



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SDL8-LED-180L-FL-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9829_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]6/12/2018
[TEST DATE]03/01/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]SDL8-LED-180L-FL-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 SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17678
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	142.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22328	14723	13860
55	21228	12922	12371
65	19375	11102	10978
75	16405	9465	9678
85	10650	7875	7865

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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	4421.248	4421.248	4421.248	4421.248	4421.248
2.5	4438.883	4443.922	4423.768	4418.729	4436.364
5.0	4436.364	4441.402	4426.287	4423.768	4438.883
7.5	4423.768	4431.325	4416.210	4423.768	4436.364
10.0	4401.095	4411.172	4403.614	4413.691	4433.845
12.5	4365.825	4378.422	4380.941	4401.095	4423.768
15.0	4322.998	4340.633	4350.710	4383.460	4401.095
17.5	4267.575	4290.249	4310.402	4353.229	4380.941
20.0	4204.595	4232.306	4265.056	4317.960	4348.191
22.5	4131.537	4164.287	4212.152	4275.133	4310.402
25.0	4045.883	4081.152	4149.172	4222.229	4265.056
27.5	3952.672	3995.499	4073.595	4164.287	4214.672
30.0	3846.864	3894.729	3990.460	4098.787	4149.172
32.5	3728.460	3788.922	3902.287	4023.210	4081.152
35.0	3605.018	3673.037	3806.556	3940.076	4005.576
37.5	3471.499	3547.076	3700.749	3851.903	3924.960
40.0	3327.903	3411.037	3589.903	3756.172	3836.787
42.5	3181.787	3274.999	3471.499	3650.364	3743.576
45.0	3028.114	3131.403	3348.057	3547.076	3645.326
47.5	2869.403	2982.768	3219.576	3431.191	3534.480
50.0	2703.134	2831.614	3086.057	3320.345	3426.153
52.5	2554.499	2667.864	2950.018	3201.941	3317.826
55.0	2365.557	2516.711	2813.980	3083.537	3204.460
57.5	2186.692	2342.884	2667.864	2962.614	3086.057
60.0	2012.865	2174.095	2519.230	2836.653	2965.134
62.5	1813.846	2007.826	2378.153	2710.691	2839.172
65.0	1624.903	1836.519	2237.076	2577.172	2713.211
67.5	1435.961	1670.249	2095.999	2443.653	2572.134
70.0	1257.096	1511.538	1957.442	2312.653	2446.172
72.5	1065.634	1345.269	1821.403	2184.172	2322.730
75.0	881.730	1196.634	1695.442	2065.769	2204.326
77.5	695.307	1050.519	1569.480	1944.845	2080.884
80.0	526.519	914.480	1446.038	1818.884	1957.442
82.5	365.288	786.000	1325.115	1685.365	1811.326
85.0	234.288	675.154	1191.596	1488.865	1584.596
87.5	131.000	564.307	982.500	1199.153	1259.615
90.0	65.500	423.231	725.538	894.327	952.269
92.5	35.269	335.058	597.057	735.615	780.961
95.0	22.673	287.192	536.596	677.673	725.538
97.5	17.635	246.885	493.769	627.288	675.154
100.0	12.596	231.769	466.058	589.500	637.365
102.5	12.596	199.019	486.211	561.788	602.096
105.0	10.077	171.308	516.442	594.538	607.134
107.5	10.077	143.596	468.577	690.269	715.461
110.0	7.558	123.442	415.673	682.711	783.480
112.5	7.558	103.288	375.365	619.731	723.019
115.0	7.558	88.173	335.058	559.269	655.000
117.5	7.558	75.577	297.269	508.884	599.577
120.0	7.558	62.981	262.000	455.981	541.634
122.5	7.558	52.904	226.731	408.115	483.692
125.0	7.558	45.346	199.019	362.769	430.788
127.5	7.558	37.788	171.308	319.942	382.923
130.0	7.558	32.750	146.115	277.115	337.577
132.5	7.558	27.712	123.442	241.846	294.750

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CANDELA TABULATION - (Cont.)

135.0	7.558	22.673	100.769	206.577	256.961
137.5	7.558	20.154	85.654	173.827	216.654
140.0	7.558	15.115	73.058	143.596	178.865
142.5	7.558	12.596	60.462	118.404	146.115
145.0	7.558	10.077	47.865	95.731	120.923
147.5	7.558	10.077	40.308	78.096	98.250
150.0	7.558	7.558	30.231	62.981	78.096
152.5	7.558	7.558	22.673	47.865	60.462
155.0	7.558	7.558	15.115	35.269	45.346
157.5	7.558	7.558	12.596	25.192	35.269
160.0	7.558	7.558	10.077	17.635	22.673
162.5	7.558	7.558	7.558	12.596	15.115
165.0	7.558	7.558	7.558	7.558	10.077
167.5	7.558	7.558	7.558	5.038	7.558
170.0	7.558	7.558	7.558	5.038	7.558
172.5	7.558	7.558	5.038	5.038	5.038
175.0	7.558	7.558	5.038	5.038	5.038
177.5	7.558	7.558	5.038	5.038	5.038
180.0	5.038	5.038	5.038	5.038	5.038

