



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 6,971
 [TESTLAB] CSA Group
 [ISSUEDATE] 12/16/2013 2:41:59 PM
 [MANUFAC] Beghelli
 [LUMINAIRE] SPY LED IP684WT57MBD 24V RAW
 [_AMBIENT] 25.1 deg C
 [_POWERFACTOR] 0.971
 [_ATHD] 7.22%
 [_CURRENT] 0.22
 [_VOLTAGE] 120.22
 [_STABILIZATION] 23:22.1 Stable
 [_POWER VARIATION] 0.30 %
 [_LIGHT VARIATION] 0.50 %
 [_Lumens] 2,029.47

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2043
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	26.32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.38
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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PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73
2.5	9199.38	9065.97	9056.44	9043.35	9144.87	9100.10	9060.21	9109.81	9074.69	9095.78
5.0	8164.64	7907.84	7997.31	7989.19	8066.64	8084.57	8127.43	8150.21	8047.69	8048.87
7.5	6729.41	6410.56	6500.68	6537.55	6517.29	6586.09	6688.42	6668.48	6691.94	6682.91
10.0	5027.51	4872.39	4936.98	4812.02	4902.75	4942.14	5090.27	5139.25	5181.96	5215.29
12.5	3625.43	3542.95	3576.45	3577.90	3649.48	3731.50	3789.60	3768.36	3772.08	3773.09
15.0	2467.97	2401.07	2459.99	2464.53	2568.12	2592.03	2664.11	2659.61	2687.65	2705.75
17.5	1655.36	1610.76	1636.09	1654.42	1748.33	1793.36	1836.57	1893.40	1927.90	1944.85
20.0	1098.82	1086.07	1108.81	1140.06	1196.79	1238.63	1282.07	1344.39	1368.44	1388.15
22.5	720.57	726.34	752.34	800.31	815.43	861.14	890.24	953.06	987.42	1010.18
25.0	486.76	486.31	523.18	560.57	583.43	593.06	632.05	677.92	726.80	748.43
27.5	349.07	359.41	381.10	400.23	424.45	442.72	460.33	509.23	544.60	554.15
30.0	268.12	277.88	286.27	291.44	315.15	345.31	367.04	402.36	423.62	425.40
32.5	216.09	223.45	221.78	220.44	245.50	270.92	294.59	326.64	338.38	332.86
35.0	172.65	180.67	176.14	174.46	190.85	216.49	236.97	253.90	264.92	260.89
37.5	138.11	141.56	141.87	144.63	152.02	168.96	184.31	195.67	216.74	214.02
40.0	109.60	112.09	114.99	121.92	123.86	132.80	143.90	156.08	170.75	178.05
42.5	88.88	89.17	94.62	102.56	102.16	105.47	115.03	125.60	145.66	150.67
45.0	75.96	73.84	78.65	85.91	85.81	85.77	93.35	104.58	117.98	124.73
47.5	65.19	63.18	67.67	70.96	71.87	71.69	78.45	86.48	100.80	104.21
50.0	55.65	54.23	57.69	59.74	61.07	61.35	66.00	73.33	83.58	89.21
52.5	47.25	46.57	48.97	50.64	52.29	53.50	56.97	62.82	71.61	76.82
55.0	40.08	39.40	42.52	43.40	44.46	46.39	49.72	54.76	62.43	66.50
57.5	34.42	34.11	35.81	36.71	38.26	40.47	43.57	47.21	54.18	57.92
60.0	28.71	28.90	30.05	31.11	32.95	35.71	37.84	41.97	46.61	49.76
62.5	23.61	23.69	25.48	26.64	28.10	31.67	33.24	36.09	40.72	43.83
65.0	19.48	19.31	21.19	22.64	24.40	27.07	28.58	31.62	35.19	38.09
67.5	15.50	15.66	17.71	19.02	20.94	23.16	24.67	26.92	30.47	33.04
70.0	12.04	12.91	14.19	16.10	17.99	19.61	20.72	22.88	25.98	28.33
72.5	9.17	10.02	11.42	13.80	15.08	16.23	17.23	19.01	21.99	24.10
75.0	7.02	7.49	9.23	11.40	12.31	13.45	14.17	15.63	18.26	20.17
77.5	5.18	5.60	7.49	9.27	9.98	10.62	11.36	12.88	15.33	17.21
80.0	3.55	4.18	5.86	7.18	7.94	8.46	9.20	10.38	12.63	14.28
82.5	2.43	3.11	4.34	5.61	6.15	6.71	7.35	8.23	10.43	12.16
85.0	1.52	1.99	3.21	4.33	5.00	5.44	5.84	6.88	8.64	10.36
87.5	1.09	1.53	2.27	3.27	3.96	4.40	4.90	5.69	7.42	9.03
90.0	0.86	1.13	1.87	2.56	3.26	3.62	4.02	4.73	6.64	7.91
92.5	0.81	0.95	1.44	2.12	2.71	3.06	3.30	4.19	5.67	6.89
95.0	0.82	0.86	1.12	1.84	2.40	2.63	2.84	3.50	4.97	5.92
97.5	0.77	0.86	1.08	1.40	1.93	2.37	2.50	3.14	4.35	5.27
100.0	0.76	0.74	0.89	1.35	1.69	2.01	2.33	2.79	3.87	4.75
102.5	0.83	0.76	0.88	1.14	1.47	1.81	2.03	2.57	3.64	4.30
105.0	0.77	0.65	0.84	1.16	1.36	1.52	1.98	2.44	3.19	4.11
107.5	0.75	0.78	0.94	1.02	1.25	1.47	1.84	2.34	3.43	4.15
110.0	0.76	0.80	0.83	1.08	1.18	1.41	1.54	2.25	3.19	4.00
112.5	0.93	0.76	1.02	0.92	1.15	1.25	1.45	2.12	3.00	3.54
115.0	0.90	0.67	0.80	1.00	1.18	1.21	1.50	2.02	2.79	3.47
117.5	0.83	0.74	0.82	1.08	1.08	1.26	1.54	1.91	2.69	3.05
120.0	0.80	0.83	0.91	0.92	1.17	1.19	1.50	1.81	2.41	2.90
122.5	0.83	0.80	0.82	1.03	1.14	1.25	1.39	1.84	2.36	2.66
125.0	0.84	0.82	0.83	1.06	1.15	1.23	1.52	1.82	2.07	2.50
127.5	0.82	0.85	1.00	1.02	1.06	1.20	1.40	1.64	2.22	2.42
130.0	1.04	0.83	0.87	1.01	1.12	1.18	1.52	1.75	1.92	2.30
132.5	1.06	0.99	1.10	1.11	1.13	1.27	1.43	1.63	1.88	2.18

