



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-4-45L-830.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12471
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUE DATE] 02/17/21
 [TEST DATE] 02/03/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] SW-4-45L-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	4302
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	7260	5540	5184
55	6106	4695	4783
65	4849	4138	4859
75	3667	3918	4849
85	2214	3769	4344

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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	1171	1171	1171	1171	1171
2.5	1201	1181	1172	1164	1154
5.0	1200	1181	1173	1167	1159
7.5	1196	1179	1174	1169	1162
10.0	1188	1173	1171	1166	1159
12.5	1175	1165	1164	1160	1152
15.0	1162	1153	1152	1149	1142
17.5	1142	1136	1136	1133	1128
20.0	1120	1117	1117	1114	1108
22.5	1093	1093	1093	1090	1084
25.0	1061	1066	1067	1062	1055
27.5	1027	1034	1035	1030	1023
30.0	987	999	1002	997	988
32.5	945	959	964	960	951
35.0	900	917	923	920	914
37.5	851	870	880	881	876
40.0	800	821	837	842	839
42.5	743	772	794	804	803
45.0	690	723	749	768	771
47.5	636	673	705	734	741
50.0	584	624	664	701	715
52.5	532	576	627	674	693
55.0	482	529	589	648	675
57.5	432	484	554	627	661
60.0	384	441	520	608	649
62.5	341	398	490	591	638
65.0	293	360	463	577	628
67.5	252	323	437	563	615
70.0	215	290	414	548	599
72.5	179	259	393	529	577
75.0	147	232	372	508	550
77.5	118	206	352	483	520
80.0	91	181	331	452	485
82.5	64	159	307	420	448
85.0	41	136	283	384	409
87.5	20	116	257	348	369
90.0	3	96	232	310	328
92.5	1	91	217	286	301
95.0	1	88	204	267	278
97.5	1	84	193	246	257
100.0	1	81	180	230	238
102.5	1	77	170	214	222
105.0	1	73	160	199	207
107.5	1	69	151	188	196
110.0	1	63	144	176	184
112.5	1	56	135	168	175
115.0	1	51	128	161	167
117.5	1	44	120	154	161
120.0	1	37	112	146	154
122.5	1	31	103	138	147
125.0	1	26	94	129	138
127.5	1	20	86	121	130
130.0	1	16	77	112	122
132.5	1	10	69	103	113

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CANDELA TABULATION - (Cont.)

135.0	1	5	60	93	104
137.5	1	2	52	84	94
140.0	1	1	43	74	85
142.5	1	1	35	65	74
145.0	1	1	27	55	64
147.5	1	1	19	45	53
150.0	1	1	11	35	44
152.5	1	1	3	26	33
155.0	1	1	1	16	23
157.5	1	1	1	7	12
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	436.73	N.A.	10.20
0-30	925.90	N.A.	21.50
0-40	1498.85	N.A.	34.80
0-60	2599.02	N.A.	60.40
0-80	3446.43	N.A.	80.10
0-90	3726.78	N.A.	86.60
10-90	3614.72	N.A.	84.00
20-40	1062.12	N.A.	24.70
20-50	1635.97	N.A.	38.00
40-70	1562.16	N.A.	36.30
60-80	847.41	N.A.	19.70
70-80	385.42	N.A.	9.00
80-90	280.34	N.A.	6.50
90-110	333.98	N.A.	7.80
90-120	439.23	N.A.	10.20
90-130	511.04	N.A.	11.90
90-150	570.79	N.A.	13.30
90-180	575.17	N.A.	13.40
110-180	241.19	N.A.	5.60
0-180	4301.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.06
10-20	324.67
20-30	489.17
30-40	572.95
40-50	573.85
50-60	526.31
60-70	462.00
70-80	385.42
80-90	280.34
90-100	191.17
100-110	142.81
110-120	105.25
120-130	71.80
130-140	41.36
140-150	18.39
150-160	3.97
160-170	0.30
170-180	0.10

