



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-45L-850.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-4-45L-850
 [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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4629
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	34
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	7807	5961	5574
55	6562	5046	5151
65	5213	4451	5231
75	3942	4213	5219
85	2376	4062	4673

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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	1260	1260	1260	1260	1260
2.5	1292	1271	1261	1252	1242
5.0	1291	1271	1263	1256	1247
7.5	1287	1269	1264	1258	1250
10.0	1278	1263	1260	1255	1247
12.5	1265	1254	1252	1248	1240
15.0	1250	1241	1240	1236	1229
17.5	1229	1223	1223	1220	1213
20.0	1205	1202	1202	1199	1192
22.5	1176	1177	1177	1173	1166
25.0	1142	1147	1148	1143	1135
27.5	1105	1113	1114	1109	1101
30.0	1063	1075	1078	1073	1064
32.5	1017	1032	1037	1033	1024
35.0	968	987	993	990	983
37.5	916	936	947	948	942
40.0	861	884	900	906	902
42.5	800	831	854	865	864
45.0	742	778	806	826	829
47.5	685	724	759	789	798
50.0	628	671	715	755	770
52.5	573	620	674	725	745
55.0	518	570	633	697	727
57.5	465	521	596	674	711
60.0	414	474	560	654	698
62.5	366	428	528	637	687
65.0	315	387	498	621	676
67.5	271	348	470	606	662
70.0	231	312	446	589	645
72.5	193	279	423	570	621
75.0	158	249	400	547	592
77.5	127	222	379	519	559
80.0	98	195	356	487	522
82.5	69	171	331	452	482
85.0	44	147	305	414	440
87.5	22	125	276	375	397
90.0	3	104	249	334	353
92.5	1	98	233	308	324
95.0	1	94	220	287	299
97.5	1	90	207	265	276
100.0	1	87	194	247	256
102.5	1	83	183	230	239
105.0	1	79	172	215	223
107.5	1	74	162	202	210
110.0	1	68	155	190	198
112.5	1	61	146	181	188
115.0	1	54	138	173	180
117.5	1	47	129	165	173
120.0	1	40	120	157	165
122.5	1	34	111	149	158
125.0	1	28	102	139	149
127.5	1	22	92	130	140
130.0	1	17	83	120	131
132.5	1	11	74	111	121

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CANDELA TABULATION - (Cont.)

135.0	1	5	65	101	112
137.5	1	2	56	90	102
140.0	1	1	46	80	91
142.5	1	1	38	70	80
145.0	1	1	29	60	69
147.5	1	1	21	48	58
150.0	1	1	12	38	47
152.5	1	1	3	28	36
155.0	1	1	1	17	25
157.5	1	1	1	7	13
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	470.01	N.A.	10.20
0-30	996.49	N.A.	21.50
0-40	1613.00	N.A.	34.80
0-60	2796.72	N.A.	60.40
0-80	3708.69	N.A.	80.10
0-90	4010.59	N.A.	86.60
10-90	3889.99	N.A.	84.00
20-40	1142.99	N.A.	24.70
20-50	1760.45	N.A.	38.00
40-70	1680.92	N.A.	36.30
60-80	911.97	N.A.	19.70
70-80	414.78	N.A.	9.00
80-90	301.90	N.A.	6.50
90-110	359.25	N.A.	7.80
90-120	472.47	N.A.	10.20
90-130	549.82	N.A.	11.90
90-150	614.19	N.A.	13.30
90-180	618.84	N.A.	13.40
110-180	259.59	N.A.	5.60
0-180	4629.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.60
10-20	349.41
20-30	526.47
30-40	616.51
40-50	617.46
50-60	566.26
60-70	497.20
70-80	414.78
80-90	301.90
90-100	205.58
100-110	153.67
110-120	113.23
120-130	77.35
130-140	44.52
140-150	19.86
150-160	4.24
160-170	0.30
170-180	0.10

