



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-18L-S-840-R16AD.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12709
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUE DATE] 05/25/21
 [TEST DATE] 04/15/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] AUL-18L-S-840-R16AD
 [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	17993
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
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)	1.24
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	19788	20107	20535
55	9671	9899	10085
65	10260	10376	10523
75	9975	10054	10160
85	9142	9226	9289

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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	6021	6021	6021	6021	6021
2.5	6013	6017	6028	6039	6045
5.0	6060	6070	6114	6159	6212
7.5	6146	6193	6270	6337	6363
10.0	6315	6334	6412	6460	6458
12.5	6416	6446	6477	6534	6533
15.0	6396	6434	6499	6553	6522
17.5	6463	6412	6436	6515	6500
20.0	6347	6348	6400	6428	6422
22.5	6190	6246	6266	6302	6329
25.0	6106	6124	6171	6194	6210
27.5	6030	6048	6084	6109	6118
30.0	5936	5922	5882	5839	5832
32.5	5632	5616	5571	5513	5508
35.0	5105	5098	5081	5021	5007
37.5	4401	4365	4369	4349	4308
40.0	3731	3735	3754	3757	3739
42.5	3289	3301	3311	3343	3349
45.0	2911	2931	2958	2991	3021
47.5	2541	2554	2598	2647	2663
50.0	2099	2113	2160	2196	2229
52.5	1618	1640	1679	1728	1740
55.0	1355	1369	1387	1407	1413
57.5	1347	1353	1367	1384	1392
60.0	1353	1357	1370	1385	1392
62.5	1342	1346	1357	1371	1380
65.0	1322	1326	1337	1351	1356
67.5	1290	1294	1304	1316	1322
70.0	1247	1251	1260	1269	1273
72.5	1195	1198	1205	1214	1219
75.0	1134	1138	1143	1151	1155
77.5	1071	1069	1078	1086	1089
80.0	999	1002	1010	1018	1021
82.5	933	936	942	949	953
85.0	869	872	877	883	883
87.5	807	809	814	816	817
90.0	750	752	755	755	756
92.5	704	706	707	710	711
95.0	661	662	664	666	668
97.5	620	619	623	625	626
100.0	581	581	584	587	587
102.5	546	546	548	550	551
105.0	513	513	515	516	516
107.5	483	484	485	485	486
110.0	456	456	457	456	456
112.5	430	430	430	430	430
115.0	406	405	407	407	407
117.5	384	383	385	385	385
120.0	364	364	364	364	365
122.5	346	346	346	346	346
125.0	330	330	330	330	329
127.5	316	316	315	314	314
130.0	302	302	301	301	300
132.5	290	290	289	288	288

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CANDELA TABULATION - (Cont.)

135.0	278	278	278	277	277
137.5	268	267	267	266	266
140.0	258	258	258	257	257
142.5	248	248	248	248	248
145.0	240	240	240	239	239
147.5	232	232	231	230	230
150.0	222	223	223	222	222
152.5	212	214	214	213	213
155.0	201	206	206	204	204
157.5	191	196	196	195	194
160.0	183	188	188	187	186
162.5	174	179	180	178	175
165.0	164	168	170	168	165
167.5	155	158	160	158	154
170.0	145	146	147	146	143
172.5	132	132	133	132	131
175.0	113	115	116	117	117
177.5	98	99	100	102	102
180.0	93	93	93	93	93

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2423.5	N.A.	13.50
0-30	5269.12	N.A.	29.30
0-40	8351.91	N.A.	46.40
0-60	12011.21	N.A.	66.80
0-80	14536.04	N.A.	80.80
0-90	15494.23	N.A.	86.10
10-90	14900.51	N.A.	82.80
20-40	5928.41	N.A.	32.90
20-50	8203.09	N.A.	45.60
40-70	4978.19	N.A.	27.70
60-80	2524.83	N.A.	14.00
70-80	1205.94	N.A.	6.70
80-90	958.20	N.A.	5.30
90-110	1273.93	N.A.	7.10
90-120	1679.23	N.A.	9.30
90-130	1976.63	N.A.	11.00
90-150	2343.53	N.A.	13.00
90-180	2498.67	N.A.	13.90
110-180	1224.74	N.A.	6.80
0-180	17992.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	593.73
10-20	1829.77
20-30	2845.62
30-40	3082.79
40-50	2274.68
50-60	1384.62
60-70	1318.89
70-80	1205.94
80-90	958.20
90-100	726.63
100-110	547.30
110-120	405.30
120-130	297.40
130-140	215.92
140-150	150.99
150-160	95.10
160-170	48.03
170-180	12.01

