



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SPYLED4WT40MBD.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 6,968  
 [TESTLAB] CSA Group  
 [ISSUEDATE] 12/16/2013 11:44:59 AM  
 [MANUFAC] Beghelli  
 [LUMINAIRE] SPY LED IP684WT41MBD 24V RAW  
 [\_AMBIENT] 24.8 deg C  
 [\_POWERFACTOR] 0.971  
 [\_ATHD] 7.38%  
 [\_CURRENT] 0.20  
 [\_VOLTAGE] 120.14  
 [\_STABILIZATION] 16:01.5 Stable  
 [\_POWER VARIATION] 0.16 %  
 [\_LIGHT VARIATION] 0.48 %  
 [\_Lumens] 1,769.67

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1781
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	24.25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.40
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**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>0.0</b>	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26
<b>2.5</b>	7500.05	7247.62	7181.06	7155.14	7171.20	7100.62	7077.53	6990.06	6924.74	6935.74
<b>5.0</b>	6672.41	6345.30	6241.74	6171.08	6096.34	5995.66	5946.52	5872.15	5864.65	5835.89
<b>7.5</b>	5464.87	4779.63	4897.04	4885.96	4752.39	4654.10	4540.31	4557.86	4561.23	4563.21
<b>10.0</b>	4182.89	3886.01	3831.40	3705.72	3671.81	3607.49	3523.08	3491.66	3492.32	3498.18
<b>12.5</b>	3040.27	2820.64	2737.18	2681.63	2635.05	2600.48	2570.41	2517.89	2526.03	2531.13
<b>15.0</b>	2110.94	1964.44	1904.05	1858.92	1833.97	1840.45	1833.16	1810.07	1809.62	1824.23
<b>17.5</b>	1444.46	1352.66	1321.32	1285.00	1304.02	1292.25	1296.60	1310.31	1309.24	1329.59
<b>20.0</b>	984.25	939.39	926.29	911.17	921.78	908.27	917.54	939.40	963.95	977.85
<b>22.5</b>	666.58	653.37	660.63	671.64	650.40	627.28	644.50	677.43	709.91	720.20
<b>25.0</b>	453.29	455.11	465.08	468.07	473.50	460.63	463.89	499.36	498.27	501.33
<b>27.5</b>	329.87	335.01	340.31	350.01	358.10	359.11	369.70	390.37	403.53	405.52
<b>30.0</b>	254.75	258.82	259.57	263.42	278.29	288.72	297.18	311.90	310.80	311.41
<b>32.5</b>	206.78	208.16	202.28	201.32	221.13	234.12	240.67	248.71	246.13	243.29
<b>35.0</b>	166.36	168.73	162.48	163.38	174.42	185.54	190.41	194.06	196.34	194.02
<b>37.5</b>	132.52	133.66	133.71	135.64	137.16	142.93	146.48	150.89	156.48	157.78
<b>40.0</b>	105.26	106.07	110.29	113.00	110.41	111.05	113.86	117.63	126.10	128.37
<b>42.5</b>	85.34	86.04	92.40	94.73	89.89	89.01	91.73	95.81	103.21	107.07
<b>45.0</b>	72.17	71.06	76.96	78.73	75.87	73.35	74.90	79.71	87.44	91.12
<b>47.5</b>	62.80	60.21	64.92	65.32	64.67	61.76	62.97	67.12	74.23	78.02
<b>50.0</b>	54.11	51.90	55.50	54.97	54.20	52.31	53.67	57.95	63.91	67.18
<b>52.5</b>	45.56	44.51	47.12	46.46	46.10	45.08	46.77	50.09	55.03	57.98
<b>55.0</b>	38.44	37.97	40.34	40.00	38.77	38.83	40.70	43.93	48.59	50.88
<b>57.5</b>	32.69	32.48	35.33	34.01	33.11	34.41	36.04	38.93	42.38	44.41
<b>60.0</b>	27.31	27.69	29.38	28.40	28.74	30.32	31.63	33.69	36.69	38.24
<b>62.5</b>	22.70	23.34	24.76	24.03	24.57	26.04	27.32	28.73	31.62	33.40
<b>65.0</b>	18.23	18.84	20.44	20.31	21.35	22.39	23.14	24.97	28.09	28.86
<b>67.5</b>	14.53	15.29	16.94	17.37	18.30	18.80	19.78	21.64	23.35	24.61
<b>70.0</b>	11.50	12.27	13.65	14.66	15.18	15.70	16.90	17.52	19.31	20.78
<b>72.5</b>	8.95	10.01	10.98	12.31	12.70	13.35	13.56	14.32	16.19	17.38
<b>75.0</b>	6.85	7.88	9.11	9.95	10.55	10.68	10.79	11.84	13.38	14.67
<b>77.5</b>	5.00	5.80	7.02	7.79	8.59	8.29	8.62	9.42	10.93	12.02
<b>80.0</b>	3.62	4.08	5.58	6.33	6.34	6.30	6.72	7.37	8.86	9.68
<b>82.5</b>	2.37	3.16	3.96	4.77	4.67	4.98	5.22	5.72	7.12	8.03
<b>85.0</b>	1.64	2.13	2.92	3.45	3.77	3.91	4.23	4.65	6.04	6.94
<b>87.5</b>	1.08	1.45	2.06	2.63	2.93	3.22	3.49	4.16	5.24	6.05
<b>90.0</b>	0.85	0.96	1.60	2.12	2.44	2.67	2.95	3.33	4.46	5.37
<b>92.5</b>	0.71	0.99	1.35	1.75	2.16	2.28	2.49	3.04	4.04	4.81
<b>95.0</b>	0.83	1.02	1.07	1.49	1.80	2.18	2.30	2.79	3.64	4.49
<b>97.5</b>	0.75	0.75	1.02	1.36	1.58	1.78	2.01	2.54	3.43	4.16
<b>100.0</b>	0.89	0.78	1.01	1.17	1.49	1.78	1.86	2.45	3.18	3.87
<b>102.5</b>	0.68	0.79	0.95	1.17	1.12	1.43	1.69	2.28	3.18	3.81
<b>105.0</b>	0.84	0.84	0.79	1.03	1.22	1.40	1.63	2.19	2.87	3.75
<b>107.5</b>	0.80	0.80	0.99	0.90	1.20	1.44	1.47	1.91	2.85	3.42
<b>110.0</b>	0.76	0.80	0.77	1.04	1.25	1.24	1.43	1.90	2.28	3.07
<b>112.5</b>	0.79	0.77	0.93	1.06	1.14	1.21	1.50	1.92	2.29	2.70
<b>115.0</b>	0.96	0.72	0.78	1.06	1.20	1.31	1.37	1.84	2.31	2.60
<b>117.5</b>	0.75	0.69	0.75	0.88	1.08	1.27	1.42	1.68	2.16	2.41
<b>120.0</b>	0.71	0.67	0.89	1.13	1.05	1.27	1.37	1.77	2.06	2.30
<b>122.5</b>	0.86	0.64	0.98	1.06	1.15	1.28	1.40	1.71	2.16	2.29
<b>125.0</b>	0.86	0.60	0.87	0.92	1.16	1.22	1.41	1.72	1.89	2.21
<b>127.5</b>	0.87	0.95	0.93	1.05	1.02	1.31	1.48	1.65	1.97	2.13
<b>130.0</b>	0.94	1.03	1.09	0.85	1.14	1.22	1.32	1.63	2.01	2.22
<b>132.5</b>	1.15	1.11	1.01	1.15	1.20	1.27	1.43	1.62	2.01	1.98

