



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SPYLED4WT57MNB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 6,970
 [TESTLAB] CSA Group
 [ISSUEDATE] 12/16/2013 2:07:32 PM
 [MANUFAC] Beghelli
 [LUMINAIRE] SPY LED IP684WT57 NBD 24V RAW
 [_AMBIENT] 25.4 deg C
 [_POWERFACTOR] 0.971
 [_ATHD] 7.22%
 [_CURRENT] 0.22
 [_VOLTAGE] 120.24
 [_STABILIZATION] 39:13.6 Stable
 [_POWER VARIATION] 0.11 %
 [_LIGHT VARIATION] 0.49 %
 [_Lumens] 2,095.99

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	26.32
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.24
Spacing Criterion (90-270)	0.20
Spacing Criterion (Diagonal)	0.26
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	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79
2.5	22029.98	20344.49	20124.09	19665.18	19310.71	18931.06	18933.09	18728.01	18585.54	18390.91
5.0	15956.88	14078.40	13718.03	13428.02	13317.38	13126.75	12873.54	12762.86	12563.98	12616.42
7.5	9656.85	8593.47	8300.61	8003.41	7896.02	7890.12	7762.31	7720.56	7708.81	7735.58
10.0	5136.19	4696.10	4606.73	4488.65	4501.04	4569.65	4552.75	4584.23	4704.92	4748.27
12.5	2730.15	2493.85	2506.97	2553.56	2640.14	2724.63	2814.97	2888.80	2954.47	2973.97
15.0	1494.52	1414.27	1439.45	1513.01	1637.94	1689.82	1686.97	1784.43	1826.59	1873.68
17.5	865.47	823.59	843.21	924.74	997.51	1016.91	1040.24	1070.00	1145.46	1187.50
20.0	482.50	458.18	499.54	555.54	585.07	602.73	618.60	691.72	785.93	810.32
22.5	290.23	276.36	295.36	343.16	358.81	366.75	417.90	479.72	539.44	567.23
25.0	190.35	188.64	197.17	220.44	226.54	248.31	290.40	325.17	380.28	404.79
27.5	137.03	135.21	142.45	151.25	150.78	174.43	192.89	224.03	267.27	291.43
30.0	104.43	103.41	109.46	111.75	109.65	121.83	134.15	153.61	197.18	224.46
32.5	84.25	83.14	87.31	84.65	83.72	88.47	95.18	116.25	150.99	173.65
35.0	70.94	69.35	73.43	69.76	70.36	70.27	75.51	89.90	119.91	144.82
37.5	62.17	60.96	63.62	61.91	60.41	59.62	64.20	74.78	98.51	119.73
40.0	54.87	54.03	56.48	54.74	52.59	52.92	55.50	61.73	82.90	101.42
42.5	48.33	47.81	49.81	49.39	46.07	47.89	46.94	52.82	69.43	84.54
45.0	42.02	40.58	43.38	43.21	42.02	41.54	40.20	46.23	60.02	72.86
47.5	37.70	35.47	38.37	37.83	38.36	36.23	36.15	40.74	51.97	64.01
50.0	33.05	31.32	33.34	33.15	33.44	31.86	32.05	35.26	44.68	55.58
52.5	27.98	27.49	28.42	28.85	28.79	28.40	28.58	30.30	38.76	48.53
55.0	24.26	24.22	25.35	25.67	25.06	24.63	24.79	26.94	34.74	43.06
57.5	20.75	21.06	22.50	21.78	21.52	21.86	22.17	24.57	31.13	38.75
60.0	17.73	18.46	19.22	18.21	18.53	19.42	20.04	22.31	27.69	34.06
62.5	14.92	16.06	16.42	15.46	16.09	17.49	18.02	18.87	23.00	29.75
65.0	12.38	12.96	14.04	12.96	14.21	14.92	15.29	16.34	20.70	26.17
67.5	10.09	10.29	11.55	10.99	12.29	13.13	13.14	14.17	17.41	22.56
70.0	8.07	8.14	9.23	9.36	9.96	10.95	11.05	11.19	14.20	18.73
72.5	5.80	6.54	7.01	7.83	8.43	8.89	8.54	8.89	11.74	15.84
75.0	4.16	4.80	5.62	6.43	6.87	6.87	6.52	7.08	9.50	13.59
77.5	3.12	3.49	4.28	5.01	5.29	5.05	4.90	5.63	8.15	11.94
80.0	2.19	2.52	3.50	3.89	3.90	3.94	4.15	4.88	7.05	10.66
82.5	1.73	1.83	2.62	2.93	3.13	3.23	3.44	4.03	6.16	9.75
85.0	1.32	1.33	1.99	2.26	2.55	2.65	3.03	3.42	5.58	8.76
87.5	1.03	1.21	1.50	1.84	2.08	2.37	2.64	3.04	4.69	8.13
90.0	0.83	0.95	1.21	1.64	1.92	1.97	2.28	2.64	4.46	7.71
92.5	0.91	0.83	1.14	1.41	1.62	1.89	2.17	2.47	3.96	7.40
95.0	0.98	0.78	1.04	1.22	1.55	1.76	1.81	2.11	3.72	6.83
97.5	0.86	0.63	0.97	1.06	1.32	1.39	1.72	2.04	3.46	6.29
100.0	0.88	0.76	0.86	1.03	1.23	1.35	1.57	2.07	3.28	5.83
102.5	0.86	0.84	0.89	1.00	1.19	1.21	1.56	1.62	2.97	5.32
105.0	0.77	0.64	0.72	1.11	0.97	1.04	1.30	1.67	2.84	4.99
107.5	0.71	0.72	0.88	0.92	0.99	1.23	1.23	1.62	2.54	4.39
110.0	0.80	0.73	0.75	0.87	1.06	1.08	1.23	1.53	2.55	4.02
112.5	0.83	0.83	0.85	0.91	0.94	0.95	1.19	1.41	2.28	3.58
115.0	0.76	0.80	0.82	0.78	0.95	1.10	1.01	1.58	2.25	3.29
117.5	0.83	0.87	0.76	0.78	0.88	1.14	1.18	1.28	2.09	3.04
120.0	0.79	0.77	0.71	0.86	1.00	0.92	1.08	1.34	1.72	2.61
122.5	0.88	0.74	0.69	0.88	1.07	0.97	1.17	1.24	1.88	2.33
125.0	0.86	0.82	0.84	0.73	0.70	1.09	1.27	1.24	1.80	2.26
127.5	0.68	0.73	0.86	0.85	0.91	1.00	1.09	1.26	1.72	2.11
130.0	0.86	0.90	0.80	0.94	1.03	1.01	1.05	1.27	1.64	2.09
132.5	0.97	0.94	0.79	0.88	0.96	1.12	1.14	1.32	1.68	2.11

