



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-2-20L-830.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12472  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 02/17/21  
[TEST DATE] 02/03/21  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] SW-2-20L-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	1895
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	16
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.90 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	5957	4780	4747
55	4856	3994	4407
65	3737	3510	4495
75	2711	3315	4542
85	1557	3156	4033

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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	523	523	523	523	523
2.5	534	530	524	517	515
5.0	534	530	525	519	517
7.5	531	528	524	519	518
10.0	527	525	522	518	517
12.5	521	520	518	515	514
15.0	513	513	513	510	509
17.5	503	505	505	503	502
20.0	492	495	496	494	494
22.5	479	482	484	483	483
25.0	463	468	471	471	471
27.5	447	453	456	458	458
30.0	428	435	440	442	442
32.5	408	416	423	425	426
35.0	385	395	403	408	409
37.5	362	373	384	390	392
40.0	340	351	363	372	375
42.5	316	329	344	354	359
45.0	292	307	324	338	344
47.5	269	285	305	323	331
50.0	246	263	287	309	320
52.5	224	242	270	297	310
55.0	202	221	253	286	303
57.5	179	203	238	277	296
60.0	160	184	225	269	292
62.5	141	167	212	263	287
65.0	123	151	200	257	283
67.5	107	137	189	251	278
70.0	91	123	179	245	272
72.5	76	110	170	237	262
75.0	63	98	162	228	251
77.5	50	87	153	216	237
80.0	40	77	144	203	221
82.5	30	69	134	188	203
85.0	20	59	124	173	185
87.5	11	50	113	156	166
90.0	4	43	102	140	149
92.5	3	40	96	130	137
95.0	2	38	91	121	126
97.5	2	37	86	112	117
100.0	1	35	81	104	108
102.5	1	34	76	97	100
105.0	1	32	72	91	94
107.5	1	30	69	85	88
110.0	1	28	65	81	83
112.5	1	25	62	77	79
115.0	1	23	58	73	75
117.5	0	20	55	70	72
120.0	1	17	51	67	70
122.5	0	15	47	63	67
125.0	0	12	43	59	63
127.5	0	10	40	55	59
130.0	1	8	35	51	56
132.5	0	5	31	47	51

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CANDELA TABULATION - (Cont.)

135.0	1	4	28	43	47
137.5	1	3	24	38	43
140.0	1	1	20	34	39
142.5	1	1	17	30	34
145.0	1	1	13	26	30
147.5	1	1	9	21	25
150.0	1	1	6	17	21
152.5	1	1	3	12	16
155.0	1	1	1	8	11
157.5	1	1	1	4	7
160.0	1	1	1	1	3
162.5	1	1	1	1	1
165.0	1	1	1	1	1
167.5	1	1	1	1	1
170.0	1	1	1	1	1
172.5	1	1	1	1	1
175.0	1	1	1	1	1
177.5	1	1	1	1	1
180.0	1	1	1	1	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	194.25	N.A.	10.20
0-30	410.22	N.A.	21.60
0-40	660.77	N.A.	34.90
0-60	1137.13	N.A.	60.00
0-80	1508.55	N.A.	79.60
0-90	1633.38	N.A.	86.20
10-90	1583.39	N.A.	83.50
20-40	466.52	N.A.	24.60
20-50	715.35	N.A.	37.70
40-70	677.88	N.A.	35.80
60-80	371.41	N.A.	19.60
70-80	169.89	N.A.	9.00
80-90	124.83	N.A.	6.60
90-110	150.56	N.A.	7.90
90-120	198.42	N.A.	10.50
90-130	231.32	N.A.	12.20
90-150	259.24	N.A.	13.70
90-180	261.77	N.A.	13.80
110-180	111.21	N.A.	5.90
0-180	1895.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.98
10-20	144.27
20-30	215.96
30-40	250.55
40-50	248.83
50-60	227.53
60-70	201.52
70-80	169.89
80-90	124.83
90-100	86.12
100-110	64.44
110-120	47.86
120-130	32.91
130-140	19.16
140-150	8.76
150-160	2.14
160-170	0.29
170-180	0.10