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**CANDELA TABULATION - (Cont.)**

135.0	1.16	1.23	1.21	1.26	1.27	1.31	1.57	1.66	1.99	2.19
137.5	1.36	1.43	1.44	1.35	1.37	1.46	1.62	1.76	1.92	2.09
140.0	1.62	1.80	1.60	1.78	1.55	1.70	1.73	1.90	2.06	2.10
142.5	1.76	1.81	1.71	1.99	1.76	1.98	2.04	2.13	2.16	2.16
145.0	2.18	2.29	2.16	2.21	2.27	2.41	2.09	2.28	2.37	2.59
147.5	2.59	2.52	2.57	2.59	2.67	2.61	2.59	2.71	2.74	2.75
150.0	2.79	2.82	3.02	2.94	2.97	3.06	3.03	3.09	3.00	3.11
152.5	3.17	3.20	3.35	3.31	3.39	3.49	3.42	3.47	3.57	3.52
155.0	3.40	3.47	3.48	3.70	3.76	3.73	3.95	3.81	3.89	4.04
157.5	3.83	3.90	3.74	3.88	4.08	4.32	4.31	4.30	4.33	4.46
160.0	4.02	4.04	4.09	4.33	4.40	4.66	4.39	4.57	4.65	4.88
162.5	4.15	4.32	4.37	4.49	4.75	4.65	4.84	4.82	5.18	5.22
165.0	4.37	4.54	4.54	4.68	4.82	4.95	4.89	5.22	5.17	5.26
167.5	4.70	4.76	4.74	4.95	4.92	4.98	5.11	5.25	5.22	5.40
170.0	4.90	5.04	4.97	4.95	4.98	5.09	5.44	5.38	5.40	5.38
172.5	5.06	5.07	5.25	5.17	5.28	5.38	5.36	5.28	5.29	5.43
175.0	5.21	5.29	5.24	5.34	5.27	5.31	5.37	5.23	5.34	5.68
177.5	5.36	5.24	5.31	5.48	5.54	5.29	5.35	5.36	5.44	5.55
180.0	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60