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CANDELA TABULATION - (Cont.)

135.0	1.24	1.05	1.02	1.20	1.04	1.13	1.22	1.51	1.85	2.08
137.5	1.38	1.18	1.30	1.21	1.23	1.23	1.40	1.41	1.78	2.06
140.0	1.75	1.68	1.68	1.44	1.56	1.48	1.41	1.45	1.81	2.18
142.5	2.08	2.04	2.01	1.93	1.89	1.83	1.61	1.80	2.05	2.29
145.0	2.31	2.45	2.46	2.30	2.44	2.25	2.16	2.26	2.56	2.65
147.5	2.81	2.86	2.95	2.87	2.75	2.80	2.72	2.87	2.78	3.05
150.0	3.23	3.29	3.47	3.43	3.43	3.54	3.48	3.38	3.40	3.70
152.5	3.70	3.72	3.78	4.07	4.14	4.16	4.12	4.20	4.44	4.50
155.0	4.00	4.19	4.33	4.48	4.69	4.79	5.14	4.99	5.14	5.18
157.5	4.47	4.74	4.97	4.99	5.29	5.42	5.63	5.84	5.89	5.97
160.0	4.96	5.13	5.34	5.58	5.85	5.92	6.31	6.32	6.42	6.54
162.5	5.35	5.27	5.71	6.10	6.28	6.42	6.60	6.60	6.89	6.92
165.0	5.55	5.71	5.96	6.38	6.59	6.87	7.09	7.08	7.24	7.15
167.5	5.77	5.91	6.32	6.53	6.84	7.01	7.26	7.41	7.35	7.27
170.0	5.97	6.11	6.43	6.64	7.01	6.96	7.19	7.22	7.36	7.25
172.5	6.27	6.27	6.41	6.70	6.94	6.93	7.12	7.20	7.09	7.19
175.0	6.45	6.48	6.53	6.57	6.79	6.73	6.74	6.75	6.78	6.82
177.5	6.44	6.56	6.53	6.42	6.58	6.55	6.54	6.52	6.50	6.58
180.0	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58

