



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S8-LED-140L-50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9762\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE]DATE]6/12/2018  
[TEST]DATE]02/23/18  
[MANUFAC]LSI INDUSTRIES, INC  
[LUMCAT]S8-LED-140L-50  
[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[\_SEARCH\_SOURCE]TYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14907
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	94.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27083	26762	26537
55	27071	26695	26378
65	25909	25399	25049
75	22821	22207	21943
85	15900	17333	17073

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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	4577.744	4577.744	4577.744	4577.744	4577.744
2.5	4632.668	4588.306	4569.294	4571.407	4588.306
5.0	4636.893	4590.419	4573.519	4577.744	4592.531
7.5	4630.556	4586.194	4567.182	4575.632	4588.306
10.0	4619.994	4575.632	4556.619	4565.069	4575.632
12.5	4603.094	4556.619	4537.607	4546.057	4556.619
15.0	4577.744	4533.382	4514.370	4518.595	4529.157
17.5	4539.719	4501.695	4482.682	4484.795	4493.245
20.0	4495.357	4459.445	4442.545	4442.545	4450.995
22.5	4442.545	4408.746	4393.958	4391.846	4400.296
25.0	4381.283	4351.709	4336.921	4332.696	4341.146
27.5	4315.796	4281.997	4273.547	4262.984	4269.322
30.0	4233.410	4203.835	4195.385	4184.823	4189.048
32.5	4148.911	4119.336	4106.661	4091.874	4098.211
35.0	4051.736	4022.162	4009.487	3990.475	4003.149
37.5	3941.888	3916.538	3901.750	3882.738	3893.301
40.0	3823.589	3800.351	3785.564	3764.439	3766.552
42.5	3696.840	3673.603	3658.815	3629.241	3637.690
45.0	3561.641	3529.954	3519.392	3483.479	3489.817
47.5	3411.655	3382.080	3369.405	3327.156	3339.831
50.0	3251.107	3223.644	3204.632	3166.607	3177.170
52.5	3077.883	3048.309	3035.634	2993.384	3001.834
55.0	2887.760	2856.073	2847.623	2809.598	2813.823
57.5	2680.737	2665.950	2646.937	2617.363	2621.588
60.0	2473.714	2465.264	2433.577	2406.115	2412.452
62.5	2260.354	2254.016	2218.104	2192.754	2186.417
65.0	2036.431	2036.431	1996.294	1962.494	1968.831
67.5	1808.283	1808.283	1768.146	1736.458	1730.121
70.0	1575.910	1575.910	1529.435	1501.973	1501.973
72.5	1332.975	1332.975	1297.063	1280.163	1278.050
75.0	1098.490	1085.815	1068.915	1060.465	1056.240
77.5	859.779	849.217	840.767	840.767	844.992
80.0	640.081	633.744	635.856	640.081	631.631
82.5	435.171	437.283	447.846	445.733	447.846
85.0	257.723	268.285	280.960	272.510	276.735
87.5	116.186	126.749	137.311	130.974	135.199
90.0	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1718.15	N.A.	11.50
0-30	3722.85	N.A.	25.00
0-40	6233.74	N.A.	41.80
0-60	11479.72	N.A.	77.00
0-80	14590.23	N.A.	97.90
0-90	14906.81	N.A.	100.00
10-90	14469.32	N.A.	97.10
20-40	4515.59	N.A.	30.30
20-50	7225.74	N.A.	48.50
40-70	7220.27	N.A.	48.40
60-80	3110.5	N.A.	20.90
70-80	1136.21	N.A.	7.60
80-90	316.59	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	14906.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	437.49
10-20	1280.66
20-30	2004.7
30-40	2510.89
40-50	2710.14
50-60	2535.84
60-70	1974.29
70-80	1136.21
80-90	316.59
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

