



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-08L-S-850-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-08L-S-850-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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	49
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	9979	10203	10482
55	4546	4689	4753
65	3803	3834	3865
75	2797	2824	2815
85	1830	1830	1862

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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	3046	3046	3046	3046	3046
2.5	3043	3046	3051	3056	3062
5.0	3058	3072	3097	3123	3129
7.5	3096	3123	3168	3187	3207
10.0	3200	3188	3215	3242	3251
12.5	3193	3244	3260	3289	3258
15.0	3247	3262	3269	3288	3280
17.5	3197	3234	3258	3263	3262
20.0	3217	3210	3233	3242	3235
22.5	3134	3146	3162	3174	3194
25.0	3082	3096	3117	3126	3127
27.5	3038	3053	3073	3080	3078
30.0	2995	2981	2956	2947	2942
32.5	2839	2833	2799	2772	2757
35.0	2586	2579	2560	2527	2508
37.5	2212	2211	2208	2191	2173
40.0	1900	1892	1911	1909	1901
42.5	1671	1678	1688	1703	1715
45.0	1468	1483	1501	1522	1542
47.5	1269	1281	1301	1330	1347
50.0	1027	1038	1064	1103	1107
52.5	771	790	825	844	852
55.0	637	645	657	664	666
57.5	610	613	617	623	625
60.0	577	578	582	586	588
62.5	532	534	538	542	543
65.0	490	489	494	496	498
67.5	443	444	447	449	451
70.0	400	401	403	405	405
72.5	359	360	361	361	363
75.0	318	319	321	320	320
77.5	278	279	278	279	279
80.0	241	241	241	242	242
82.5	205	206	207	208	208
85.0	174	173	174	175	177
87.5	143	143	144	146	147
90.0	124	124	125	126	126
92.5	127	127	128	129	129
95.0	130	130	131	132	133
97.5	133	133	134	135	135
100.0	135	135	136	137	138
102.5	137	138	138	139	140
105.0	139	139	140	141	141
107.5	141	141	142	142	143
110.0	142	142	143	144	144
112.5	143	143	144	144	145
115.0	143	143	144	145	145
117.5	143	143	144	144	145
120.0	143	143	143	144	144
122.5	142	142	143	143	144
125.0	141	141	142	142	143
127.5	139	140	140	140	141
130.0	138	138	138	139	139
132.5	136	136	137	137	138

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CANDELA TABULATION - (Cont.)

135.0	134	134	135	135	136
137.5	132	132	132	133	133
140.0	129	129	129	130	130
142.5	126	126	127	127	127
145.0	123	123	124	124	124
147.5	120	120	120	121	121
150.0	116	117	117	117	117
152.5	112	113	113	112	113
155.0	107	108	108	108	108
157.5	102	103	103	103	103
160.0	97	99	99	99	98
162.5	91	94	95	94	92
165.0	86	88	89	87	87
167.5	81	82	83	82	81
170.0	75	76	76	76	73
172.5	68	69	69	67	66
175.0	59	59	59	59	59
177.5	48	49	50	51	51
180.0	45	45	45	45	45

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1220.43	N.A.	15.50
0-30	2656.04	N.A.	33.80
0-40	4210.93	N.A.	53.60
0-60	6010.75	N.A.	76.50
0-80	6836.8	N.A.	87.10
0-90	7030.01	N.A.	89.50
10-90	6730.42	N.A.	85.70
20-40	2990.5	N.A.	38.10
20-50	4140.49	N.A.	52.70
40-70	2287.63	N.A.	29.10
60-80	826.05	N.A.	10.50
70-80	338.23	N.A.	4.30
80-90	193.22	N.A.	2.50
90-110	290.83	N.A.	3.70
90-120	433.44	N.A.	5.50
90-130	560.29	N.A.	7.10
90-150	742.20	N.A.	9.50
90-180	823.64	N.A.	10.50
110-180	532.82	N.A.	6.80
0-180	7853.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	299.59
10-20	920.84
20-30	1435.61
30-40	1554.89
40-50	1149.98
50-60	649.83
60-70	487.82
70-80	338.23
80-90	193.22
90-100	142.83
100-110	148.00
110-120	142.61
120-130	126.85
130-140	104.21
140-150	77.70
150-160	50.14
160-170	25.16
170-180	6.15