**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	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79
2.5	18464.48	18328.70	18567.18	18696.79	18820.70	19291.39	19763.84	20191.49	22431.91	22939.36
5.0	12514.88	12531.42	12780.43	13021.75	13198.05	13448.32	14001.45	14579.40	17662.26	17702.58
7.5	7747.74	7656.56	7723.86	7952.52	7980.56	8329.12	8573.07	8993.38	11773.59	11779.30
10.0	4544.10	4610.91	4518.90	4441.39	4474.27	4631.11	4788.61	4635.13	6675.41	6843.20
12.5	2954.09	2826.73	2738.61	2602.81	2541.67	2463.34	2506.74	2598.78	3453.39	3471.39
15.0	1827.52	1735.48	1661.05	1576.75	1515.13	1434.24	1389.95	1406.55	1795.21	1840.64
17.5	1128.60	1061.38	987.50	952.26	932.93	894.10	841.05	826.65	1036.66	1060.44
20.0	764.24	672.63	589.44	565.79	581.40	554.76	518.07	485.42	600.33	627.44
22.5	529.92	455.04	379.19	344.66	361.21	348.95	324.54	306.54	372.47	380.90
25.0	371.18	302.36	259.56	230.62	227.90	232.29	214.13	203.33	238.09	243.14
27.5	259.70	211.14	180.25	164.14	155.92	162.72	153.48	146.63	165.50	169.16
30.0	196.83	151.10	128.93	118.56	114.33	118.29	118.16	111.32	123.80	124.39
32.5	147.35	111.87	93.09	87.52	86.43	87.69	92.18	86.12	94.97	96.53
35.0	117.71	86.18	73.77	69.29	70.03	70.12	73.63	70.19	76.75	79.11
37.5	95.39	72.08	61.98	57.60	58.86	60.17	62.09	58.36	65.20	66.83
40.0	79.96	59.04	53.32	50.44	50.77	52.53	53.28	50.44	56.20	57.79
42.5	66.91	50.21	45.03	44.78	44.08	46.11	46.27	44.08	49.02	50.59
45.0	57.86	44.21	39.25	39.22	39.22	40.40	40.69	38.62	42.91	43.56
47.5	49.68	38.70	34.90	34.32	35.95	35.19	35.96	33.87	38.06	37.91
50.0	42.78	33.70	30.62	30.14	31.36	31.12	31.32	29.77	33.27	33.12
52.5	36.85	28.95	27.24	26.80	27.06	27.42	26.92	26.04	28.77	28.91
55.0	33.17	25.75	23.65	23.37	23.56	24.18	23.26	23.12	25.39	25.39
57.5	29.55	23.62	21.02	20.55	20.22	21.04	20.27	20.11	21.64	21.95
60.0	26.04	21.17	19.02	18.49	17.58	17.59	17.60	17.27	18.20	18.36
62.5	21.97	18.21	17.02	16.49	15.28	14.73	15.12	14.47	15.43	15.46
65.0	19.72	15.74	14.56	14.24	13.71	12.34	12.45	11.93	13.04	12.75
67.5	16.35	13.57	12.59	12.51	11.70	10.54	10.50	9.75	10.78	10.27
70.0	13.61	10.76	10.41	10.53	9.87	9.01	8.40	7.63	8.45	8.40
72.5	10.90	8.75	8.17	8.60	8.33	7.40	6.59	5.88	6.44	6.61
75.0	8.97	6.66	6.30	6.54	6.74	6.15	5.10	4.39	4.79	5.10
77.5	7.67	5.41	4.75	4.91	5.19	4.64	4.17	3.31	3.17	3.72
80.0	6.50	4.67	3.96	3.85	3.95	3.70	3.20	2.33	2.36	2.70