**Vert.  
Angles**

**Horizontal 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>
0.0	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26
2.5	7023.94	6984.72	7065.85	7020.57	7087.15	7156.21	7291.79	7368.04	7755.65	7798.55
5.0	5917.16	5928.38	5932.29	6005.07	6113.54	6180.34	6318.92	6508.90	7095.33	7177.90
7.5	4533.77	4551.81	4620.35	4636.78	4690.07	4834.58	5161.05	5338.52	5976.36	6099.98
10.0	3525.85	3528.04	3601.39	3641.08	3747.50	3831.82	3995.06	4130.54	4574.65	4685.85
12.5	2563.90	2584.13	2618.34	2637.41	2717.27	2798.20	2883.44	3026.54	3547.86	3623.62
15.0	1832.01	1860.80	1869.41	1894.14	1940.98	1975.08	2040.95	2162.10	2545.70	2608.49
17.5	1336.70	1370.15	1343.12	1345.10	1378.52	1400.85	1436.23	1503.74	1765.61	1820.14
20.0	960.94	996.35	932.12	941.96	983.73	982.29	1001.27	1024.95	1220.05	1254.35
22.5	704.38	672.98	660.33	664.66	683.80	687.57	694.73	700.22	822.65	854.29
25.0	524.28	492.70	476.63	472.53	470.75	476.98	477.38	484.83	561.93	582.77
27.5	407.17	387.54	374.55	362.77	348.72	350.33	356.09	360.70	398.68	413.07
30.0	311.46	307.83	294.32	280.91	263.78	259.09	268.56	271.56	299.27	306.60
32.5	244.70	241.04	233.18	219.90	203.86	196.95	205.55	208.73	227.17	232.50
35.0	193.51	186.29	180.13	168.35	160.24	153.61	157.97	160.35	174.87	178.50
37.5	150.68	143.35	138.41	130.67	127.92	124.47	123.59	124.74	135.63	138.27
40.0	123.61	113.42	107.37	102.21	103.13	102.18	99.44	97.56	106.02	109.31
42.5	100.97	91.06	85.59	83.61	84.02	83.46	81.65	79.24	86.51	88.70
45.0	85.59	76.14	70.48	69.21	69.82	69.48	69.11	66.32	71.79	72.80
47.5	73.70	64.25	59.22	58.12	59.13	58.10	58.67	55.93	61.76	61.91
50.0	62.30	55.14	50.48	49.47	49.84	49.75	49.92	48.17	52.79	53.06
52.5	53.98	47.37	44.21	42.33	42.43	42.86	42.98	41.10	45.13	45.52
55.0	47.56	41.56	38.60	36.80	36.26	36.63	36.50	35.48	39.03	39.22
57.5	41.52	37.11	34.16	32.86	31.42	31.60	31.31	30.79	33.09	33.19
60.0	36.00	32.34	29.91	28.77	27.40	26.80	26.37	25.88	28.14	28.00
62.5	30.88	27.74	26.20	25.15	23.62	22.82	22.32	21.63	23.78	23.60
65.0	27.36	23.94	22.36	21.97	20.73	19.32	18.62	17.82	19.48	19.51
67.5	22.80	20.86	18.94	18.20	17.86	16.68	15.45	14.44	15.55	16.03
70.0	19.31	17.17	16.41	15.66	15.07	14.19	12.66	11.41	12.45	13.00
72.5	16.07	14.01	13.13	12.90	12.66	12.02	10.43	8.94	9.75	10.49
75.0	13.21	11.69	10.72	10.56	10.49	9.79	8.52	6.92	7.34	8.16
77.5	10.82	9.30	8.34	8.35	8.49	7.87	6.87	5.32	5.57	6.15
80.0	8.50	7.30	6.54	6.49	6.41	5.92	5.20	3.90	4.04	4.68

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**CANDELA TABULATION - (Cont.)**

