



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SPYLED4WT57MWB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 6,966
 [TESTLAB] CSA Group
 [ISSUEDATE] 12/16/2013 10:16:26 AM
 [MANUFAC] Beghelli
 [LUMINAIRE] SPYLEDIP684WT57 HBD 24V RAW
 [_AMBIENT] 25.3 deg C
 [_POWERFACTOR] 0.971
 [_ATHD] 7.47%
 [_CURRENT] 0.22
 [_VOLTAGE] 120.22
 [_STABILIZATION] 41:53.8 Stable
 [_POWER VARIATION] 0.15 %
 [_LIGHT VARIATION] 0.50 %
 [_Lumens] 2,002.88

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2013
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	26.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.26
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.36
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

	0	10	20	30	40	50	60	70	80	90
0.0	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74
2.5	6526.08	6184.83	6337.86	6386.71	6360.70	6566.70	6657.08	6732.85	6781.17	6813.17
5.0	4771.42	4648.56	4605.77	4981.66	5340.71	5621.84	5958.34	6351.99	6560.91	6715.73
7.5	3227.74	3066.95	3182.94	3407.05	3880.97	4437.08	5177.09	5918.59	6486.00	6744.76
10.0	1925.79	1821.13	1936.37	2155.00	2664.18	3411.09	4376.90	5483.99	6482.45	6869.77
12.5	1148.26	1085.61	1159.17	1338.41	1760.12	2449.10	3544.33	4743.56	6226.29	6861.15
15.0	703.23	668.08	694.61	828.20	1128.72	1657.77	2717.86	4335.10	5897.05	6703.40
17.5	451.40	421.98	440.37	506.90	708.57	1146.92	2073.56	3589.96	5241.32	6071.31
20.0	311.85	283.08	292.59	347.65	473.52	801.81	1451.78	2690.67	4238.85	5145.92
22.5	232.96	208.12	210.83	248.75	346.78	545.70	969.90	1908.83	3269.68	4034.15
25.0	180.04	160.63	166.65	200.30	256.95	362.28	645.39	1307.56	2381.00	3088.34
27.5	144.43	130.99	136.68	162.90	195.75	252.79	432.30	881.83	1670.71	2207.60
30.0	117.79	108.94	116.05	135.85	150.08	182.26	295.52	572.18	1133.86	1528.46
32.5	99.06	91.17	96.28	110.23	115.45	137.85	209.74	403.78	778.96	1062.71
35.0	85.03	78.14	79.56	89.55	90.58	108.40	156.30	293.59	542.29	753.09
37.5	75.24	69.07	70.13	74.45	75.31	90.59	126.41	205.37	377.72	525.16
40.0	66.34	63.09	64.62	62.18	65.40	77.44	99.60	157.31	266.75	375.49
42.5	60.13	52.74	56.67	53.65	57.15	66.45	80.80	111.85	194.59	281.79
45.0	61.63	44.70	49.59	48.46	50.08	57.62	63.10	86.26	143.44	206.76
47.5	58.07	39.64	44.53	42.82	43.88	48.88	52.06	69.14	108.34	157.66
50.0	47.42	35.16	39.29	36.78	39.30	40.79	44.38	57.10	91.10	130.59
52.5	37.52	30.99	34.68	31.49	35.34	34.51	38.02	50.87	71.97	101.97
55.0	29.89	27.80	31.36	27.88	30.84	28.70	33.36	39.88	55.96	80.48
57.5	25.48	25.59	26.92	24.66	26.22	24.92	28.47	31.74	44.46	66.65
60.0	21.31	22.77	21.97	21.66	22.09	21.40	23.73	25.76	35.92	54.49
62.5	17.87	19.90	18.62	18.12	18.19	18.21	19.69	21.72	30.52	46.91
65.0	15.55	17.71	15.92	15.12	15.43	15.56	16.94	18.29	25.96	39.88
67.5	12.96	14.48	13.90	13.17	13.35	13.48	14.30	15.24	21.47	34.39
70.0	10.28	11.73	11.50	11.06	11.36	11.73	11.94	12.85	18.14	29.20
72.5	8.20	8.92	9.56	9.33	9.55	9.61	9.87	10.74	15.44	25.17
75.0	6.17	6.51	8.06	7.87	8.04	7.78	8.29	8.94	13.04	21.77
77.5	4.55	4.77	6.50	6.22	6.32	6.26	6.69	7.53	11.00	18.31
80.0	3.35	3.59	5.03	5.32	4.88	4.85	5.57	6.19	9.19	15.53
82.5	2.19	2.63	3.67	3.99	3.67	4.08	4.74	4.97	7.57	13.40
85.0	1.43	1.81	2.65	3.06	3.19	3.33	3.99	4.58	6.61	12.06
87.5	0.99	1.40	2.06	2.28	2.60	3.02	3.33	3.96	5.82	11.15
90.0	0.86	0.99	1.46	1.80	2.33	2.54	2.95	3.43	5.45	10.27
92.5	0.72	0.89	1.20	1.68	2.05	2.32	2.57	2.84	4.80	9.52
95.0	0.71	0.78	1.13	1.44	1.64	1.86	2.22	2.72	4.28	8.67
97.5	0.62	0.81	1.00	1.31	1.50	1.81	1.98	2.62	3.97	7.94
100.0	0.83	0.91	0.92	1.11	1.34	1.62	1.79	2.39	3.71	7.29
102.5	0.72	0.96	0.95	1.02	1.41	1.49	1.83	2.27	3.53	6.92
105.0	0.72	0.87	0.87	0.98	1.21	1.49	1.57	1.96	3.34	6.15
107.5	0.92	0.78	0.88	1.03	1.09	1.29	1.39	1.77	2.94	5.15
110.0	0.91	0.80	0.88	0.87	0.88	1.22	1.57	1.87	2.74	4.84
112.5	0.82	0.78	0.88	1.00	0.83	1.33	1.43	1.75	2.75	4.46
115.0	0.75	0.82	0.82	0.97	1.03	1.16	1.54	1.71	2.47	4.20
117.5	0.77	0.69	0.80	0.90	1.14	1.17	1.33	1.67	2.38	3.66
120.0	0.75	0.89	0.91	0.87	1.00	1.08	1.35	1.74	2.32	3.37
122.5	0.84	0.78	0.64	0.91	1.01	1.17	1.57	1.73	2.27	3.11
125.0	0.89	0.87	0.86	1.02	1.11	1.23	1.44	1.63	2.02	2.89
127.5	0.79	0.87	0.89	0.87	1.06	1.20	1.54	1.75	2.25	2.95
130.0	0.89	0.90	0.71	0.89	1.22	1.23	1.47	1.83	2.44	3.07
132.5	0.93	0.88	0.97	1.12	1.20	1.44	1.79	1.98	2.47	3.33