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CANDELA TABULATION - (Cont.)

82.5	5.74	4.09	3.38	3.29	3.04	2.76	2.46	1.81	1.87	2.22
85.0	5.11	3.64	2.78	2.56	2.35	2.22	1.82	1.46	1.43	1.62
87.5	4.38	3.02	2.73	2.37	2.05	1.89	1.60	1.22	1.13	1.27
90.0	4.03	2.58	2.26	2.14	1.96	1.58	1.39	0.89	0.81	0.99
92.5	3.82	2.41	2.00	1.82	1.68	1.24	1.17	0.92	0.73	1.08
95.0	3.47	2.29	1.63	1.70	1.43	1.26	0.94	0.85	0.76	0.83
97.5	3.20	1.79	1.76	1.61	1.37	1.11	0.91	0.76	0.87	0.81
100.0	3.01	1.89	1.58	1.49	1.31	1.04	0.84	0.76	0.73	0.96
102.5	2.88	1.67	1.54	1.25	0.95	0.84	0.82	0.80	0.79	0.99
105.0	2.69	1.61	1.27	1.14	1.08	1.02	0.76	0.77	0.86	0.87
107.5	2.35	1.46	1.42	1.26	1.03	0.93	0.78	0.80	0.75	0.81
110.0	2.23	1.53	1.23	1.11	0.94	0.96	0.83	0.83	0.80	0.78
112.5	2.13	1.48	1.02	1.12	0.91	1.00	0.76	0.76	0.86	0.67
115.0	1.99	1.51	0.96	1.02	0.84	0.81	0.85	0.72	0.79	0.75
117.5	2.08	1.43	1.00	0.90	0.93	0.86	0.96	0.68	0.79	0.66
120.0	1.76	1.33	1.16	1.00	0.99	0.82	0.76	0.84	0.74	0.72
122.5	1.67	1.15	1.17	1.00	0.95	0.90	0.89	0.87	0.68	0.87
125.0	1.62	1.08	1.03	1.06	0.88	0.87	0.85	0.75	0.71	0.76
127.5	1.48	1.34	0.92	0.94	1.00	0.96	0.78	0.88	0.74	0.88
130.0	1.70	1.22	1.10	0.95	1.04	0.79	0.87	1.02	0.96	0.83
132.5	1.61	1.26	1.03	0.94	1.09	0.94	0.95	1.00	0.84	0.93
135.0	1.79	1.41	1.19	1.12	1.16	0.99	1.13	1.19	1.09	1.12
137.5	1.56	1.33	1.19	1.21	1.32	1.36	1.44	1.34	1.11	1.20
140.0	1.91	1.50	1.54	1.36	1.62	1.59	1.68	1.64	1.45	1.49
142.5	2.02	1.69	1.87	1.85	1.94	2.00	2.07	2.02	1.80	1.87
145.0	2.42	2.21	2.23	2.38	2.47	2.56	2.58	2.57	2.44	2.37
147.5	2.92	2.79	2.78	3.08	2.94	3.11	3.12	2.95	2.81	2.79
150.0	3.52	3.50	3.65	3.52	3.71	3.57	3.47	3.48	3.32	3.06
152.5	4.32	4.33	4.30	4.27	4.33	4.27	4.02	3.86	3.51	3.66
155.0	5.18	5.13	5.07	4.98	4.81	4.79	4.55	4.23	4.10	4.17
157.5	5.85	5.75	5.73	5.56	5.38	5.09	5.00	4.64	4.41	4.58
160.0	6.47	6.29	6.32	6.12	5.84	5.61	5.17	4.92	4.67	5.01
162.5	6.92	6.86	6.68	6.50	6.18	5.91	5.60	5.30	5.25	5.34
165.0	7.16	6.94	6.83	6.65	6.40	6.06	5.80	5.51	5.71	5.76
167.5	7.22	7.03	6.81	6.55	6.31	6.06	5.81	5.79	5.84	6.11
170.0	7.23	7.11	6.77	6.63	6.27	6.16	6.06	6.01	6.04	6.13
172.5	6.80	6.67	6.40	6.41	6.20	6.29	6.08	6.19	6.19	6.29
175.0	6.57	6.30	6.36	6.32	6.40	6.37	6.36	6.33	6.37	6.37
177.5	6.26	6.16	6.18	6.56	6.49	6.57	6.51	6.68	6.61	6.53
180.0	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58

