



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-18L-S-840-R16AC.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12585
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 05/25/21
 [TESTDATE] 03/10/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] AUL-18L-S-840-R16AC
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Interior
 [SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17913
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)	1.28
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	23608	24315	25124
55	18457	18392	18385
65	14124	14163	14023
75	5665	5682	5744
85	1694	1725	1704

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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	6365	6365	6365	6365	6365
2.5	6360	6367	6377	6392	6404
5.0	6428	6462	6523	6586	6627
7.5	6653	6718	6838	6897	6912
10.0	7071	7051	7081	7152	7172
12.5	7247	7341	7346	7393	7366
15.0	7486	7494	7495	7506	7500
17.5	7514	7530	7541	7562	7575
20.0	7449	7461	7484	7521	7513
22.5	7157	7172	7209	7224	7245
25.0	6851	6874	6919	6942	6959
27.5	6634	6672	6721	6745	6758
30.0	6508	6486	6467	6464	6459
32.5	6258	6256	6216	6185	6185
35.0	5737	5723	5724	5685	5674
37.5	4854	4860	4892	4886	4868
40.0	4141	4134	4221	4244	4238
42.5	3742	3772	3830	3891	3925
45.0	3473	3519	3577	3646	3696
47.5	3268	3296	3357	3427	3467
50.0	3014	3039	3087	3161	3164
52.5	2741	2771	2816	2845	2838
55.0	2586	2589	2577	2567	2576
57.5	2429	2429	2409	2406	2409
60.0	2222	2215	2201	2191	2185
62.5	1992	1988	1989	1983	1979
65.0	1820	1824	1825	1815	1807
67.5	1626	1631	1635	1632	1630
70.0	1345	1348	1356	1367	1363
72.5	958	964	967	970	987
75.0	644	648	646	646	653
77.5	495	496	491	489	489
80.0	356	355	358	352	350
82.5	236	232	235	234	231
85.0	161	162	164	162	162
87.5	129	130	132	130	129
90.0	117	117	117	115	116
92.5	107	107	107	107	107
95.0	112	114	116	118	118
97.5	134	134	136	136	137
100.0	138	136	133	130	129
102.5	127	126	122	120	118
105.0	129	127	124	122	120
107.5	129	128	126	123	122
110.0	126	125	122	120	119
112.5	119	118	114	112	111
115.0	112	111	108	105	105
117.5	106	106	103	101	100
120.0	102	101	99	97	97
122.5	99	98	95	94	93
125.0	95	94	92	90	89
127.5	94	93	90	89	88
130.0	94	93	90	89	87
132.5	93	92	91	88	87

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CANDELA TABULATION - (Cont.)

135.0	90	89	88	86	84
137.5	86	85	83	82	81
140.0	83	81	80	79	78
142.5	79	78	77	76	75
145.0	76	74	74	73	73
147.5	72	71	71	71	70
150.0	69	69	68	68	67
152.5	66	66	65	65	65
155.0	63	63	62	62	61
157.5	61	60	60	60	59
160.0	59	58	58	58	57
162.5	57	57	57	56	55
165.0	56	56	56	55	54
167.5	55	54	55	54	54
170.0	54	53	53	53	52
172.5	51	51	51	51	50
175.0	48	47	48	49	50
177.5	44	45	45	45	46
180.0	42	42	42	42	42

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2751.9	N.A.	15.40
0-30	5955.35	N.A.	33.20
0-40	9402.57	N.A.	52.50
0-60	14519.7	N.A.	81.10
0-80	17085.33	N.A.	95.40
0-90	17292.78	N.A.	96.50
10-90	16649.98	N.A.	93.00
20-40	6650.67	N.A.	37.10
20-50	9431.7	N.A.	52.70
40-70	6903.00	N.A.	38.50
60-80	2565.63	N.A.	14.30
70-80	779.76	N.A.	4.40
80-90	207.45	N.A.	1.20
90-110	264.02	N.A.	1.50
90-120	372.58	N.A.	2.10
90-130	456.40	N.A.	2.50
90-150	570.25	N.A.	3.20
90-180	619.94	N.A.	3.50
110-180	355.92	N.A.	2.00
0-180	17912.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	642.79
10-20	2109.1
20-30	3203.45
30-40	3447.22
40-50	2781.03
50-60	2336.1
60-70	1785.86
70-80	779.76
80-90	207.45
90-100	131.67
100-110	132.35
110-120	108.56
120-130	83.82
130-140	67.21
140-150	46.64
150-160	29.16
160-170	15.79
170-180	4.74

