



# Photometric Toolbox™

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LLCSA72LED36SA40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] LLCSA72LED36SA40  
 [TESTDATE] 11-Dec-2017 13:13:17  
 [TESTLAB] Radiant Vision Systems ProSource  
 [ISSUE DATE] 12/11/2017 2:10:31 PM  
 [MANUFAC] Mobern Lighting Co  
 [LAMP] LED Module  
 [\_TOTALLUMINAIRELUMENS] 2339.9  
 [DRIVER TYPE] (1) AC-A100VD24H4.1  
 [BOARD/LAMP TYPE] LED TAPE - 71"  
 [COLOR TEMP] 2,341 CCT  
 [LUMEN/WATT] 63 LM/WT  
 [CRI] 86.2  
 [\_NUMBEROFRAYS]10000000  
 [OTHER] Absolute Photometry measurement

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2341
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.82 m
Luminous Width (90-270)	0.03 m
Luminous Height	0.03 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10721	7582	7153
55	9962	6760	6444
65	9027	5785	5631
75	8151	4793	4833
85	5153	3839	4094

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LLCSA72LED36SA40.IES**

**CANDELA TABULATION**

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
<b>0</b>	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04
<b>3</b>	651.53	651.61	651.68	652.33	652.44	652.87	653.28	653.54	653.67	653.62
<b>6</b>	647.84	647.86	648.35	648.95	649.67	650.53	651.69	652.54	652.91	652.87
<b>9</b>	645.44	644.98	644.58	644.36	645.90	648.14	650.39	651.53	651.84	651.96
<b>12</b>	640.01	638.97	638.13	638.94	642.61	646.72	649.94	650.93	650.85	651.43
<b>15</b>	627.15	626.49	628.84	631.96	637.55	644.10	647.41	648.50	649.57	651.52
<b>18</b>	609.04	611.99	616.61	623.47	630.31	638.35	641.57	643.18	647.31	651.22
<b>21</b>	589.39	594.09	603.33	612.96	622.49	631.03	634.91	637.81	644.11	648.98
<b>24</b>	571.11	576.67	588.14	598.36	611.96	621.98	626.26	632.50	639.60	642.72
<b>27</b>	555.44	561.92	571.10	584.37	600.43	610.10	616.27	626.20	632.42	631.57
<b>30</b>	537.96	545.89	553.57	566.82	584.07	595.54	605.24	619.69	623.55	619.87
<b>33</b>	515.03	525.66	532.52	546.59	565.30	582.79	592.16	608.62	612.20	611.49
<b>36</b>	491.47	500.33	510.33	527.25	546.02	571.33	577.81	593.14	596.87	603.36
<b>39</b>	471.71	470.15	492.65	506.53	527.62	559.26	562.88	576.92	579.79	591.33
<b>42</b>	450.13	441.01	472.92	486.36	512.46	541.26	548.16	560.02	563.39	574.19
<b>45</b>	420.91	417.55	447.24	464.16	491.19	515.54	530.65	543.06	550.62	552.53
<b>48</b>	387.50	394.94	422.20	443.36	468.96	487.76	510.19	524.56	537.31	531.13
<b>51</b>	355.22	372.57	396.40	420.84	449.23	465.23	488.77	503.41	519.38	513.90
<b>54</b>	327.26	347.83	370.10	388.52	426.43	446.83	465.59	482.62	495.67	497.14
<b>57</b>	303.88	317.84	335.95	362.05	403.01	425.84	442.21	460.79	470.54	476.44
<b>60</b>	276.53	285.24	307.04	338.63	373.89	399.59	417.12	437.09	444.55	452.10
<b>63</b>	238.97	253.57	285.61	313.98	341.79	370.86	393.42	412.48	421.89	425.85
<b>66</b>	204.14	217.90	253.90	286.59	316.91	344.86	367.47	387.52	400.93	400.17
<b>69</b>	178.24	191.20	223.27	253.64	288.68	318.17	338.85	362.41	377.42	376.57
<b>72</b>	155.49	165.21	193.01	225.14	260.31	290.81	314.34	336.59	351.12	351.89
<b>75</b>	122.33	136.16	161.26	196.91	233.04	265.99	291.35	309.51	321.33	323.34
<b>78</b>	87.47	104.56	132.46	169.45	207.57	240.11	265.12	279.96	291.85	293.85
<b>81</b>	60.88	79.07	112.44	147.66	185.49	217.59	241.52	257.52	267.79	269.86
<b>84</b>	35.53	58.21	88.59	124.22	158.35	188.63	219.16	234.38	243.57	248.52
<b>87</b>	16.41	38.82	71.51	109.42	145.64	170.98	197.05	211.46	221.17	229.76
<b>90</b>	5.98	24.95	56.88	91.81	129.62	158.42	177.27	194.60	201.34	212.63
<b>93</b>	0.25	5.91	18.24	29.38	35.78	45.93	53.00	68.89	52.86	63.00