**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	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79
2.5	23046.20	23171.07	23229.83	23151.78	22990.16	22789.20	22949.69	23204.82	22935.68	23074.37
5.0	18165.16	18078.12	18258.59	18257.87	18051.01	18138.32	18168.54	18288.27	18355.57	18236.53
7.5	12092.52	12102.63	12159.73	12265.34	12485.32	12359.69	12571.74	12603.52	12571.12	12618.08
10.0	6949.97	7046.89	7207.64	7360.18	7599.45	7801.66	7946.14	7941.46	7928.45	7793.34
12.5	3609.13	3699.76	3808.99	4015.70	4268.01	4298.18	4516.60	4593.33	4776.26	4481.74
15.0	1958.01	2033.83	2144.21	2312.47	2457.94	2640.51	2838.75	2913.38	2792.12	2621.49
17.5	1120.60	1167.54	1258.16	1308.70	1434.98	1607.64	1769.83	1822.30	1734.27	1573.29
20.0	670.81	717.51	760.96	801.36	859.23	1004.63	1141.02	1206.75	1136.64	968.66
22.5	406.99	442.53	475.33	493.12	525.79	646.68	766.01	815.59	758.54	617.88
25.0	256.95	283.37	301.61	323.40	364.74	436.84	523.07	553.68	492.55	411.19
27.5	179.15	193.96	205.93	227.15	253.48	305.40	383.50	418.90	374.30	314.56

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CANDELA TABULATION - (Cont.)

