



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LDI-4-LED-PL-SS-40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]Dekko

[ISSUEDATE]06-19-2017

[TESTDATE]03/08/17

[MANUFAC]LSI INDUSTRIES, INC

[LUMCAT] LDI-4-LED-PL-SS-40

[\_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER]TEST PROCEDURE: IESNA LM-79-08

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4077
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	38.4
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	640	732	912
55	552	722	995
65	189	574	1022
75	91	240	697
85	271	475	543

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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	153.450	153.450	153.450	153.450	153.450
2.5	156.750	155.100	153.450	152.625	150.975
5.0	157.575	155.100	154.275	152.625	151.800
7.5	157.575	155.925	154.275	152.625	151.800
10.0	157.575	155.100	154.275	152.625	151.800
12.5	157.575	155.100	154.275	154.275	154.275
15.0	156.750	155.100	154.275	156.750	156.750
17.5	156.750	154.275	155.100	159.225	160.050
20.0	156.750	153.450	155.925	161.700	163.350
22.5	155.925	153.450	156.750	165.000	166.650
25.0	154.275	151.800	157.575	166.650	169.950
27.5	153.450	150.975	158.400	169.125	174.075
30.0	151.800	149.325	158.400	170.775	177.375
32.5	149.325	147.675	158.400	172.425	180.675
35.0	146.025	145.200	157.575	173.250	182.325
37.5	142.725	141.900	155.100	173.250	183.975
40.0	137.775	136.950	152.625	172.425	183.975
42.5	132.000	132.825	149.325	169.950	182.325
45.0	126.225	126.225	144.375	165.825	179.850
47.5	118.800	119.625	138.600	160.875	175.725
50.0	111.375	113.025	132.000	155.100	171.600
52.5	100.650	103.950	123.750	147.675	165.825
55.0	88.275	93.225	115.500	140.250	159.225
57.5	72.600	80.850	106.425	131.175	150.975
60.0	54.450	66.000	94.875	122.100	141.900
62.5	35.475	49.500	82.500	111.375	131.175
65.0	22.275	33.825	67.650	99.825	120.450
67.5	14.850	23.100	51.150	86.625	109.725
70.0	10.725	18.150	34.650	70.950	99.000
72.5	8.250	14.850	23.100	52.800	84.150
75.0	6.600	12.375	17.325	32.175	50.325
77.5	5.775	11.550	14.025	18.975	31.350
80.0	6.600	10.725	12.375	14.850	21.450
82.5	6.600	9.900	11.550	13.200	15.675
85.0	6.600	9.075	11.550	12.375	13.200
87.5	5.775	9.900	12.375	14.025	14.025
90.0	4.950	11.550	17.325	14.850	14.850
92.5	18.150	58.575	59.400	44.550	47.025
95.0	37.950	99.825	132.000	192.225	167.475
97.5	61.875	141.900	206.250	214.500	197.175
100.0	89.925	193.050	298.650	324.225	320.925
102.5	120.450	254.100	383.625	470.250	459.525
105.0	155.925	318.450	467.775	566.775	591.525
107.5	193.050	375.375	545.325	655.875	700.425
110.0	231.825	419.100	602.250	704.550	741.675
112.5	269.775	455.400	648.450	745.800	782.100
115.0	308.550	482.625	680.625	786.225	818.400
117.5	346.500	509.025	703.725	820.875	854.700
120.0	384.450	532.125	723.525	840.675	881.925
122.5	420.750	549.450	740.850	854.700	894.300
125.0	457.050	565.950	754.050	863.775	902.550
127.5	489.225	582.450	763.950	870.375	905.850
130.0	523.050	597.300	770.550	873.675	909.150
132.5	552.750	611.325	773.850	872.025	906.675

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	579.975	625.350	773.025	867.900	900.900
<b>137.5</b>	606.375	639.375	770.550	863.775	893.475
<b>140.0</b>	628.650	652.575	764.775	855.525	884.400
<b>142.5</b>	648.450	665.775	758.175	843.150	872.025
<b>145.0</b>	668.250	679.800	750.750	829.125	856.350
<b>147.5</b>	685.575	693.000	742.500	810.975	837.375
<b>150.0</b>	700.425	704.550	736.725	792.825	817.575
<b>152.5</b>	712.800	715.275	732.600	774.675	795.300
<b>155.0</b>	724.350	724.350	731.775	759.000	774.675
<b>157.5</b>	731.775	731.775	732.600	747.450	757.350
<b>160.0</b>	739.200	738.375	735.900	740.850	745.800
<b>162.5</b>	744.150	743.325	739.200	738.375	740.025
<b>165.0</b>	748.275	746.625	741.675	740.025	739.200
<b>167.5</b>	749.100	747.450	742.500	740.025	737.550
<b>170.0</b>	750.750	748.275	743.325	739.200	737.550
<b>172.5</b>	749.925	748.275	743.325	738.375	736.725
<b>175.0</b>	749.925	747.450	742.500	738.375	735.075
<b>177.5</b>	749.100	745.800	740.850	736.725	734.250
<b>180.0</b>	740.025	740.025	740.025	740.025	740.025