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

CANDELA TABULATION - (Cont.)

135.0	1.27	1.35	1.36	1.14	1.38	1.40	1.50	1.71	1.96	2.14
137.5	1.44	1.44	1.33	1.31	1.45	1.56	1.57	1.75	1.97	2.21
140.0	1.76	1.84	1.71	1.56	1.64	1.69	1.69	1.89	2.10	2.28
142.5	1.99	2.02	2.06	1.86	1.87	2.01	1.84	1.93	2.19	2.36
145.0	2.46	2.43	2.37	2.31	2.31	2.27	2.29	2.37	2.46	2.43
147.5	2.77	2.81	2.70	2.84	2.71	2.58	2.55	2.65	2.83	2.71
150.0	3.11	3.04	3.20	3.31	3.09	3.05	2.98	3.06	2.98	3.16
152.5	3.56	3.37	3.51	3.55	3.43	3.69	3.52	3.48	3.60	3.60
155.0	3.89	3.78	3.95	3.96	4.05	3.96	4.02	4.02	4.07	4.18
157.5	4.26	4.26	4.27	4.26	4.47	4.56	4.50	4.56	4.57	4.57
160.0	4.52	4.42	4.70	4.82	4.91	5.09	4.96	5.00	5.03	5.04
162.5	4.93	4.98	5.05	5.15	5.18	5.33	5.34	5.60	5.44	5.52
165.0	5.28	5.12	5.34	5.30	5.59	5.54	5.65	5.64	5.82	5.80
167.5	5.39	5.50	5.42	5.56	5.69	5.83	5.91	6.00	6.02	6.06
170.0	5.67	5.60	5.65	5.66	6.00	6.04	6.05	6.05	6.17	6.18
172.5	5.84	5.82	5.98	5.94	5.84	6.17	6.35	6.21	6.27	6.30
175.0	6.20	5.96	5.98	6.17	6.19	6.20	6.18	6.03	6.37	6.11
177.5	6.23	6.22	6.12	6.21	6.20	6.30	6.20	6.24	6.28	6.37
180.0	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38