82.5	7.05	5.62	5.12	4.94	4.85	4.55	3.74	2.79	2.77	3.48
85.0	5.95	4.73	4.19	3.97	3.58	3.38	2.76	2.04	1.89	2.43
87.5	5.07	4.09	3.39	3.26	2.92	2.54	1.96	1.40	1.28	1.60
90.0	4.40	3.47	2.95	2.76	2.49	2.09	1.46	0.94	0.90	1.29
92.5	4.09	3.18	2.54	2.36	2.16	1.68	1.13	0.79	0.77	1.06
95.0	3.71	2.84	2.26	2.05	1.91	1.40	1.09	0.88	0.74	0.95
97.5	3.52	2.45	2.14	1.94	1.58	1.35	1.05	0.74	0.71	0.93
100.0	3.27	2.35	1.81	1.66	1.39	1.16	1.00	0.80	0.78	0.81
102.5	3.14	2.28	1.78	1.54	1.23	1.08	0.95	0.81	0.70	0.86
105.0	3.11	2.26	1.69	1.37	1.22	1.01	1.02	0.74	0.87	0.83
107.5	2.91	1.96	1.51	1.35	1.17	0.99	0.74	0.79	0.80	0.90
110.0	2.50	1.84	1.45	1.44	1.04	0.96	0.86	0.83	0.76	0.92
112.5	2.23	1.73	1.27	1.33	1.21	1.00	0.97	0.67	0.76	0.83
115.0	2.38	1.72	1.47	1.26	1.22	0.83	0.86	0.74	0.87	0.75
117.5	2.25	1.71	1.27	1.17	1.19	0.93	0.89	0.77	0.74	0.94
120.0	2.09	1.77	1.51	1.37	0.98	0.84	0.77	0.92	0.81	0.81
122.5	1.87	1.75	1.45	1.06	1.00	0.98	0.79	0.79	0.88	0.87
125.0	1.91	1.65	1.53	1.18	1.13	0.91	0.81	0.78	0.95	0.80
127.5	1.85	1.63	1.52	1.22	0.99	0.96	0.97	0.93	0.95	0.84
130.0	1.97	1.60	1.48	1.18	1.09	1.06	0.95	0.91	1.00	0.94
132.5	1.98	1.61	1.36	1.24	1.13	1.18	1.11	1.01	1.07	1.17
135.0	1.81	1.63	1.36	1.21	1.22	1.27	1.18	1.22	1.23	1.19
137.5	1.93	1.76	1.42	1.42	1.38	1.42	1.31	1.52	1.35	1.32
140.0	2.04	1.76	1.72	1.56	1.60	1.65	1.71	1.66	1.61	1.71
142.5	2.25	2.10	1.76	1.95	1.84	2.01	1.92	2.01	1.92	1.86
145.0	2.33	2.30	2.18	2.27	2.23	2.28	2.31	2.18	2.17	2.14
147.5	2.70	2.78	2.67	2.76	2.57	2.75	2.59	2.51	2.58	2.43
150.0	3.02	3.04	3.05	2.90	2.90	2.93	3.03	2.81	2.69	2.86
152.5	3.47	3.54	3.47	3.39	3.39	3.22	3.37	3.07	3.18	3.08
155.0	3.84	3.92	3.85	3.81	3.79	3.64	3.39	3.47	3.53	3.55
157.5	4.50	4.54	4.30	4.23	4.08	3.97	3.71	3.69	3.64	3.68
160.0	4.76	4.57	4.74	4.42	4.41	4.32	4.18	3.94	3.90	3.88
162.5	5.12	4.86	4.78	4.61	4.47	4.34	4.15	4.18	4.13	4.14
165.0	5.09	4.94	4.98	4.67	4.52	4.50	4.37	4.51	4.52	4.50
167.5	5.09	5.02	5.15	4.86	4.73	4.82	4.63	4.77	4.82	4.80
170.0	5.24	5.18	5.04	5.11	5.02	5.00	4.77	4.96	4.97	5.03
172.5	5.39	5.24	5.14	5.04	5.00	5.07	5.13	5.09	5.24	5.21
175.0	5.39	5.18	5.36	5.31	5.13	5.23	5.27	5.40	5.44	5.34
177.5	5.40	5.31	5.37	5.30	5.43	5.46	5.35	5.31	5.46	5.52
180.0	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60

**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>
0.0	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26
2.5	7851.27	7834.61	7864.63	7878.38	7845.58	7903.83	7937.48	7904.77	7792.95	7774.99
5.0	7254.09	7377.66	7429.78	7457.56	7453.94	7404.95	7419.00	7384.85	7404.44	7336.62
7.5	6182.49	6328.48	6469.93	6473.52	6486.21	6374.71	6472.30	6462.70	6491.19	6368.01
10.0	4691.37	4951.87	5128.04	4782.39	5042.29	4813.77	5284.54	5291.68	5081.58	4946.14
12.5	3706.83	3762.27	3848.80	3912.01	3989.94	3998.20	4013.41	4002.82	3961.39	3914.69
15.0	2682.84	2746.53	2810.86	2892.12	2914.02	2928.05	2927.19	2907.73	2849.91	2822.61
17.5	1881.43	1934.58	2004.98	2045.44	2057.67	2070.44	2095.83	2070.17	2058.48	1976.61
20.0	1304.92	1345.16	1384.04	1408.24	1440.35	1478.06	1489.02	1468.57	1448.79	1392.79
22.5	890.97	933.23	957.26	989.83	1001.78	1039.69	1057.22	1064.80	1029.96	982.18
25.0	618.55	646.79	676.55	699.44	706.78	741.03	759.24	763.26	752.62	700.61
27.5	433.56	447.59	470.50	479.78	507.01	505.65	565.60	566.40	535.39	501.06