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CANDELA TABULATION - (Cont.)

135.0	0.95	0.94	1.10	1.10	1.34	1.63	1.85	2.19	2.88	3.43
137.5	1.01	1.17	1.18	1.39	1.50	1.70	2.03	2.44	3.12	3.48
140.0	1.31	1.43	1.48	1.57	1.76	1.95	2.25	2.57	3.30	3.57
142.5	1.71	1.65	1.68	1.83	1.94	2.20	2.57	2.96	3.39	3.78
145.0	1.98	2.09	2.00	2.28	2.42	2.55	2.84	3.14	3.48	3.88
147.5	2.33	2.44	2.44	2.60	2.65	2.87	3.11	3.39	3.67	4.02
150.0	2.77	2.70	2.90	2.97	2.96	3.10	3.36	3.66	3.85	3.95
152.5	3.17	3.13	3.14	3.22	3.23	3.53	3.59	3.69	4.05	4.07
155.0	3.46	3.54	3.57	3.48	3.56	3.76	3.76	3.92	4.24	4.20
157.5	3.81	3.95	3.86	3.74	3.90	4.20	4.19	4.31	4.35	4.57
160.0	4.29	4.28	4.32	4.22	4.38	4.29	4.39	4.54	4.66	4.72
162.5	4.62	4.53	4.49	4.53	4.63	4.61	4.75	4.71	4.72	4.91
165.0	4.93	4.70	4.63	4.69	4.67	4.90	4.85	5.04	5.15	5.26
167.5	4.95	5.17	5.01	5.14	5.11	5.11	5.24	5.41	5.43	5.53
170.0	5.38	5.47	5.47	5.48	5.62	5.59	5.61	5.82	5.73	5.79
172.5	5.74	5.83	5.79	5.84	5.84	5.83	5.99	5.99	6.06	6.02
175.0	5.93	6.17	6.18	6.04	5.96	6.12	6.11	6.14	6.18	6.07
177.5	6.13	6.28	6.17	6.24	6.22	6.39	6.31	6.37	6.65	6.56
180.0	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43