**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	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73
2.5	9031.94	9059.46	8987.47	9010.50	9021.03	9036.50	9120.37	9061.61	9350.51	9305.17
5.0	8078.77	7994.63	8049.56	7964.92	8019.87	7948.35	7956.12	8008.27	8450.55	8449.11
7.5	6733.26	6591.53	6680.98	6555.33	6539.35	6473.94	6513.10	6506.45	7135.62	7104.05
10.0	5133.39	5132.83	4800.02	4970.31	4991.69	4973.13	4747.31	4975.99	5342.48	5442.87
12.5	3806.70	3731.12	3754.12	3739.84	3613.62	3593.63	3591.10	3611.75	4056.97	3889.80
15.0	2715.44	2677.17	2678.10	2573.10	2537.36	2477.20	2469.02	2466.96	2779.73	2737.71
17.5	1936.11	1916.30	1874.08	1793.94	1729.27	1703.14	1687.15	1687.53	1922.49	1870.24
20.0	1386.24	1350.71	1299.04	1240.73	1192.96	1168.12	1147.99	1123.18	1287.49	1260.42
22.5	1004.05	954.67	901.30	854.13	818.59	802.70	781.21	751.58	855.76	849.14
25.0	731.93	682.77	630.89	599.65	583.87	551.88	541.21	507.38	569.15	578.93
27.5	534.47	511.63	464.49	440.11	420.22	398.75	383.81	373.41	406.39	410.87
30.0	427.14	400.17	361.16	340.77	311.36	287.63	289.69	286.65	305.01	307.76
32.5	337.28	319.13	287.58	267.44	237.21	215.74	228.41	230.99	240.19	240.08
35.0	259.70	247.02	228.18	212.24	182.94	169.74	177.69	181.86	191.25	188.42
37.5	211.94	191.36	178.37	163.73	145.06	138.06	139.10	140.53	150.03	148.44
40.0	169.82	150.68	140.61	129.62	117.70	115.43	110.93	110.13	117.88	118.86
42.5	143.07	121.80	111.94	101.83	96.89	95.63	90.56	87.67	94.77	96.21
45.0	118.05	101.44	90.91	83.90	81.09	79.15	75.49	73.94	79.71	79.93
47.5	98.81	84.24	75.71	69.95	68.07	65.97	64.65	63.02	69.00	67.78
50.0	82.70	70.76	64.15	59.34	58.29	56.11	55.28	54.27	58.55	58.70
52.5	71.12	61.04	55.24	51.75	49.85	48.70	47.43	46.54	50.60	50.39
55.0	61.06	52.75	48.55	44.31	42.93	41.83	40.37	40.24	43.22	42.91
57.5	53.71	45.88	41.86	39.11	36.86	35.82	34.26	34.57	36.98	36.88
60.0	46.17	40.70	36.54	34.37	32.45	30.54	29.27	28.54	30.96	30.89
62.5	40.33	34.86	31.66	30.05	27.73	26.06	24.54	23.41	25.75	26.07
65.0	34.88	30.46	27.31	25.74	24.17	22.22	20.58	18.96	20.96	20.94
67.5	30.23	26.11	23.71	22.32	20.75	18.54	16.92	15.17	16.66	17.05
70.0	25.83	22.26	20.00	18.99	17.80	15.74	14.01	11.81	12.93	13.72
72.5	21.79	18.54	16.83	16.07	15.08	13.45	11.19	9.16	9.95	10.71
75.0	18.23	15.44	13.75	13.10	12.26	11.15	9.18	7.09	7.55	8.17
77.5	15.33	12.52	11.24	10.60	10.03	8.90	7.16	5.33	5.51	6.28
80.0	12.70	10.21	9.00	8.36	7.84	7.02	5.63	3.95	3.92	4.62

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PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

CANDELA TABULATION - (Cont.)