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

30.0	318.73	333.46	352.98	369.39	388.83	413.99	424.51	421.71	412.44	390.83
32.5	240.36	245.79	264.35	283.11	296.37	316.33	324.61	322.97	312.57	300.36
35.0	184.54	188.10	200.28	214.27	228.59	243.42	255.75	255.80	245.42	235.41
37.5	144.31	150.89	156.27	166.77	178.73	190.12	202.20	202.83	196.09	185.50
40.0	113.58	120.43	125.07	131.95	140.28	149.79	162.22	164.29	157.02	146.60
42.5	92.43	98.75	101.75	106.13	112.10	120.81	132.47	136.02	128.46	118.51
45.0	76.87	81.29	84.95	87.57	91.07	99.60	108.67	112.79	107.50	98.18
47.5	64.89	68.37	71.45	72.82	76.97	82.71	92.00	95.87	90.78	82.71
50.0	55.57	58.10	60.29	61.50	64.99	71.46	78.61	81.17	77.42	70.84
52.5	47.66	50.18	51.73	52.85	56.12	60.93	66.76	69.89	66.11	60.89
55.0	41.38	43.69	44.33	45.51	48.65	52.92	58.16	60.89	57.09	52.88
57.5	36.00	37.85	38.54	40.27	42.55	45.57	50.64	52.97	50.08	45.71
60.0	30.82	32.20	32.88	34.63	36.56	39.62	44.34	46.47	43.53	39.38
62.5	25.94	27.22	28.44	30.06	31.57	34.72	38.38	40.29	37.59	34.49
65.0	21.61	23.13	24.70	25.85	27.56	30.11	33.39	35.21	32.72	29.87
67.5	18.08	19.68	21.27	22.15	23.92	26.00	29.24	31.10	28.66	25.56
70.0	14.91	16.86	18.17	19.25	20.39	22.47	25.01	26.68	24.58	22.14
72.5	12.14	14.28	15.09	16.41	17.61	19.08	21.61	23.05	20.97	18.85
75.0	10.01	11.55	13.13	13.69	14.81	16.21	18.28	19.76	17.98	15.75
77.5	8.04	9.59	10.69	11.51	11.88	13.39	15.67	16.69	15.14	12.85
80.0	6.35	7.79	8.53	8.97	9.82	10.92	12.62	13.73	12.39	10.49
82.5	4.92	6.09	6.80	7.28	7.65	8.36	10.23	11.06	9.78	8.25
85.0	3.64	4.64	5.26	5.65	6.06	6.66	8.16	8.96	7.81	6.38
87.5	2.68	3.68	4.11	4.39	4.74	5.43	6.86	7.51	6.40	5.25
90.0	2.00	2.83	3.21	3.48	3.79	4.32	5.64	6.48	5.49	4.21
92.5	1.56	2.36	2.64	2.85	3.07	3.78	4.84	5.47	4.62	3.48
95.0	1.17	1.84	2.29	2.44	2.75	3.30	4.25	4.96	4.10	3.12
97.5	1.06	1.47	1.88	2.02	2.35	2.91	3.99	4.50	3.68	2.74
100.0	1.03	1.28	1.69	1.80	2.12	2.68	3.57	4.06	3.32	2.49
102.5	0.83	1.21	1.54	1.67	1.98	2.48	3.38	3.77	3.08	2.38
105.0	0.88	1.18	1.36	1.58	1.83	2.28	2.97	3.48	3.05	2.28
107.5	0.97	1.06	1.17	1.50	1.80	2.17	2.87	3.36	2.67	2.19
110.0	0.80	1.05	1.10	1.29	1.53	2.22	2.95	3.55	2.67	2.00
112.5	0.92	0.94	1.20	1.47	1.63	1.92	2.84	3.26	2.55	1.96
115.0	0.83	0.91	1.08	1.35	1.62	1.88	2.72	3.04	2.59	1.76
117.5	0.89	1.10	1.13	1.13	1.52	1.72	2.39	2.75	2.40	1.61
120.0	0.97	0.83	1.13	1.26	1.49	1.80	2.33	2.64	2.17	1.69
122.5	0.88	1.02	1.11	1.18	1.34	1.81	2.31	2.45	2.04	1.65
125.0	0.75	0.99	1.13	1.08	1.45	1.66	2.09	2.32	1.89	1.59
127.5	0.81	0.94	1.02	1.17	1.38	1.56	1.97	2.18	1.90	1.67
130.0	0.98	0.95	1.03	1.21	1.42	1.65	1.95	2.12	2.00	1.57
132.5	1.08	1.02	1.06	1.23	1.31	1.69	1.93	2.01	1.87	1.66
135.0	1.19	1.15	1.10	1.31	1.39	1.75	1.97	2.07	1.84	1.62
137.5	1.48	1.24	1.20	1.41	1.26	1.66	1.75	2.04	1.80	1.62
140.0	1.50	1.32	1.30	1.39	1.43	1.72	1.99	2.00	1.91	1.67
142.5	1.85	1.67	1.80	1.48	1.80	1.73	2.05	1.95	1.90	1.69
145.0	2.12	2.08	1.95	1.92	1.89	1.90	2.06	2.22	2.07	1.87
147.5	2.47	2.60	2.39	2.27	2.22	2.09	2.33	2.41	2.27	2.29
150.0	2.88	2.82	2.62	2.69	2.63	2.57	2.45	2.56	2.55	2.58
152.5	3.23	3.14	3.09	2.90	2.84	2.83	2.98	2.95	2.88	2.93
155.0	3.57	3.69	3.60	3.34	3.32	3.30	3.27	3.43	3.47	3.30
157.5	3.72	3.92	3.82	3.84	3.87	3.81	3.77	3.84	3.59	3.69
160.0	4.04	4.13	4.04	4.13	4.10	4.19	4.30	4.15	4.13	4.14
162.5	4.30	4.39	4.28	4.48	4.51	4.60	4.65	4.65	4.59	4.48
165.0	4.50	4.60	4.74	4.81	4.96	4.91	5.16	5.19	5.12	4.93
167.5	4.65	4.93	4.97	5.09	5.17	5.25	5.40	5.55	5.39	5.39