**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	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74
2.5	6863.89	6755.89	6679.82	6602.70	6429.77	6376.51	6312.24	6269.99	6623.13	6673.82
5.0	6660.61	6426.47	6133.29	5702.04	5151.68	4981.89	4756.56	4637.17	5298.99	5288.66
7.5	6576.33	6117.15	5426.03	4555.23	3968.70	3483.69	3155.03	2989.46	3497.63	3495.46
10.0	6661.45	5801.20	4589.91	3558.82	2684.57	2179.62	1897.69	1744.44	2104.88	2152.91
12.5	6558.27	5260.98	3799.17	2588.13	1754.22	1341.31	1130.41	1082.12	1260.17	1295.75
15.0	6217.99	4607.40	2978.37	1751.86	1148.10	841.51	708.42	681.13	804.17	829.49
17.5	5446.43	3811.90	2200.24	1206.15	752.76	548.92	447.42	436.72	527.67	540.02
20.0	4442.02	2920.13	1531.25	830.57	498.27	373.36	308.96	301.08	370.98	376.52
22.5	3459.77	2018.68	1005.29	546.38	365.06	271.97	224.02	218.25	272.44	276.78
25.0	2520.87	1382.41	664.29	361.76	268.68	213.35	176.22	166.75	203.60	207.95
27.5	1764.83	930.29	439.38	259.47	201.85	169.88	143.23	130.39	156.86	157.11
30.0	1203.67	586.87	299.06	193.61	152.17	138.30	116.29	101.92	120.47	120.46
32.5	808.38	408.23	211.84	144.75	114.19	105.20	92.04	81.61	93.40	94.01
35.0	559.94	285.02	158.19	110.37	88.66	80.02	71.52	65.42	76.13	75.85
37.5	388.53	198.38	125.95	92.25	71.78	63.42	58.49	54.71	65.31	63.12
40.0	273.42	149.67	98.43	78.49	59.99	52.89	50.49	46.92	56.77	56.63
42.5	198.79	108.31	79.27	65.74	52.74	46.64	45.28	41.90	50.18	51.61
45.0	147.34	83.55	63.19	56.09	45.89	41.78	40.97	38.85	48.91	45.61
47.5	109.34	66.19	51.39	46.31	40.56	37.75	37.74	36.75	49.72	40.85
50.0	91.15	56.31	43.10	37.58	37.12	33.06	35.47	35.93	43.89	36.40
52.5	71.19	49.85	37.45	32.11	32.91	29.80	32.37	33.87	38.54	32.75
55.0	54.86	38.12	32.54	26.92	28.42	27.28	28.79	33.44	32.97	29.02
57.5	44.23	30.42	26.89	23.08	24.25	25.42	24.89	29.57	27.31	26.36
60.0	35.32	24.83	22.57	19.91	20.44	21.52	20.98	23.83	23.36	23.36
62.5	29.79	21.02	18.87	17.17	17.24	17.56	17.88	19.77	20.22	21.44
65.0	24.88	17.72	16.13	14.67	14.84	14.62	14.80	17.09	17.04	18.78
67.5	20.98	14.79	13.71	12.94	12.76	12.54	12.48	14.13	14.04	15.92
70.0	17.87	12.64	11.47	11.11	11.10	10.43	10.60	11.15	11.17	12.84
72.5	14.85	10.76	9.67	9.30	9.26	8.79	8.98	8.34	8.95	9.70
75.0	12.79	8.89	8.11	7.48	7.98	7.27	7.54	6.22	6.62	7.35
77.5	10.69	7.53	6.51	6.25	6.36	6.12	6.06	4.56	4.87	5.39
80.0	8.87	6.11	5.32	4.79	4.85	4.87	4.81	3.46	3.52	4.19

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CANDELA TABULATION - (Cont.)