30.0	135.77	142.56	152.87	171.37	185.76	223.69	284.37	319.18	278.09	219.22
32.5	106.20	109.97	119.83	128.89	144.03	174.00	221.91	249.50	215.79	164.91
35.0	84.86	89.31	96.43	101.64	114.50	134.00	170.49	194.29	164.41	126.37
37.5	70.69	72.91	77.61	83.32	90.87	104.45	138.89	161.39	132.78	99.15
40.0	59.64	62.87	66.17	72.45	73.70	87.12	113.49	132.93	108.85	83.51
42.5	52.21	56.02	57.29	60.73	64.24	72.67	96.16	114.62	91.92	70.49
45.0	45.90	48.85	51.51	51.87	54.89	63.06	83.06	99.63	78.39	61.23
47.5	40.42	41.89	44.00	45.46	47.93	55.35	71.00	85.70	68.88	53.98
50.0	35.53	37.16	38.12	39.97	42.40	47.72	61.50	74.71	59.52	47.74
52.5	30.56	32.69	33.23	34.95	37.22	42.73	49.81	61.70	48.25	42.36
55.0	27.09	29.12	29.49	30.77	33.59	35.34	44.95	54.68	43.07	34.70
57.5	23.71	25.14	26.07	26.99	28.62	31.66	39.66	48.82	38.20	31.55
60.0	20.49	21.00	22.07	24.00	25.07	28.00	35.54	43.18	34.06	28.18
62.5	17.46	17.86	19.35	20.54	22.27	24.06	29.89	37.14	28.86	24.36
65.0	14.30	15.27	17.13	18.48	19.09	21.24	26.50	33.19	25.58	21.06
67.5	11.69	12.89	14.45	15.77	16.79	18.50	22.19	28.35	21.55	18.66
70.0	9.46	11.02	12.88	13.38	14.17	14.99	18.77	24.66	18.18	14.83
72.5	7.72	9.30	10.74	11.17	11.41	12.42	15.81	20.72	15.20	12.43
75.0	6.18	7.60	8.65	8.78	9.25	10.30	13.18	17.92	12.50	9.94
77.5	4.88	6.11	6.77	7.13	7.29	8.11	10.93	15.18	10.36	7.97
80.0	3.85	4.78	5.26	5.49	5.99	6.84	9.45	13.51	8.93	6.61
82.5	3.06	3.72	4.32	4.31	4.84	5.68	8.02	11.87	7.56	5.62
85.0	2.33	2.97	3.42	3.61	4.00	4.73	6.60	10.34	6.10	4.51
87.5	1.81	2.32	2.87	3.03	3.49	3.87	5.91	9.31	5.53	3.82
90.0	1.54	1.92	2.21	2.65	2.86	3.35	5.22	8.45	4.89	3.35
92.5	1.32	1.60	1.91	2.14	2.53	2.90	4.60	7.60	4.33	2.97
95.0	0.94	1.52	1.71	1.83	2.22	2.57	4.03	6.67	3.76	2.56
97.5	0.90	1.34	1.51	1.58	2.05	2.29	3.52	5.75	3.44	2.35
100.0	0.92	1.03	1.41	1.51	1.57	2.06	3.21	5.30	3.15	2.13
102.5	1.03	1.01	1.36	1.48	1.63	2.00	3.06	4.97	2.85	1.96
105.0	0.82	0.77	1.23	1.27	1.54	1.89	2.87	4.61	2.85	1.75
107.5	0.87	0.91	1.20	1.24	1.46	1.84	2.86	4.52	2.62	1.77
110.0	0.89	0.97	1.11	1.33	1.42	1.72	2.89	4.72	2.64	1.67
112.5	0.96	0.88	0.87	1.05	1.31	1.73	2.74	4.49	2.55	1.63
115.0	0.90	0.81	1.00	1.19	1.19	1.64	2.55	3.76	2.42	1.50
117.5	0.78	0.85	1.01	1.19	1.29	1.54	2.43	3.63	2.29	1.50
120.0	0.64	0.80	0.88	0.90	1.25	1.54	2.31	3.35	2.16	1.41
122.5	0.87	0.94	1.04	1.06	1.17	1.47	2.15	3.06	2.02	1.38
125.0	0.71	0.71	0.92	0.97	1.17	1.26	2.01	2.68	1.88	1.28
127.5	0.80	0.81	0.79	0.92	1.17	1.39	1.79	2.49	1.90	1.36
130.0	0.72	0.89	0.89	0.98	1.08	1.40	1.88	2.29	1.79	1.35
132.5	1.04	0.92	0.96	0.96	1.10	1.41	1.80	2.26	1.75	1.27
135.0	1.10	1.09	0.99	1.20	1.18	1.37	1.92	2.19	1.68	1.39
137.5	1.15	1.24	1.06	1.15	1.20	1.28	1.77	2.15	1.73	1.38
140.0	1.35	1.42	1.31	1.30	1.33	1.50	1.93	2.09	1.73	1.45
142.5	1.75	1.69	1.42	1.59	1.49	1.57	1.97	2.07	1.88	1.61
145.0	2.10	2.21	2.00	1.89	1.79	1.85	2.09	2.12	2.02	1.77
147.5	2.70	2.47	2.45	2.37	2.15	2.24	2.23	2.40	2.24	2.26
150.0	3.26	3.25	3.01	3.05	2.71	2.56	2.70	2.61	2.72	2.68
152.5	3.78	3.62	3.76	3.65	3.44	3.31	3.40	3.34	3.40	3.41
155.0	4.34	4.39	4.35	4.41	4.27	4.29	4.31	4.19	4.20	4.13
157.5	4.75	5.00	5.18	5.08	5.12	5.08	5.18	4.91	5.07	4.86
160.0	5.21	5.38	5.61	5.68	5.74	5.84	5.86	5.87	5.75	5.80
162.5	5.57	5.80	6.22	6.35	6.38	6.49	6.60	6.64	6.47	6.38
165.0	5.86	6.24	6.57	6.77	6.89	6.94	7.23	7.27	7.02	6.92
167.5	6.19	6.53	6.88	6.97	7.17	7.30	7.35	7.37	7.37	7.43

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CANDELA TABULATION - (Cont.)