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SPYLED4WT40MBD.IES**

**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	4.99	5.13	5.06	5.30	5.25	5.44	5.41	5.49	5.60	5.53
<b>172.5</b>	5.21	5.32	5.36	5.35	5.36	5.47	5.54	5.87	5.78	5.71
<b>175.0</b>	5.36	5.37	5.49	5.43	5.56	5.52	5.62	5.88	5.71	5.67
<b>177.5</b>	5.71	5.65	5.45	5.59	5.54	5.49	5.64	5.83	5.76	5.78
<b>180.0</b>	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60

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

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
<b>0.0</b>	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26	7715.26
<b>2.5</b>	7712.67	7674.33	7600.10	7604.11	7595.77	7613.99	7500.05
<b>5.0</b>	7229.98	7108.99	7110.60	6995.17	6923.80	6839.74	6672.41
<b>7.5</b>	6333.12	6184.66	6096.85	6030.46	5971.37	5780.11	5464.87
<b>10.0</b>	5023.53	4930.36	4666.64	4615.05	4536.00	4494.70	4182.89
<b>12.5</b>	3870.47	3738.42	3623.37	3552.75	3463.40	3402.13	3040.27
<b>15.0</b>	2779.71	2694.42	2586.70	2498.38	2447.75	2392.16	2110.94
<b>17.5</b>	1942.67	1866.47	1814.28	1732.13	1695.79	1645.08	1444.46
<b>20.0</b>	1360.35	1291.43	1246.08	1180.05	1158.25	1129.73	984.25
<b>22.5</b>	938.77	895.26	858.88	831.26	794.78	764.76	666.58
<b>25.0</b>	656.51	624.84	597.05	578.97	557.16	528.16	453.29
<b>27.5</b>	466.66	445.87	497.60	420.19	401.27	375.28	329.87
<b>30.0</b>	364.81	339.43	409.95	306.88	299.87	280.67	254.75
<b>32.5</b>	283.09	262.37	322.30	233.14	233.83	225.71	206.78
<b>35.0</b>	221.76	208.29	234.65	181.66	186.80	182.69	166.36
<b>37.5</b>	176.31	163.42	153.73	146.49	149.45	146.76	132.52
<b>40.0</b>	139.69	131.57	125.89	123.42	121.36	116.64	105.26
<b>42.5</b>	111.89	107.74	105.01	103.78	97.46	94.02	85.34
<b>45.0</b>	91.38	89.24	88.04	87.70	80.15	77.76	72.17
<b>47.5</b>	77.96	76.00	75.05	73.56	67.87	65.22	62.80
<b>50.0</b>	66.60	64.37	64.10	61.89	58.53	55.25	54.11
<b>52.5</b>	57.87	55.85	54.94	53.54	50.67	47.98	45.56
<b>55.0</b>	50.24	48.01	47.00	46.67	42.99	41.06	38.44
<b>57.5</b>	43.72	41.81	40.11	40.45	37.53	35.55	32.69
<b>60.0</b>	37.66	36.19	34.21	33.82	32.16	29.72	27.31
<b>62.5</b>	32.17	30.88	29.06	28.80	27.33	24.38	22.70
<b>65.0</b>	27.87	26.29	24.93	24.32	22.84	20.19	18.23
<b>67.5</b>	23.95	22.39	21.11	20.30	18.89	16.67	14.53
<b>70.0</b>	20.35	18.84	17.65	17.07	16.02	13.36	11.50
<b>72.5</b>	17.46	16.13	14.73	14.02	13.05	10.33	8.95
<b>75.0</b>	14.84	13.53	12.36	11.43	10.02	8.12	6.85
<b>77.5</b>	11.97	11.36	10.50	9.25	7.98	6.29	5.00
<b>80.0</b>	9.52	9.06	8.48	7.45	6.09	4.56	3.62
<b>82.5</b>	7.65	7.01	6.44	5.88	4.66	3.56	2.37
<b>85.0</b>	5.98	5.48	5.12	4.63	3.66	2.28	1.64
<b>87.5</b>	4.76	4.19	3.93	3.54	2.54	1.66	1.08
<b>90.0</b>	3.79	3.55	3.21	2.71	1.96	1.16	0.85
<b>92.5</b>	3.12	2.92	2.57	2.12	1.46	0.96	0.71
<b>95.0</b>	2.67	2.52	2.21	1.77	1.25	0.92	0.83
<b>97.5</b>	2.40	2.07	1.85	1.43	1.09	0.87	0.75
<b>100.0</b>	2.13	1.86	1.68	1.15	1.03	0.79	0.89
<b>102.5</b>	1.97	1.68	1.30	1.16	1.03	0.71	0.68
<b>105.0</b>	1.76	1.55	1.34	1.12	1.00	0.89	0.84
<b>107.5</b>	1.69	1.42	1.18	0.97	0.89	0.86	0.80
<b>110.0</b>	1.65	1.41	1.10	1.00	0.93	0.90	0.76
<b>112.5</b>	1.59	1.23	1.14	0.99	0.85	0.79	0.79
<b>115.0</b>	1.48	1.15	1.34	1.02	0.95	0.76	0.96