82.5	7.34	5.28	4.57	3.97	3.70	3.93	3.44	2.49	2.45	2.89
85.0	6.53	4.46	3.92	3.44	2.97	2.86	2.58	1.71	1.70	2.01
87.5	5.69	3.82	3.51	2.94	2.52	2.26	1.90	1.24	1.13	1.54
90.0	5.04	3.32	2.81	2.46	2.12	1.84	1.36	0.81	0.89	1.17
92.5	4.60	3.09	2.53	2.05	1.93	1.49	1.23	0.86	0.77	0.98
95.0	4.13	2.63	2.24	1.93	1.69	1.37	1.13	0.86	0.95	0.86
97.5	3.84	2.66	1.99	1.78	1.54	1.16	0.85	0.86	0.77	0.87
100.0	3.49	2.33	1.87	1.57	1.44	1.25	0.93	0.77	0.89	0.90
102.5	3.54	2.10	1.74	1.47	1.30	1.13	0.89	0.84	0.63	0.75
105.0	2.98	1.96	1.65	1.41	1.26	0.97	0.79	0.74	0.79	0.97
107.5	2.69	1.83	1.49	1.28	1.10	1.02	0.78	0.85	0.86	0.76
110.0	2.62	1.60	1.45	1.14	1.15	0.99	0.76	0.86	0.86	0.92
112.5	2.64	1.70	1.56	1.14	1.01	0.93	0.86	0.88	0.73	0.96
115.0	2.53	1.92	1.46	1.19	1.02	0.84	0.83	0.71	0.84	0.74
117.5	2.27	1.56	1.41	1.15	1.02	1.02	0.80	0.82	0.88	0.81
120.0	2.32	1.64	1.56	1.00	1.05	0.91	0.89	0.72	0.69	0.75
122.5	2.17	1.68	1.54	1.25	1.07	0.89	0.85	0.86	0.78	0.80
125.0	2.12	1.58	1.41	1.27	1.03	0.91	0.77	0.85	0.70	0.86
127.5	2.11	1.75	1.50	1.25	1.09	0.97	0.82	0.82	0.90	0.74
130.0	2.41	1.80	1.48	1.15	1.10	0.96	0.96	0.96	0.86	0.87
132.5	2.39	1.99	1.64	1.59	1.24	0.99	0.91	0.94	0.87	0.86
135.0	2.71	2.16	1.79	1.65	1.39	1.30	1.03	0.94	0.93	1.02
137.5	2.92	2.43	2.07	1.95	1.55	1.28	1.27	0.99	1.05	1.17
140.0	3.08	2.46	2.18	2.01	1.79	1.76	1.57	1.42	1.32	1.34
142.5	3.25	2.89	2.52	2.39	2.05	1.85	1.80	1.69	1.43	1.47
145.0	3.63	3.02	2.75	2.62	2.37	2.16	2.06	2.04	1.92	1.78
147.5	3.70	3.52	3.11	2.93	2.66	2.56	2.44	2.39	2.25	2.21
150.0	3.88	3.53	3.36	3.24	2.97	2.86	2.72	2.70	2.56	2.57
152.5	4.07	4.08	3.70	3.47	3.36	3.21	3.29	3.16	2.93	2.84
155.0	4.18	4.13	3.92	3.98	3.69	3.51	3.56	3.37	3.28	3.22
157.5	4.50	4.42	4.39	4.23	4.07	4.08	3.87	3.93	3.78	3.64
160.0	4.70	4.54	4.56	4.60	4.63	4.39	4.31	4.31	4.06	3.96
162.5	5.00	4.85	5.09	4.90	4.88	4.65	4.73	4.72	4.38	4.54
165.0	5.16	5.18	5.20	5.24	5.13	5.02	5.21	4.87	4.87	4.71
167.5	5.44	5.52	5.34	5.37	5.35	5.36	5.36	5.17	5.08	4.99
170.0	5.71	5.87	5.76	5.72	5.74	5.57	5.54	5.55	5.37	5.41
172.5	6.06	5.92	5.96	5.77	5.69	5.92	5.74	5.82	5.84	5.85
175.0	6.19	6.12	6.08	6.03	5.97	5.93	5.94	6.09	5.96	5.97
177.5	6.57	6.38	6.12	6.16	6.38	6.13	6.15	6.14	6.30	6.17
180.0	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43

**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	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74
2.5	6621.68	6672.06	6775.20	6813.95	6829.07	6884.11	6905.77	6888.46	6804.72	6793.77
5.0	5224.19	5582.66	5961.53	6241.78	6387.26	6616.97	6700.90	6726.56	6664.22	6486.52
7.5	3778.52	4082.67	4527.84	5093.36	5614.85	6053.82	6361.54	6484.76	6397.46	6000.95
10.0	2356.52	2697.68	3217.09	3942.17	4650.98	5595.78	6211.92	6443.05	6199.89	5600.40
12.5	1460.39	1713.59	2178.15	2897.49	3939.75	4816.74	6018.94	6413.13	6005.38	4807.32
15.0	909.51	1074.61	1443.41	2093.09	3159.51	4530.71	5844.78	6404.91	5943.97	4551.63
17.5	595.76	697.59	939.20	1455.72	2445.36	4054.70	5742.53	6508.92	5901.35	4151.82
20.0	395.36	457.71	633.64	993.43	1852.46	3465.66	5433.41	6376.99	5566.07	3600.75
22.5	280.05	324.16	440.13	693.30	1376.87	2874.70	4618.34	5788.94	4722.25	2969.81
25.0	209.46	245.06	313.40	504.52	1011.00	2160.45	3777.16	4726.78	3937.73	2184.36
27.5	160.99	191.94	241.20	367.97	693.00	1528.48	2934.07	3767.18	3054.86	1532.13

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CANDELA TABULATION - (Cont.)