<b>96</b>	0.02	0.40	1.42	1.48	2.19	2.02	4.38	7.43	3.67	4.18
<b>99</b>	0.01	0.10	0.57	0.51	0.61	0.64	0.61	0.63	0.62	0.18
<b>102</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>108</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>111</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>114</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>117</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>123</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>126</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>129</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>132</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>135</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>138</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>141</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>144</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>147</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>153</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>156</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>159</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04
3	653.41	653.07	652.62	652.10	651.70	651.80	651.33	651.67	652.04	652.42
6	652.26	651.34	649.91	648.32	647.24	646.38	645.67	645.10	645.94	647.11
9	652.12	651.73	650.08	647.34	644.92	642.47	640.43	637.91	637.49	638.59
12	653.17	654.22	652.04	647.54	643.92	640.89	637.02	632.69	630.00	630.39
15	653.50	654.01	649.79	642.33	635.85	633.11	629.92	626.40	625.17	624.22
18	651.71	649.63	643.93	633.39	623.77	620.17	615.36	616.24	617.06	616.56
21	647.68	643.80	637.98	625.29	613.79	606.80	600.03	599.77	600.59	602.04
24	640.99	636.48	630.25	616.49	601.11	588.84	582.30	580.46	581.33	583.85
27	631.20	628.29	622.84	608.74	591.44	574.61	559.66	558.37	565.19	563.62
30	620.81	620.88	613.62	598.73	581.29	564.90	540.25	533.71	548.24	538.63
33	610.17	608.50	596.61	580.60	564.50	555.40	524.70	511.78	525.97	510.49
36	596.98	590.92	576.85	559.47	541.46	540.43	509.17	489.44	501.24	482.27
39	582.12	574.34	563.05	546.96	521.22	513.77	492.54	461.68	477.47	455.82
42	565.63	558.88	553.07	535.57	508.15	485.74	452.13	431.57	452.85	431.05
45	547.04	542.23	533.16	510.44	488.52	461.28	433.20	406.33	425.20	409.85
48	526.73	523.77	506.93	483.04	463.21	442.80	402.98	384.69	395.95	389.88
51	508.18	502.77	485.09	464.19	439.49	421.51	372.60	365.33	366.87	370.29
54	488.98	479.15	462.50	444.91	416.18	389.48	346.45	342.41	337.39	344.79
57	468.65	455.37	440.74	420.04	395.49	358.50	319.97	316.10	306.65	316.15
60	445.81	434.66	417.24	398.49	370.33	327.71	294.71	287.09	275.05	281.44
63	421.09	412.05	390.73	375.35	343.02	300.85	269.66	256.84	243.09	248.52
66	393.18	387.26	366.67	348.44	316.99	277.51	241.41	222.97	210.50	216.08
69	366.37	363.84	347.10	319.21	286.02	247.75	211.90	189.51	177.14	184.66
72	343.58	337.77	321.32	289.99	257.61	217.77	183.23	158.19	144.33	153.72
75	319.37	306.77	288.32	261.14	230.73	188.65	155.65	128.41	113.29	122.20
78	292.84	277.13	259.83	233.68	204.09	163.02	128.78	99.57	83.38	91.54
81	268.25	255.27	235.23	208.84	175.00	138.30	102.76	68.53	52.00	63.39
84	244.89	235.55	217.09	184.71	149.72	118.35	79.51	48.66	28.57	46.21
87	227.11	206.59	194.37	165.40	136.00	98.55	64.48	33.09	11.89	28.67
90	206.52	190.44	176.18	148.21	124.64	84.24	53.75	24.60	4.32	21.08
93	59.53	76.93	65.21	57.82	45.96	36.68	24.97	8.10	0.48	8.94
96	5.72	8.78	6.96	5.58	4.84	4.07	3.86	0.93	0.10	1.20
99	0.52	0.58	0.29	0.06	0.06	0.01	0.02	0.12	0.00	0.23
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LLCSA72LED36SA40.IES**