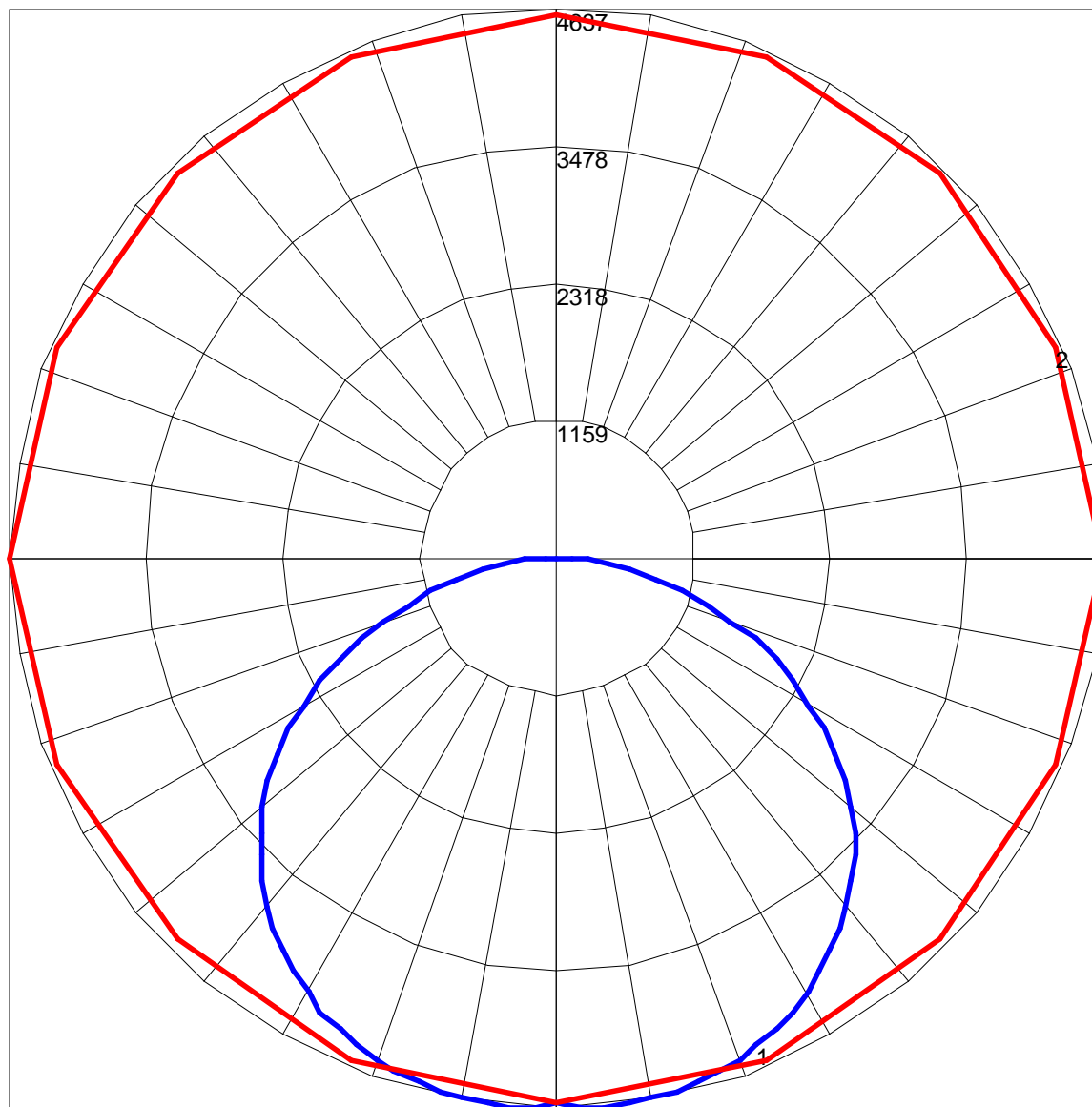
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

POLAR GRAPH



Maximum Candela = 4636.893 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)