



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SW-4-35L-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  
[MANUFACT] LSI INDUSTRIES, INC.  
[LUMCAT] SW-4-35L-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	3339
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	26
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	5629	4297	4021
55	4738	3643	3713
65	3773	3208	3768
75	2844	3044	3756
85	1674	2916	3377

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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	909	909	909	909	909
2.5	932	917	910	903	896
5.0	931	917	911	906	900
7.5	928	916	912	907	902
10.0	922	911	909	905	900
12.5	913	904	903	901	895
15.0	902	895	894	892	886
17.5	886	881	881	880	876
20.0	869	867	867	864	861
22.5	847	848	849	845	841
25.0	824	827	828	825	819
27.5	797	803	804	800	794
30.0	767	775	778	774	768
32.5	734	744	748	745	738
35.0	698	712	716	714	709
37.5	661	675	683	684	679
40.0	622	637	650	653	651
42.5	577	599	616	624	624
45.0	535	561	581	595	598
47.5	494	522	548	570	575
50.0	453	485	516	545	556
52.5	413	447	486	523	537
55.0	374	411	457	503	524
57.5	336	377	429	486	513
60.0	299	342	404	472	504
62.5	264	308	381	459	495
65.0	228	280	359	448	487
67.5	197	251	340	438	478
70.0	166	225	321	425	465
72.5	139	201	305	412	448
75.0	114	179	289	394	426
77.5	92	160	273	375	404
80.0	71	140	257	351	377
82.5	51	124	238	326	347
85.0	31	106	219	299	318
87.5	16	90	198	270	286
90.0	2	75	179	241	255
92.5	0	71	168	222	234
95.0	0	68	159	206	216
97.5	0	65	150	192	199
100.0	0	63	140	177	185
102.5	0	60	132	165	172
105.0	0	56	124	156	161
107.5	0	53	117	146	152
110.0	0	50	112	137	143
112.5	0	45	105	130	135
115.0	0	39	99	125	130
117.5	0	34	93	119	125
120.0	1	29	87	114	119
122.5	1	25	80	108	114
125.0	0	20	73	100	108
127.5	1	16	67	93	101
130.0	1	12	59	87	94
132.5	1	9	53	80	88

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CANDELA TABULATION - (Cont.)

135.0	1	4	47	73	81
137.5	1	1	40	65	73
140.0	1	1	33	57	66
142.5	1	1	27	51	57
145.0	1	1	21	43	51
147.5	1	1	15	35	42
150.0	1	1	9	28	33
152.5	1	1	3	19	26
155.0	1	1	1	13	18
157.5	1	1	1	5	10
160.0	1	1	1	1	2
162.5	1	1	1	1	0
165.0	1	1	1	1	0
167.5	1	1	1	1	0
170.0	1	1	1	1	0
172.5	1	1	1	1	0
175.0	1	1	1	1	0
177.5	1	1	1	1	0
180.0	1	1	1	1	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	339.00	N.A.	10.20
0-30	718.71	N.A.	21.50
0-40	1163.38	N.A.	34.80
0-60	2017.34	N.A.	60.40
0-80	2675.25	N.A.	80.10
0-90	2892.82	N.A.	86.60
10-90	2805.82	N.A.	84.00
20-40	824.38	N.A.	24.70
20-50	1269.79	N.A.	38.00
40-70	1212.74	N.A.	36.30
60-80	657.91	N.A.	19.70
70-80	299.14	N.A.	9.00
80-90	217.57	N.A.	6.50
90-110	258.98	N.A.	7.80
90-120	340.64	N.A.	10.20
90-130	396.46	N.A.	11.90
90-150	443.00	N.A.	13.30
90-180	446.50	N.A.	13.40
110-180	187.52	N.A.	5.60
0-180	3339.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.00
10-20	252.00
20-30	379.71
30-40	444.67
40-50	445.41
50-60	408.55
60-70	358.78
70-80	299.14
80-90	217.57
90-100	148.26
100-110	110.72
110-120	81.66
120-130	55.82
130-140	32.14
140-150	14.40
150-160	3.15
160-170	0.26
170-180	0.08

