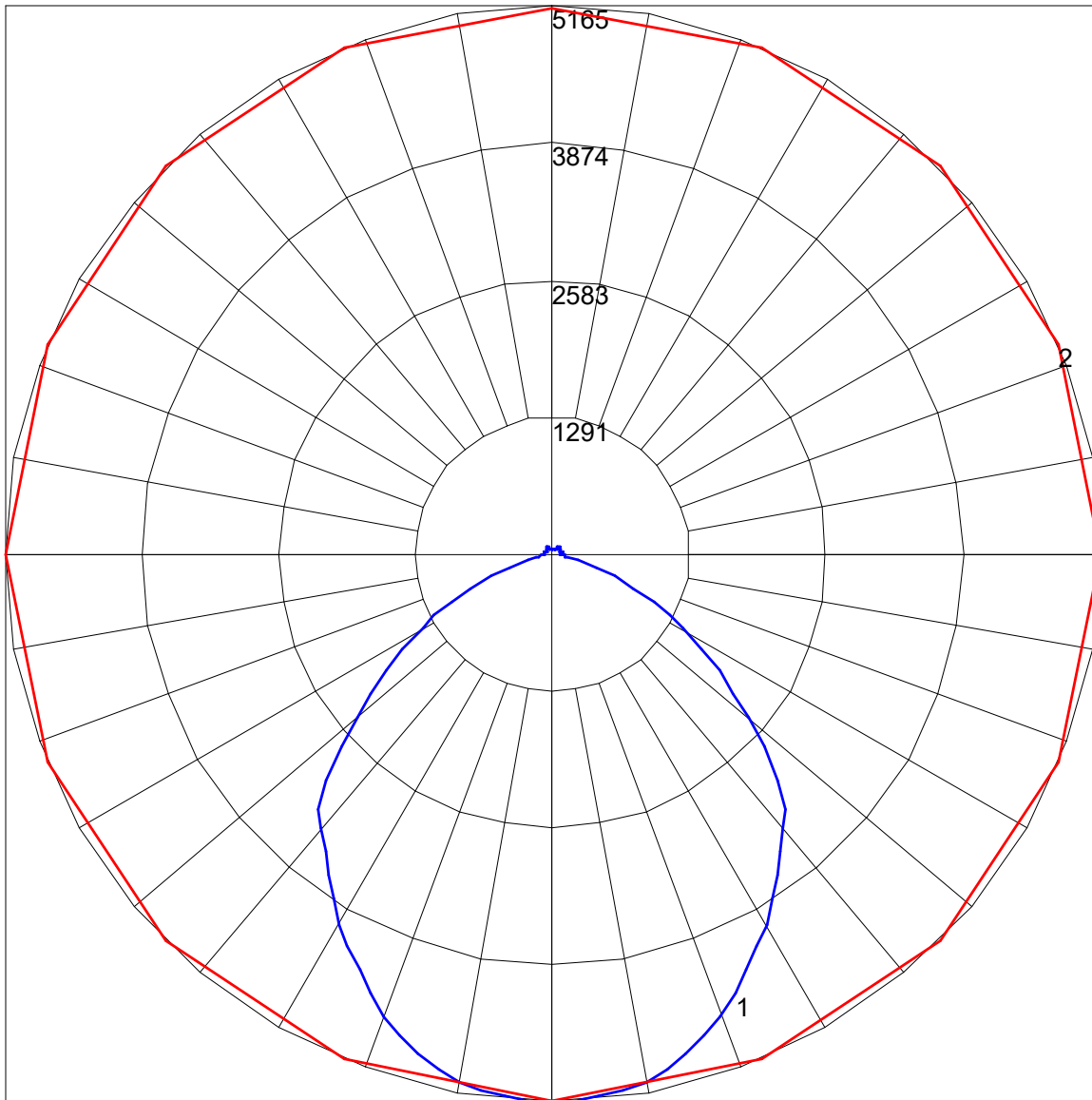
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	51	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 = 5165 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.)