



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S2-LED-20L-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-9759\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]6/12/2018  
[TEST DATE]02/22/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]S2-LED-20L-30  
[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	1949
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	14.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	14391	13923	13689
55	14472	13895	13511
65	14030	13182	12855
75	12786	11721	11508
85	9493	9493	9176

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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	593.677	593.677	593.677	593.677	593.677
2.5	609.064	601.371	594.959	585.984	580.855
5.0	610.346	602.653	594.959	585.984	580.855
7.5	609.064	601.371	593.677	585.984	580.855
10.0	607.782	601.371	592.395	584.701	580.855
12.5	606.500	598.806	589.830	582.137	577.008
15.0	603.935	596.242	588.548	579.572	575.726
17.5	598.806	591.113	583.419	575.726	570.597
20.0	594.959	587.266	579.572	570.597	568.032
22.5	588.548	582.137	573.161	565.468	560.339
25.0	582.137	574.444	566.750	557.774	553.928
27.5	574.444	566.750	559.057	550.081	547.516
30.0	562.903	556.492	548.799	539.823	535.976
32.5	551.363	544.952	535.976	528.283	524.436
35.0	538.541	532.130	523.154	515.460	511.614
37.5	525.718	518.025	507.767	501.356	500.074
40.0	510.332	501.356	492.380	485.969	484.687
42.5	489.816	483.404	475.711	469.300	468.018
45.0	473.147	465.453	457.760	452.631	450.066
47.5	451.348	444.937	437.244	432.115	430.833
50.0	430.833	423.139	416.728	410.317	409.035
52.5	409.035	401.341	394.930	387.236	385.954
55.0	385.954	378.261	370.567	362.874	360.309
57.5	359.027	352.616	344.923	335.947	333.382
60.0	333.382	326.971	315.431	309.020	306.455
62.5	305.173	298.762	287.222	280.811	279.528
65.0	275.682	269.270	259.012	253.884	252.601
67.5	246.190	238.497	228.239	225.674	224.392
70.0	215.416	207.723	197.465	196.183	194.900
72.5	184.643	176.949	167.973	166.691	166.691
75.0	153.869	144.893	141.046	138.482	138.482
77.5	123.095	114.119	111.555	110.273	110.273
80.0	93.604	85.910	84.628	83.346	83.346
82.5	62.830	60.265	60.265	58.983	57.701
85.0	38.467	37.185	38.467	35.903	37.185
87.5	16.669	17.951	19.234	17.951	19.234
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	223.00	N.A.	11.40
0-30	484.57	N.A.	24.90
0-40	812.49	N.A.	41.70
0-60	1497.06	N.A.	76.80
0-80	1905.79	N.A.	97.80
0-90	1948.87	N.A.	100.00
10-90	1892.16	N.A.	97.10
20-40	589.49	N.A.	30.20
20-50	943.17	N.A.	48.40
40-70	942.67	N.A.	48.40
60-80	408.73	N.A.	21.00
70-80	150.63	N.A.	7.70
80-90	43.08	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	1948.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	56.71
10-20	166.30
20-30	261.57
30-40	327.92
40-50	353.69
50-60	330.88
60-70	258.10
70-80	150.63
80-90	43.08
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

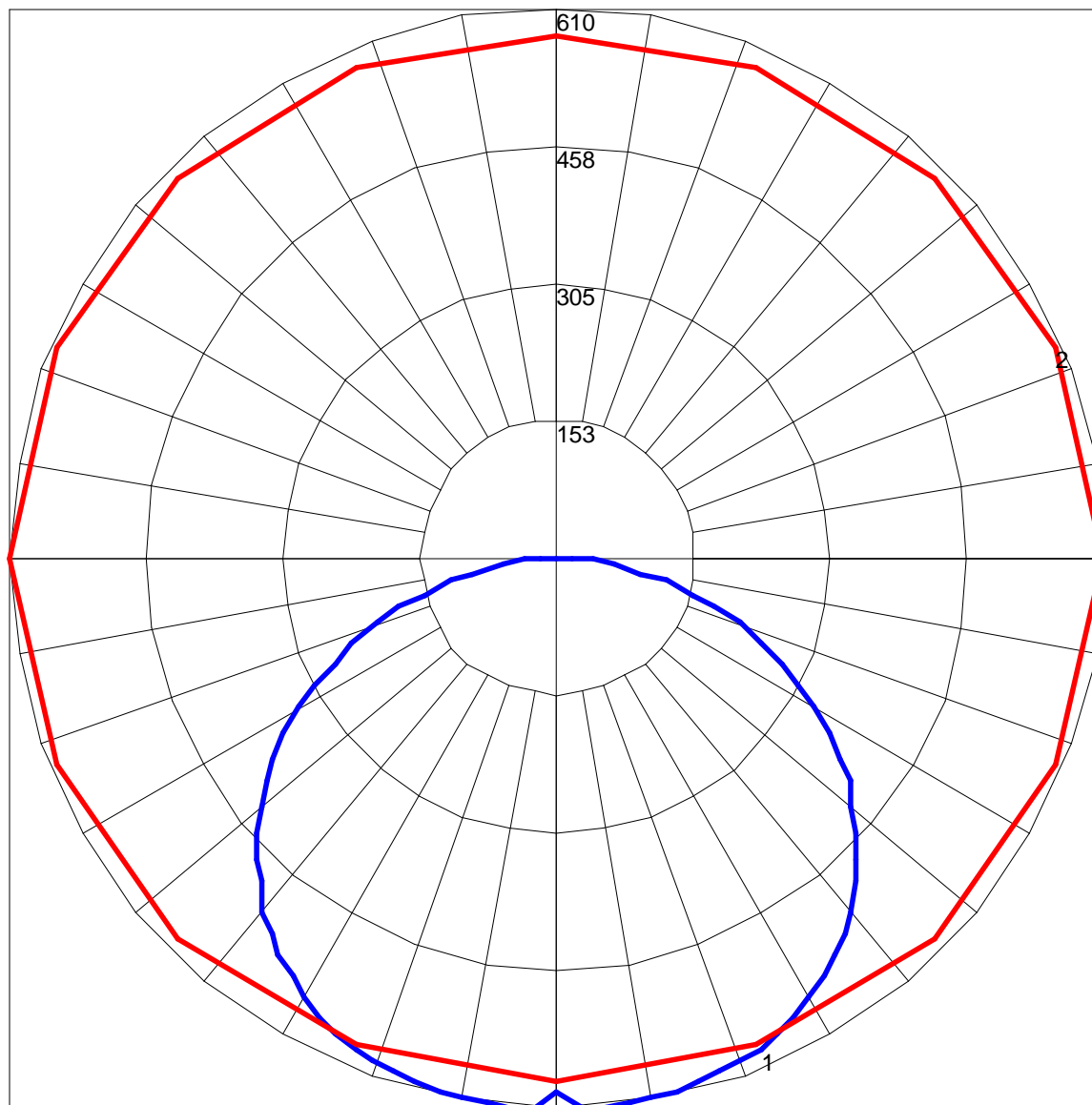
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	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	37	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	38	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 = 610.346 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.)