



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-12L-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-12L-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	11772
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	75
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	14955	15294	15723
55	6823	7023	7116
65	5696	5743	5789
75	4196	4222	4213
85	2735	2746	2788

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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	4567	4567	4567	4567	4567
2.5	4563	4568	4574	4583	4591
5.0	4585	4607	4642	4682	4691
7.5	4641	4682	4749	4778	4809
10.0	4798	4779	4820	4861	4875
12.5	4787	4864	4888	4931	4885
15.0	4869	4891	4902	4929	4918
17.5	4793	4849	4885	4892	4891
20.0	4824	4812	4847	4860	4851
22.5	4699	4716	4741	4759	4789
25.0	4622	4642	4673	4686	4687
27.5	4555	4578	4608	4618	4615
30.0	4490	4470	4432	4418	4411
32.5	4257	4248	4197	4156	4134
35.0	3877	3866	3837	3787	3761
37.5	3316	3315	3311	3284	3257
40.0	2849	2836	2866	2862	2850
42.5	2506	2515	2530	2553	2571
45.0	2200	2223	2250	2283	2313
47.5	1903	1920	1950	1995	2020
50.0	1540	1555	1595	1653	1660
52.5	1156	1184	1238	1264	1276
55.0	956	967	984	995	997
57.5	916	920	926	934	937
60.0	865	867	872	879	882
62.5	798	800	806	812	814
65.0	734	733	740	744	746
67.5	665	667	671	674	677
70.0	601	602	604	608	608
72.5	538	539	541	542	544
75.0	477	478	480	479	479
77.5	417	418	417	419	420
80.0	362	361	362	363	364
82.5	308	309	310	312	312
85.0	260	259	261	263	265
87.5	213	214	215	218	220
90.0	185	186	187	188	189
92.5	190	190	192	193	194
95.0	194	195	196	198	198
97.5	199	199	200	201	202
100.0	202	203	204	205	206
102.5	205	206	207	208	209
105.0	208	209	210	211	211
107.5	211	211	212	213	213
110.0	212	213	214	215	215
112.5	213	214	215	216	217
115.0	214	214	215	217	217
117.5	214	214	215	216	217
120.0	213	214	214	216	216
122.5	212	213	213	215	215
125.0	211	211	212	213	213
127.5	209	209	209	210	211
130.0	206	207	207	208	209
132.5	204	204	205	205	206

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CANDELA TABULATION - (Cont.)

135.0	201	201	201	202	203
137.5	197	197	198	199	199
140.0	193	193	194	194	195
142.5	188	189	189	190	190
145.0	184	184	185	185	186
147.5	179	179	180	181	181
150.0	173	174	175	174	175
152.5	167	168	168	168	169
155.0	160	162	162	161	162
157.5	152	154	154	154	154
160.0	145	148	148	147	147
162.5	137	141	141	140	139
165.0	130	133	133	132	131
167.5	122	124	125	124	122
170.0	113	114	115	114	110
172.5	103	103	103	102	100
175.0	88	89	89	89	89
177.5	73	74	76	77	76
180.0	68	68	68	68	68

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1829.79	N.A.	15.50
0-30	3982.21	N.A.	33.80
0-40	6313.34	N.A.	53.60
0-60	9011.6	N.A.	76.50
0-80	10250.27	N.A.	87.10
0-90	10539.74	N.A.	89.50
10-90	10090.58	N.A.	85.70
20-40	4483.54	N.A.	38.10
20-50	6207.6	N.A.	52.70
40-70	3429.8	N.A.	29.10
60-80	1238.67	N.A.	10.50
70-80	507.14	N.A.	4.30
80-90	289.47	N.A.	2.50
90-110	435.27	N.A.	3.70
90-120	648.62	N.A.	5.50
90-130	838.46	N.A.	7.10
90-150	1110.56	N.A.	9.40
90-180	1232.49	N.A.	10.50
110-180	797.22	N.A.	6.80
0-180	11772.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	449.16
10-20	1380.63
20-30	2152.42
30-40	2331.13
40-50	1724.06
50-60	974.20
60-70	731.53
70-80	507.14
80-90	289.47
90-100	213.72
100-110	221.54
110-120	213.35
120-130	189.84
130-140	155.96
140-150	116.14
150-160	74.90
160-170	37.78
170-180	9.26