82.5	10.75	8.37	7.27	6.77	6.17	5.30	4.14	2.73	2.68	3.23
85.0	8.84	6.89	5.94	5.30	4.80	4.14	3.16	1.86	1.79	2.31
87.5	7.69	5.57	4.87	4.24	3.84	3.29	2.39	1.35	1.25	1.75
90.0	6.50	4.89	4.15	3.67	3.11	2.52	1.69	1.02	0.99	1.09
92.5	5.66	4.30	3.27	2.89	2.55	2.17	1.41	0.81	0.80	1.04
95.0	4.91	3.66	2.94	2.76	2.30	1.71	0.97	0.87	0.86	0.86
97.5	4.45	3.02	2.51	2.28	1.75	1.66	1.11	0.87	0.75	0.85
100.0	3.83	2.85	2.36	1.97	1.68	1.19	0.90	0.78	0.75	0.85
102.5	3.50	2.44	2.15	1.80	1.37	1.08	0.92	0.83	0.75	0.79
105.0	3.31	2.45	1.85	1.61	1.42	1.05	0.94	0.83	0.83	0.72
107.5	3.34	2.36	1.88	1.41	1.25	1.00	0.87	0.76	0.79	0.88
110.0	3.32	2.22	1.75	1.43	1.30	0.98	0.78	0.68	0.79	0.83
112.5	2.93	1.99	1.51	1.20	1.17	0.97	0.91	0.71	0.81	0.80
115.0	2.92	1.90	1.57	1.03	1.08	0.89	0.76	0.76	0.88	0.75
117.5	2.54	1.93	1.41	1.35	1.11	1.01	0.89	0.74	0.83	0.84
120.0	2.42	1.76	1.43	1.30	1.03	0.92	0.96	0.88	0.83	0.83
122.5	2.26	1.76	1.53	1.26	1.08	0.84	0.79	0.74	0.69	0.76
125.0	2.09	1.72	1.46	1.30	1.02	0.88	0.97	0.81	0.79	0.76
127.5	2.11	1.58	1.24	1.11	1.03	0.81	0.96	0.87	0.80	0.78
130.0	1.97	1.65	1.42	1.14	1.04	0.94	0.94	1.03	0.90	0.88
132.5	2.10	1.77	1.26	1.22	1.11	1.10	1.04	1.00	1.07	1.12
135.0	2.10	1.83	1.44	1.10	1.28	1.10	1.16	1.17	1.31	1.32
137.5	2.08	1.70	1.48	1.41	1.34	1.42	1.48	1.49	1.59	1.44
140.0	2.03	1.77	1.74	1.60	1.69	1.55	1.78	1.67	1.68	1.69
142.5	2.22	2.18	1.90	1.98	1.94	2.08	2.08	1.96	2.08	2.09
145.0	2.38	2.17	2.13	2.36	2.33	2.35	2.30	2.44	2.41	2.49
147.5	2.69	2.61	2.65	2.74	2.65	2.79	2.79	2.77	2.79	2.86
150.0	3.15	3.05	3.23	3.12	3.18	3.30	3.18	3.19	3.09	3.13
152.5	3.76	3.76	3.68	3.50	3.65	3.66	3.59	3.48	3.59	3.50
155.0	4.12	4.17	4.09	3.88	4.03	4.01	3.91	3.81	3.85	3.79
157.5	4.60	4.63	4.62	4.25	4.60	4.36	4.30	4.21	4.22	4.29
160.0	5.01	4.97	5.00	4.63	5.02	4.85	4.62	4.47	4.45	4.53
162.5	5.52	5.38	5.36	5.01	5.18	5.05	4.87	4.82	4.91	4.75
165.0	5.90	5.67	5.52	5.26	5.28	5.10	5.00	4.97	5.19	5.11
167.5	5.98	5.69	5.65	5.58	5.52	5.29	5.39	5.21	5.40	5.68
170.0	6.04	5.86	5.81	5.69	5.57	5.66	5.63	5.45	5.80	5.78
172.5	6.31	5.90	5.82	5.85	5.69	5.63	5.79	5.82	6.00	6.12
175.0	6.18	6.02	5.89	5.90	5.84	6.00	6.00	6.13	6.25	6.20
177.5	6.26	6.16	6.15	6.07	6.11	6.14	6.10	6.00	6.30	6.23
180.0	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38

**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	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73
2.5	9324.46	9321.38	9238.11	9214.61	9263.50	9166.20	9184.62	9140.44	9208.21	9085.90
5.0	8429.56	8342.30	8340.45	8309.14	8278.75	8273.58	8181.70	8121.70	8167.93	8105.51
7.5	6957.48	6943.28	6947.50	6892.84	6792.90	6803.08	6776.21	6772.66	6720.84	6743.84
10.0	5265.33	5378.25	5000.07	4856.73	5228.23	5230.36	5205.63	5101.48	5207.88	5183.42
12.5	3863.46	3843.11	3830.32	3852.20	3821.75	3806.51	3802.42	3797.38	3776.53	3776.26
15.0	2681.16	2693.04	2721.03	2746.19	2728.34	2710.50	2683.23	2658.66	2671.99	2666.68
17.5	1817.24	1835.42	1867.49	1895.38	1879.79	1892.11	1894.80	1880.61	1864.41	1839.00
20.0	1247.74	1265.72	1294.87	1274.47	1281.82	1323.42	1355.32	1348.41	1313.09	1272.84
22.5	859.77	885.41	886.78	879.01	891.09	927.25	956.17	960.84	934.95	883.31
25.0	599.84	613.14	614.19	602.99	630.72	664.71	692.64	691.61	677.78	631.32
27.5	424.53	435.79	444.18	448.28	461.94	482.15	520.47	511.22	492.32	464.81

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

CANDELA TABULATION - (Cont.)

