



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-50L-830.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12471
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 02/17/21
 [TESTDATE] 02/03/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] SW-4-50L-830
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor
 [SEARCH_COLORTEMP] 3000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4781
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.90 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.23 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8070	6154	5762
55	6765	5213	5314
65	5378	4594	5401
75	4067	4350	5396
85	2484	4181	4822

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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	1302	1302	1302	1302	1302
2.5	1335	1312	1303	1294	1283
5.0	1334	1312	1305	1297	1288
7.5	1329	1311	1305	1298	1291
10.0	1320	1305	1302	1296	1288
12.5	1307	1296	1293	1289	1280
15.0	1291	1281	1279	1276	1270
17.5	1270	1263	1263	1260	1253
20.0	1244	1241	1241	1238	1232
22.5	1213	1215	1215	1211	1204
25.0	1179	1184	1186	1181	1172
27.5	1141	1150	1151	1146	1136
30.0	1097	1110	1113	1108	1098
32.5	1050	1066	1070	1067	1058
35.0	1000	1019	1026	1023	1015
37.5	946	966	978	979	973
40.0	889	914	929	936	931
42.5	826	858	881	893	892
45.0	767	804	832	853	857
47.5	707	747	784	815	824
50.0	649	694	738	779	796
52.5	591	640	696	749	770
55.0	534	589	654	720	750
57.5	480	538	615	696	736
60.0	427	489	578	675	721
62.5	378	443	545	657	710
65.0	325	400	514	642	698
67.5	280	360	486	627	684
70.0	238	322	460	609	665
72.5	199	288	437	590	641
75.0	163	258	413	565	612
77.5	131	230	391	535	577
80.0	101	201	367	503	539
82.5	72	176	342	467	498
85.0	46	153	314	427	454
87.5	22	129	285	386	410
90.0	3	108	258	345	365
92.5	1	101	240	319	335
95.0	1	97	227	296	308
97.5	1	93	214	274	285
100.0	1	90	200	255	265
102.5	1	86	189	237	246
105.0	1	81	177	222	231
107.5	1	76	167	208	218
110.0	1	71	160	197	204
112.5	1	63	151	187	195
115.0	1	55	142	178	186
117.5	1	49	134	170	178
120.0	1	42	125	162	171
122.5	1	35	114	154	162
125.0	1	29	105	144	155
127.5	1	23	94	135	145
130.0	1	18	86	125	135
132.5	1	11	76	114	126

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CANDELA TABULATION - (Cont.)

135.0	1	6	67	104	115
137.5	1	2	57	93	105
140.0	1	1	48	83	93
142.5	1	1	39	72	83
145.0	1	1	30	61	72
147.5	1	1	21	51	60
150.0	1	1	12	39	49
152.5	1	1	4	29	37
155.0	1	1	1	18	25
157.5	1	1	1	7	14
160.0	1	1	1	1	3
162.5	1	1	1	1	1
165.0	1	1	1	1	1
167.5	2	1	1	1	1
170.0	1	1	1	1	1
172.5	2	1	1	1	1
175.0	2	1	1	1	1
177.5	2	1	1	1	1
180.0	1	1	1	1	1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	485.40	N.A.	10.20
0-30	1029.06	N.A.	21.50
0-40	1665.73	N.A.	34.80
0-60	2888.12	N.A.	60.40
0-80	3830.09	N.A.	80.10
0-90	4141.77	N.A.	86.60
10-90	4017.21	N.A.	84.00
20-40	1180.33	N.A.	24.70
20-50	1817.97	N.A.	38.00
40-70	1735.99	N.A.	36.30
60-80	941.97	N.A.	19.70
70-80	428.37	N.A.	9.00
80-90	311.68	N.A.	6.50
90-110	370.93	N.A.	7.80
90-120	487.91	N.A.	10.20
90-130	567.88	N.A.	11.90
90-150	634.30	N.A.	13.30
90-180	639.10	N.A.	13.40
110-180	268.17	N.A.	5.60
0-180	4780.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.55
10-20	360.84
20-30	543.66
30-40	636.67
40-50	637.63
50-60	584.76
60-70	513.60
70-80	428.37
80-90	311.68
90-100	212.35
100-110	158.58
110-120	116.98
120-130	79.96
130-140	45.93
140-150	20.49
150-160	4.40
160-170	0.30
170-180	0.10