**CANDELA TABULATION - (Cont.)**

135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04	654.04
3	652.81	653.66	653.98	654.39	654.58	654.55	654.37	654.06	653.66	653.19
6	649.68	651.98	653.66	654.83	655.50	655.48	654.96	653.92	652.59	651.32
9	642.84	646.49	650.94	653.67	655.22	655.59	655.06	653.72	651.64	649.11
12	634.00	639.82	645.96	649.68	652.11	653.55	653.79	652.64	650.08	646.64
15	626.18	631.22	637.56	643.08	646.62	649.95	650.79	649.79	647.63	644.24
18	614.93	620.00	626.35	632.78	637.93	643.95	645.90	644.80	644.19	641.31
21	601.37	606.06	614.83	620.84	626.14	634.10	637.38	637.55	638.41	635.78
24	584.13	586.68	601.49	611.29	614.35	621.89	626.78	628.45	629.68	626.45
27	562.45	570.93	588.92	602.87	605.78	612.01	617.36	617.93	618.03	612.25
30	543.49	560.88	573.52	588.38	593.83	604.33	608.23	606.02	604.69	596.37
33	528.00	553.15	555.05	568.35	574.76	590.81	594.95	592.53	589.89	580.69
36	512.35	536.43	530.43	548.30	557.08	572.80	576.71	576.83	574.70	567.69
39	492.23	504.45	508.24	533.09	544.36	555.06	557.15	558.57	560.85	552.97
42	466.32	478.03	495.57	515.76	529.07	535.02	537.93	538.81	544.62	532.11
45	434.98	457.00	475.91	488.97	506.27	514.69	521.25	518.64	524.23	510.80
48	404.35	436.54	449.12	461.46	481.50	495.83	504.86	497.82	501.57	492.42
51	370.03	410.60	426.24	440.49	456.42	475.06	485.87	476.10	479.42	473.22
54	343.87	375.32	404.50	420.22	427.44	452.79	461.21	454.35	455.23	451.83
57	317.53	345.30	381.41	396.12	403.20	427.67	435.34	433.15	433.05	426.67
60	290.86	318.24	349.64	371.52	382.44	399.56	408.29	410.71	410.98	399.72
63	265.44	293.18	315.37	346.56	358.51	371.80	381.15	385.24	386.16	373.89
66	232.32	266.70	286.54	321.58	329.97	345.21	353.74	357.51	357.53	347.52
69	202.52	233.00	255.45	292.38	303.22	318.35	328.39	328.98	329.89	319.68
72	173.18	203.61	228.35	260.62	278.18	291.00	303.75	301.46	304.12	292.80
75	140.88	175.38	202.22	232.33	250.01	263.14	274.69	276.00	275.40	266.10
78	112.27	148.06	176.96	204.79	221.70	235.10	245.60	250.72	246.75	237.69
81	90.17	120.50	147.90	174.89	192.60	208.76	218.30	222.10	219.49	211.52
84	70.94	101.61	128.01	155.82	179.10	190.62	198.66	200.78	202.42	191.78
87	55.16	86.36	115.90	142.10	162.84	175.79	187.47	189.55	191.81	180.49
90	48.85	77.06	103.94	132.01	154.60	163.31	174.93	184.22	178.67	179.18
93	26.11	41.76	48.40	66.48	81.37	93.88	77.37	78.01	77.11	89.23
96	3.86	5.02	5.85	7.56	10.38	13.27	8.48	6.26	6.56	12.33
99	0.03	0.04	0.07	0.16	0.88	1.97	1.20	0.93	1.65	2.52
102	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LLCSA72LED36SA40.IES**

