



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-12L-S-840-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-12L-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	12054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	161
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)	1.24
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



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13255	13473	13758
55	6480	6630	6759
65	6876	6946	7047
75	6685	6738	6808
85	6123	6175	6228

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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	4033	4033	4033	4033	4033
2.5	4028	4031	4038	4046	4050
5.0	4060	4066	4096	4126	4162
7.5	4118	4149	4200	4245	4263
10.0	4231	4243	4295	4327	4327
12.5	4299	4318	4339	4377	4377
15.0	4285	4310	4354	4390	4369
17.5	4330	4296	4312	4365	4355
20.0	4252	4253	4287	4306	4302
22.5	4147	4184	4198	4222	4240
25.0	4090	4103	4134	4150	4160
27.5	4040	4052	4076	4093	4099
30.0	3977	3968	3940	3911	3907
32.5	3773	3762	3732	3693	3690
35.0	3420	3415	3404	3364	3354
37.5	2949	2925	2927	2913	2886
40.0	2499	2502	2515	2517	2505
42.5	2204	2211	2218	2239	2244
45.0	1950	1964	1982	2004	2024
47.5	1703	1711	1740	1773	1784
50.0	1406	1416	1447	1471	1493
52.5	1084	1099	1125	1157	1165
55.0	908	917	929	943	947
57.5	903	906	916	927	932
60.0	906	909	918	928	933
62.5	899	902	909	919	924
65.0	886	888	895	905	908
67.5	865	867	874	882	886
70.0	835	838	844	850	853
72.5	800	803	808	813	817
75.0	760	762	766	771	774
77.5	718	716	722	728	730
80.0	669	671	677	682	684
82.5	625	627	631	636	639
85.0	582	584	587	592	592
87.5	540	542	545	547	547
90.0	502	504	506	506	507
92.5	472	473	473	475	476
95.0	443	443	445	446	448
97.5	416	414	418	419	420
100.0	389	390	391	393	393
102.5	366	366	367	369	369
105.0	344	344	345	346	346
107.5	324	324	325	325	325
110.0	306	306	306	306	306
112.5	288	288	288	288	288
115.0	272	272	272	272	272
117.5	257	257	258	258	258
120.0	244	244	244	244	244
122.5	232	232	232	232	232
125.0	221	221	221	221	220
127.5	211	211	211	210	210
130.0	202	202	202	201	201
132.5	194	194	194	193	193

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CANDELA TABULATION - (Cont.)

135.0	186	186	186	186	186
137.5	179	179	179	179	179
140.0	173	173	173	172	172
142.5	166	166	166	166	166
145.0	161	161	161	160	160
147.5	155	155	155	154	154
150.0	148	150	149	149	149
152.5	142	144	144	143	143
155.0	135	138	138	137	137
157.5	128	131	131	131	130
160.0	122	126	126	125	125
162.5	116	120	120	119	118
165.0	110	113	114	112	111
167.5	104	106	107	106	103
170.0	97	98	99	98	96
172.5	88	89	89	89	87
175.0	76	77	78	78	78
177.5	66	66	67	68	68
180.0	62	62	62	62	62

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1623.57	N.A.	13.50
0-30	3529.96	N.A.	29.30
0-40	5595.19	N.A.	46.40
0-60	8046.64	N.A.	66.80
0-80	9738.22	N.A.	80.80
0-90	10380.16	N.A.	86.10
10-90	9982.41	N.A.	82.80
20-40	3971.62	N.A.	32.90
20-50	5495.49	N.A.	45.60
40-70	3335.06	N.A.	27.70
60-80	1691.58	N.A.	14.00
70-80	807.97	N.A.	6.70
80-90	641.93	N.A.	5.30
90-110	853.58	N.A.	7.10
90-120	1125.1	N.A.	9.30
90-130	1324.26	N.A.	11.00
90-150	1570.08	N.A.	13.00
90-180	1674.08	N.A.	13.90
110-180	820.50	N.A.	6.80
0-180	12054.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	397.74
10-20	1225.82
20-30	1906.39
30-40	2065.23
40-50	1523.87
50-60	927.58
60-70	883.61
70-80	807.97
80-90	641.93
90-100	486.78
100-110	366.80
110-120	271.53
120-130	199.16
130-140	144.69
140-150	101.13
150-160	63.78
160-170	32.17
170-180	8.05

