



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SW-2-20L-840.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-840
[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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1968
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	6181	4971	4927
55	5024	4152	4567
65	3858	3633	4669
75	2840	3437	4705
85	1635	3283	4186

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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	543	543	543	543	543
2.5	555	551	544	537	535
5.0	554	551	545	539	537
7.5	552	549	544	539	538
10.0	547	545	542	538	537
12.5	541	540	538	535	533
15.0	532	533	532	530	529
17.5	522	524	525	523	522
20.0	511	514	515	513	513
22.5	497	501	503	502	502
25.0	481	486	489	489	489
27.5	464	470	474	475	475
30.0	444	451	457	459	459
32.5	424	432	439	442	443
35.0	400	410	419	423	425
37.5	376	388	398	405	407
40.0	353	365	377	386	390
42.5	328	342	357	368	373
45.0	303	319	337	351	357
47.5	279	296	317	335	343
50.0	255	273	299	321	332
52.5	232	252	280	308	322
55.0	209	230	263	297	314
57.5	186	211	247	288	308
60.0	166	191	233	280	303
62.5	146	174	220	273	299
65.0	127	157	207	267	294
67.5	111	142	196	261	289
70.0	94	128	186	254	282
72.5	79	114	177	246	272
75.0	66	102	168	236	260
77.5	52	91	159	225	246
80.0	41	80	150	211	229
82.5	31	71	139	195	211
85.0	21	62	129	179	192
87.5	11	52	117	163	172
90.0	4	44	106	146	155
92.5	3	42	100	135	142
95.0	2	40	94	125	131
97.5	2	38	89	116	121
100.0	1	37	84	108	112
102.5	1	35	79	101	104
105.0	1	33	75	94	97
107.5	1	31	71	89	91
110.0	1	29	67	84	86
112.5	1	26	64	80	82
115.0	1	24	60	76	78
117.5	0	21	57	73	75
120.0	1	18	53	69	72
122.5	0	15	49	65	69
125.0	0	13	45	62	65
127.5	0	10	41	57	62
130.0	1	8	37	53	58
132.5	0	5	32	49	53

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CANDELA TABULATION - (Cont.)

135.0	1	4	29	45	49
137.5	1	3	25	40	45
140.0	1	1	21	36	40
142.5	1	1	17	31	36
145.0	1	1	13	27	31
147.5	1	1	10	22	26
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	201.75	N.A.	10.30
0-30	426.00	N.A.	21.60
0-40	686.21	N.A.	34.90
0-60	1180.96	N.A.	60.00
0-80	1566.66	N.A.	79.60
0-90	1696.28	N.A.	86.20
10-90	1644.36	N.A.	83.60
20-40	484.46	N.A.	24.60
20-50	742.90	N.A.	37.70
40-70	703.99	N.A.	35.80
60-80	385.70	N.A.	19.60
70-80	176.47	N.A.	9.00
80-90	129.62	N.A.	6.60
90-110	156.20	N.A.	7.90
90-120	205.87	N.A.	10.50
90-130	240.01	N.A.	12.20
90-150	269.06	N.A.	13.70
90-180	271.70	N.A.	13.80
110-180	115.50	N.A.	5.90
0-180	1967.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.92
10-20	149.83
20-30	224.25
30-40	260.21
40-50	258.44
50-60	236.32
60-70	209.23
70-80	176.47
80-90	129.62
90-100	89.36
100-110	66.84
110-120	49.67
120-130	34.14
130-140	19.94
140-150	9.10
150-160	2.26
160-170	0.29
170-180	0.10

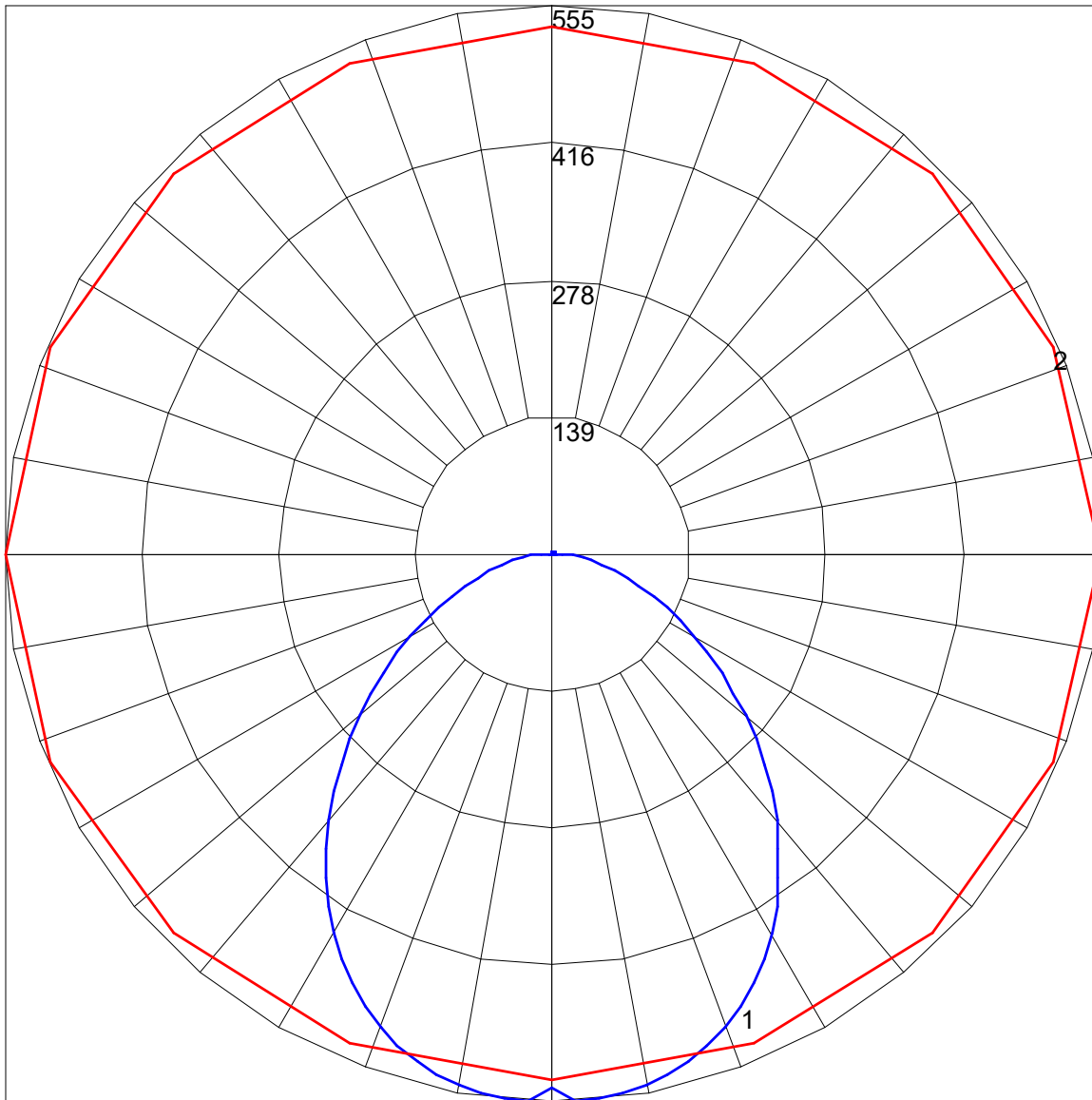
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 555 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.)