



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-2-20L-850.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12472
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 02/17/21
 [TESTDATE] 02/03/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] SW-2-20L-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	2037
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	6406	5148	5106
55	5216	4294	4727
65	4010	3774	4844
75	2927	3560	4868
85	1712	3385	4316

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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	562	562	562	562	562
2.5	574	570	563	556	553
5.0	574	570	564	558	555
7.5	571	568	563	558	557
10.0	566	564	561	557	555
12.5	560	559	557	554	552
15.0	551	552	551	548	547
17.5	540	543	543	541	540
20.0	529	532	533	531	531
22.5	515	519	520	520	520
25.0	498	503	506	506	506
27.5	481	487	490	492	492
30.0	460	467	473	475	476
32.5	439	447	454	457	458
35.0	414	425	434	438	440
37.5	390	401	412	419	421
40.0	365	378	391	400	403
42.5	340	354	369	381	386
45.0	314	330	349	363	370
47.5	289	306	328	347	355
50.0	264	283	309	332	344
52.5	240	260	290	319	334
55.0	217	238	272	307	325
57.5	192	218	256	298	319
60.0	172	198	241	289	314
62.5	151	180	227	282	309
65.0	132	163	215	276	305
67.5	115	147	203	270	299
70.0	98	132	193	263	292
72.5	82	118	183	255	282
75.0	68	105	174	245	269
77.5	54	94	164	232	254
80.0	42	83	155	219	238
82.5	32	74	144	202	219
85.0	22	64	133	186	198
87.5	12	54	121	168	178
90.0	4	46	110	151	160
92.5	3	43	103	140	147
95.0	2	41	98	130	136
97.5	2	40	92	120	126
100.0	1	38	87	112	116
102.5	1	36	82	105	108
105.0	1	35	78	98	101
107.5	1	32	74	92	94
110.0	1	30	70	87	89
112.5	1	27	67	83	85
115.0	1	25	63	79	81
117.5	0	21	59	75	78
120.0	1	18	55	72	75
122.5	0	16	51	68	72
125.0	0	13	46	64	68
127.5	0	11	42	59	64
130.0	1	8	38	55	60
132.5	0	6	34	51	55

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CANDELA TABULATION - (Cont.)

135.0	1	4	30	46	51
137.5	1	3	26	41	46
140.0	1	1	22	37	42
142.5	1	1	18	32	37
145.0	1	1	14	28	32
147.5	1	1	10	23	27
150.0	1	1	6	18	22
152.5	1	1	3	13	17
155.0	1	1	1	9	12
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	208.81	N.A.	10.20
0-30	440.97	N.A.	21.60
0-40	710.31	N.A.	34.90
0-60	1222.36	N.A.	60.00
0-80	1621.53	N.A.	79.60
0-90	1755.76	N.A.	86.20
10-90	1702.03	N.A.	83.50
20-40	501.50	N.A.	24.60
20-50	769.01	N.A.	37.70
40-70	728.61	N.A.	35.80
60-80	399.17	N.A.	19.60
70-80	182.61	N.A.	9.00
80-90	134.23	N.A.	6.60
90-110	161.99	N.A.	8.00
90-120	213.53	N.A.	10.50
90-130	248.92	N.A.	12.20
90-150	279.02	N.A.	13.70
90-180	281.67	N.A.	13.80
110-180	119.68	N.A.	5.90
0-180	2037.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.73
10-20	155.08
20-30	232.16
30-40	269.34
40-50	267.51
50-60	244.54
60-70	216.56
70-80	182.61
80-90	134.23
90-100	92.58
100-110	69.40
110-120	51.54
120-130	35.40
130-140	20.68
140-150	9.42
150-160	2.26
160-170	0.29
170-180	0.10

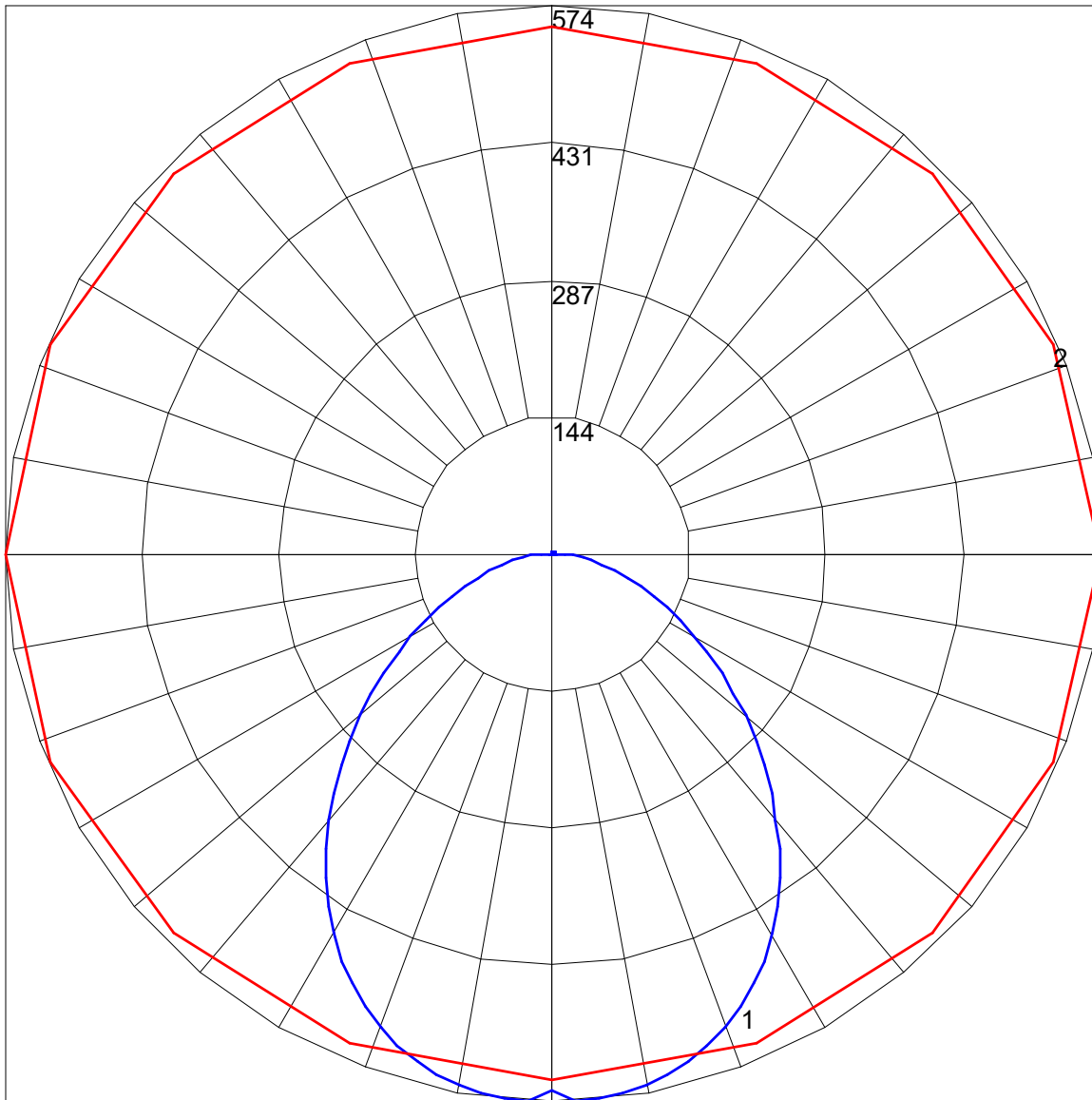
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 574 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.)