



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-14L-40-ACS16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7859  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/16/17  
[TEST DATE]06/08/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]AUM-S-LED-14L-40-ACS16  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	107.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.42
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35290	34789	34833
55	30092	30226	29904
65	28794	28758	28503
75	24431	24223	24461
85	10074	9721	10074

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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>
<b>0.0</b>	4954	4954	4954	4954	4954
<b>2.5</b>	4967	4971	4971	4970	4971
<b>5.0</b>	5077	5100	5102	5118	5107
<b>7.5</b>	5257	5263	5275	5267	5244
<b>10.0</b>	5416	5439	5456	5432	5407
<b>12.5</b>	5521	5552	5599	5556	5541
<b>15.0</b>	5579	5644	5634	5653	5600
<b>17.5</b>	5673	5695	5711	5674	5648
<b>20.0</b>	5663	5665	5726	5679	5662
<b>22.5</b>	5614	5643	5680	5652	5590
<b>25.0</b>	5503	5551	5578	5572	5544
<b>27.5</b>	5339	5384	5415	5390	5353
<b>30.0</b>	5076	5102	5103	5114	5054
<b>32.5</b>	4807	4765	4744	4758	4773
<b>35.0</b>	4543	4475	4438	4453	4514
<b>37.5</b>	4299	4230	4180	4219	4285
<b>40.0</b>	4011	3992	3919	3953	3977
<b>42.5</b>	3651	3640	3585	3622	3632
<b>45.0</b>	3240	3205	3194	3180	3198
<b>47.5</b>	2855	2859	2882	2857	2852
<b>50.0</b>	2618	2633	2667	2639	2630
<b>52.5</b>	2416	2447	2471	2439	2411
<b>55.0</b>	2241	2253	2251	2251	2227
<b>57.5</b>	2088	2061	2050	2047	2074
<b>60.0</b>	1904	1890	1871	1880	1879
<b>62.5</b>	1724	1730	1739	1727	1717
<b>65.0</b>	1580	1571	1578	1578	1564
<b>67.5</b>	1393	1396	1404	1400	1398
<b>70.0</b>	1210	1204	1199	1207	1210
<b>72.5</b>	1017	1009	997	1003	1010
<b>75.0</b>	821	818	814	816	822
<b>77.5</b>	618	611	605	602	602
<b>80.0</b>	384	377	366	370	372
<b>82.5</b>	190	190	187	190	192
<b>85.0</b>	114	110	110	112	114
<b>87.5</b>	75	75	75	75	76
<b>90.0</b>	60	60	61	60	60
<b>92.5</b>	57	57	58	58	57
<b>95.0</b>	59	58	58	59	59
<b>97.5</b>	61	61	59	60	61
<b>100.0</b>	64	63	61	62	63
<b>102.5</b>	67	66	65	65	66
<b>105.0</b>	70	70	68	68	68
<b>107.5</b>	70	71	71	69	68
<b>110.0</b>	63	65	67	65	63
<b>112.5</b>	53	54	58	56	55
<b>115.0</b>	47	47	48	47	48
<b>117.5</b>	45	44	43	44	44
<b>120.0</b>	44	43	42	43	44
<b>122.5</b>	43	42	41	42	43
<b>125.0</b>	44	42	41	42	43
<b>127.5</b>	44	42	42	43	44
<b>130.0</b>	44	43	43	43	45
<b>132.5</b>	44	43	43	43	45

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CANDELA TABULATION - (Cont.)

135.0	43	42	42	43	44
137.5	42	42	42	42	43
140.0	43	42	42	42	43
142.5	43	42	41	42	43
145.0	42	41	41	41	43
147.5	41	40	39	40	41
150.0	39	39	38	38	39
152.5	37	37	36	36	37
155.0	35	35	35	35	36
157.5	33	34	34	34	34
160.0	32	33	33	32	32
162.5	31	32	32	32	31
165.0	31	31	31	31	29
167.5	31	31	31	30	29
170.0	31	31	30	29	29
172.5	32	31	30	29	29
175.0	31	30	30	29	30
177.5	30	29	29	30	30
180.0	28	28	28	28	28

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2091.15	N.A.	14.10
0-30	4626.29	N.A.	31.20
0-40	7439.38	N.A.	50.20
0-60	11953.69	N.A.	80.70
0-80	14347.8	N.A.	96.80
0-90	14509.05	N.A.	97.90
10-90	14011.31	N.A.	94.50
20-40	5348.23	N.A.	36.10
20-50	7847.86	N.A.	53.00
40-70	6060.25	N.A.	40.90
60-80	2394.11	N.A.	16.20
70-80	848.16	N.A.	5.70
80-90	161.26	N.A.	1.10
90-110	135.67	N.A.	0.90
90-120	185.63	N.A.	1.30
90-130	223.77	N.A.	1.50
90-150	282.64	N.A.	1.90
90-180	310.73	N.A.	2.10
110-180	175.06	N.A.	1.20
0-180	14819.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	497.75
10-20	1593.4
20-30	2535.14
30-40	2813.09
40-50	2499.63
50-60	2014.68
60-70	1545.94
70-80	848.16
80-90	161.26
90-100	64.79
100-110	70.88
110-120	49.96
120-130	38.14
130-140	33.11
140-150	25.76
150-160	16.39
160-170	8.84
170-180	2.85