30.0	129.31	155.59	194.76	274.76	471.62	1051.82	2129.27	2843.23	2208.03	1029.98
32.5	105.60	128.06	160.63	206.67	331.40	778.98	1462.57	1969.52	1501.03	694.42
35.0	84.20	102.69	127.40	155.91	236.19	530.01	1057.87	1451.55	1094.72	466.98
37.5	67.30	80.72	98.79	123.83	177.29	349.40	718.71	993.56	733.46	335.65
40.0	56.14	66.82	77.16	100.14	138.13	242.77	497.74	686.60	487.51	232.61
42.5	48.30	55.21	65.25	83.95	109.17	175.80	345.93	496.87	352.35	166.50
45.0	44.03	48.95	55.12	69.74	88.15	134.78	252.98	362.78	256.05	130.93
47.5	41.08	43.18	47.76	58.90	75.52	103.71	186.09	267.68	186.20	100.53
50.0	39.44	38.64	41.65	51.96	62.05	80.94	137.74	198.14	142.20	79.21
52.5	36.31	34.59	37.32	45.51	50.83	64.57	104.46	153.47	112.00	63.19
55.0	33.79	30.87	35.21	37.77	42.45	54.11	84.42	122.88	85.47	53.81
57.5	31.35	27.87	33.85	31.69	36.25	47.71	69.59	98.52	69.80	47.34
60.0	26.55	24.63	27.82	26.15	31.59	39.58	55.78	78.99	55.69	38.83
62.5	21.61	21.70	23.15	22.71	26.63	31.82	43.32	64.08	44.26	30.93
65.0	17.93	18.31	19.41	19.76	22.14	25.53	35.52	53.88	36.09	25.29
67.5	15.44	14.87	16.60	16.73	18.78	21.24	29.85	45.99	30.39	21.03
70.0	13.20	12.71	14.16	14.67	16.00	18.29	25.12	39.20	26.21	18.33
72.5	11.04	10.77	12.12	12.33	13.69	15.64	21.46	34.17	22.04	15.48
75.0	9.17	9.18	10.14	10.63	11.63	13.22	18.22	29.42	18.66	13.13
77.5	7.48	7.81	8.43	8.96	9.88	11.38	15.56	25.30	16.00	11.15
80.0	5.98	6.75	7.02	7.28	8.37	9.53	13.12	21.77	13.50	9.48
82.5	4.59	5.69	5.65	6.03	6.95	7.78	10.94	18.47	11.20	7.65
85.0	3.36	4.63	4.52	4.88	5.68	6.57	9.18	15.74	9.53	6.46
87.5	2.55	3.57	3.84	4.18	4.65	5.51	7.84	13.52	8.06	5.40
90.0	1.97	2.56	3.00	3.35	4.04	4.64	6.87	12.00	6.95	4.59
92.5	1.47	2.05	2.53	2.95	3.36	4.00	6.04	10.99	6.15	3.85
95.0	1.12	1.82	2.30	2.46	3.02	3.51	5.28	9.56	5.45	3.40
97.5	0.98	1.50	1.81	2.14	2.63	2.98	4.55	8.35	4.62	3.01
100.0	0.97	1.29	1.67	1.91	2.24	2.73	4.22	7.18	4.22	2.54
102.5	0.96	1.24	1.52	1.80	2.10	2.49	3.77	6.45	3.89	2.52
105.0	0.85	1.12	1.44	1.58	1.91	2.33	3.48	5.91	3.47	2.17
107.5	0.88	1.06	1.17	1.49	1.78	2.27	3.17	5.58	3.27	2.17
110.0	0.90	1.10	1.20	1.40	1.70	2.12	3.21	5.53	3.38	1.99
112.5	0.78	1.04	1.15	1.22	1.58	2.04	3.09	5.37	3.14	1.94
115.0	0.84	1.04	1.15	1.30	1.55	1.94	2.85	4.82	2.93	1.82
117.5	0.94	1.05	1.26	1.34	1.47	1.72	2.59	4.54	2.69	1.74
120.0	0.84	0.86	1.12	1.08	1.53	1.82	2.53	3.91	2.59	1.72
122.5	0.84	1.13	0.91	1.22	1.58	1.85	2.55	3.75	2.56	1.64
125.0	0.88	0.98	0.97	1.19	1.45	1.71	2.17	3.43	2.41	1.72
127.5	0.83	0.96	0.98	1.21	1.47	1.69	2.23	3.16	2.44	1.71
130.0	0.71	1.05	1.05	1.24	1.55	1.74	2.34	3.01	2.37	1.70
132.5	0.97	1.09	1.23	1.36	1.61	1.94	2.41	3.21	2.52	1.94
135.0	1.05	1.15	1.33	1.51	1.67	2.01	2.62	3.22	2.73	2.06
137.5	1.27	1.21	1.42	1.59	1.82	2.32	2.81	3.38	3.03	2.40
140.0	1.37	1.50	1.61	1.74	2.02	2.40	3.07	3.43	3.06	2.60
142.5	1.65	1.61	1.72	2.01	2.49	2.66	3.19	3.49	3.29	2.97
145.0	1.77	1.95	1.97	2.58	2.70	2.95	3.30	3.75	3.57	3.14
147.5	2.20	2.36	2.44	2.72	2.86	3.15	3.55	3.92	3.75	3.46
150.0	2.65	2.70	2.59	2.88	3.08	3.52	3.80	3.99	3.94	3.64
152.5	2.93	2.96	3.11	3.35	3.51	3.70	3.96	4.33	4.13	3.82
155.0	3.18	3.47	3.39	3.67	3.85	4.03	4.06	4.31	4.21	3.90
157.5	3.67	3.68	3.73	3.84	4.12	4.33	4.42	4.27	4.09	4.07
160.0	4.07	4.03	4.11	4.21	4.35	4.53	4.52	4.58	4.23	4.22
162.5	4.43	4.47	4.53	4.51	4.69	4.73	4.86	4.82	4.58	4.64
165.0	4.89	4.97	4.95	5.04	4.89	5.23	5.21	5.33	5.03	5.06
167.5	5.09	5.22	5.25	5.16	5.50	5.55	5.49	5.62	5.44	5.37