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1654.13	N.A.	9.40
0-30	3569.37	N.A.	20.20
0-40	5951.61	N.A.	33.70
0-60	11032.92	N.A.	62.40
0-80	14936.75	N.A.	84.50
0-90	16066.3	N.A.	90.90
10-90	15643.94	N.A.	88.50
20-40	4297.48	N.A.	24.30
20-50	6875.8	N.A.	38.90
40-70	7266.44	N.A.	41.10
60-80	3903.83	N.A.	22.10
70-80	1718.71	N.A.	9.70
80-90	1129.55	N.A.	6.40
90-110	953.35	N.A.	5.40
90-120	1282.99	N.A.	7.30
90-130	1470.39	N.A.	8.30
90-150	1597.9	N.A.	9.00
90-180	1611.74	N.A.	9.10
110-180	658.39	N.A.	3.70
0-180	17678.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	422.36
10-20	1231.77
20-30	1915.24
30-40	2382.24
40-50	2578.32
50-60	2502.99
60-70	2185.12
70-80	1718.71
80-90	1129.55
90-100	528.60
100-110	424.75
110-120	329.64
120-130	187.40
130-140	91.55
140-150	35.96
150-160	10.73
160-170	2.51
170-180	0.59

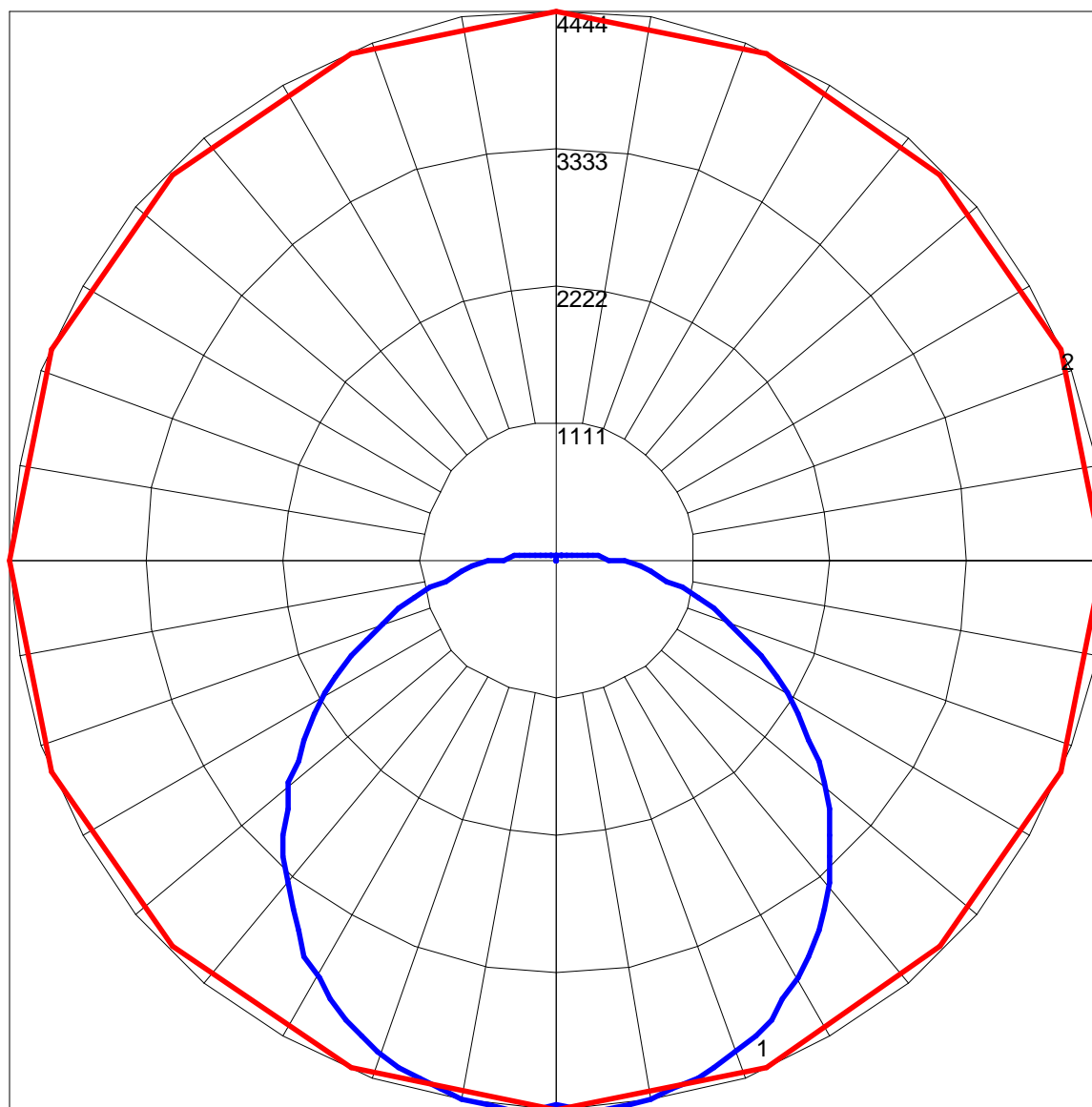
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	104	98	93	88	100	95	90	86	89	85	82	84	80	77	78	76	74	71
2	94	84	76	70	90	82	74	68	76	70	65	72	67	63	67	63	60	57
3	85	73	64	57	81	71	63	56	67	59	54	62	57	52	59	54	50	47
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39
5	71	57	48	41	68	55	47	40	52	45	39	49	43	37	46	41	36	34
6	65	51	42	35	63	50	41	35	47	39	33	44	38	32	42	36	31	29
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	26
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	23
9	52	38	30	24	50	38	29	24	36	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 4443.922 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)