170.0	6.19	6.45	6.76	7.01	7.10	7.50	7.56	7.64	7.53	7.60
172.5	6.51	6.52	6.71	7.01	7.09	7.43	7.62	7.67	7.81	7.56
175.0	6.42	6.50	6.63	6.64	6.80	6.86	7.29	7.48	7.46	7.56
177.5	6.59	6.55	6.43	6.61	6.47	6.61	6.85	7.17	7.07	7.04
180.0	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58	6.58

Vert. Horizontal Angles

Angles	300	310	320	330	340	350	360
0.0	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79	23290.79
2.5	22912.68	22762.31	22957.29	22668.42	22876.54	22592.91	22029.98
5.0	18490.93	18332.32	18469.31	18121.50	18031.54	17735.81	15956.88
7.5	12506.63	12389.09	12147.39	12370.56	11654.50	11286.07	9656.85
10.0	7513.10	7193.19	6872.71	6777.86	6616.37	6314.10	5136.19
12.5	4190.45	3951.75	3652.31	3562.90	3472.89	3370.59	2730.15
15.0	2389.03	2187.51	2061.14	1923.21	1886.30	1797.57	1494.52
17.5	1400.27	1243.18	1178.90	1070.59	1059.55	1038.06	865.47
20.0	832.79	738.72	670.10	643.53	608.66	582.75	482.50
22.5	509.93	443.91	402.92	386.25	357.50	340.58	290.23
25.0	340.39	283.20	255.67	239.88	223.51	212.72	190.35
27.5	240.54	202.70	177.79	167.91	159.21	151.48	137.03
30.0	175.60	156.84	136.87	128.15	121.96	114.80	104.43
32.5	135.44	121.50	109.92	103.48	99.44	90.73	84.25
35.0	109.49	97.73	93.47	85.62	83.49	75.63	70.94
37.5	89.25	81.77	78.19	72.80	70.76	65.31	62.17
40.0	72.70	71.51	66.72	64.06	61.17	58.16	54.87
42.5	63.30	61.65	58.64	57.29	52.61	51.52	48.33
45.0	55.42	52.78	52.06	50.79	46.22	44.68	42.02
47.5	48.41	46.31	46.08	43.73	40.83	38.56	37.70
50.0	43.15	41.15	39.53	38.32	35.86	33.66	33.05
52.5	38.08	36.29	34.51	33.66	31.58	29.18	27.98
55.0	34.18	31.74	30.28	29.67	27.27	25.62	24.26
57.5	29.56	28.13	26.56	25.89	23.42	22.52	20.75
60.0	25.93	25.01	22.33	21.64	20.49	19.32	17.73
62.5	23.07	20.99	19.55	18.04	17.59	15.96	14.92
65.0	19.55	18.76	17.29	15.65	14.90	13.28	12.38
67.5	17.34	16.31	14.68	13.01	12.38	11.00	10.09
70.0	14.62	13.68	12.62	11.01	10.28	8.80	8.07
72.5	11.52	11.69	10.69	9.47	8.41	6.74	5.80
75.0	9.43	8.99	8.77	7.75	6.46	5.08	4.16
77.5	7.42	7.01	6.88	6.51	5.07	3.76	3.12
80.0	6.05	5.57	5.45	4.82	3.78	2.72	2.19
82.5	4.72	4.50	4.16	3.71	3.04	2.07	1.73
85.0	4.07	3.49	3.43	2.91	2.37	1.66	1.32
87.5	3.26	2.95	2.82	2.38	1.59	1.34	1.03
90.0	2.85	2.66	2.25	2.01	1.42	1.08	0.83
92.5	2.45	2.34	1.98	1.66	1.08	0.98	0.91
95.0	2.20	2.00	1.66	1.31	0.96	0.87	0.98
97.5	1.91	1.74	1.49	1.27	0.88	0.77	0.86
100.0	1.77	1.59	1.37	1.13	0.84	0.79	0.88
102.5	1.70	1.49	1.24	1.05	0.75	0.83	0.86
105.0	1.66	1.43	1.12	0.94	0.81	0.78	0.77
107.5	1.48	1.29	1.01	1.02	1.00	0.66	0.71
110.0	1.42	1.07	1.01	0.87	0.93	0.91	0.80
112.5	1.34	1.06	1.09	0.89	0.89	0.78	0.83
115.0	1.20	1.06	0.98	0.87	0.80	0.80	0.76