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CANDELA TABULATION - (Cont.)

170.0	5.55	5.57	5.77	5.56	5.62	5.72	5.75	5.85	5.64	5.57
172.5	5.72	5.72	5.89	5.96	6.00	6.10	6.18	6.28	6.08	6.05
175.0	5.99	6.10	6.03	6.17	6.35	6.31	6.41	6.59	6.54	6.27
177.5	6.20	6.25	6.25	6.44	6.37	6.50	6.70	6.72	6.68	6.47
180.0	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43

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	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74	6958.74
2.5	6766.95	6612.38	6634.30	6544.99	6593.14	6600.64	6526.08
5.0	6326.40	6013.66	5817.75	5475.42	5337.23	5226.16	4771.42
7.5	5556.06	4940.99	4485.39	4096.28	3811.90	3530.78	3227.74
10.0	4618.56	3882.30	3219.12	2752.49	2447.04	2211.71	1925.79
12.5	3920.39	2888.38	2150.81	1714.11	1475.87	1344.51	1148.26
15.0	3167.58	2044.58	1391.41	1055.70	917.23	818.25	703.23
17.5	2470.51	1413.65	898.20	671.39	568.31	520.65	451.40
20.0	1857.01	969.99	603.65	433.14	379.07	354.60	311.85
22.5	1354.43	652.59	419.38	305.25	261.92	255.86	232.96
25.0	955.04	465.09	310.91	225.66	196.54	195.29	180.04
27.5	652.47	349.25	246.54	182.97	154.68	153.97	144.43
30.0	450.38	258.21	188.03	152.77	128.57	124.04	117.79
32.5	318.29	196.83	157.73	127.12	110.35	102.67	99.06
35.0	226.21	151.00	127.23	107.14	95.59	88.42	85.03
37.5	172.80	119.15	100.01	91.13	79.79	75.75	75.24
40.0	132.62	96.33	79.68	77.10	68.30	67.55	66.34
42.5	106.01	80.95	66.53	65.69	57.52	64.60	60.13
45.0	86.60	68.21	57.83	55.87	48.32	58.44	61.63
47.5	73.54	59.09	50.06	46.98	43.26	45.78	58.07
50.0	61.23	51.89	43.20	40.89	39.21	37.32	47.42
52.5	50.51	46.42	38.83	35.67	35.26	32.10	37.52
55.0	42.60	38.42	35.54	31.09	31.68	28.59	29.89
57.5	36.44	32.45	33.68	27.88	28.49	25.56	25.48
60.0	31.53	26.32	27.00	24.99	24.51	22.62	21.31
62.5	27.01	22.31	22.22	21.86	20.50	20.18	17.87
65.0	21.96	20.07	18.56	18.05	17.40	17.59	15.55
67.5	18.74	16.36	16.01	14.98	15.08	15.18	12.96
70.0	15.80	14.15	13.57	12.44	12.92	12.46	10.28
72.5	13.51	12.07	11.69	10.69	10.90	9.66	8.20
75.0	11.53	10.25	9.89	9.05	8.86	7.35	6.17
77.5	9.73	8.81	8.32	7.63	6.98	5.53	4.55
80.0	8.20	7.14	6.86	6.27	5.65	4.19	3.35
82.5	6.65	5.88	5.49	4.89	4.47	2.89	2.19
85.0	5.59	4.86	4.45	3.98	3.35	2.06	1.43
87.5	4.64	3.99	3.47	3.15	2.39	1.61	0.99
90.0	4.14	3.36	3.09	2.52	1.85	1.11	0.86
92.5	3.32	2.84	2.60	2.07	1.52	0.90	0.72
95.0	3.08	2.60	2.23	1.64	1.15	0.84	0.71
97.5	2.58	2.16	2.00	1.42	1.09	0.87	0.62
100.0	2.20	1.99	1.57	1.21	0.81	0.80	0.83
102.5	2.10	1.69	1.39	1.14	0.92	0.74	0.72
105.0	1.93	1.66	1.29	1.01	0.89	0.86	0.72
107.5	1.88	1.44	1.24	1.05	0.82	0.78	0.92
110.0	1.63	1.40	1.14	1.05	0.86	0.82	0.91
112.5	1.67	1.31	1.20	0.91	0.85	0.83	0.82
115.0	1.51	1.27	1.09	1.04	0.80	0.67	0.75

