



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-18L-S-840-R16AW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12708
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 05/25/21
 [TESTDATE] 04/15/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] AUL-18L-S-840-R16AW
 [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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17571
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	111
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.26
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	22323	22826	23465
55	10185	10484	10620
65	8498	8568	8638
75	6263	6307	6298
85	4082	4103	4155

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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	6816	6816	6816	6816	6816
2.5	6811	6818	6828	6840	6852
5.0	6844	6876	6929	6988	7001
7.5	6927	6989	7089	7131	7178
10.0	7161	7133	7195	7255	7277
12.5	7146	7260	7296	7360	7291
15.0	7268	7300	7316	7356	7340
17.5	7154	7237	7291	7302	7301
20.0	7200	7183	7235	7255	7240
22.5	7014	7039	7076	7103	7148
25.0	6899	6928	6975	6995	6996
27.5	6799	6834	6878	6893	6888
30.0	6702	6672	6615	6594	6584
32.5	6354	6340	6264	6203	6170
35.0	5786	5770	5727	5653	5614
37.5	4950	4948	4942	4902	4861
40.0	4252	4233	4278	4271	4254
42.5	3740	3754	3776	3811	3837
45.0	3284	3318	3358	3407	3452
47.5	2840	2865	2911	2977	3015
50.0	2299	2321	2381	2468	2478
52.5	1726	1768	1848	1887	1905
55.0	1427	1444	1469	1485	1488
57.5	1367	1373	1382	1394	1399
60.0	1291	1294	1302	1312	1316
62.5	1191	1194	1204	1212	1215
65.0	1095	1094	1104	1110	1113
67.5	992	995	1001	1006	1010
70.0	896	898	902	908	907
72.5	803	805	808	808	812
75.0	712	714	717	715	716
77.5	623	625	623	625	626
80.0	540	539	540	542	543
82.5	459	461	463	466	466
85.0	388	386	390	392	395
87.5	318	320	321	326	328
90.0	277	277	279	281	282
92.5	284	284	286	288	289
95.0	290	291	293	295	296
97.5	297	297	299	301	302
100.0	302	303	304	306	307
102.5	307	307	309	311	312
105.0	311	311	313	315	316
107.5	314	315	317	318	318
110.0	317	317	319	321	321
112.5	318	319	321	323	323
115.0	320	320	321	323	324
117.5	320	320	321	323	324
120.0	318	319	320	322	323
122.5	317	317	318	320	321
125.0	315	315	316	317	318
127.5	311	312	313	314	315
130.0	308	308	309	310	311
132.5	304	304	305	306	307

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CANDELA TABULATION - (Cont.)

135.0	300	300	301	302	303
137.5	294	294	295	297	297
140.0	288	288	289	290	291
142.5	281	282	282	284	284
145.0	275	275	276	277	277
147.5	268	268	269	269	269
150.0	259	260	261	260	261
152.5	249	251	251	251	252
155.0	239	242	242	240	241
157.5	227	230	230	229	229
160.0	216	221	221	220	219
162.5	204	210	211	209	208
165.0	194	198	199	197	195
167.5	183	185	186	184	181
170.0	169	171	172	170	165
172.5	154	154	154	152	149
175.0	132	132	132	133	132
177.5	109	111	113	115	114
180.0	102	102	102	102	102

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2731.13	N.A.	15.50
0-30	5943.86	N.A.	33.80
0-40	9423.23	N.A.	53.60
0-60	13450.71	N.A.	76.50
0-80	15299.55	N.A.	87.10
0-90	15731.63	N.A.	89.50
10-90	15061.21	N.A.	85.70
20-40	6692.11	N.A.	38.10
20-50	9265.33	N.A.	52.70
40-70	5119.2	N.A.	29.10
60-80	1848.84	N.A.	10.50
70-80	757.12	N.A.	4.30
80-90	432.08	N.A.	2.50
90-110	649.76	N.A.	3.70
90-120	968.27	N.A.	5.50
90-130	1251.51	N.A.	7.10
90-150	1657.6	N.A.	9.40
90-180	1839.59	N.A.	10.50
110-180	1189.83	N.A.	6.80
0-180	17571.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	670.42
10-20	2060.71
20-30	3212.74
30-40	3479.37
40-50	2573.22
50-60	1454.26
60-70	1091.73
70-80	757.12
80-90	432.08
90-100	319.10
100-110	330.66
110-120	318.51
120-130	283.23
130-140	232.69
140-150	173.41
150-160	111.79
160-170	56.37
170-180	13.82