30.0	311.82	319.24	333.72	345.28	361.14	384.66	390.53	387.09	379.96	359.80
32.5	236.61	239.94	255.90	272.95	280.41	297.05	305.20	301.97	293.07	278.83
35.0	185.88	186.96	197.46	210.29	220.51	231.39	239.93	237.78	230.24	220.01
37.5	149.76	153.04	157.79	164.22	173.52	182.58	189.25	189.37	182.64	171.91
40.0	121.85	127.31	127.30	130.72	137.94	140.76	151.03	154.62	145.82	134.36
42.5	100.66	105.38	105.03	106.78	109.82	114.98	127.13	130.77	123.02	109.44
45.0	84.30	87.56	87.79	88.61	90.40	96.37	106.58	110.29	102.76	91.98
47.5	71.69	73.42	74.17	73.41	75.75	81.70	91.73	94.46	89.05	79.23
50.0	61.66	62.75	63.21	62.88	65.55	70.88	78.21	81.25	76.25	69.58
52.5	52.61	53.85	53.66	53.79	56.33	61.04	68.47	71.52	66.46	59.94
55.0	45.42	46.57	45.52	46.67	49.50	52.95	59.65	62.66	58.26	51.77
57.5	38.83	39.67	39.49	40.79	42.89	46.76	51.53	54.15	50.56	45.99
60.0	32.77	33.68	33.68	35.52	37.33	40.46	44.95	47.80	43.65	39.77
62.5	27.68	27.97	28.78	30.77	32.22	34.73	38.36	40.90	37.50	34.24
65.0	22.68	23.72	24.60	26.42	27.67	29.29	33.51	36.05	32.46	28.79
67.5	18.96	20.05	21.42	22.58	23.66	25.42	28.14	30.12	27.73	25.06
70.0	15.56	16.94	18.00	19.00	19.50	20.84	23.62	25.77	23.20	20.40
72.5	12.40	14.24	15.06	15.82	15.95	17.22	19.81	21.66	19.42	16.96
75.0	9.95	11.70	12.47	12.69	12.85	13.93	16.45	17.99	16.20	13.88
77.5	7.92	9.29	10.23	9.84	10.26	11.20	13.83	15.50	13.44	11.12
80.0	6.21	7.23	7.69	7.69	8.11	9.29	11.39	12.89	11.28	9.05
82.5	4.79	5.66	5.72	5.89	6.36	7.34	9.43	11.01	9.12	7.29
85.0	3.40	4.04	4.42	4.71	5.12	6.02	7.91	9.13	7.73	6.03
87.5	2.39	3.02	3.55	3.90	4.48	5.14	6.91	8.42	6.76	5.03
90.0	1.85	2.43	2.91	3.32	3.79	4.35	6.31	7.57	6.14	4.44
92.5	1.51	1.94	2.53	2.86	3.10	3.86	5.57	7.09	5.62	3.72
95.0	1.20	1.66	1.99	2.58	2.68	3.54	5.23	6.52	5.19	3.34
97.5	1.04	1.41	1.88	2.12	2.64	3.09	4.68	5.87	4.52	3.10
100.0	0.92	1.13	1.68	1.94	2.17	2.96	4.24	5.48	4.24	2.81
102.5	0.96	1.12	1.50	1.74	2.14	2.56	3.88	5.14	3.96	2.73
105.0	0.89	1.04	1.37	1.67	1.80	2.49	3.50	4.68	3.71	2.48
107.5	0.80	1.03	1.30	1.48	1.78	2.20	3.32	4.26	3.48	2.07
110.0	0.91	1.12	1.01	1.28	1.33	2.17	3.07	3.71	3.04	1.95
112.5	1.07	1.16	1.19	1.29	1.49	1.95	2.90	3.64	2.83	1.94
115.0	0.90	0.95	1.08	1.30	1.55	1.86	2.72	3.30	2.66	1.95
117.5	0.76	0.98	1.12	1.16	1.47	1.74	2.65	3.31	2.55	1.74
120.0	0.78	0.93	1.05	1.32	1.47	1.75	2.31	3.01	2.53	1.93
122.5	0.74	0.99	1.03	1.27	1.44	1.80	2.13	2.61	2.22	1.72
125.0	0.82	0.88	0.95	1.14	1.42	1.58	2.05	2.53	2.14	1.65
127.5	0.83	1.02	1.09	1.40	1.35	1.48	1.94	2.23	2.10	1.73
130.0	0.89	0.86	1.10	1.27	1.35	1.66	2.03	2.11	1.88	1.68
132.5	0.93	0.94	1.15	1.20	1.39	1.67	2.11	2.11	2.00	1.79
135.0	1.28	1.29	1.32	1.34	1.57	1.73	2.09	2.26	2.11	1.84
137.5	1.64	1.55	1.44	1.52	1.53	1.84	2.05	2.36	2.19	1.94
140.0	1.74	1.75	1.66	1.66	1.71	1.81	2.30	2.31	2.25	2.01
142.5	2.02	2.03	2.02	1.94	1.94	2.08	2.24	2.36	2.51	2.02
145.0	2.49	2.33	2.34	2.26	2.35	2.52	2.52	2.69	2.69	2.37
147.5	2.80	2.90	2.66	2.71	2.68	2.86	2.91	2.94	2.89	2.79
150.0	3.29	3.28	3.19	3.19	3.03	3.17	3.19	3.27	3.30	3.21
152.5	3.70	3.82	3.63	3.70	3.75	3.59	3.70	3.80	3.67	3.59
155.0	4.03	4.17	4.25	4.08	4.32	4.09	4.12	4.21	4.33	4.20
157.5	4.36	4.51	4.75	4.79	4.73	4.64	4.67	4.61	4.77	4.72
160.0	4.56	4.72	4.96	4.97	5.08	5.17	5.31	5.09	5.01	5.13
162.5	5.00	5.09	5.18	5.36	5.46	5.47	5.59	5.60	5.62	5.51
165.0	5.23	5.33	5.37	5.77	5.77	5.87	6.14	6.03	6.08	5.97
167.5	5.55	5.68	5.88	6.01	6.02	6.18	6.21	6.51	6.46	6.32

