



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUM-S-LED-14L-30-ACS16.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-7861  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]01/16/17  
[TEST DATE]06/09/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]AUM-S-LED-14L-30-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	14158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	33450	33145	32916
55	28480	28803	28615
65	27354	27482	27172
75	23330	23152	23628
85	9544	9367	9544

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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	4746	4746	4746	4746	4746
2.5	4763	4759	4762	4765	4765
5.0	4860	4877	4897	4901	4921
7.5	5014	5039	5089	5041	5074
10.0	5170	5188	5225	5194	5188
12.5	5272	5318	5333	5337	5262
15.0	5363	5385	5444	5395	5326
17.5	5388	5423	5451	5439	5380
20.0	5415	5427	5441	5432	5401
22.5	5350	5365	5424	5389	5352
25.0	5305	5312	5342	5326	5314
27.5	5098	5145	5180	5146	5112
30.0	4864	4887	4853	4852	4831
32.5	4595	4559	4510	4548	4559
35.0	4345	4271	4224	4267	4317
37.5	4109	4049	4002	4042	4095
40.0	3844	3813	3753	3808	3809
42.5	3479	3472	3429	3455	3455
45.0	3071	3058	3043	3029	3022
47.5	2735	2713	2748	2702	2715
50.0	2496	2510	2545	2516	2508
52.5	2293	2342	2356	2337	2314
55.0	2121	2151	2145	2145	2131
57.5	1977	1958	1962	1948	1977
60.0	1801	1795	1776	1787	1800
62.5	1653	1658	1658	1648	1644
65.0	1501	1508	1508	1500	1491
67.5	1334	1335	1337	1342	1336
70.0	1154	1150	1154	1153	1155
72.5	968	966	959	968	969
75.0	784	784	778	788	794
77.5	592	592	587	580	583
80.0	365	363	360	353	351
82.5	183	186	181	180	177
85.0	108	109	106	108	108
87.5	73	72	72	72	71
90.0	59	59	58	57	57
92.5	56	56	56	55	55
95.0	58	56	57	56	56
97.5	59	57	57	57	58
100.0	60	60	58	60	60
102.5	64	63	62	63	62
105.0	67	67	65	65	65
107.5	68	68	68	67	67
110.0	63	63	64	63	62
112.5	53	53	54	54	53
115.0	46	46	46	46	46
117.5	42	42	41	42	43
120.0	42	41	40	41	42
122.5	41	40	40	40	41
125.0	41	40	40	40	41
127.5	42	41	40	41	42
130.0	42	41	41	42	42
132.5	42	41	41	42	42

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	41	40	40	41	41
<b>137.5</b>	40	40	40	40	41
<b>140.0</b>	41	40	40	40	41
<b>142.5</b>	41	40	40	40	41
<b>145.0</b>	40	40	39	40	40
<b>147.5</b>	39	38	38	38	39
<b>150.0</b>	37	37	36	36	37
<b>152.5</b>	35	35	35	35	36
<b>155.0</b>	33	34	33	33	34
<b>157.5</b>	32	32	32	32	32
<b>160.0</b>	30	31	31	31	30
<b>162.5</b>	30	31	31	30	30
<b>165.0</b>	30	30	30	30	29
<b>167.5</b>	29	29	30	29	28
<b>170.0</b>	30	30	29	29	28
<b>172.5</b>	30	30	29	29	29
<b>175.0</b>	30	29	29	29	30
<b>177.5</b>	28	28	28	29	30
<b>180.0</b>	27	27	27	27	27

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1999.88	N.A.	14.10
0-30	4421.83	N.A.	31.20
0-40	7110.48	N.A.	50.20
0-60	11413.94	N.A.	80.60
0-80	13704.96	N.A.	96.80
0-90	13859.99	N.A.	97.90
10-90	13382.91	N.A.	94.50
20-40	5110.6	N.A.	36.10
20-50	7493.37	N.A.	52.90
40-70	5779.61	N.A.	40.80
60-80	2291.02	N.A.	16.20
70-80	814.87	N.A.	5.80
80-90	155.03	N.A.	1.10
90-110	130.32	N.A.	0.90
90-120	178.46	N.A.	1.30
90-130	214.96	N.A.	1.50
90-150	271.18	N.A.	1.90
90-180	298.06	N.A.	2.10
110-180	167.74	N.A.	1.20
0-180	14158.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	477.09
10-20	1522.79
20-30	2421.95
30-40	2688.65
40-50	2382.77
50-60	1920.69
60-70	1476.15
70-80	814.87
80-90	155.03
90-100	62.26
100-110	68.06
110-120	48.14
120-130	36.50
130-140	31.58
140-150	24.65
150-160	15.60
160-170	8.50
170-180	2.78