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CANDELA TABULATION - (Cont.)

117.5	1.44	1.26	1.28	0.95	0.79	0.79	0.77
120.0	1.53	1.17	0.96	1.02	0.99	0.68	0.75
122.5	1.58	1.14	1.06	0.94	0.85	0.66	0.84
125.0	1.54	1.20	1.02	0.88	0.94	0.85	0.89
127.5	1.51	1.31	1.06	0.87	0.61	0.85	0.79
130.0	1.50	1.35	1.15	0.96	0.87	0.85	0.89
132.5	1.60	1.49	1.21	1.04	0.91	0.82	0.93
135.0	1.93	1.69	1.41	1.11	1.06	0.99	0.95
137.5	2.00	1.75	1.46	1.39	1.18	1.05	1.01
140.0	2.32	1.91	1.71	1.49	1.29	1.24	1.31
142.5	2.51	2.34	2.02	1.84	1.69	1.61	1.71
145.0	2.69	2.44	2.27	2.12	2.18	1.83	1.98
147.5	3.12	2.75	2.58	2.35	2.34	2.19	2.33
150.0	3.28	3.05	2.83	2.73	2.57	2.61	2.77
152.5	3.62	3.38	3.36	3.14	3.01	3.03	3.17
155.0	3.71	3.57	3.55	3.37	3.51	3.35	3.46
157.5	3.92	3.97	3.89	3.84	3.88	3.76	3.81
160.0	4.06	4.18	4.14	3.94	4.11	4.04	4.29
162.5	4.56	4.30	4.39	4.26	4.28	4.35	4.62
165.0	4.79	4.82	4.58	4.65	4.76	4.77	4.93
167.5	5.31	5.03	5.14	5.12	4.96	5.05	4.95
170.0	5.57	5.46	5.33	5.34	5.39	5.33	5.38
172.5	5.89	5.86	5.91	5.75	5.74	5.72	5.74
175.0	6.20	6.08	6.06	6.01	6.05	6.02	5.93
177.5	6.42	6.22	6.26	6.18	6.19	6.26	6.13
180.0	6.43	6.43	6.43	6.43	6.43	6.43	6.43

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1196.19	N.A.	59.40
0-30	1666.76	N.A.	82.80
0-40	1849.76	N.A.	91.90
0-60	1960.91	N.A.	97.40
0-80	1993.4	N.A.	99.00
0-90	1998.74	N.A.	99.30
10-90	1513.44	N.A.	75.20
20-40	653.57	N.A.	32.50
20-50	726.31	N.A.	36.10
40-70	132.37	N.A.	6.60
60-80	32.49	N.A.	1.60
70-80	11.27	N.A.	0.60
80-90	5.34	N.A.	0.30
90-110	4.78	N.A.	0.20
90-120	6.28	N.A.	0.30
90-130	7.52	N.A.	0.40
90-150	10.41	N.A.	0.50
90-180	14.08	N.A.	0.70
110-180	9.29	N.A.	0.50
0-180	2012.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	485.30
10-20	710.89
20-30	470.58
30-40	183.00
40-50	72.74
50-60	38.41
60-70	21.22
70-80	11.27
80-90	5.34
90-100	2.86
100-110	1.92
110-120	1.50
120-130	1.24
130-140	1.30
140-150	1.60
150-160	1.71
160-170	1.38
170-180	0.57