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

117.5	1.34	1.19	1.13	1.00	0.81	0.79	0.75
120.0	1.51	1.26	1.07	0.89	0.81	0.74	0.71
122.5	1.24	1.34	1.11	1.06	0.86	0.85	0.86
125.0	1.38	1.11	1.05	0.94	0.91	0.83	0.86
127.5	1.38	1.33	1.00	1.02	1.00	0.78	0.87
130.0	1.34	1.16	1.09	0.89	0.85	0.87	0.94
132.5	1.43	1.35	0.92	1.25	1.16	1.17	1.15
135.0	1.36	1.45	1.15	1.24	1.14	1.19	1.16
137.5	1.67	1.40	1.33	1.27	1.44	1.58	1.36
140.0	1.56	1.62	1.41	1.46	1.56	1.63	1.62
142.5	1.73	1.76	1.70	1.77	1.87	2.01	1.76
145.0	1.96	1.90	1.85	2.05	2.03	2.24	2.18
147.5	2.32	2.20	2.30	2.31	2.40	2.37	2.59
150.0	2.48	2.40	2.62	2.77	2.93	2.63	2.79
152.5	2.81	2.95	2.98	3.11	3.13	3.12	3.17
155.0	3.21	3.25	3.47	3.34	3.44	3.51	3.40
157.5	3.63	3.77	3.87	3.92	3.85	3.68	3.83
160.0	4.12	4.02	4.19	4.09	3.97	3.85	4.02
162.5	4.51	4.68	4.62	4.32	4.37	4.41	4.15
165.0	4.91	4.99	4.94	4.74	4.67	4.54	4.37
167.5	5.22	5.11	5.01	4.96	5.01	4.87	4.70
170.0	5.46	5.40	5.34	5.28	5.22	5.01	4.90
172.5	5.49	5.61	5.46	5.31	5.38	5.41	5.06
175.0	5.53	5.61	5.49	5.52	5.42	5.41	5.21
177.5	5.54	5.55	5.58	5.57	5.60	5.69	5.36
180.0	5.60	5.60	5.60	5.60	5.60	5.60	5.60

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1214.43	N.A.	68.20
0-30	1494.82	N.A.	83.90
0-40	1620.4	N.A.	91.00
0-60	1725.94	N.A.	96.90
0-80	1762.78	N.A.	99.00
0-90	1768.05	N.A.	99.30
10-90	1209.63	N.A.	67.90
20-40	405.96	N.A.	22.80
20-50	471.45	N.A.	26.50
40-70	129.73	N.A.	7.30
60-80	36.84	N.A.	2.10
70-80	12.65	N.A.	0.70
80-90	5.27	N.A.	0.30
90-110	4.25	N.A.	0.20
90-120	5.63	N.A.	0.30
90-130	6.79	N.A.	0.40
90-150	9.27	N.A.	0.50
90-180	12.75	N.A.	0.70
110-180	8.50	N.A.	0.50
0-180	1780.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	558.42
10-20	656.01
20-30	280.39
30-40	125.58
40-50	65.48
50-60	40.06
60-70	24.18
70-80	12.65
80-90	5.27
90-100	2.51
100-110	1.74
110-120	1.38
120-130	1.16
130-140	1.12
140-150	1.36
150-160	1.63
160-170	1.34
170-180	0.51