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

CANDELA TABULATION - (Cont.)

170.0	5.75	5.91	6.03	5.96	6.19	6.19	6.47	6.68	6.61	6.24
172.5	6.06	6.16	6.24	6.30	6.17	6.38	6.45	6.54	6.56	6.52
175.0	6.26	6.30	6.33	6.23	6.34	6.35	6.60	6.65	6.69	6.41
177.5	6.46	6.30	6.19	6.18	6.19	6.45	6.47	6.65	6.50	6.43
180.0	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38	6.38

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>
0.0	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73	9504.73
2.5	9167.29	9094.97	9119.24	9133.30	9209.03	9302.17	9199.38
5.0	8181.65	8127.74	8231.76	8199.97	8315.66	8360.53	8164.64
7.5	6691.62	6741.96	6785.46	6861.58	6951.68	6985.15	6729.41
10.0	5053.45	5177.85	5179.77	5198.90	5177.90	5337.88	5027.51
12.5	3782.37	3752.90	3730.33	4277.89	3810.40	3854.45	3625.43
15.0	2669.82	2613.57	2576.26	3385.96	2608.76	2669.62	2467.97
17.5	1802.25	1802.30	1756.23	2494.03	1769.48	1806.08	1655.36
20.0	1228.71	1209.74	1204.60	1602.10	1188.14	1209.02	1098.82
22.5	842.41	815.80	815.97	813.89	800.89	799.33	720.57
25.0	583.68	558.33	547.82	568.29	549.29	541.76	486.76
27.5	431.03	410.85	407.80	397.09	394.21	386.35	349.07
30.0	334.61	315.44	299.89	287.87	290.13	289.18	268.12
32.5	260.86	249.00	229.60	215.89	224.20	230.34	216.09
35.0	206.68	194.79	181.43	170.26	180.68	186.13	172.65
37.5	162.04	152.44	145.27	142.90	146.92	147.40	138.11
40.0	129.02	121.99	117.95	120.36	121.09	118.09	109.60
42.5	103.70	99.91	98.75	101.71	99.39	96.18	88.88
45.0	86.27	84.31	83.85	85.67	83.38	81.21	75.96
47.5	73.25	71.21	71.98	71.98	71.02	68.84	65.19
50.0	63.42	61.14	62.27	62.03	61.41	58.16	55.65
52.5	55.04	53.38	52.68	53.09	53.16	50.28	47.25
55.0	48.49	46.00	44.98	45.94	45.70	43.16	40.08
57.5	42.52	40.74	39.17	40.25	39.31	37.73	34.42
60.0	37.29	35.50	33.31	33.89	33.07	31.86	28.71
62.5	32.13	30.77	28.83	28.24	28.17	26.60	23.61
65.0	27.81	26.64	24.71	23.82	23.27	21.72	19.48
67.5	23.53	22.25	21.29	20.22	19.10	17.16	15.50
70.0	19.70	19.00	17.87	17.01	15.99	14.09	12.04
72.5	16.07	15.87	14.93	14.16	12.95	10.87	9.17
75.0	12.73	12.77	12.46	11.62	10.55	8.31	7.02
77.5	10.17	9.81	10.08	9.25	8.23	6.43	5.18
80.0	7.90	7.86	7.68	7.31	6.38	4.69	3.55
82.5	6.30	5.91	5.78	5.64	4.75	3.52	2.43
85.0	5.13	4.59	4.44	4.21	3.47	2.38	1.52
87.5	4.33	3.81	3.43	3.09	2.39	1.63	1.09
90.0	3.82	3.33	2.95	2.51	1.71	1.15	0.86
92.5	3.31	2.66	2.43	1.93	1.31	0.90	0.81
95.0	2.60	2.46	2.14	1.62	1.35	0.81	0.82
97.5	2.50	2.14	1.91	1.33	1.02	0.82	0.77
100.0	2.28	1.89	1.49	1.25	0.92	0.94	0.76
102.5	1.94	1.74	1.46	1.11	0.89	0.85	0.83
105.0	1.85	1.54	1.26	1.08	0.85	0.89	0.77
107.5	1.70	1.44	1.28	0.85	0.89	0.86	0.75
110.0	1.59	1.41	1.24	1.03	0.90	0.88	0.76
112.5	1.52	1.45	1.20	1.00	0.91	0.78	0.93
115.0	1.58	1.22	1.17	0.91	0.78	0.79	0.90

