



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-18L-S-830-R16AW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12708
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 05/25/21
[TEST DATE] 04/15/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] AUL-18L-S-830-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] 3000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16502
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
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	20964	21439	22038
55	9564	9849	9971
65	7978	8048	8110
75	5885	5920	5911
85	3829	3850	3903

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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	6401	6401	6401	6401	6401
2.5	6397	6403	6413	6424	6435
5.0	6428	6458	6507	6563	6575
7.5	6506	6564	6658	6697	6741
10.0	6725	6699	6757	6814	6834
12.5	6711	6818	6852	6912	6847
15.0	6826	6856	6871	6908	6893
17.5	6719	6797	6847	6858	6857
20.0	6762	6746	6795	6814	6800
22.5	6587	6611	6646	6671	6713
25.0	6479	6507	6551	6569	6570
27.5	6385	6418	6460	6474	6469
30.0	6294	6266	6213	6193	6183
32.5	5967	5954	5883	5826	5795
35.0	5434	5419	5379	5309	5272
37.5	4649	4647	4641	4604	4565
40.0	3993	3975	4018	4011	3995
42.5	3512	3526	3546	3579	3604
45.0	3084	3116	3154	3200	3242
47.5	2667	2691	2734	2796	2832
50.0	2159	2180	2236	2318	2327
52.5	1621	1660	1736	1772	1789
55.0	1340	1356	1380	1395	1397
57.5	1284	1289	1298	1309	1314
60.0	1212	1215	1223	1232	1236
62.5	1119	1121	1131	1138	1141
65.0	1028	1027	1037	1042	1045
67.5	932	934	940	945	949
70.0	841	843	847	853	852
72.5	754	756	759	759	763
75.0	669	671	673	672	672
77.5	585	587	585	587	588
80.0	507	506	507	509	510
82.5	431	433	435	438	438
85.0	364	363	366	368	371
87.5	299	301	301	306	308
90.0	260	260	262	264	265
92.5	267	267	269	270	271
95.0	272	273	275	277	278
97.5	279	279	281	283	284
100.0	284	285	286	287	288
102.5	288	288	290	292	293
105.0	292	292	294	296	297
107.5	295	296	298	299	299
110.0	298	298	300	301	301
112.5	299	300	301	303	303
115.0	301	301	301	303	304
117.5	301	301	301	303	304
120.0	299	300	301	302	303
122.5	298	298	299	301	301
125.0	296	296	297	298	299
127.5	292	293	294	295	296
130.0	289	289	290	291	292
132.5	286	286	286	287	288

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CANDELA TABULATION - (Cont.)

135.0	282	282	283	284	285
137.5	276	276	277	279	279
140.0	270	270	271	272	273
142.5	264	265	265	267	267
145.0	258	258	259	260	260
147.5	252	252	253	253	253
150.0	243	244	245	244	245
152.5	234	236	236	236	237
155.0	224	227	227	225	226
157.5	213	216	216	215	215
160.0	203	208	208	207	206
162.5	192	197	198	196	195
165.0	182	186	187	185	183
167.5	172	174	175	173	170
170.0	159	161	162	160	155
172.5	145	145	145	143	140
175.0	124	124	124	125	124
177.5	102	104	106	108	107
180.0	96	96	96	96	96

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2564.96	N.A.	15.50
0-30	5582.29	N.A.	33.80
0-40	8849.98	N.A.	53.60
0-60	12632.42	N.A.	76.50
0-80	14368.71	N.A.	87.10
0-90	14774.52	N.A.	89.50
10-90	14144.89	N.A.	85.70
20-40	6285.01	N.A.	38.10
20-50	8701.71	N.A.	52.70
40-70	4807.65	N.A.	29.10
60-80	1736.29	N.A.	10.50
70-80	711.08	N.A.	4.30
80-90	405.81	N.A.	2.50
90-110	610.31	N.A.	3.70
90-120	909.41	N.A.	5.50
90-130	1175.52	N.A.	7.10
90-150	1556.9	N.A.	9.40
90-180	1727.85	N.A.	10.50
110-180	1117.54	N.A.	6.80
0-180	16502.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	629.64
10-20	1935.33
20-30	3017.32
30-40	3267.69
40-50	2416.7
50-60	1365.74
60-70	1025.21
70-80	711.08
80-90	405.81
90-100	299.72
100-110	310.59
110-120	299.10
120-130	266.12
130-140	218.52
140-150	162.86
150-160	104.98
160-170	52.97
170-180	13.00