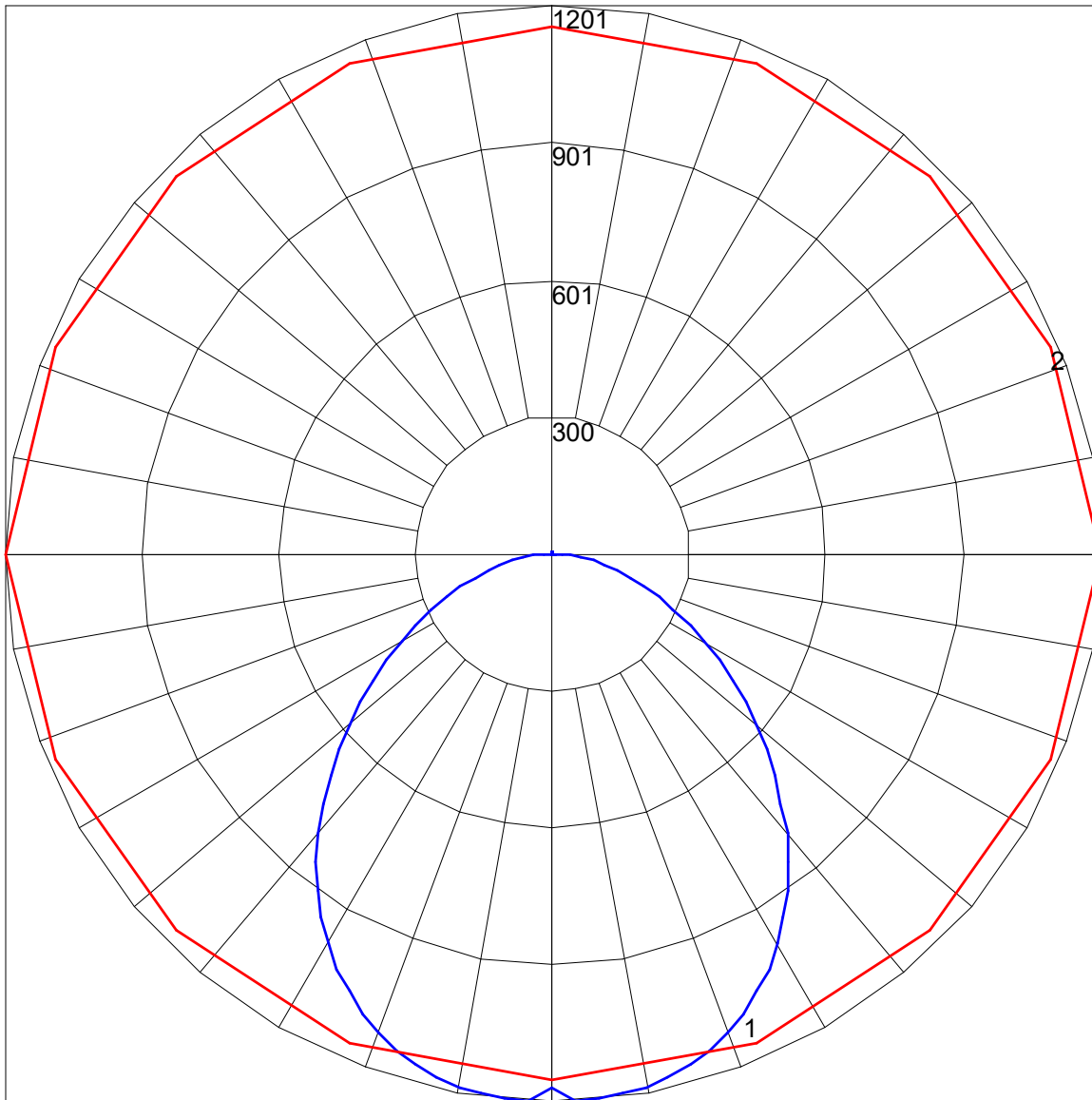
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1201 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.)