**CANDELA TABULATION - (Cont.)**

108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
111	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
114	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
129	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
138	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
168	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
171	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	654.04	654.04	654.04	654.04	654.04	654.04	654.04
3	652.70	652.18	651.79	651.80	651.30	651.43	651.53
6	649.93	648.72	648.16	647.87	647.72	647.59	647.84
9	646.53	644.42	643.31	643.04	643.99	644.82	645.44
12	643.18	640.78	639.18	637.88	638.28	639.31	640.01
15	640.39	637.75	634.90	632.45	630.81	628.17	627.15
18	636.25	632.87	629.06	625.48	620.63	615.10	609.04
21	629.02	625.36	621.19	613.99	606.95	597.82	589.39
24	618.10	615.33	609.02	594.13	588.32	579.44	571.11
27	604.25	600.87	594.21	575.81	567.83	562.58	555.44
30	589.70	584.57	577.37	559.38	549.75	544.40	537.96
33	578.33	571.32	561.69	543.50	529.21	523.01	515.03
36	565.27	553.46	542.04	525.18	505.00	496.45	491.47
39	544.69	531.52	518.54	500.42	485.33	464.77	471.71
42	523.10	512.11	499.30	476.67	465.95	436.64	450.13
45	502.56	491.89	475.77	450.59	440.66	417.78	420.91
48	482.59	466.44	450.76	426.67	415.33	398.13	387.50
51	460.59	440.48	429.26	405.55	389.58	373.41	355.22
54	434.19	417.42	405.96	376.85	361.73	344.99	327.26
57	408.92	393.59	379.84	348.42	324.06	314.45	303.88
60	384.70	368.64	348.48	321.09	294.42	281.01	276.53
63	361.04	341.76	316.82	293.87	273.38	247.75	238.97
66	332.43	313.16	289.98	268.72	241.76	214.19	204.14
69	301.24	283.98	260.64	229.74	207.67	184.90	178.24
72	273.99	257.36	234.79	201.08	178.52	159.56	155.49
75	248.22	229.99	207.85	172.76	147.49	129.98	122.33
78	222.66	201.17	181.12	145.69	119.16	98.54	87.47

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LLCSA72LED36SA40.IES**

**CANDELA TABULATION - (Cont.)**

<b>81</b>	195.11	176.39	155.46	123.44	100.29	74.60	60.88
<b>84</b>	178.83	158.30	132.66	103.58	75.25	53.13	35.53
<b>87</b>	165.48	145.72	115.63	84.85	57.81	35.64	16.41
<b>90</b>	147.81	134.73	106.70	77.40	49.01	21.81	5.98
<b>93</b>	64.92	55.81	40.43	31.54	18.17	5.32	0.25
<b>96</b>	7.72	4.27	3.91	2.08	1.50	0.37	0.02
<b>99</b>	2.01	1.38	1.02	0.92	0.57	0.14	0.01
<b>102</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>108</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>111</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>114</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>117</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>123</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>126</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>129</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>132</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>135</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>138</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>141</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>144</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>147</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>150</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>153</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>156</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>159</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>162</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>165</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>168</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>171</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>174</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>177</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LLCSA72LED36SA40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	197.58	N.A.	8.40
0-30	521.01	N.A.	22.30
0-40	830.13	N.A.	35.50
0-60	1602.44	N.A.	68.50
0-80	2108.99	N.A.	90.10
0-90	2304.51	N.A.	98.50
10-90	2254.22	N.A.	96.30
20-40	632.55	N.A.	27.00
20-50	967.58	N.A.	41.30
40-70	1056.54	N.A.	45.10
60-80	506.55	N.A.	21.60
70-80	222.32	N.A.	9.50
80-90	195.52	N.A.	8.40
90-110	36.10	N.A.	1.50
90-120	36.10	N.A.	1.50
90-130	36.10	N.A.	1.50
90-150	36.10	N.A.	1.50
90-180	36.10	N.A.	1.50
110-180	0.00	N.A.	0.00
0-180	2340.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.29
10-20	147.28
20-30	323.43
30-40	309.12
40-50	335.03
50-60	437.28
60-70	284.23
70-80	222.32
80-90	195.52
90-100	36.00
100-110	0.10
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LLCSA72LED36SA40.IES**

