



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S4-LED-80L-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9752\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]02/22/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S4-LED-80L-35  
[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	7884
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	55.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.42
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 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	29233	28162	27507
55	29360	28112	27305
65	28491	26598	26000
75	25213	23586	23261
85	17873	18839	18839

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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	2403.749	2403.749	2403.749	2403.749	2403.749
2.5	2478.132	2419.408	2399.834	2380.259	2360.685
5.0	2482.047	2423.323	2403.749	2384.174	2360.685
7.5	2474.217	2419.408	2395.919	2376.344	2352.855
10.0	2470.302	2415.493	2388.089	2372.429	2348.940
12.5	2466.387	2407.664	2384.174	2364.600	2341.110
15.0	2454.642	2399.834	2372.429	2352.855	2333.280
17.5	2435.068	2384.174	2356.770	2333.280	2313.706
20.0	2415.493	2360.685	2333.280	2309.791	2294.131
22.5	2388.089	2337.195	2309.791	2286.302	2270.642
25.0	2360.685	2313.706	2278.472	2258.897	2239.323
27.5	2329.366	2282.387	2247.153	2227.578	2208.004
30.0	2286.302	2243.238	2208.004	2184.514	2164.940
32.5	2239.323	2196.259	2157.110	2137.535	2117.961
35.0	2188.429	2141.450	2106.216	2086.642	2067.067
37.5	2129.706	2090.557	2051.408	2031.833	2008.344
40.0	2074.897	2027.918	1988.769	1969.195	1953.535
42.5	2000.514	1961.365	1922.216	1902.641	1886.982
45.0	1922.216	1886.982	1851.748	1828.258	1808.684
47.5	1840.003	1804.769	1773.450	1753.875	1734.301
50.0	1753.875	1718.641	1683.407	1667.747	1652.088
52.5	1659.918	1624.684	1593.364	1569.875	1562.045
55.0	1565.960	1530.726	1499.407	1472.002	1456.343
57.5	1464.173	1428.939	1393.704	1362.385	1350.641
60.0	1358.470	1319.321	1288.002	1256.683	1248.853
62.5	1241.023	1213.619	1162.725	1139.236	1135.321
65.0	1119.661	1088.342	1045.278	1021.789	1021.789
67.5	994.385	970.895	931.746	912.172	908.257
70.0	865.193	837.789	810.384	794.725	786.895
72.5	736.001	716.427	692.937	681.193	677.278
75.0	606.810	583.320	567.661	559.831	559.831
77.5	485.448	461.958	458.043	446.299	450.214
80.0	368.001	348.426	348.426	336.681	340.596
82.5	250.554	238.809	242.724	234.894	234.894
85.0	144.851	148.766	152.681	144.851	152.681
87.5	58.724	66.553	74.383	70.468	70.468
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	901.75	N.A.	11.40
0-30	1957.44	N.A.	24.80
0-40	3282.09	N.A.	41.60
0-60	6055.76	N.A.	76.80
0-80	7712.14	N.A.	97.80
0-90	7883.81	N.A.	100.00
10-90	7654.48	N.A.	97.10
20-40	2380.34	N.A.	30.20
20-50	3813.13	N.A.	48.40
40-70	3820.03	N.A.	48.50
60-80	1656.38	N.A.	21.00
70-80	610.02	N.A.	7.70
80-90	171.67	N.A.	2.20
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	7883.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	229.33
10-20	672.42
20-30	1055.69
30-40	1324.65
40-50	1432.79
50-60	1340.89
60-70	1046.36
70-80	610.02
80-90	171.67
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

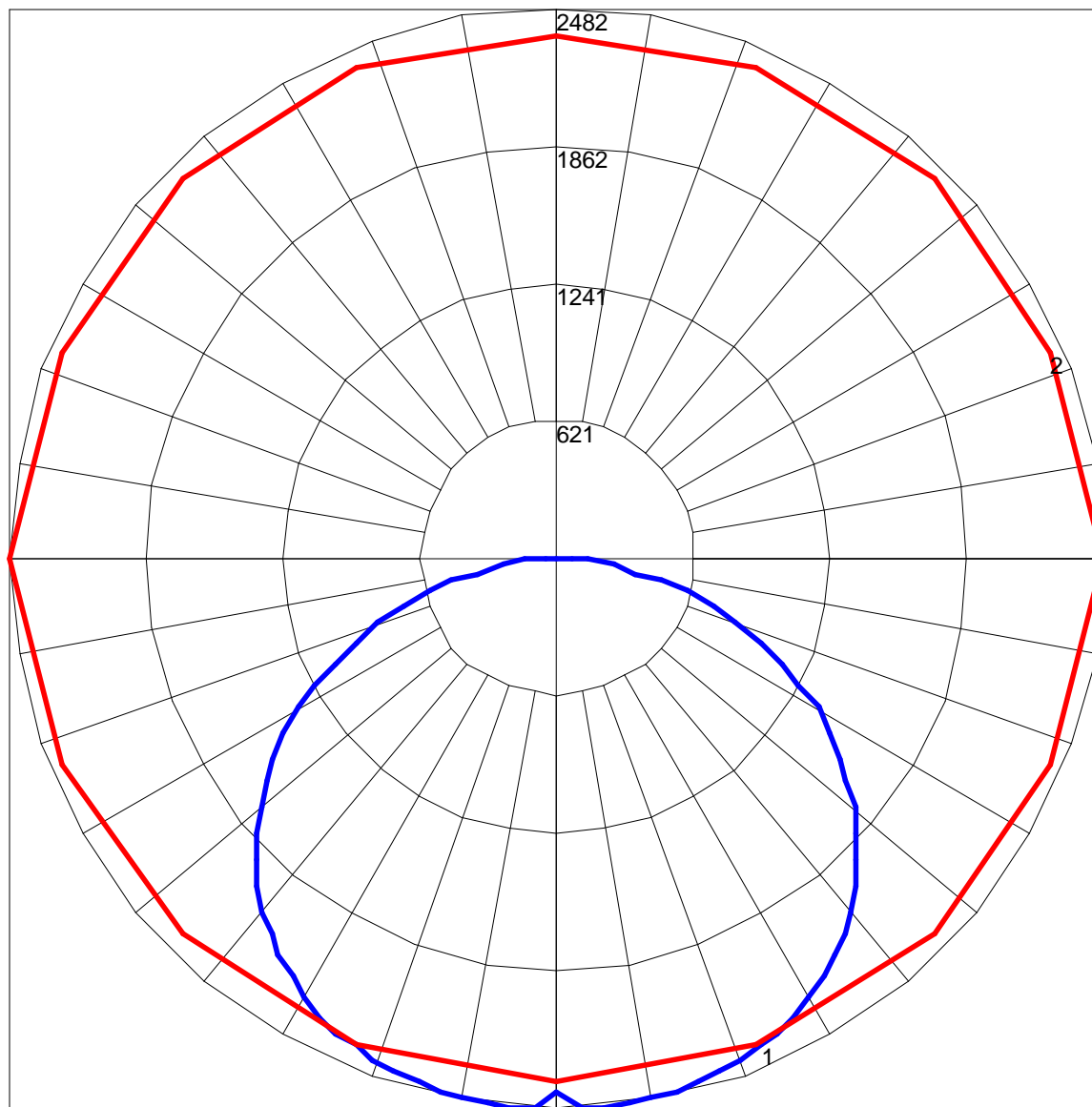
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 2482.047 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.)