



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S8-LED-180L-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  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S8-LED-180L-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\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19201
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	126.3
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	34884	34471	34181
55	34869	34384	33976
65	33372	32715	32265
75	29394	28603	28264
85	20480	22326	21990

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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	5896.364	5896.364	5896.364	5896.364	5896.364
2.5	5967.109	5909.968	5885.480	5888.201	5909.968
5.0	5972.551	5912.689	5890.922	5896.364	5915.410
7.5	5964.388	5907.247	5882.759	5893.643	5909.968
10.0	5950.783	5893.643	5869.154	5880.038	5893.643
12.5	5929.015	5869.154	5844.665	5855.549	5869.154
15.0	5896.364	5839.223	5814.734	5820.176	5833.781
17.5	5847.386	5798.408	5773.919	5776.640	5787.524
20.0	5790.245	5743.989	5722.221	5722.221	5733.105
22.5	5722.221	5678.685	5659.638	5656.917	5667.801
25.0	5643.312	5605.219	5586.172	5580.730	5591.614
27.5	5558.962	5515.426	5504.542	5490.937	5499.100
30.0	5452.844	5414.750	5403.866	5390.261	5395.703
32.5	5344.005	5305.911	5289.585	5270.538	5278.701
35.0	5218.840	5180.746	5164.420	5139.931	5156.257
37.5	5077.349	5044.697	5025.650	5001.161	5014.766
40.0	4924.974	4895.043	4875.996	4848.786	4851.507
42.5	4761.715	4731.784	4712.737	4674.644	4685.527
45.0	4587.572	4546.757	4533.153	4486.896	4495.059
47.5	4394.383	4356.289	4339.963	4285.543	4301.869
50.0	4187.588	4152.215	4127.727	4078.749	4092.354
52.5	3964.468	3926.374	3910.048	3855.629	3866.512
55.0	3719.580	3678.765	3667.881	3618.903	3624.345
57.5	3452.924	3433.877	3409.388	3371.294	3376.736
60.0	3186.267	3175.384	3134.569	3099.196	3107.359
62.5	2911.449	2903.286	2857.029	2824.377	2816.214
65.0	2623.025	2623.025	2571.326	2527.790	2535.953
67.5	2329.159	2329.159	2277.460	2236.646	2228.483
70.0	2029.851	2029.851	1969.989	1934.617	1934.617
72.5	1716.938	1716.938	1670.682	1648.914	1646.193
75.0	1414.910	1398.584	1376.816	1365.932	1360.490
77.5	1107.439	1093.834	1082.950	1082.950	1088.392
80.0	824.457	816.294	819.015	824.457	813.573
82.5	560.522	563.243	576.848	574.127	576.848
85.0	331.960	345.564	361.890	351.006	356.448
87.5	149.654	163.259	176.864	168.701	174.143
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	2213.06	N.A.	11.50
0-30	4795.22	N.A.	25.00
0-40	8029.38	N.A.	41.80
0-60	14786.46	N.A.	77.00
0-80	18792.94	N.A.	97.90
0-90	19200.72	N.A.	100.00
10-90	18637.21	N.A.	97.10
20-40	5816.31	N.A.	30.30
20-50	9307.11	N.A.	48.50
40-70	9300.07	N.A.	48.40
60-80	4006.49	N.A.	20.90
70-80	1463.5	N.A.	7.60
80-90	407.78	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	19200.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	563.51
10-20	1649.55
20-30	2582.15
30-40	3234.16
40-50	3490.8
50-60	3266.28
60-70	2542.99
70-80	1463.5
80-90	407.78
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

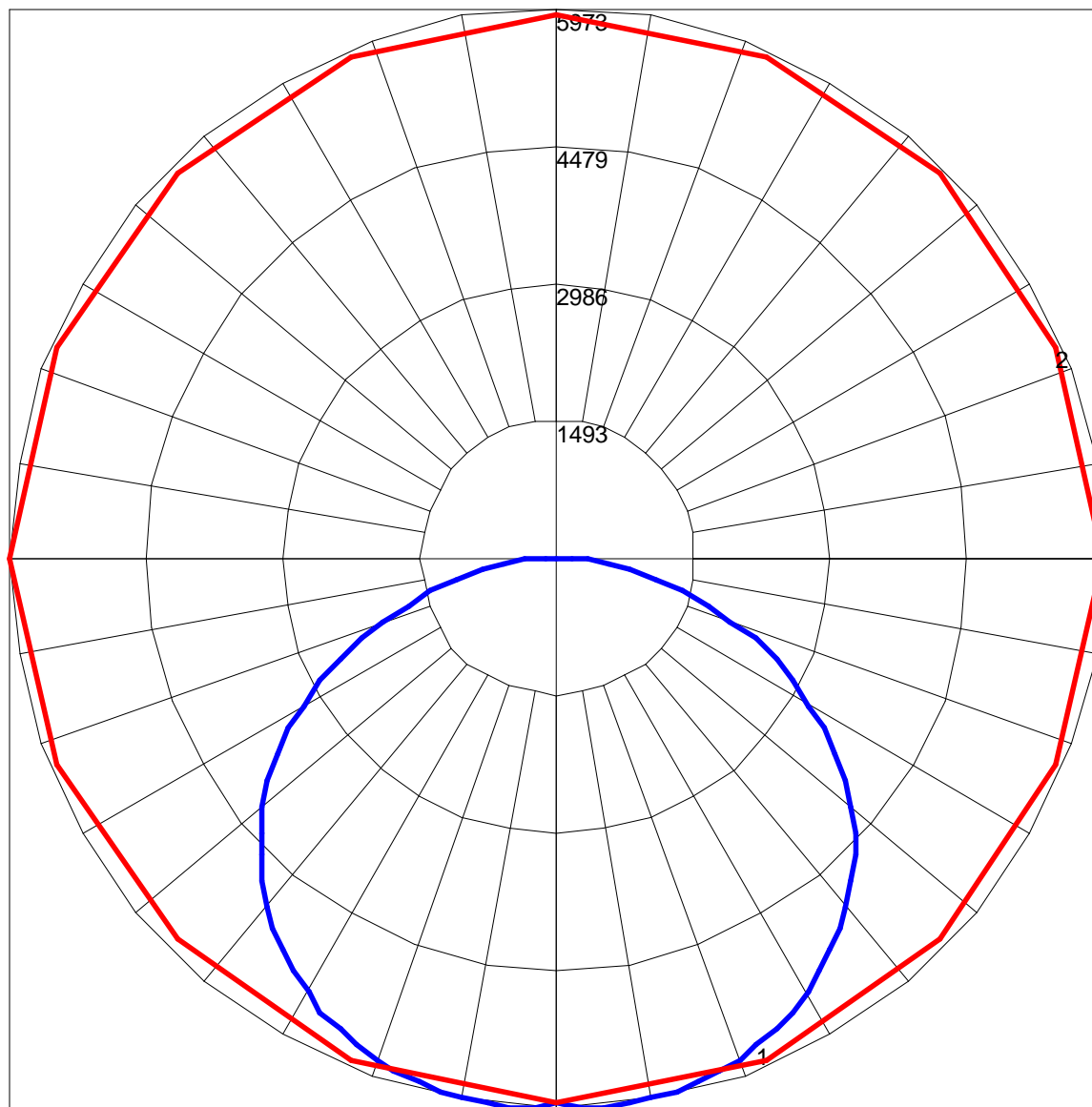
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 5972.551 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.)