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

CANDELA TABULATION - (Cont.)

117.5	1.57	1.35	1.13	0.87	0.91	0.78	0.83
120.0	1.37	1.18	1.07	0.90	0.83	0.86	0.80
122.5	1.31	1.17	0.99	0.97	0.94	0.80	0.83
125.0	1.31	1.16	1.14	1.07	0.96	0.77	0.84
127.5	1.33	1.21	1.19	0.90	0.87	0.98	0.82
130.0	1.44	1.32	1.10	1.14	0.79	0.85	1.04
132.5	1.53	1.28	1.27	1.15	1.13	1.13	1.06
135.0	1.49	1.52	1.42	1.32	1.35	1.29	1.27
137.5	1.65	1.59	1.74	1.55	1.57	1.54	1.44
140.0	1.82	2.02	1.96	1.73	1.80	1.65	1.76
142.5	2.04	1.97	1.87	2.00	1.97	2.09	1.99
145.0	2.35	2.36	2.24	2.30	2.52	2.43	2.46
147.5	2.69	2.67	2.69	2.75	2.76	2.72	2.77
150.0	3.30	3.09	3.13	3.08	3.22	3.03	3.11
152.5	3.50	3.54	3.66	3.66	3.64	3.52	3.56
155.0	4.09	4.07	4.17	4.06	3.99	3.97	3.89
157.5	4.62	4.65	4.46	4.59	4.45	4.37	4.26
160.0	4.98	4.90	4.91	4.76	4.64	4.66	4.52
162.5	5.39	5.40	5.08	5.17	4.89	4.86	4.93
165.0	5.87	5.89	5.60	5.57	5.36	5.32	5.28
167.5	6.19	5.94	5.86	5.73	5.81	5.57	5.39
170.0	6.31	6.03	6.06	6.09	5.87	5.94	5.67
172.5	6.35	6.31	6.37	6.26	6.10	6.12	5.84
175.0	6.55	6.40	6.25	6.35	6.20	6.16	6.20
177.5	6.35	6.30	6.41	6.41	6.34	6.30	6.23
180.0	6.38	6.38	6.38	6.38	6.38	6.38	6.38

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1433.08	N.A.	70.10
0-30	1734.11	N.A.	84.90
0-40	1868.00	N.A.	91.40
0-60	1983.36	N.A.	97.10
0-80	2023.3	N.A.	99.00
0-90	2029.09	N.A.	99.30
10-90	1349.73	N.A.	66.10
20-40	434.91	N.A.	21.30
20-50	506.38	N.A.	24.80
40-70	141.75	N.A.	6.90
60-80	39.94	N.A.	2.00
70-80	13.55	N.A.	0.70
80-90	5.79	N.A.	0.30
90-110	4.82	N.A.	0.20
90-120	6.29	N.A.	0.30
90-130	7.48	N.A.	0.40
90-150	10.15	N.A.	0.50
90-180	14.13	N.A.	0.70
110-180	9.31	N.A.	0.50
0-180	2043.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	679.35
10-20	753.73
20-30	301.03
30-40	133.89
40-50	71.47
50-60	43.90
60-70	26.39
70-80	13.55
80-90	5.79
90-100	2.90
100-110	1.91
110-120	1.48
120-130	1.19
130-140	1.17
140-150	1.50
150-160	1.85
160-170	1.54
170-180	0.59