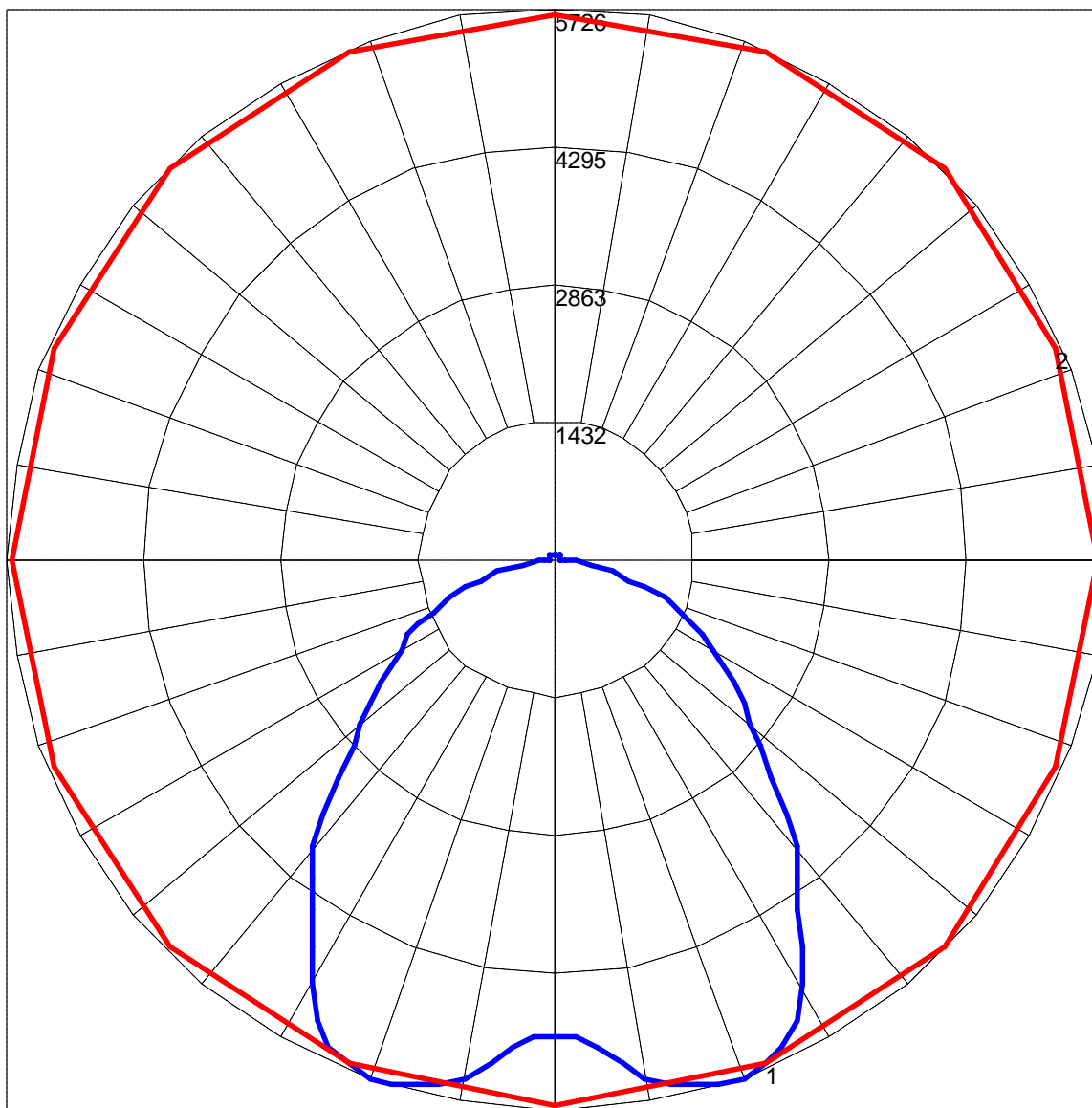
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	109	105	101	97	106	102	99	95	98	95	92	93	91	89	89	87	86	84
2	100	92	86	80	97	90	84	79	86	81	77	82	78	75	79	76	73	71
3	91	81	74	67	89	80	72	67	76	70	65	73	68	64	71	66	63	60
4	84	73	64	58	82	71	63	57	68	62	56	66	60	55	63	58	54	52
5	77	65	57	50	75	64	56	50	62	54	49	59	53	48	57	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	67	54	45	39	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	35	60	48	40	35	47	40	35	45	39	34	44	38	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 5726 Located At Horizontal Angle = 45, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)