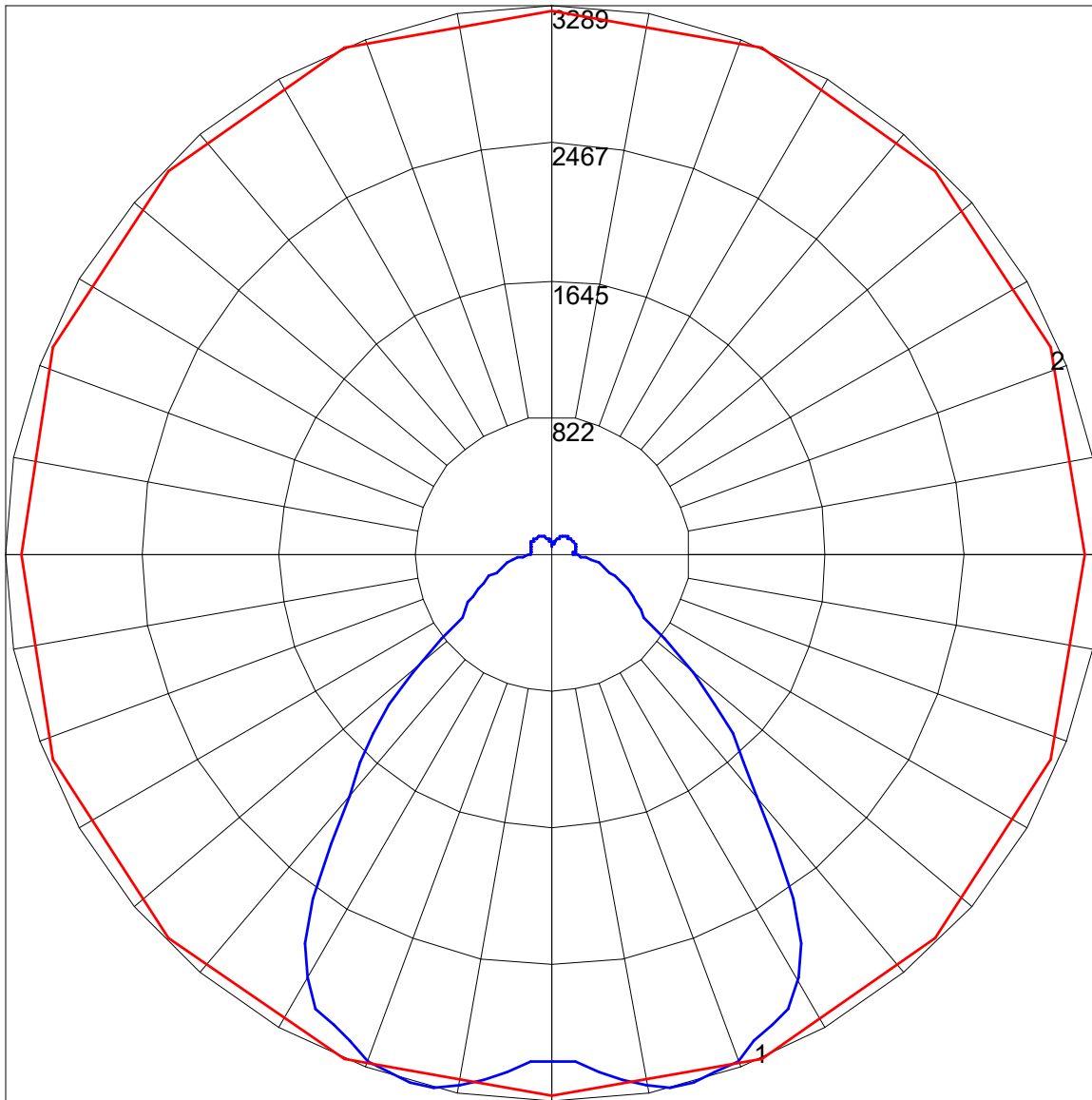
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	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	50	59	53	49	56	51	48	45
6	73	61	53	47	70	59	52	46	57	50	45	54	48	44	51	47	43	41
7	68	56	48	42	66	54	47	42	52	45	41	50	44	40	47	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 = 3289 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.)