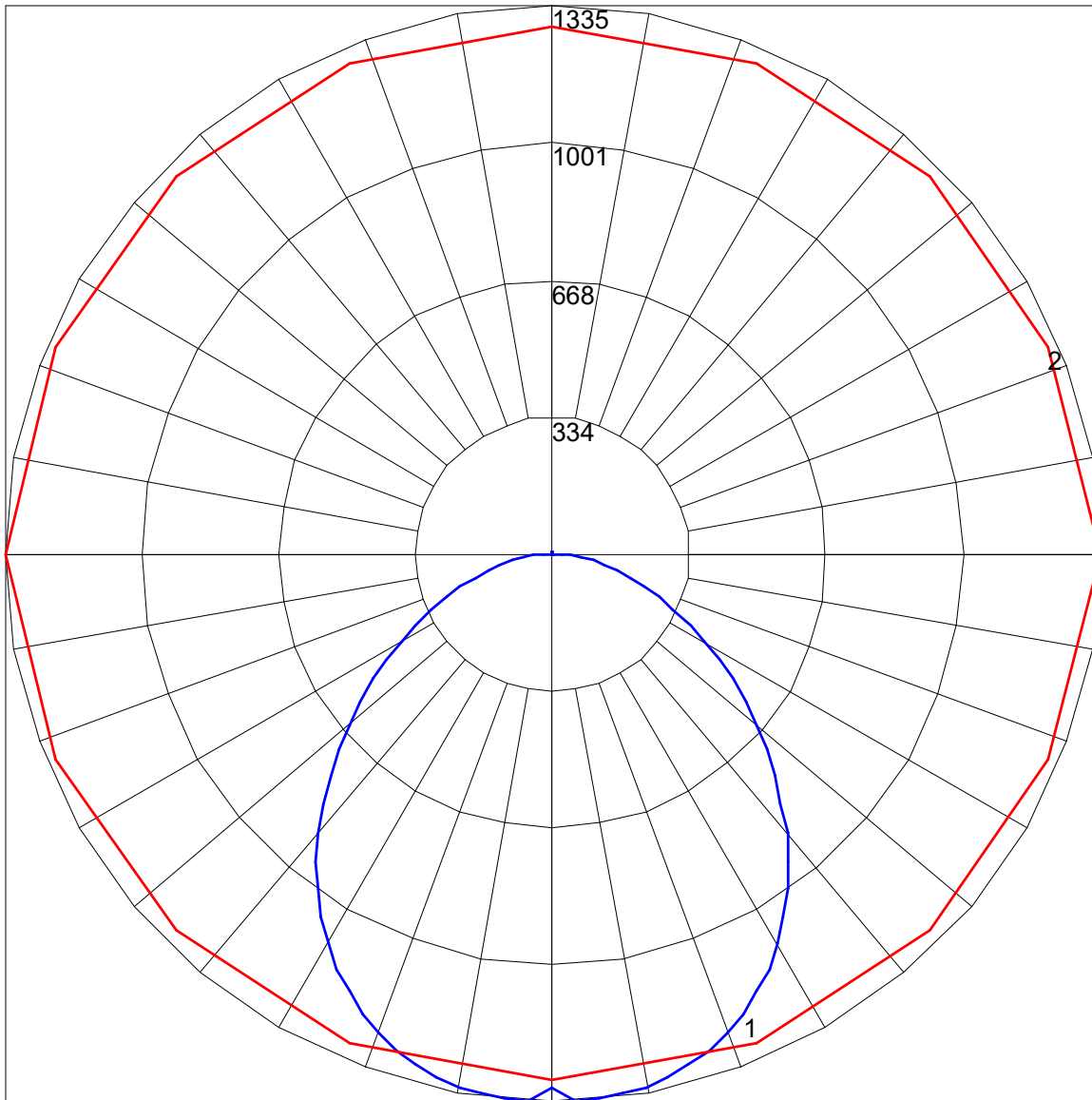
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	103	98	93	88	99	94	89	85	87	84	80	81	78	75	75	73	71	68
2	93	84	77	70	89	81	74	68	75	70	65	70	65	61	65	61	58	55
3	85	73	65	58	81	71	63	56	66	59	54	61	56	51	57	52	49	46
4	77	65	56	49	74	63	54	48	58	51	45	54	48	43	51	46	41	39
5	71	58	49	42	68	56	47	41	52	45	39	49	43	38	46	40	36	33
6	66	52	43	36	63	50	42	36	47	40	34	44	38	33	41	36	32	29
7	61	47	38	32	58	46	37	31	43	36	30	40	34	29	38	32	28	26
8	57	43	34	28	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	30	25	36	29	24	34	28	23	32	27	23	21
10	50	36	28	23	48	35	28	23	33	27	22	32	26	21	30	25	21	19

POLAR GRAPH



Maximum Candela = 1335 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)