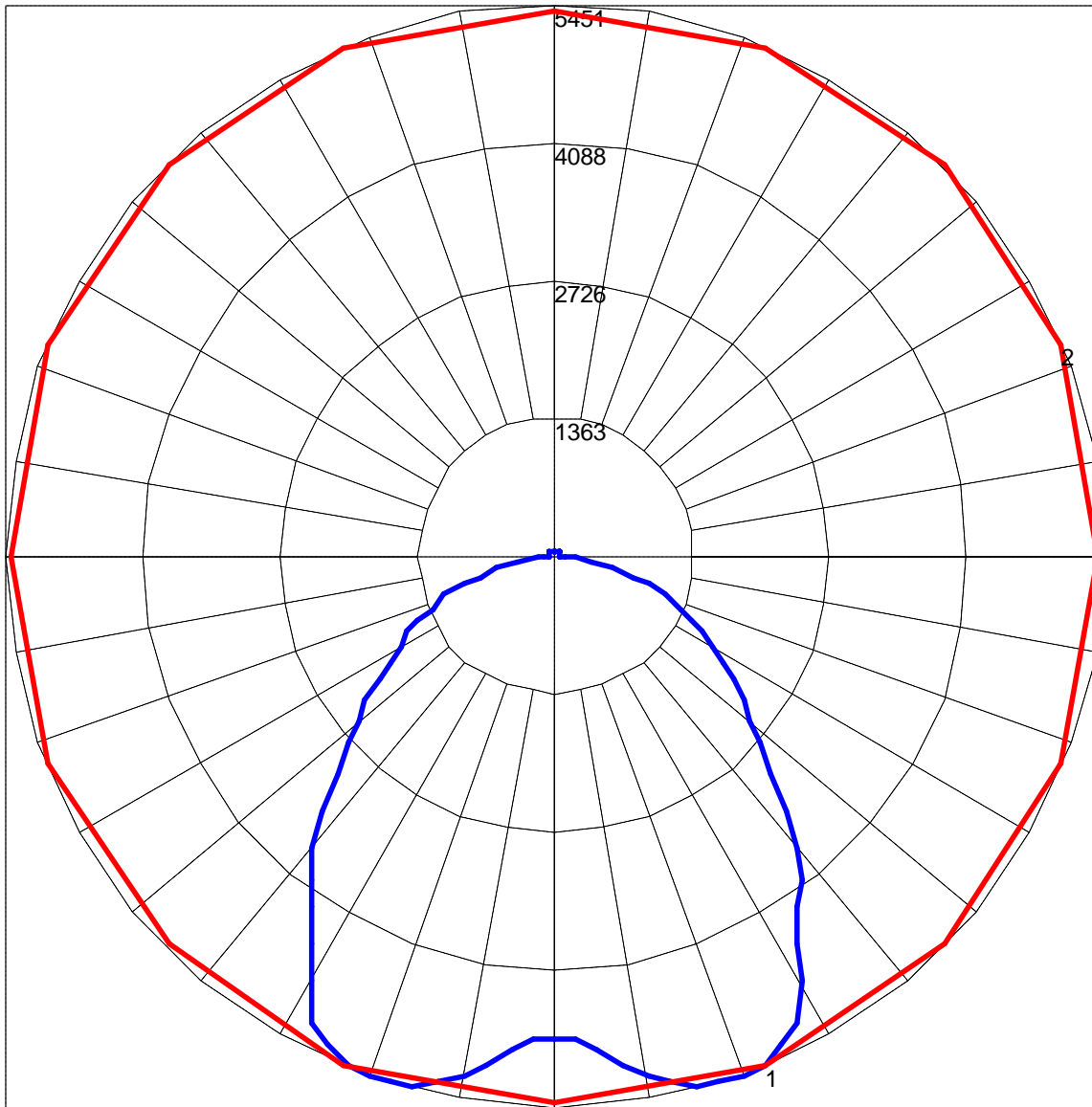
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	85	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	72	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 = 5451 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.)