



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-2-20L-835.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-835
 [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] 3500

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	5998	4809	4775
55	4880	4026	4421
65	3737	3528	4526
75	2754	3335	4561
85	1557	3182	4055

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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	526	526	526	526	526
2.5	538	534	527	521	518
5.0	537	534	528	522	520
7.5	535	532	527	522	521
10.0	530	528	525	521	520
12.5	524	523	522	518	517
15.0	516	516	516	513	512
17.5	506	508	509	506	505
20.0	495	498	499	498	497
22.5	482	486	487	487	487
25.0	466	471	474	474	474
27.5	450	456	459	460	460
30.0	431	437	443	445	445
32.5	411	419	425	428	429
35.0	388	398	406	410	412
37.5	365	376	386	392	394
40.0	342	354	366	374	378
42.5	318	331	346	356	362
45.0	294	309	326	340	346
47.5	270	287	307	325	333
50.0	247	265	289	311	322
52.5	225	244	272	299	312
55.0	203	223	255	288	304
57.5	180	204	240	279	298
60.0	161	185	226	271	294
62.5	142	168	213	264	289
65.0	123	152	201	258	285
67.5	107	138	190	253	280
70.0	92	124	180	246	274
72.5	77	110	171	239	264
75.0	64	98	163	229	252
77.5	51	88	154	218	238
80.0	40	78	145	205	222
82.5	30	69	135	189	205
85.0	20	60	125	174	186
87.5	11	51	114	157	167
90.0	4	43	103	141	150
92.5	3	40	97	131	138
95.0	2	39	92	121	127
97.5	2	37	86	112	118
100.0	1	36	81	105	109
102.5	1	34	77	98	101
105.0	1	32	73	92	94
107.5	1	30	69	86	88
110.0	1	28	65	81	84
112.5	1	26	62	77	80
115.0	1	23	59	74	76
117.5	0	20	55	71	73
120.0	1	17	51	67	70
122.5	0	15	48	63	67
125.0	0	13	43	60	63
127.5	0	10	40	55	60
130.0	1	8	36	52	56
132.5	0	5	31	48	52

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CANDELA TABULATION - (Cont.)

135.0	1	4	28	43	48
137.5	1	3	24	39	43
140.0	1	1	20	35	39
142.5	1	1	17	30	35
145.0	1	1	13	26	30
147.5	1	1	9	21	26
150.0	1	1	6	17	21
152.5	1	1	3	13	16
155.0	1	1	1	8	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	195.46	N.A.	10.20
0-30	412.83	N.A.	21.60
0-40	665.04	N.A.	34.90
0-60	1144.53	N.A.	60.00
0-80	1518.21	N.A.	79.60
0-90	1643.96	N.A.	86.20
10-90	1593.67	N.A.	83.50
20-40	469.58	N.A.	24.60
20-50	719.99	N.A.	37.70
40-70	682.16	N.A.	35.80
60-80	373.68	N.A.	19.60
70-80	171.02	N.A.	9.00
80-90	125.75	N.A.	6.60
90-110	151.57	N.A.	7.90
90-120	199.79	N.A.	10.50
90-130	232.94	N.A.	12.20
90-150	261.14	N.A.	13.70
90-180	263.72	N.A.	13.80
110-180	112.15	N.A.	5.90
0-180	1907.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.30
10-20	145.17
20-30	217.37
30-40	252.21
40-50	250.42
50-60	229.07
60-70	202.67
70-80	171.02
80-90	125.75
90-100	86.67
100-110	64.91
110-120	48.21
120-130	33.16
130-140	19.38
140-150	8.82
150-160	2.19
160-170	0.29
170-180	0.10

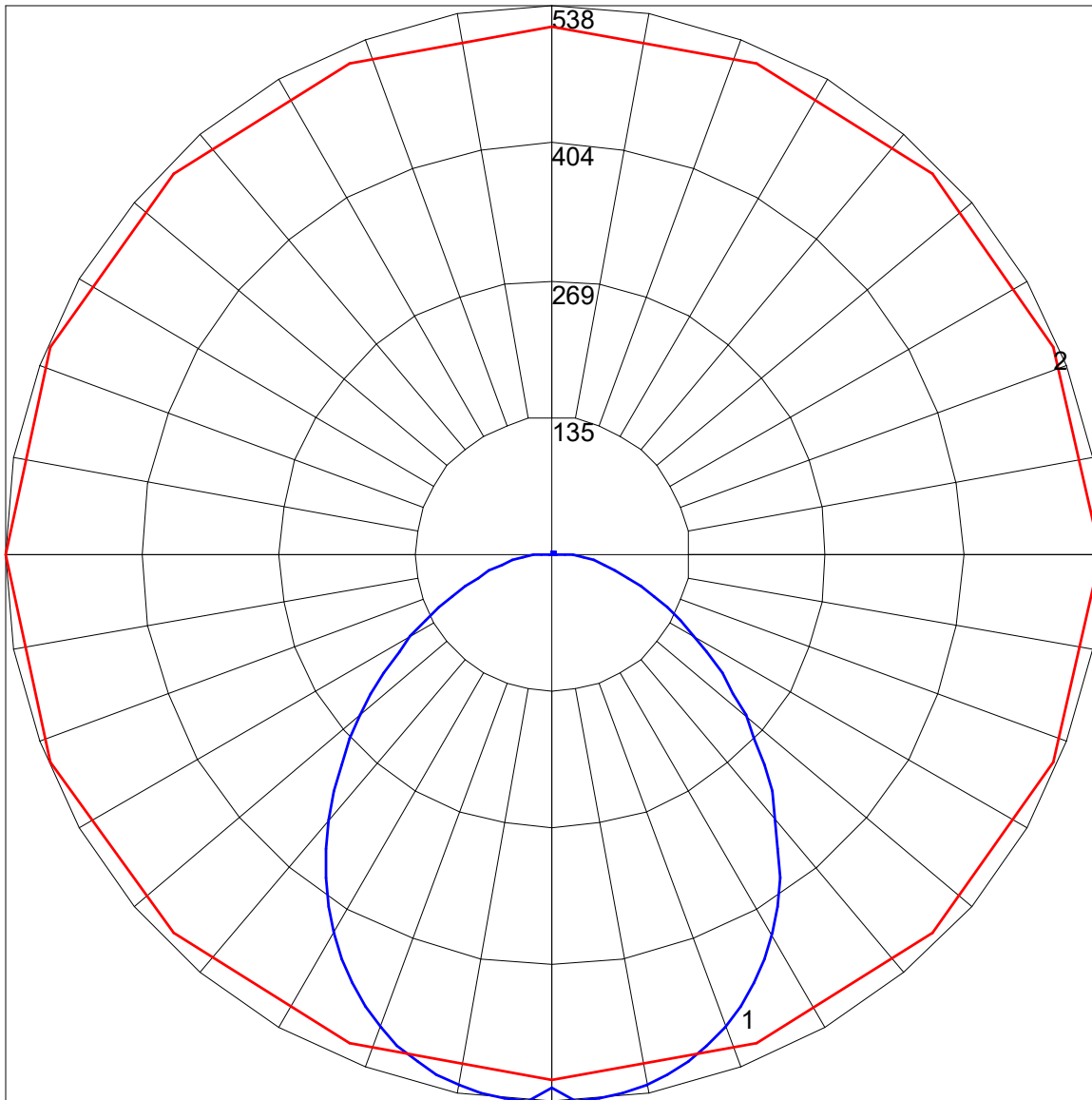
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	37	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 = 538 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.)