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	58.94	N.A.	1.40
0-30	132.87	N.A.	3.30
0-40	232.94	N.A.	5.70
0-60	451.02	N.A.	11.10
0-80	545.78	N.A.	13.40
0-90	558.58	N.A.	13.70
10-90	543.86	N.A.	13.30
20-40	173.99	N.A.	4.30
20-50	287.39	N.A.	7.00
40-70	286.15	N.A.	7.00
60-80	94.76	N.A.	2.30
70-80	26.69	N.A.	0.70
80-90	12.80	N.A.	0.30
90-110	578.89	N.A.	14.20
90-120	1198.08	N.A.	29.40
90-130	1838.17	N.A.	45.10
90-150	2893.29	N.A.	71.00
90-180	3518.11	N.A.	86.30
110-180	2939.22	N.A.	72.10
0-180	4076.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	14.72
10-20	44.23
20-30	73.92
30-40	100.07
40-50	113.40
50-60	104.68
60-70	68.07
70-80	26.69
80-90	12.80
90-100	132.76
100-110	446.13
110-120	619.19
120-130	640.09
130-140	581.16
140-150	473.95
150-160	343.60
160-170	210.31
170-180	70.91

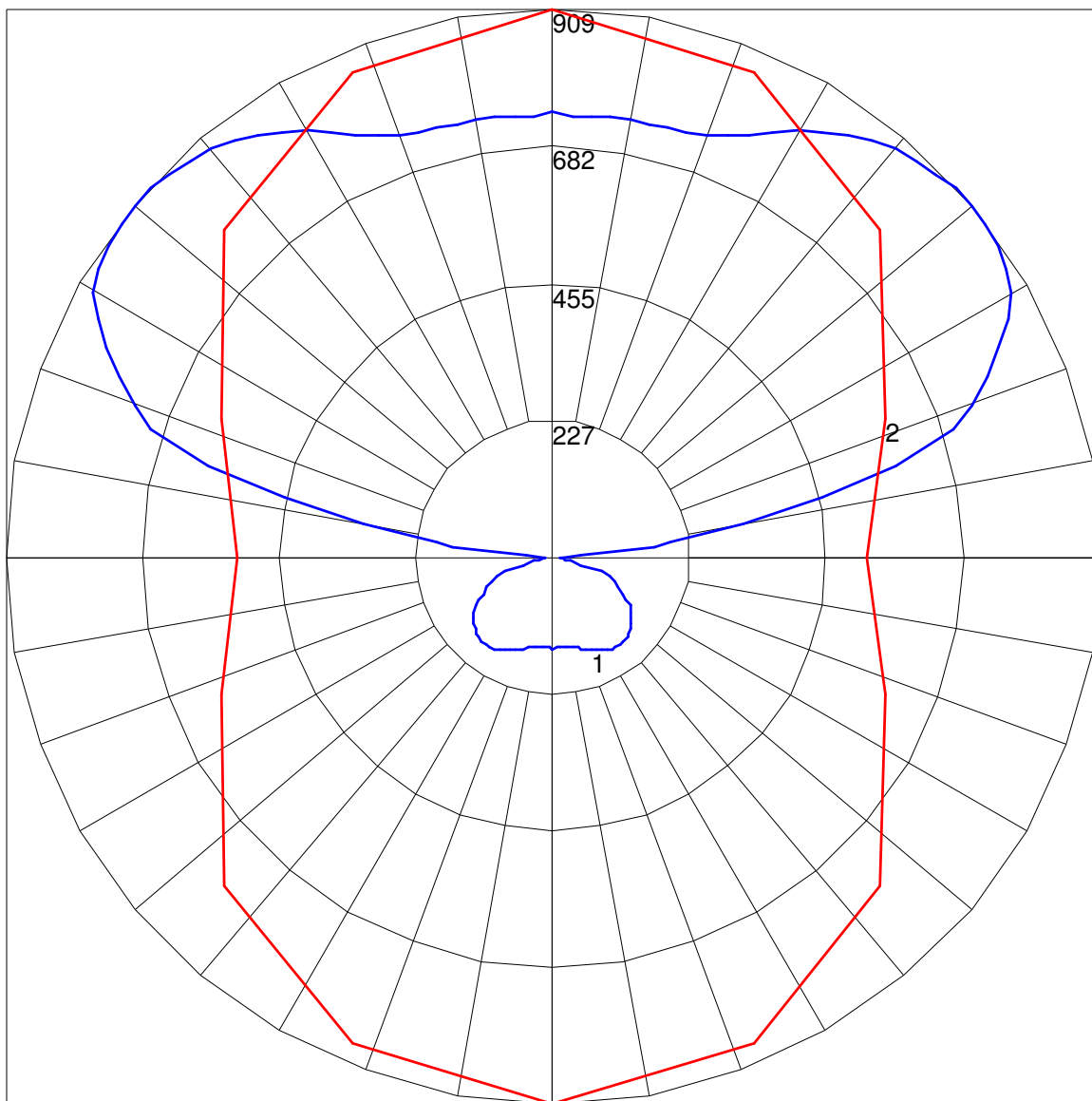
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	98	98	98	86	86	86	86	63	63	63	42	42	42	23	23	23	14
1	90	86	82	79	78	75	72	69	55	53	51	37	36	35	20	20	19	11
2	82	75	69	64	71	65	61	57	48	45	42	32	30	29	18	17	16	10
3	74	65	58	53	65	57	52	47	42	39	35	28	26	24	15	14	13	8
4	68	58	50	44	59	51	44	40	37	33	30	25	23	21	14	12	11	7
5	62	51	43	38	54	45	38	34	33	29	26	22	20	18	12	11	10	6
6	57	45	38	32	49	40	34	29	30	25	22	20	17	15	11	10	9	5
7	52	41	33	28	46	36	29	25	27	22	19	18	15	13	10	9	7	4
8	48	37	29	24	42	32	26	22	24	20	17	16	14	12	9	8	7	4
9	45	33	26	21	39	29	23	19	22	18	15	15	12	10	8	7	6	3
10	42	30	23	19	36	27	21	17	20	16	13	14	11	9	8	6	5	3

POLAR GRAPH



Maximum Candela = 909.15 Located At Horizontal Angle = 90, Vertical Angle = 130  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)