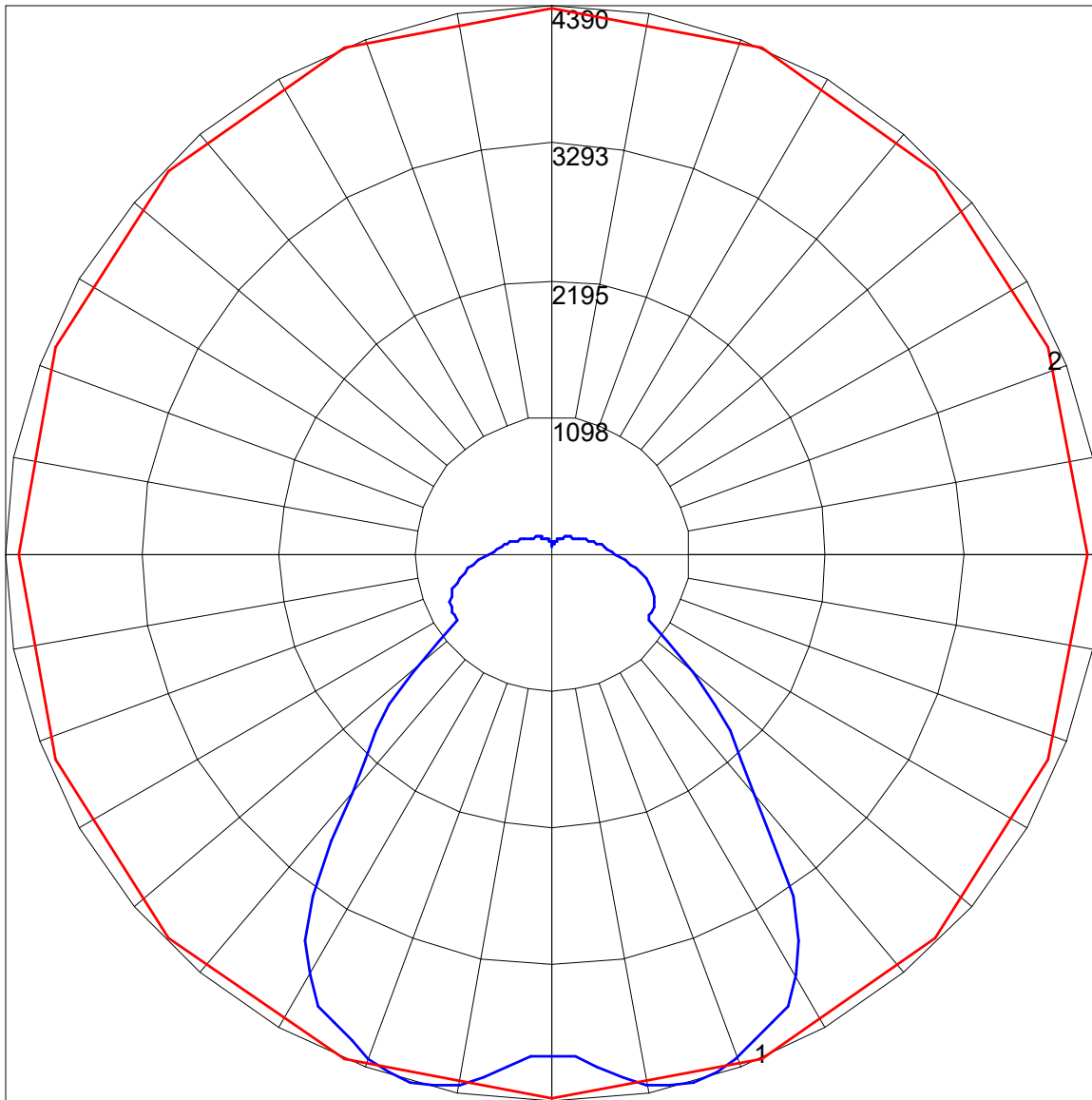
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4390 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.)