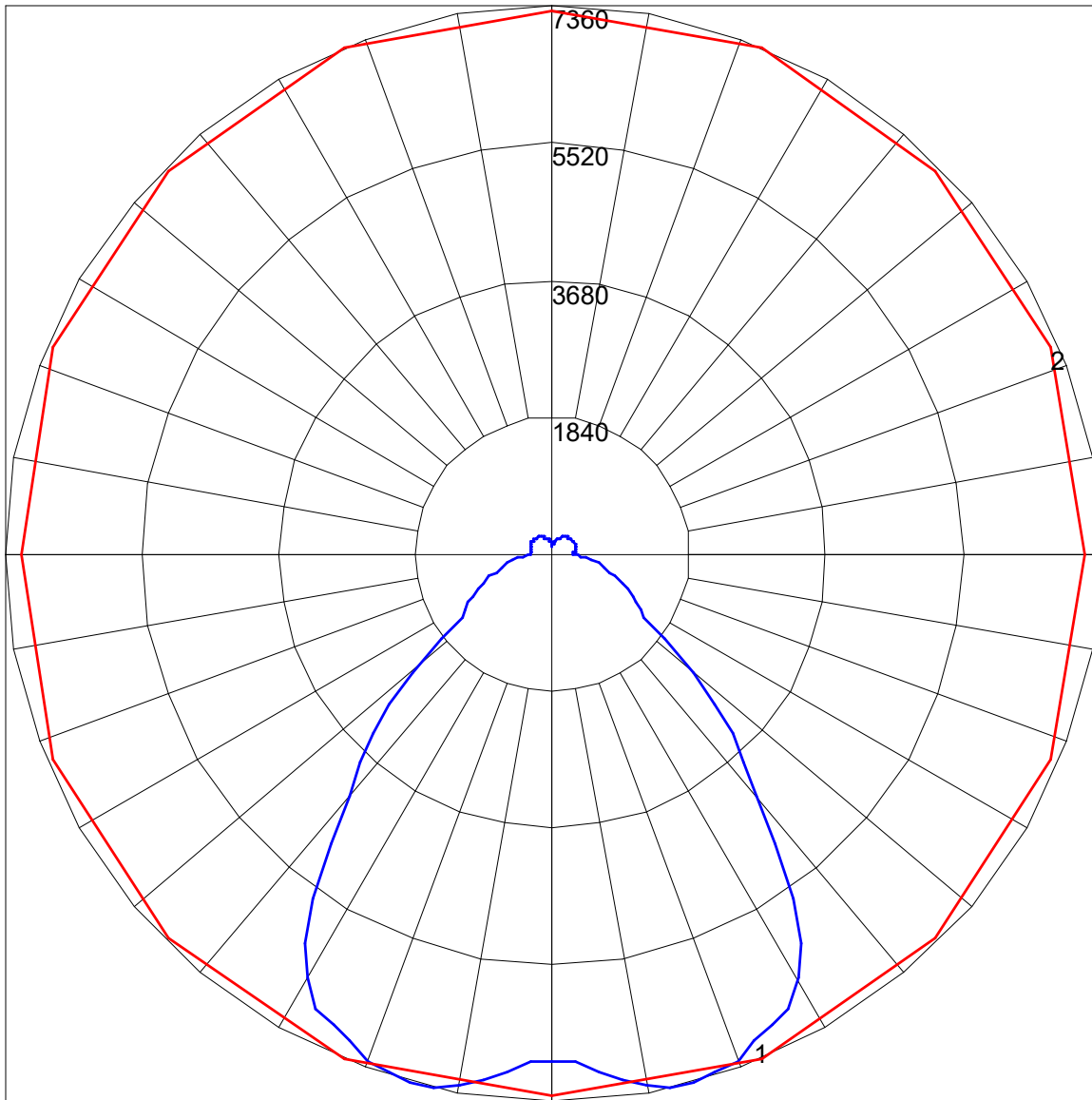
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	90
1	107	103	99	96	104	100	96	93	94	91	88	88	86	84	83	81	79	77
2	99	92	85	80	95	89	83	79	84	79	75	79	75	72	75	72	69	66
3	91	82	75	69	88	80	73	68	75	70	65	71	67	63	67	64	60	58
4	84	74	66	60	81	72	65	59	68	62	57	65	59	55	61	57	53	51
5	78	67	59	53	76	65	58	52	62	55	51	59	53	49	56	51	48	45
6	73	61	53	47	70	59	52	46	57	50	45	54	48	44	52	47	43	41
7	68	56	48	42	66	54	47	42	52	45	41	50	44	40	48	42	39	37
8	63	51	43	38	61	50	43	38	48	41	37	46	40	36	44	39	35	33
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	38	33	29	28

POLAR GRAPH



Maximum Candela = 7360 Located At Horizontal Angle = 67.5, Vertical Angle = 12.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (12.5) (Through Max. Cd.)