



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SDL8-LED-140L-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
[LUMCAT]SDL8-LED-140L-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_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13779
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	106.2
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	17404	11476	10803
55	16546	10072	9643
65	15102	8653	8557
75	12787	7377	7543
85	8301	6138	6130

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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	3446.136	3446.136	3446.136	3446.136	3446.136
2.5	3459.881	3463.808	3448.099	3444.172	3457.917
5.0	3457.917	3461.845	3450.063	3448.099	3459.881
7.5	3448.099	3453.990	3442.208	3448.099	3457.917
10.0	3430.427	3438.281	3432.390	3440.245	3455.954
12.5	3402.936	3412.754	3414.718	3430.427	3448.099
15.0	3369.555	3383.300	3391.155	3416.681	3430.427
17.5	3326.355	3344.028	3359.737	3393.118	3414.718
20.0	3277.265	3298.865	3324.392	3365.628	3389.191
22.5	3220.320	3245.847	3283.156	3332.246	3359.737
25.0	3153.558	3181.048	3234.066	3291.010	3324.392
27.5	3080.904	3114.286	3175.157	3245.847	3285.120
30.0	2998.433	3035.741	3110.358	3194.794	3234.066
32.5	2906.143	2953.270	3041.632	3135.885	3181.048
35.0	2809.926	2862.943	2967.015	3071.086	3122.140
37.5	2705.855	2764.763	2884.543	3002.360	3059.304
40.0	2593.929	2658.728	2798.144	2927.743	2990.578
42.5	2480.039	2552.693	2705.855	2845.271	2917.925
45.0	2360.259	2440.767	2609.638	2764.763	2841.344
47.5	2236.552	2324.914	2509.494	2674.437	2754.945
50.0	2106.954	2207.098	2405.422	2588.038	2670.510
52.5	1991.101	2079.463	2299.387	2495.748	2586.074
55.0	1843.830	1961.646	2193.352	2403.459	2497.712
57.5	1704.414	1826.157	2079.463	2309.205	2405.422
60.0	1568.924	1694.595	1963.610	2211.025	2311.169
62.5	1413.799	1564.997	1853.648	2112.844	2212.989
65.0	1266.528	1431.472	1743.686	2008.773	2114.808
67.5	1119.258	1301.873	1633.724	1904.702	2004.846
70.0	979.841	1178.166	1525.725	1802.594	1906.665
72.5	830.607	1048.568	1419.690	1702.450	1810.448
75.0	687.264	932.715	1321.510	1610.160	1718.159
77.5	541.956	818.825	1223.329	1515.907	1621.942
80.0	410.395	712.790	1127.112	1417.726	1525.725
82.5	284.723	612.646	1032.859	1313.655	1411.836
85.0	182.616	526.247	928.788	1160.494	1235.111
87.5	102.108	439.849	765.808	934.678	981.805
90.0	51.054	329.886	565.520	697.082	742.245
92.5	27.491	261.160	465.376	573.374	608.719
95.0	17.672	223.852	418.249	528.211	565.520
97.5	13.745	192.434	384.868	488.939	526.247
100.0	9.818	180.652	363.268	459.485	496.793
102.5	9.818	155.125	378.977	437.885	469.303
105.0	7.854	133.525	402.540	463.412	473.230
107.5	7.854	111.926	365.231	538.029	557.665
110.0	5.891	96.217	323.996	532.138	610.683
112.5	5.891	80.508	292.578	483.048	563.556
115.0	5.891	68.726	261.160	435.921	510.539
117.5	5.891	58.908	231.706	396.649	467.339
120.0	5.891	49.090	204.215	355.413	422.176
122.5	5.891	41.236	176.725	318.105	377.013
125.0	5.891	35.345	155.125	282.760	335.777
127.5	5.891	29.454	133.525	249.378	298.469
130.0	5.891	25.527	113.889	215.997	263.124
132.5	5.891	21.600	96.217	188.507	229.742

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CANDELA TABULATION - (Cont.)

135.0	5.891	17.672	78.544	161.016	200.288
137.5	5.891	15.709	66.763	135.489	168.870
140.0	5.891	11.782	56.945	111.926	139.416
142.5	5.891	9.818	47.127	92.290	113.889
145.0	5.891	7.854	37.309	74.617	94.253
147.5	5.891	7.854	31.418	60.872	76.581
150.0	5.891	5.891	23.563	49.090	60.872
152.5	5.891	5.891	17.672	37.309	47.127
155.0	5.891	5.891	11.782	27.491	35.345
157.5	5.891	5.891	9.818	19.636	27.491
160.0	5.891	5.891	7.854	13.745	17.672
162.5	5.891	5.891	5.891	9.818	11.782
165.0	5.891	5.891	5.891	5.891	7.854
167.5	5.891	5.891	5.891	3.927	5.891
170.0	5.891	5.891	5.891	3.927	5.891
172.5	5.891	5.891	3.927	3.927	3.927
175.0	5.891	5.891	3.927	3.927	3.927
177.5	5.891	5.891	3.927	3.927	3.927
180.0	3.927	3.927	3.927	3.927	3.927