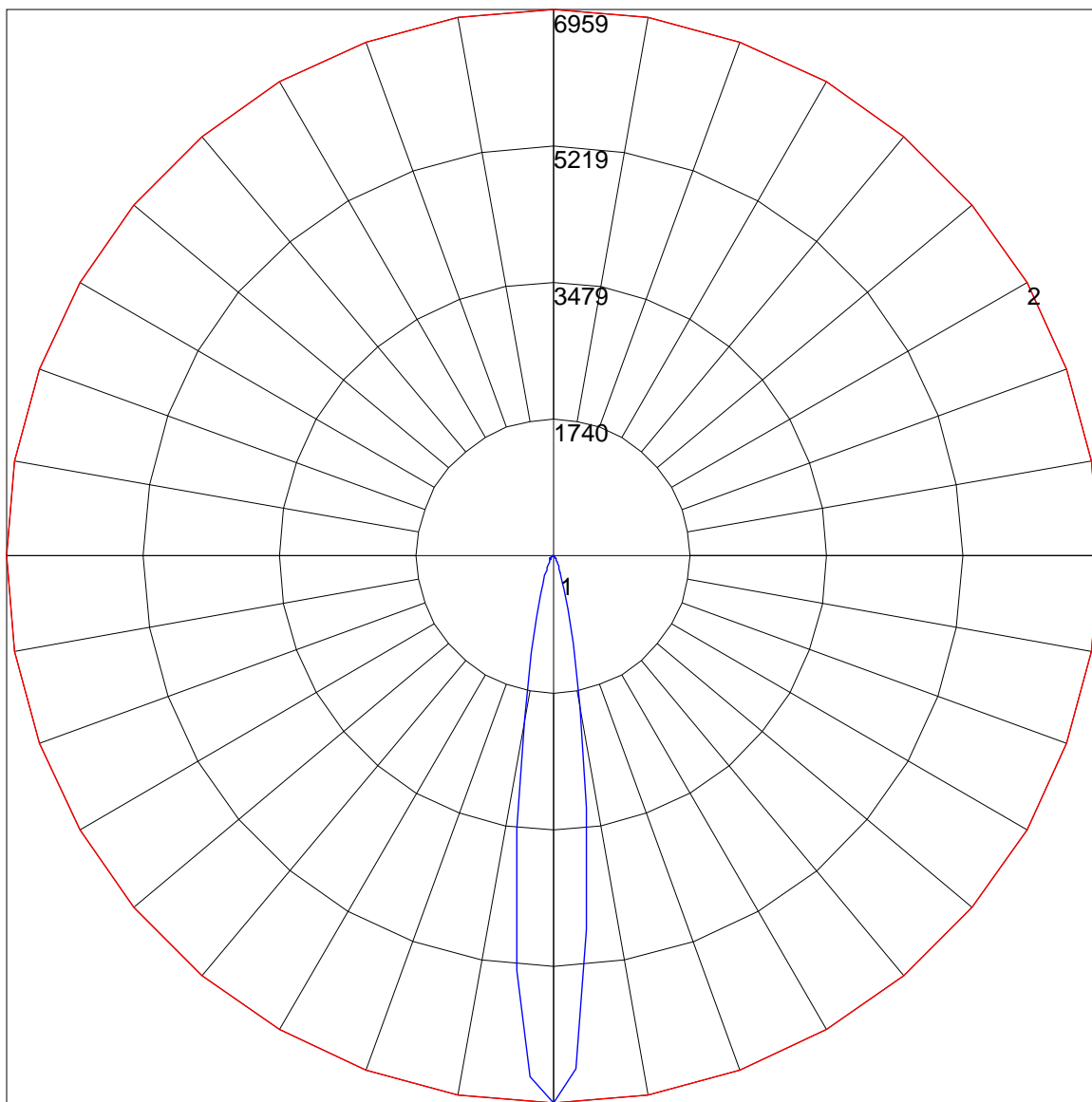
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	99	97	99	97	94	96	94	92	94	92	90	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	84	80	95	88	83	80	86	82	79	84	81	78	83	80	77	76
6	92	85	80	76	91	84	79	76	82	78	75	81	77	74	80	76	74	73
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70
8	86	78	72	69	84	77	72	69	76	72	68	75	71	68	74	70	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	72	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

POLAR GRAPH



Maximum Candela = 6958.74 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.)