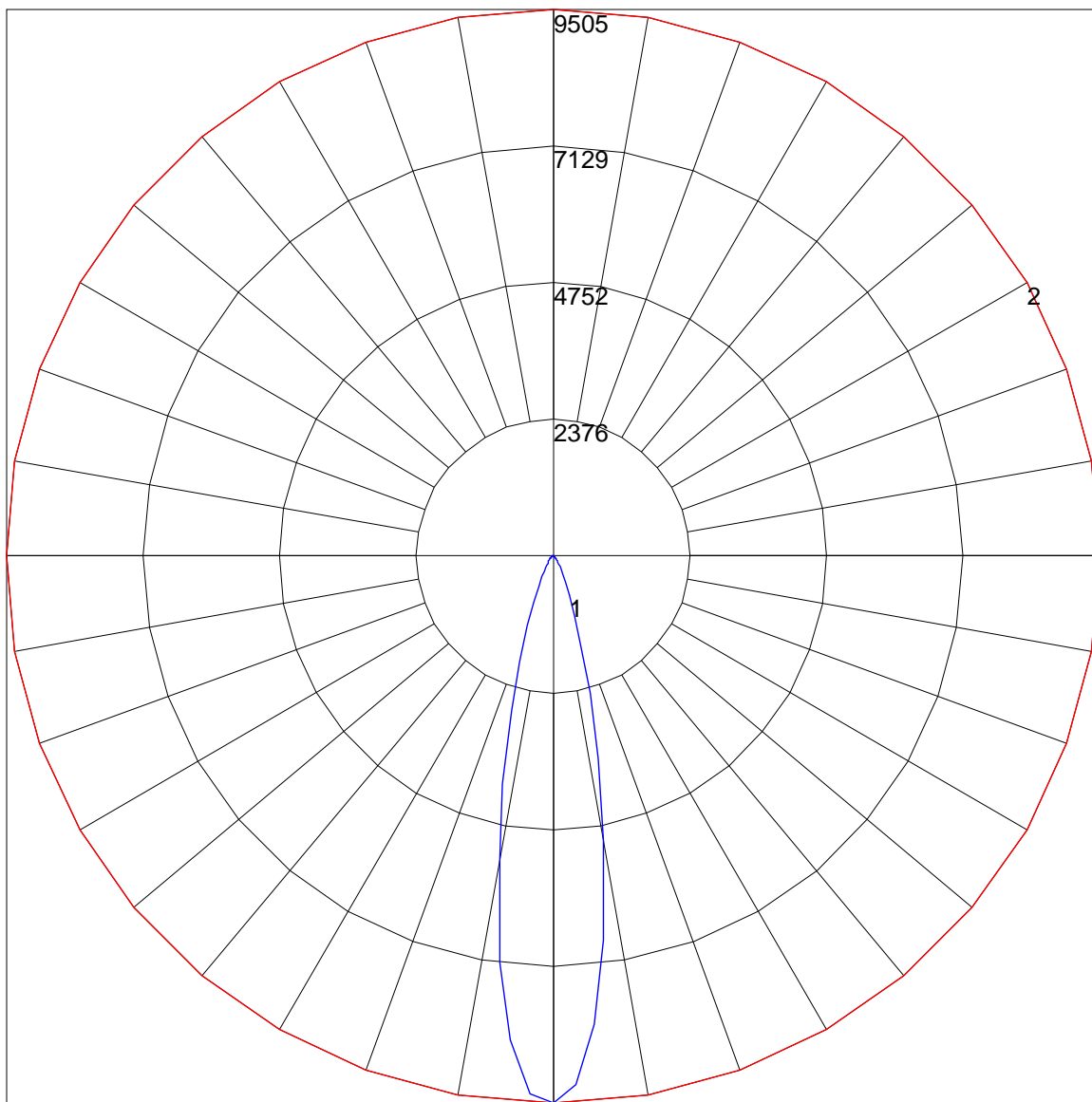
IES INDOOR REPORT
PHOTOMETRIC FILENAME : SPYLED4WT57MBD.IES

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	110	108	112	109	108	106	105	104	102	102	100	99	98	97	96	94
2	110	105	102	99	107	104	101	98	100	98	96	97	95	94	95	93	92	90
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	91	89	87	86
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	88	86	84	82
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	88	83	80	93	87	82	79	85	82	79	84	81	78	83	80	78	76
7	92	84	80	76	91	84	79	76	83	79	76	81	78	75	80	77	75	74
8	89	81	77	74	88	81	77	73	80	76	73	79	75	73	78	75	72	71
9	86	79	74	71	85	78	74	71	77	74	71	77	73	71	76	73	70	69
10	84	76	72	69	83	76	72	69	75	71	69	74	71	68	74	71	68	67

POLAR GRAPH



Maximum Candela = 9504.73 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)