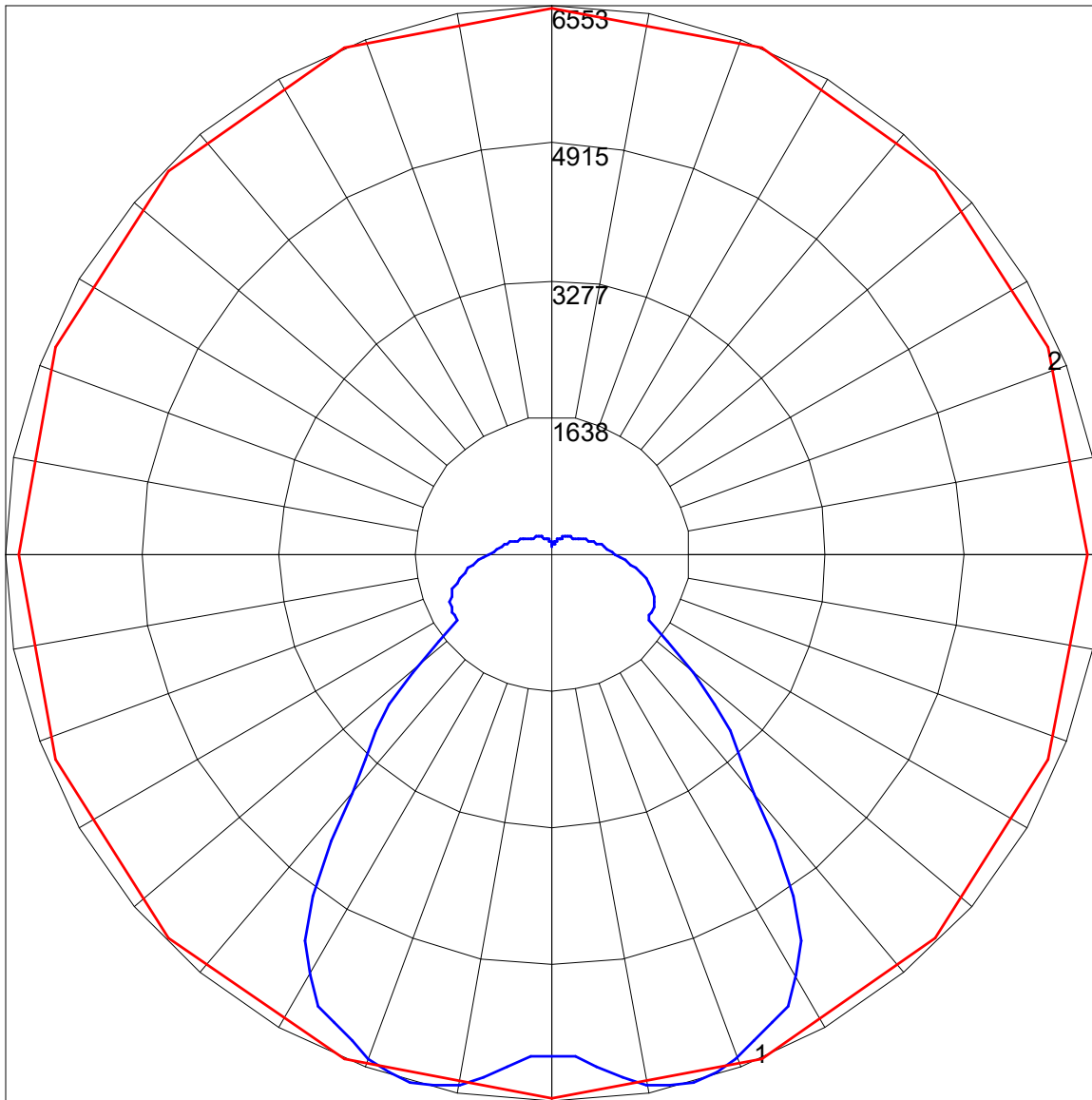
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	105	100	95	91	101	96	92	88	89	86	83	83	80	78	77	75	73	70
2	96	88	81	75	92	85	78	73	79	74	69	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	66	61	57	61	57	54	51
4	81	70	61	55	78	67	60	54	63	57	52	59	54	49	56	51	47	45
5	75	63	54	48	72	61	53	47	57	51	45	54	48	44	51	46	42	40
6	70	57	49	43	67	55	48	42	52	46	40	49	44	39	47	42	38	35
7	65	52	44	38	62	51	43	37	48	41	36	45	39	35	43	38	34	32
8	61	48	40	34	58	47	39	34	44	38	33	42	36	32	40	35	31	29
9	57	44	36	31	55	43	36	31	41	34	30	39	33	29	37	32	28	26
10	53	41	33	28	51	40	33	28	38	32	27	36	31	27	34	29	26	24

POLAR GRAPH



Maximum Candela = 6553 Located At Horizontal Angle = 67.5, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)