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1289.31	N.A.	9.40
0-30	2782.14	N.A.	20.20
0-40	4638.97	N.A.	33.70
0-60	8599.6	N.A.	62.40
0-80	11642.43	N.A.	84.50
0-90	12522.85	N.A.	90.90
10-90	12193.65	N.A.	88.50
20-40	3349.67	N.A.	24.30
20-50	5359.33	N.A.	38.90
40-70	5663.81	N.A.	41.10
60-80	3042.84	N.A.	22.10
70-80	1339.64	N.A.	9.70
80-90	880.42	N.A.	6.40
90-110	743.09	N.A.	5.40
90-120	1000.02	N.A.	7.30
90-130	1146.1	N.A.	8.30
90-150	1245.48	N.A.	9.00
90-180	1256.27	N.A.	9.10
110-180	513.18	N.A.	3.70
0-180	13779.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	329.20
10-20	960.10
20-30	1492.83
30-40	1856.84
40-50	2009.67
50-60	1950.95
60-70	1703.19
70-80	1339.64
80-90	880.42
90-100	412.02
100-110	331.07
110-120	256.94
120-130	146.07
130-140	71.36
140-150	28.03
150-160	8.37
160-170	1.96
170-180	0.46

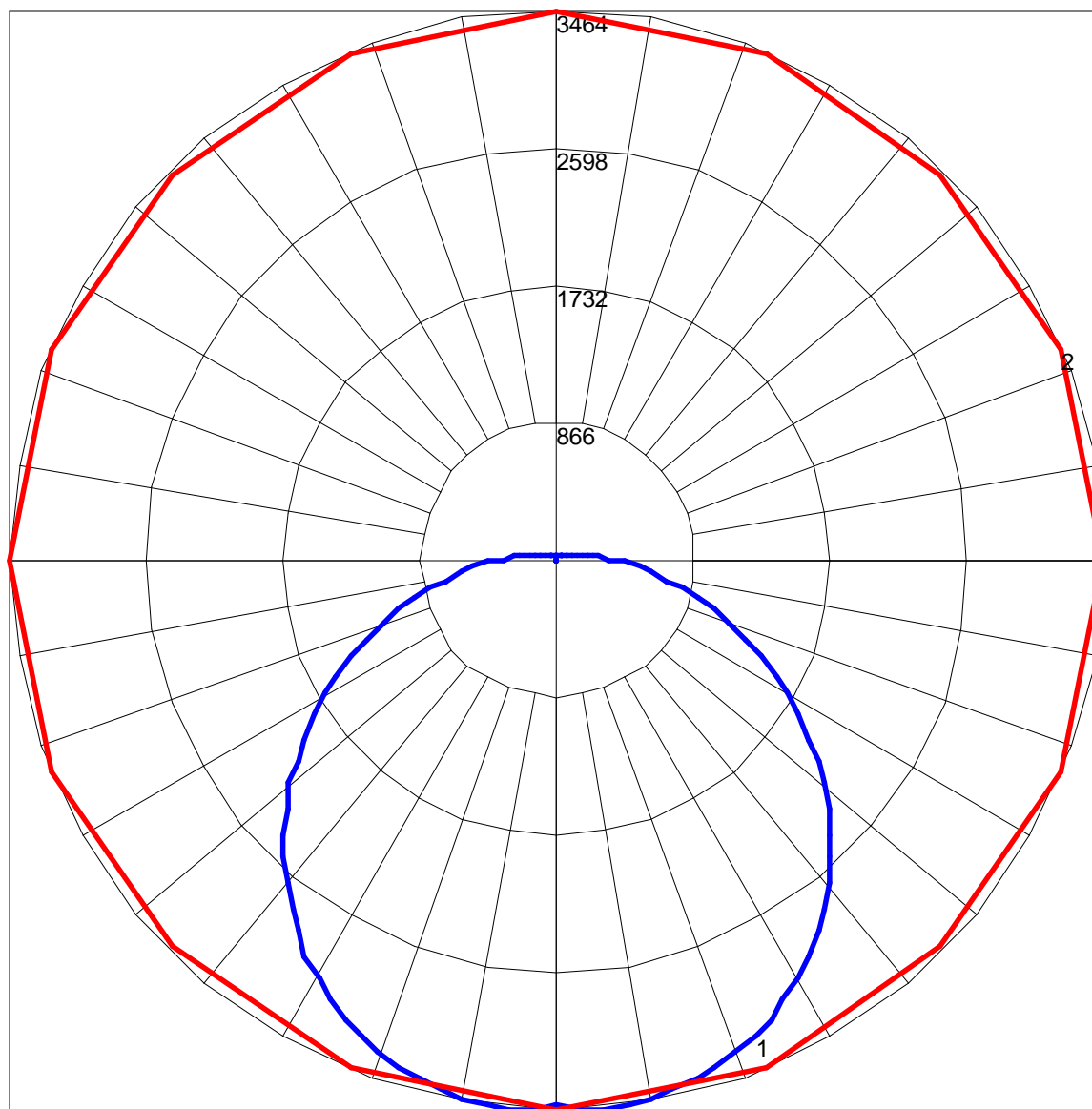
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3463.808 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.)