



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUM-S-LED-14L-35-ACS16FA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7863
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]01/16/17
[TEST DATE]06/09/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]AUM-S-LED-14L-35-ACS16FA
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13921
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	107
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.36
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	30273	30365	30314
55	26902	27066	26650
65	28417	28690	28365
75	25041	24623	24511
85	10185	10185	10351

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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	4522.300	4522.300	4522.300	4522.300	4522.300
2.5	4540.104	4537.293	4533.545	4529.796	4534.482
5.0	4658.175	4658.175	4650.678	4676.916	4684.413
7.5	4780.931	4796.861	4837.155	4783.742	4797.798
10.0	4906.499	4948.667	4985.212	4944.918	4899.939
12.5	5026.444	5081.731	5043.311	5023.632	4978.653
15.0	5068.612	5107.969	5121.088	5095.787	5053.619
17.5	5103.283	5131.395	5174.501	5145.451	5095.787
20.0	5118.276	5126.710	5147.326	5121.088	5061.115
22.5	5047.059	5075.171	5073.297	5091.101	5088.290
25.0	4955.226	4979.590	4994.583	5007.702	4984.275
27.5	4789.365	4792.176	4812.792	4794.050	4764.064
30.0	4532.608	4492.314	4517.615	4494.188	4471.698
32.5	4242.116	4194.325	4145.598	4170.899	4199.948
35.0	3977.862	3913.204	3841.987	3908.519	3979.736
37.5	3755.777	3698.615	3648.014	3705.175	3739.846
40.0	3510.264	3469.033	3433.425	3478.404	3493.397
42.5	3160.737	3184.164	3134.499	3135.436	3173.856
45.0	2779.350	2811.210	2787.783	2755.923	2783.098
47.5	2490.732	2503.851	2539.460	2486.047	2484.173
50.0	2320.185	2346.423	2358.605	2337.053	2310.815
52.5	2152.450	2186.184	2196.492	2181.499	2139.331
55.0	2003.456	2027.820	2015.638	2019.386	1984.714
57.5	1901.315	1879.762	1880.700	1883.511	1889.133
60.0	1786.993	1777.622	1763.566	1781.370	1785.118
62.5	1694.223	1724.209	1728.894	1721.398	1699.845
65.0	1559.285	1568.655	1574.278	1569.592	1556.473
67.5	1397.171	1406.542	1404.668	1404.668	1386.864
70.0	1209.757	1214.443	1215.380	1206.009	1208.820
72.5	1023.280	1017.658	1011.099	1010.161	1012.973
75.0	841.489	830.244	827.433	823.685	823.685
77.5	626.900	632.522	623.152	625.963	627.837
80.0	386.073	382.325	383.262	385.136	390.758
82.5	188.351	190.225	189.288	195.848	193.036
85.0	115.260	116.197	115.260	117.134	117.134
87.5	74.966	75.903	75.903	75.903	74.966
90.0	55.287	56.224	55.287	54.350	54.350
92.5	53.413	53.413	53.413	53.413	52.476
95.0	52.476	52.476	52.476	51.539	52.476
97.5	52.476	52.476	51.539	51.539	52.476
100.0	53.413	53.413	53.413	53.413	53.413
102.5	57.161	58.098	58.098	57.161	57.161
105.0	61.847	61.847	61.847	61.847	61.847
107.5	65.595	66.532	66.532	65.595	65.595
110.0	67.469	67.469	67.469	66.532	66.532
112.5	65.595	64.658	64.658	64.658	64.658
115.0	64.658	63.721	63.721	63.721	63.721
117.5	66.532	65.595	64.658	65.595	65.595
120.0	74.029	72.154	70.280	70.280	70.280
122.5	93.707	91.833	89.959	89.959	90.896
125.0	119.945	118.071	117.134	117.134	117.134
127.5	147.120	147.120	146.183	146.183	144.309
130.0	173.358	172.421	171.484	171.484	171.484
132.5	201.470	198.659	196.785	196.785	197.722

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CANDELA TABULATION - (Cont.)

135.0	228.645	226.771	223.960	223.023	223.960
137.5	248.324	247.386	247.386	244.575	243.638
140.0	253.946	254.883	254.883	253.009	251.135
142.5	251.135	250.198	249.261	248.324	248.324
145.0	242.701	238.953	237.079	237.079	240.827
147.5	231.456	226.771	223.960	224.897	228.645
150.0	219.274	215.526	212.715	214.589	216.463
152.5	201.470	200.533	197.722	198.659	200.533
155.0	178.043	178.980	178.980	178.043	179.917
157.5	150.868	151.805	151.805	151.805	151.805
160.0	129.316	130.253	129.316	128.379	127.442
162.5	109.637	111.511	110.574	108.700	107.763
165.0	95.581	96.518	94.644	93.707	92.770
167.5	86.210	86.210	85.273	84.336	83.399
170.0	81.525	81.525	79.651	77.777	75.903
172.5	77.777	78.714	75.903	74.029	72.154
175.0	73.091	73.091	73.091	72.154	72.154
177.5	67.469	66.532	69.343	71.217	72.154
180.0	63.721	63.721	63.721	63.721	63.721