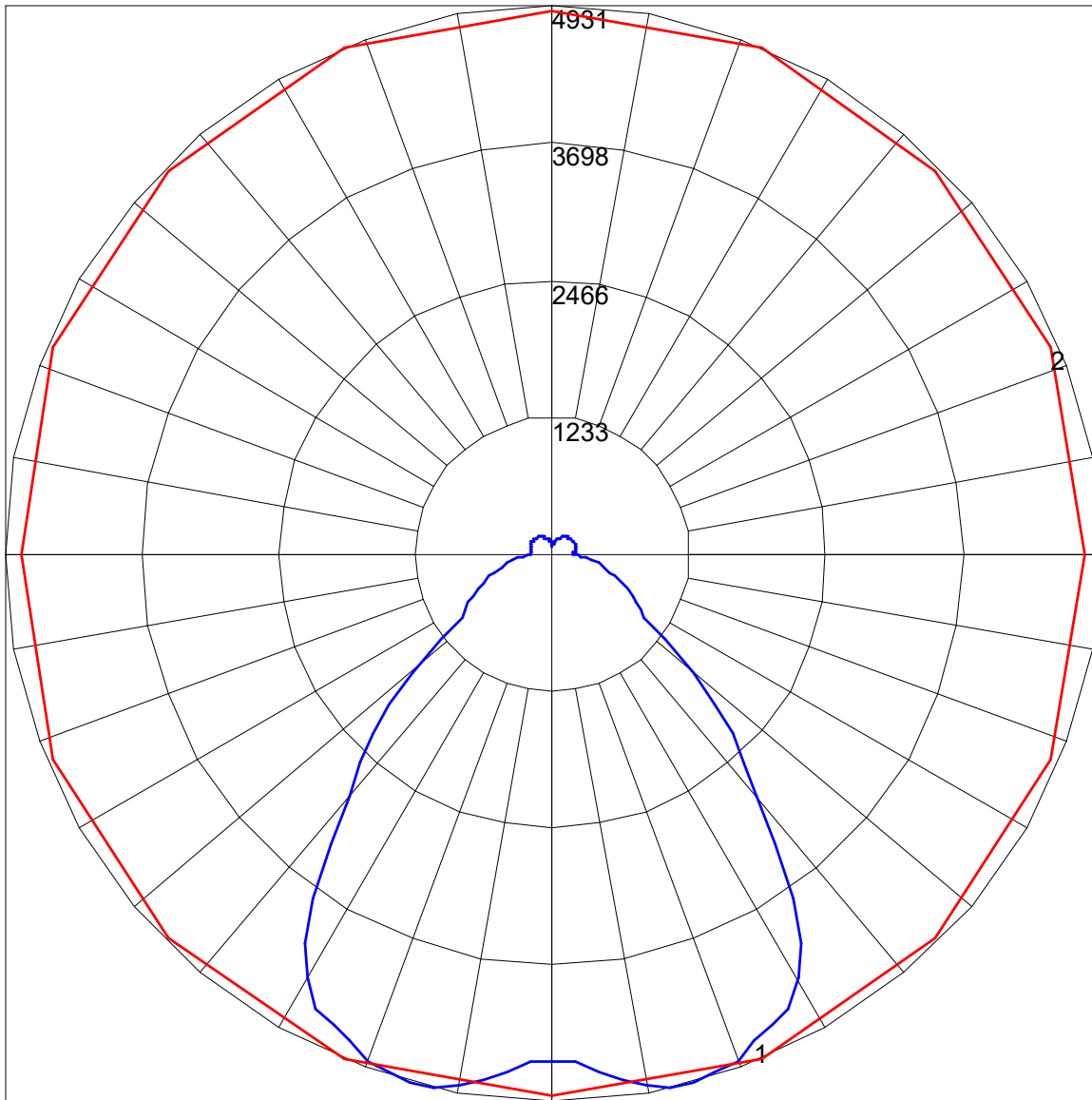
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4931 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.)