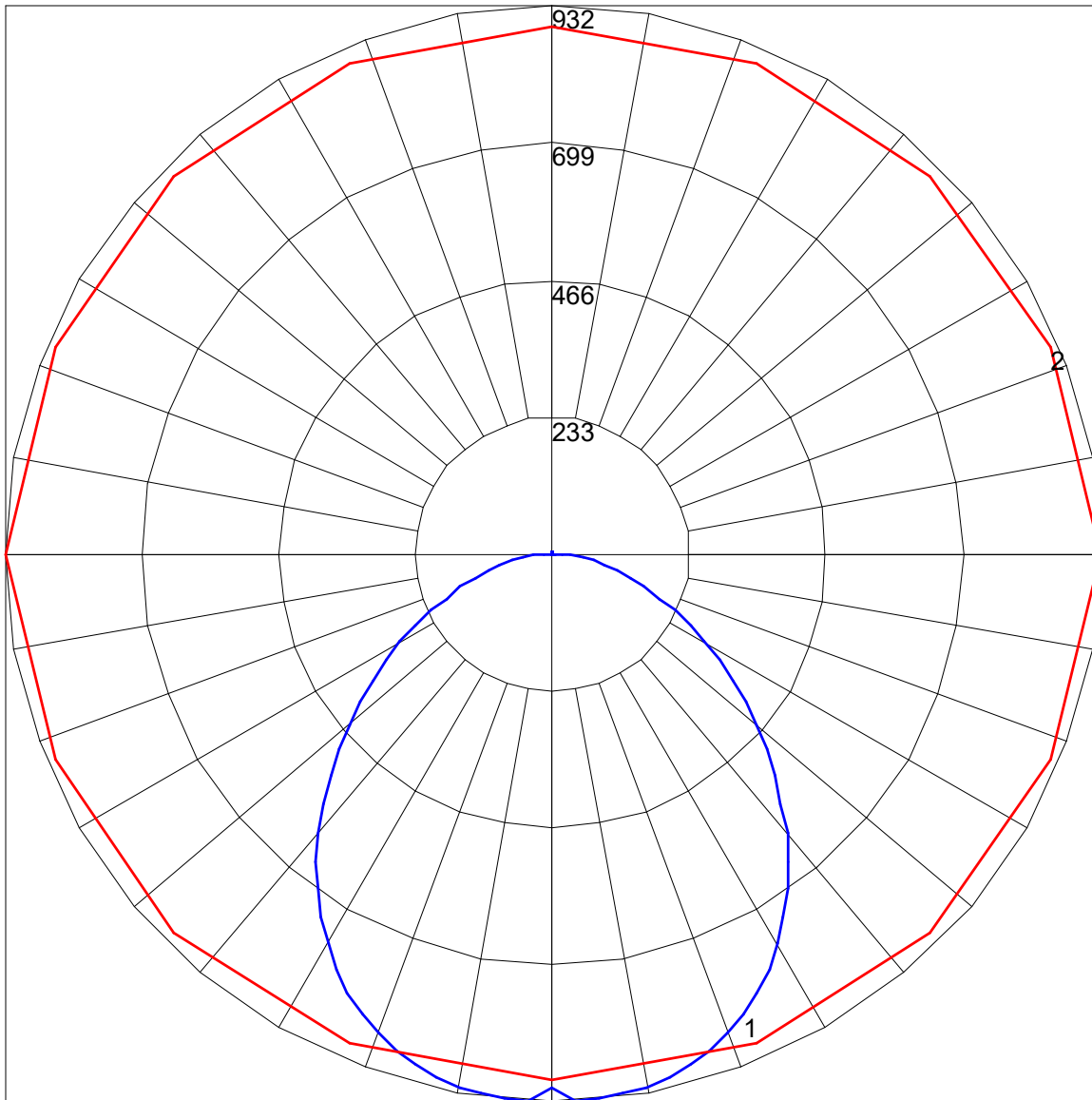
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	74	65	58	81	71	63	56	66	59	54	61	56	51	57	53	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 = 932 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.)