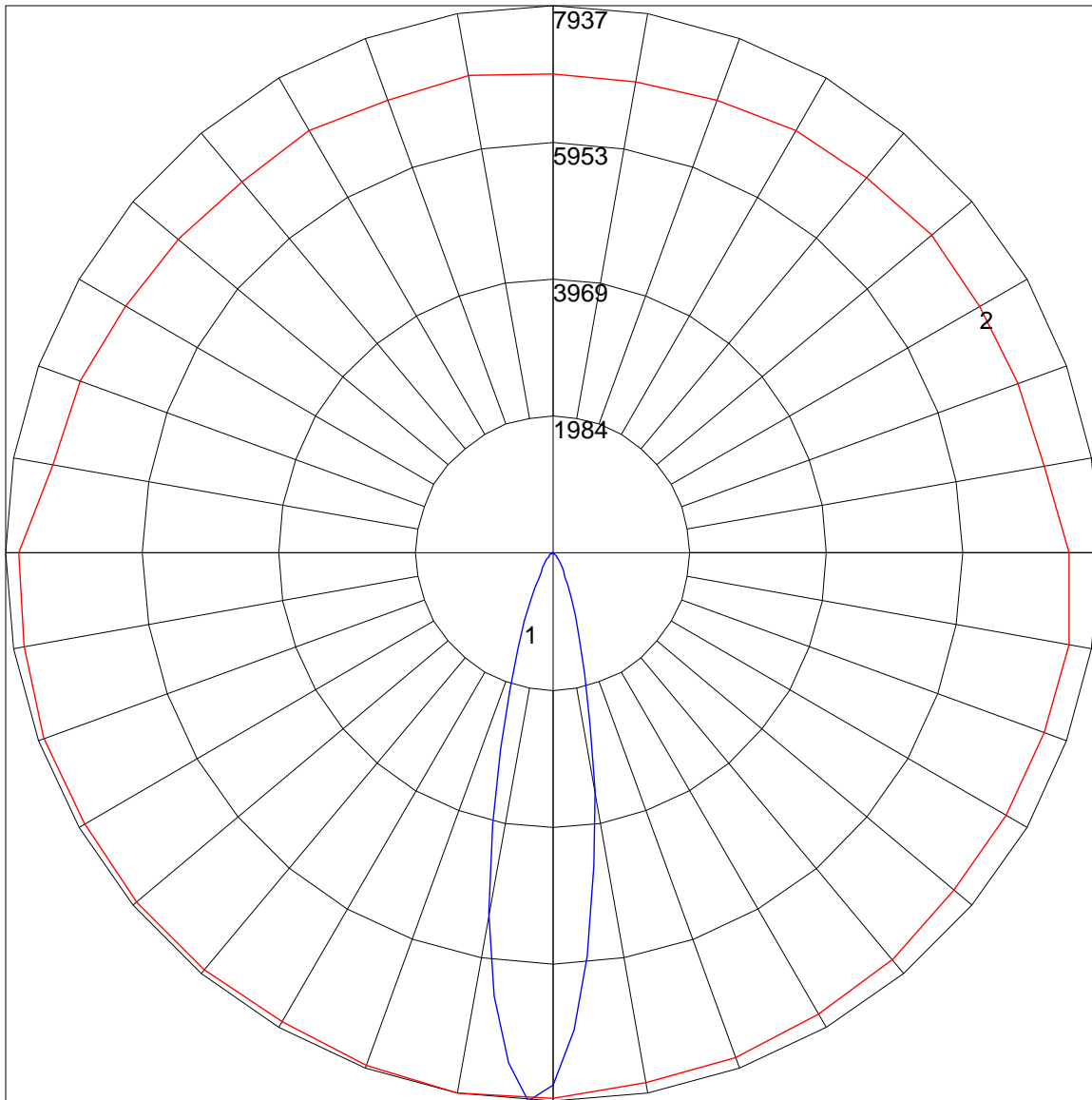
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SPYLED4WT40MBD.IES**

**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	101	101	101	99
1	114	112	109	107	111	109	107	106	105	104	102	101	100	99	98	97	96	94
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	94	93	91	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	85
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	82
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78
6	94	87	82	79	93	86	82	78	85	81	78	83	80	77	82	79	77	75
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	79	76	74	73
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	71	69	68
10	83	75	71	68	82	75	70	68	74	70	67	73	70	67	73	69	67	66

POLAR GRAPH



Maximum Candela = 7937.48 Located At Horizontal Angle = 260, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (260 - 80) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)