



IES INDOOR REPORT
PHOTOMETRIC FILENAME : S2-LED-20L-50.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
[LUMEN CATEGORY]S2-LED-20L-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	2142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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	15820	15306	15048
55	15909	15275	14852
65	15423	14490	14131
75	14056	12884	12650
85	10435	10435	10087

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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	652.617	652.617	652.617	652.617	652.617
2.5	669.532	661.074	654.027	644.160	638.522
5.0	670.941	662.484	654.027	644.160	638.522
7.5	669.532	661.074	652.617	644.160	638.522
10.0	668.122	661.074	651.208	642.750	638.522
12.5	666.712	658.255	648.388	639.931	634.293
15.0	663.893	655.436	646.979	637.112	632.883
17.5	658.255	649.798	641.341	632.883	627.245
20.0	654.027	645.569	637.112	627.245	624.426
22.5	646.979	639.931	630.064	621.607	615.969
25.0	639.931	631.474	623.017	613.150	608.921
27.5	631.474	623.017	614.559	604.693	601.874
30.0	618.788	611.740	603.283	593.416	589.188
32.5	606.102	599.055	589.188	580.731	576.502
35.0	592.007	584.959	575.092	566.635	562.406
37.5	577.911	569.454	558.178	551.130	549.721
40.0	560.997	551.130	541.263	534.216	532.806
42.5	538.444	531.397	522.939	515.892	514.482
45.0	520.120	511.663	503.206	497.568	494.749
47.5	496.158	489.110	480.653	475.015	473.605
50.0	473.605	465.148	458.101	451.053	449.643
52.5	449.643	441.186	434.138	425.681	424.272
55.0	424.272	415.814	407.357	398.900	396.081
57.5	394.671	387.624	379.166	369.299	366.480
60.0	366.480	359.433	346.747	339.699	336.880
62.5	335.471	328.423	315.737	308.689	307.280
65.0	303.051	296.003	284.727	279.089	277.679
67.5	270.632	262.174	250.898	248.079	246.670
70.0	236.803	228.345	217.069	215.660	214.250
72.5	202.974	194.517	184.650	183.240	183.240
75.0	169.145	159.278	155.049	152.230	152.230
77.5	135.316	125.449	122.630	121.220	121.220
80.0	102.896	94.439	93.030	91.620	91.620
82.5	69.067	66.248	66.248	64.839	63.429
85.0	42.286	40.877	42.286	39.467	40.877
87.5	18.324	19.734	21.143	19.734	21.143
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	245.14	N.A.	11.40
0-30	532.68	N.A.	24.90
0-40	893.15	N.A.	41.70
0-60	1645.69	N.A.	76.80
0-80	2094.99	N.A.	97.80
0-90	2142.35	N.A.	100.00
10-90	2080.02	N.A.	97.10
20-40	648.01	N.A.	30.20
20-50	1036.81	N.A.	48.40
40-70	1036.26	N.A.	48.40
60-80	449.31	N.A.	21.00
70-80	165.58	N.A.	7.70
80-90	47.36	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	2142.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.34
10-20	182.81
20-30	287.53
30-40	360.48
40-50	388.80
50-60	363.73
60-70	283.72
70-80	165.58
80-90	47.36
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

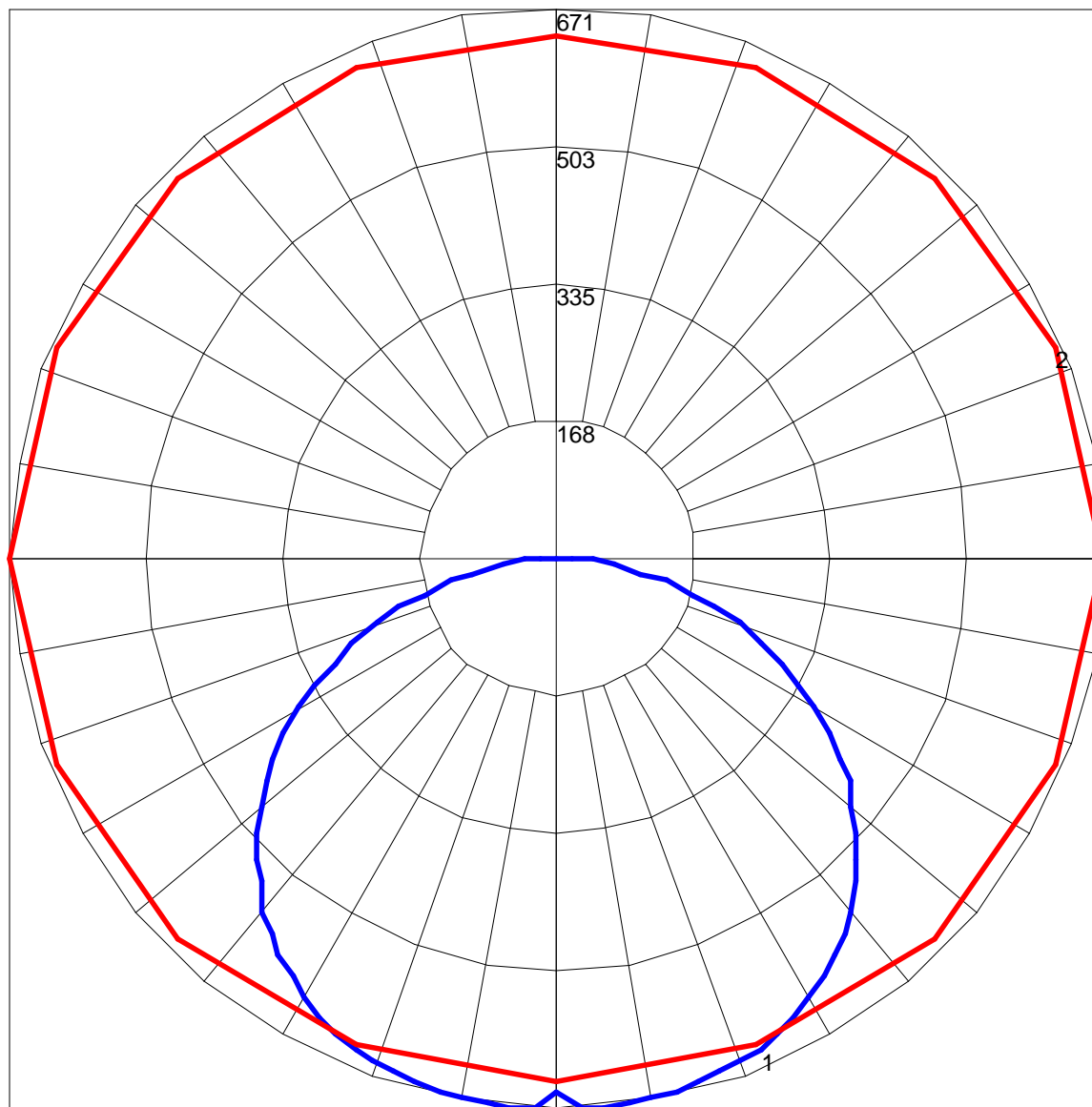
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	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	25	36	29	24	35	29	24	22

POLAR GRAPH



Maximum Candela = 670.941 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.)