



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-18L-S-830-R16AD.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12709
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 05/25/21
 [TESTDATE] 04/15/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] AUL-18L-S-830-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] 3000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16898
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	18584	18883	19285
55	9086	9300	9471
65	9639	9747	9879
75	9368	9439	9544
85	8584	8669	8721

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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	5655	5655	5655	5655	5655
2.5	5647	5651	5661	5671	5677
5.0	5691	5701	5742	5784	5834
7.5	5772	5816	5888	5951	5976
10.0	5931	5949	6022	6067	6065
12.5	6026	6054	6083	6136	6135
15.0	6007	6042	6103	6154	6125
17.5	6070	6022	6044	6119	6104
20.0	5961	5962	6011	6037	6031
22.5	5813	5866	5885	5918	5944
25.0	5734	5751	5795	5817	5832
27.5	5663	5680	5714	5737	5746
30.0	5575	5562	5524	5484	5477
32.5	5289	5274	5232	5177	5173
35.0	4794	4788	4772	4715	4702
37.5	4133	4099	4103	4084	4046
40.0	3504	3508	3526	3528	3511
42.5	3089	3100	3110	3140	3145
45.0	2734	2753	2778	2809	2837
47.5	2386	2399	2440	2486	2501
50.0	1971	1984	2029	2062	2093
52.5	1520	1540	1577	1623	1634
55.0	1273	1286	1303	1321	1327
57.5	1265	1271	1284	1300	1307
60.0	1271	1274	1287	1301	1307
62.5	1260	1264	1274	1288	1296
65.0	1242	1245	1256	1269	1273
67.5	1211	1215	1225	1236	1242
70.0	1171	1175	1183	1192	1196
72.5	1122	1125	1132	1140	1145
75.0	1065	1069	1073	1081	1085
77.5	1006	1004	1012	1020	1023
80.0	938	941	949	956	959
82.5	876	879	885	891	895
85.0	816	819	824	829	829
87.5	758	760	764	766	767
90.0	704	706	709	709	710
92.5	661	663	664	667	668
95.0	621	622	624	625	627
97.5	582	581	585	587	588
100.0	546	546	548	551	551
102.5	513	513	515	517	517
105.0	482	482	484	485	485
107.5	454	455	455	455	456
110.0	428	428	429	428	428
112.5	404	404	404	404	404
115.0	381	380	382	382	382
117.5	361	360	362	362	362
120.0	342	342	342	342	343
122.5	325	325	325	325	325
125.0	310	310	310	310	309
127.5	297	297	296	295	295
130.0	284	284	283	283	282
132.5	272	272	271	270	270

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CANDELA TABULATION - (Cont.)

135.0	261	261	261	260	260
137.5	252	251	251	250	250
140.0	242	242	242	241	241
142.5	233	233	233	233	233
145.0	225	225	225	224	224
147.5	218	218	217	216	216
150.0	208	209	209	208	208
152.5	199	201	201	200	200
155.0	189	193	193	192	192
157.5	179	184	184	183	182
160.0	172	177	177	176	175
162.5	163	168	169	167	164
165.0	154	158	160	158	155
167.5	146	148	150	148	145
170.0	136	137	138	137	134
172.5	124	124	125	124	123
175.0	106	108	109	110	110
177.5	92	93	94	96	96
180.0	87	87	87	87	87

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2276.02	N.A.	13.50
0-30	4948.47	N.A.	29.30
0-40	7843.59	N.A.	46.40
0-60	11280.34	N.A.	66.80
0-80	13651.57	N.A.	80.80
0-90	14551.4	N.A.	86.10
10-90	13993.8	N.A.	82.80
20-40	5567.57	N.A.	32.90
20-50	7703.89	N.A.	45.60
40-70	4675.4	N.A.	27.70
60-80	2371.23	N.A.	14.00
70-80	1132.57	N.A.	6.70
80-90	899.83	N.A.	5.30
90-110	1196.44	N.A.	7.10
90-120	1577.14	N.A.	9.30
90-130	1856.56	N.A.	11.00
90-150	2200.98	N.A.	13.00
90-180	2346.64	N.A.	13.90
110-180	1150.2	N.A.	6.80
0-180	16898.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	557.59
10-20	1718.43
20-30	2672.45
30-40	2895.13
40-50	2136.32
50-60	1300.43
60-70	1238.65
70-80	1132.57
80-90	899.83
90-100	682.38
100-110	514.06
110-120	380.70
120-130	279.42
130-140	202.72
140-150	141.70
150-160	89.27
160-170	45.11
170-180	11.28