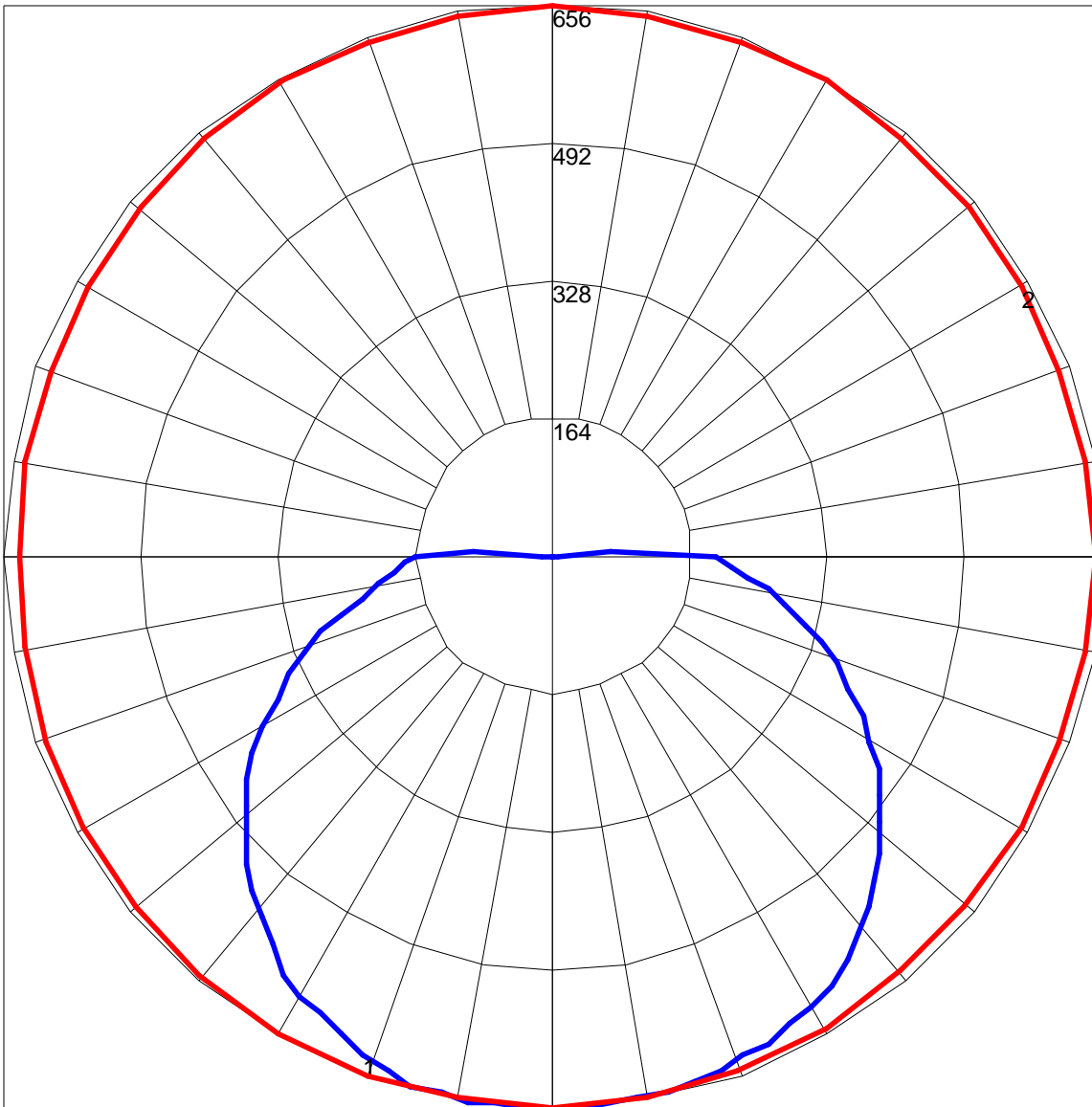
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	110	110	110	105	105	105	101	101	101	98
1	105	99	94	89	102	97	92	87	92	88	84	88	84	81	84	81	78	76
2	95	85	77	70	92	83	75	69	79	72	67	75	70	65	72	67	63	61
3	86	74	64	57	83	72	63	56	68	61	55	65	59	54	62	57	53	50
4	78	65	55	47	75	63	54	47	60	52	46	58	51	45	55	49	44	42
5	71	57	47	40	69	56	47	40	54	45	39	51	44	39	49	43	38	36
6	66	51	42	35	63	50	41	34	48	40	34	46	39	33	44	38	33	31
7	61	46	37	30	59	45	36	30	43	35	30	42	35	29	40	34	29	27
8	56	42	33	27	55	41	33	27	40	32	26	38	31	26	37	30	26	24
9	53	38	30	24	51	38	29	24	36	29	23	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	32	26	21	31	25	21	19



POLAR GRAPH



Maximum Candela = 655.59 Located At Horizontal Angle = 250, Vertical Angle = 9  
# 1 - Vertical Plane Through Horizontal Angles (250 - 70) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (9) (Through Max. Cd.)