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1895.69	N.A.	13.60
0-30	4163.75	N.A.	29.90
0-40	6629.63	N.A.	47.60
0-60	10633.8	N.A.	76.40
0-80	13025.31	N.A.	93.60
0-90	13189.48	N.A.	94.70
10-90	12735.44	N.A.	91.50
20-40	4733.93	N.A.	34.00
20-50	6918.46	N.A.	49.70
40-70	5534.46	N.A.	39.80
60-80	2391.5	N.A.	17.20
70-80	861.22	N.A.	6.20
80-90	164.17	N.A.	1.20
90-110	122.74	N.A.	0.90
90-120	188.04	N.A.	1.40
90-130	294.05	N.A.	2.10
90-150	613.48	N.A.	4.40
90-180	731.70	N.A.	5.30
110-180	608.96	N.A.	4.40
0-180	13921.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	454.04
10-20	1441.65
20-30	2268.06
30-40	2465.87
40-50	2184.52
50-60	1819.65
60-70	1530.29
70-80	861.22
80-90	164.17
90-100	57.78
100-110	64.95
110-120	65.31
120-130	106.00
130-140	169.88
140-150	149.55
150-160	82.46
160-170	28.64
170-180	7.13

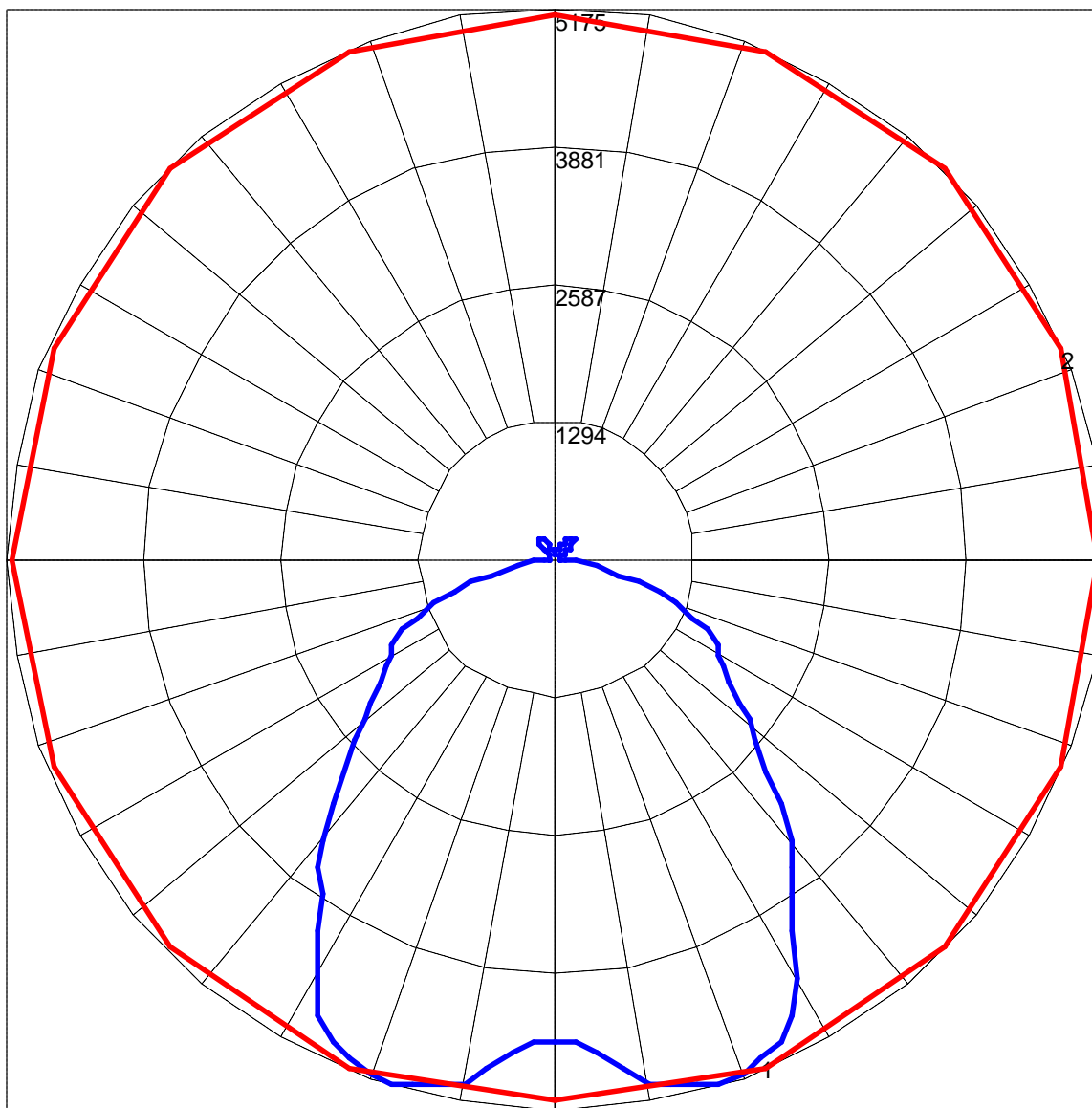
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	80
2	99	91	84	79	96	88	82	77	84	79	75	80	76	72	76	73	70	68
3	90	80	72	66	87	78	71	65	74	68	63	71	66	62	68	64	60	58
4	83	71	63	56	80	70	62	56	67	60	54	64	58	53	61	56	52	50
5	76	64	55	49	74	63	55	48	60	53	47	57	51	46	55	50	46	43
6	71	58	49	43	69	57	49	43	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	38	33	42	37	32	31
9	57	44	36	31	56	43	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	36	31	27	25

POLAR GRAPH



Maximum Candela = 5174.501 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.)