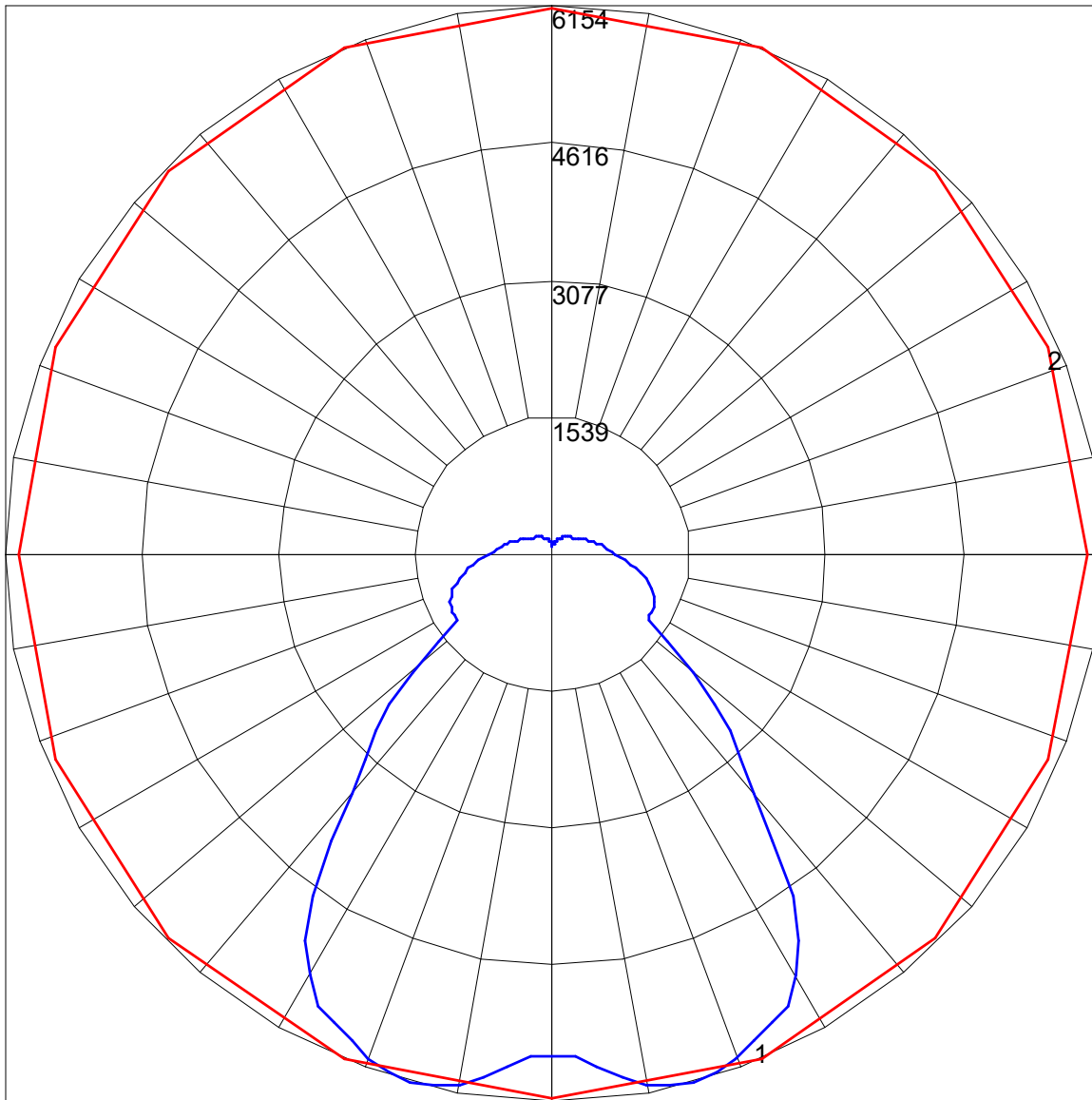
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 6154 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.)