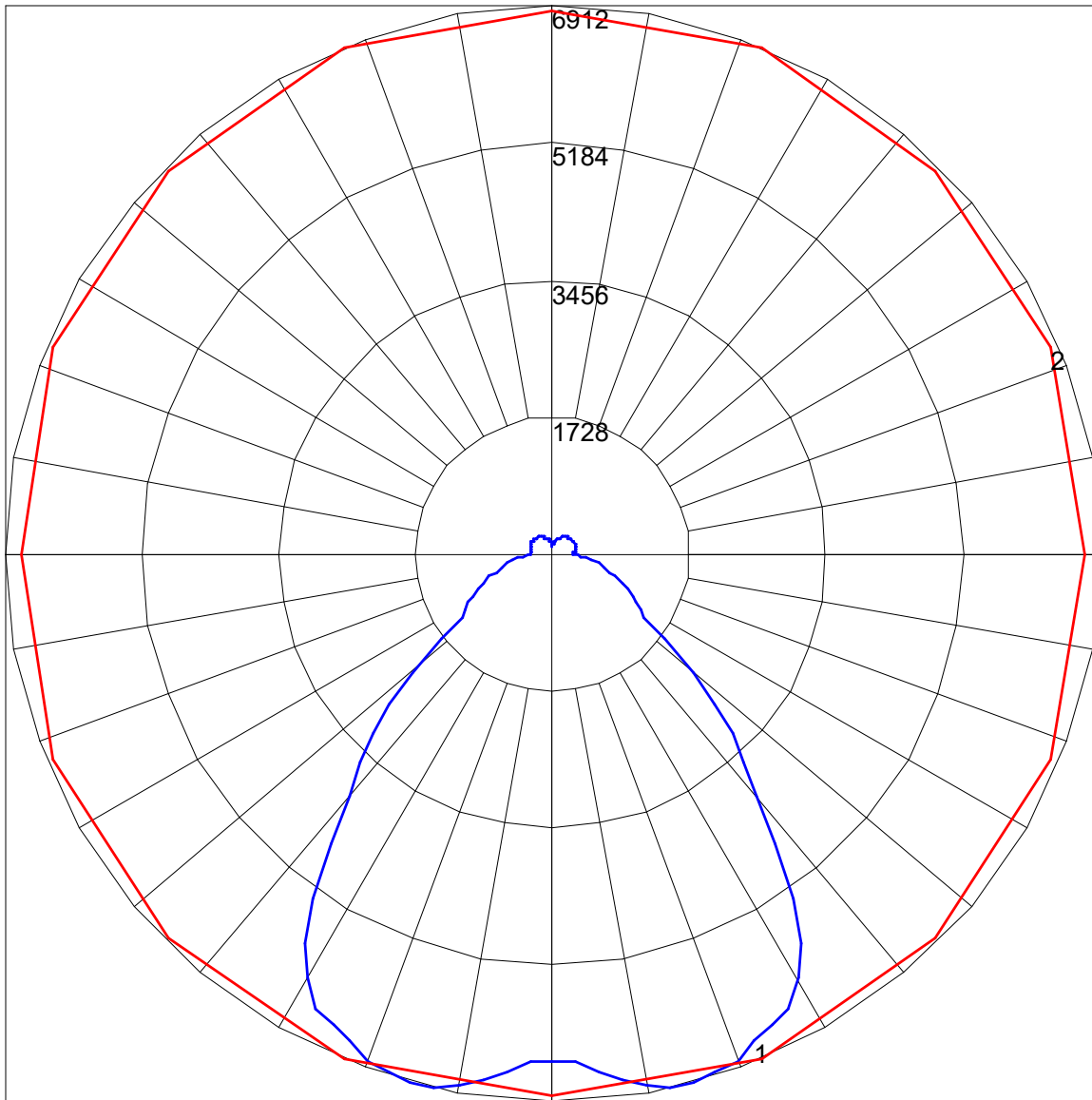
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 6912 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.)