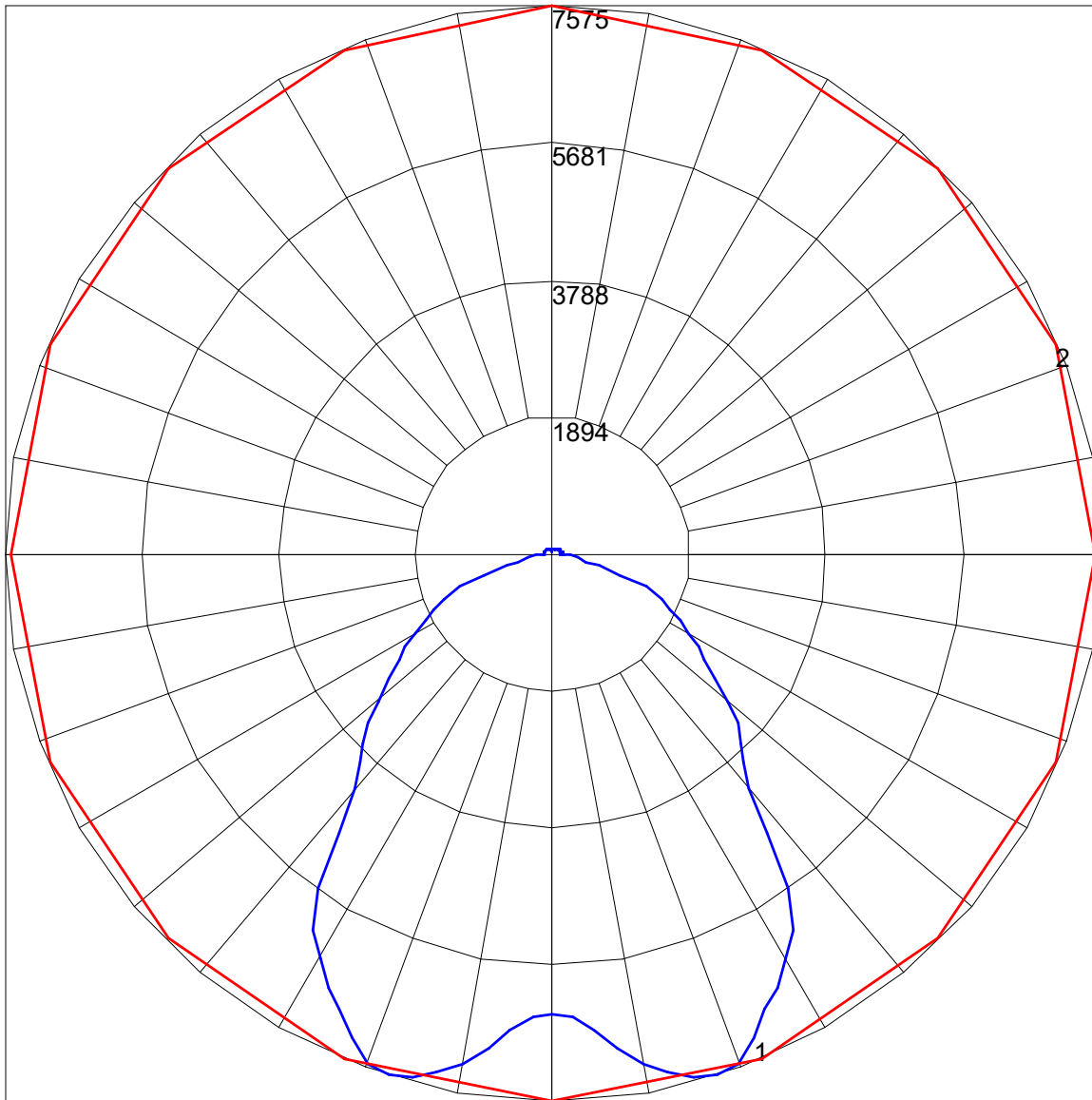
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97
1	109	105	101	97	106	102	99	96	97	94	92	93	91	88	89	87	85	83
2	100	93	86	81	97	90	85	80	86	82	77	83	79	75	79	76	73	71
3	92	82	75	69	89	80	73	68	77	71	66	74	69	65	71	67	63	61
4	85	73	65	59	82	72	64	59	69	63	57	66	61	56	64	59	55	53
5	78	66	58	52	76	65	57	51	62	56	50	60	54	49	58	53	49	47
6	73	60	52	46	70	59	51	45	57	50	45	55	49	44	53	48	43	41
7	67	55	46	41	66	54	46	40	52	45	40	50	44	39	49	43	39	37
8	63	50	42	37	61	49	42	36	48	41	36	46	40	36	45	39	35	33
9	59	46	38	33	57	45	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	29	39	33	29	28

POLAR GRAPH



Maximum Candela = 7575 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)