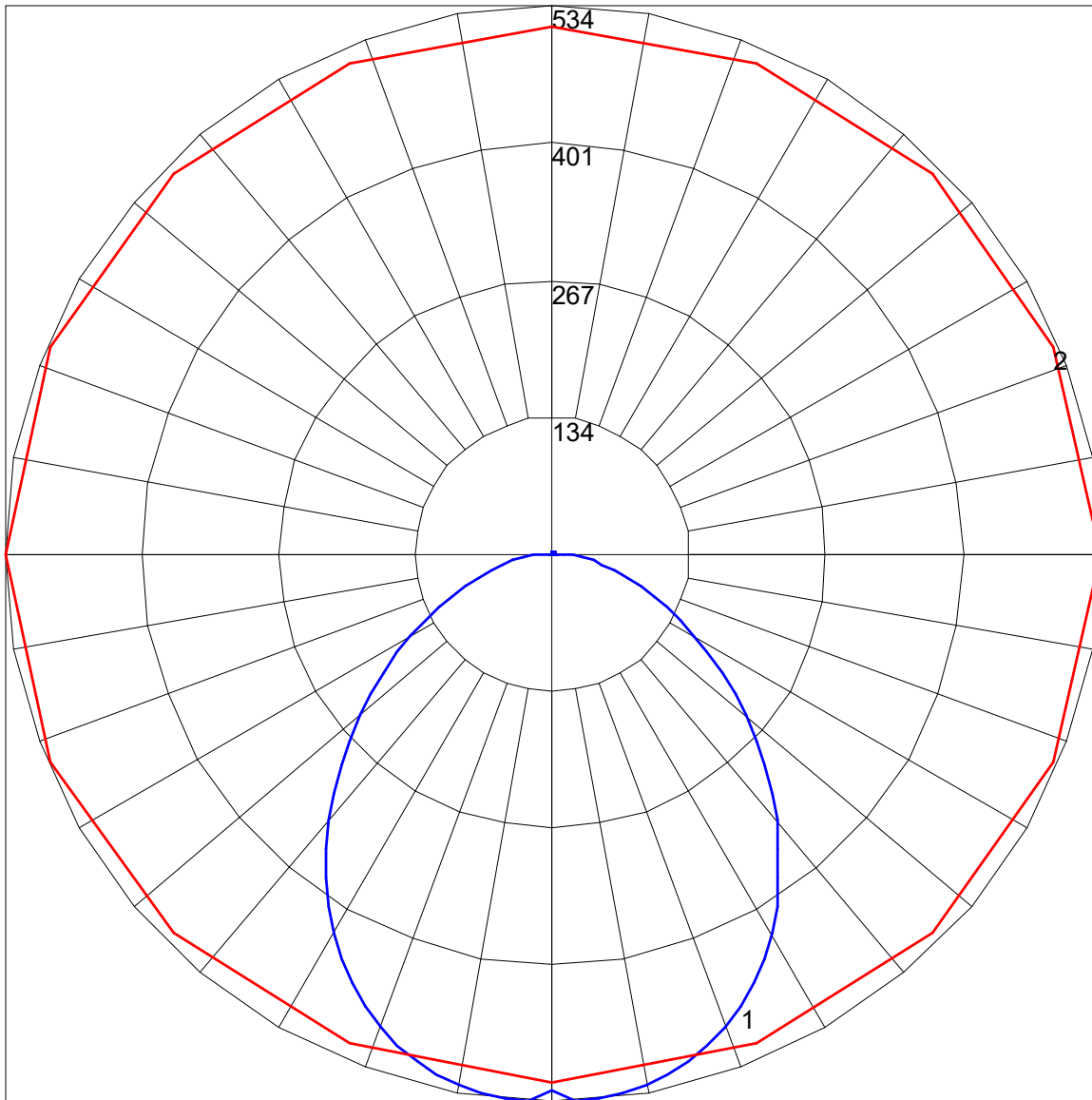
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	103	98	92	88	99	94	89	85	87	83	80	81	78	75	75	73	70	67
2	93	84	77	70	89	81	74	68	75	69	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	48	45
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	42	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	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	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 = 534 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.)