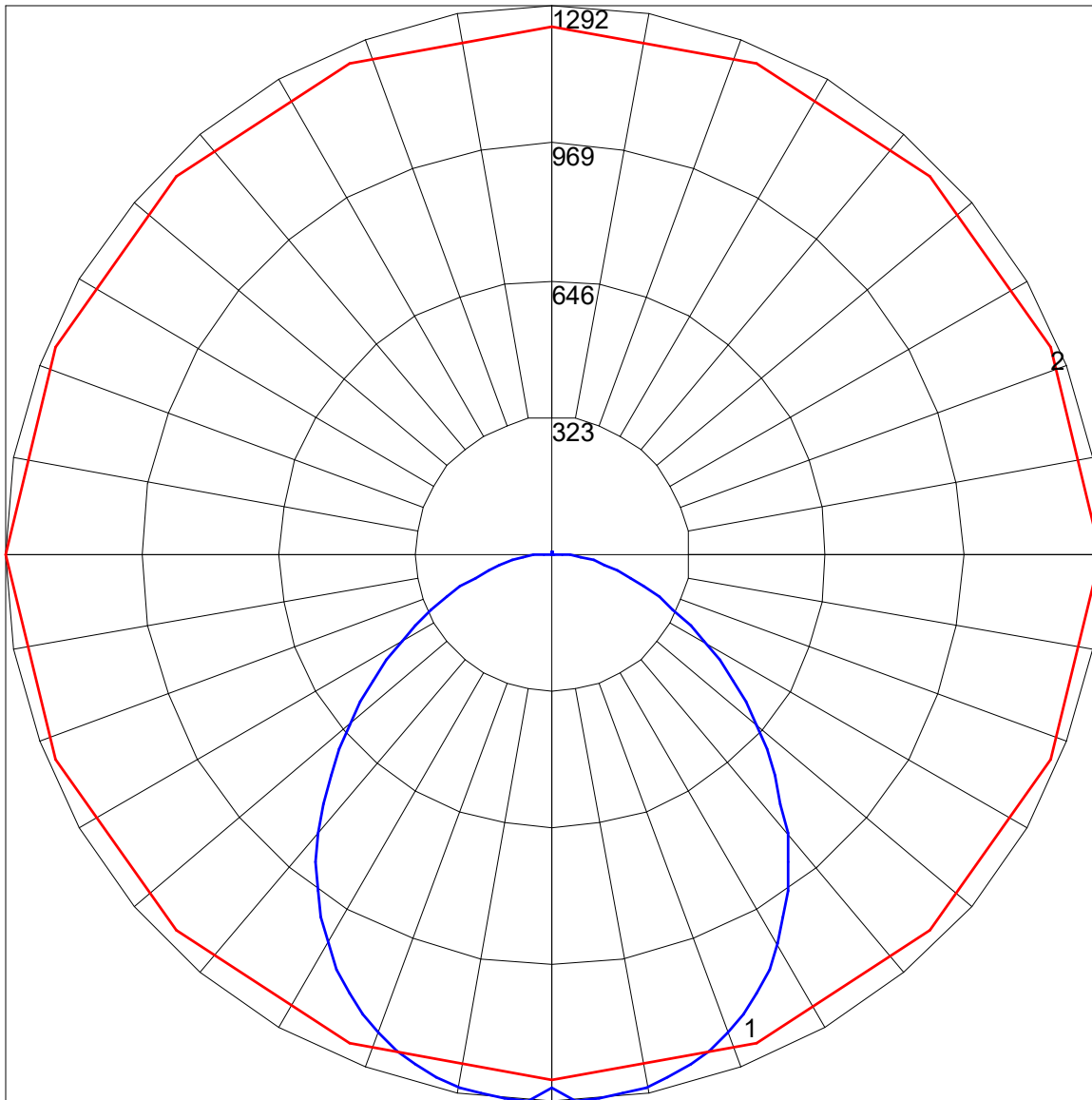
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	65	58	81	71	63	56	66	59	54	61	56	51	57	53	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 = 1292 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.)