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CANDELA TABULATION - (Cont.)

117.5	1.18	1.14	0.94	0.88	0.82	0.75	0.83
120.0	1.23	1.03	0.94	0.84	0.84	0.85	0.79
122.5	1.05	1.06	1.02	0.88	0.93	0.84	0.88
125.0	1.10	1.00	0.98	0.83	0.81	0.74	0.86
127.5	1.07	1.05	0.95	0.85	0.90	0.82	0.68
130.0	1.14	1.10	0.94	0.95	0.84	0.88	0.86
132.5	1.18	1.07	0.91	0.97	0.99	0.91	0.97
135.0	1.21	1.13	1.07	0.94	1.15	1.24	1.24
137.5	1.20	1.09	1.22	1.06	1.11	1.28	1.38
140.0	1.28	1.38	1.41	1.34	1.37	1.47	1.75
142.5	1.58	1.39	1.63	1.82	1.84	1.77	2.08
145.0	1.80	1.86	2.01	2.09	2.19	2.19	2.31
147.5	2.18	2.46	2.43	2.56	2.75	2.66	2.81
150.0	2.83	2.81	3.01	2.97	3.14	3.16	3.23
152.5	3.47	3.43	3.53	3.65	3.73	3.65	3.70
155.0	4.10	4.21	4.10	4.20	4.27	4.01	4.00
157.5	4.95	4.87	4.91	4.78	4.68	4.62	4.47
160.0	5.54	5.37	5.35	5.35	5.10	4.92	4.96
162.5	6.29	6.13	5.90	5.71	5.66	5.35	5.35
165.0	6.81	6.81	6.25	6.31	5.93	5.77	5.55
167.5	7.12	7.03	6.99	6.56	6.36	6.12	5.77
170.0	7.54	7.31	7.23	6.85	6.54	6.51	5.97
172.5	7.31	7.41	7.14	7.02	6.81	6.57	6.27
175.0	7.36	7.34	7.15	6.99	6.80	6.71	6.45
177.5	6.98	7.11	7.04	6.99	6.83	6.82	6.44
180.0	6.58	6.58	6.58	6.58	6.58	6.58	6.58

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1804.38	N.A.	84.70
0-30	1957.81	N.A.	91.90
0-40	2020.89	N.A.	94.90
0-60	2087.79	N.A.	98.00
0-80	2113.28	N.A.	99.20
0-90	2117.21	N.A.	99.40
10-90	931.60	N.A.	43.70
20-40	216.51	N.A.	10.20
20-50	256.47	N.A.	12.00
40-70	83.84	N.A.	3.90
60-80	25.48	N.A.	1.20
70-80	8.55	N.A.	0.40
80-90	3.93	N.A.	0.20
90-110	3.92	N.A.	0.20
90-120	5.21	N.A.	0.20
90-130	6.24	N.A.	0.30
90-150	8.64	N.A.	0.40
90-180	13.12	N.A.	0.60
110-180	9.20	N.A.	0.40
0-180	2130.33	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1185.61
10-20	618.77
20-30	153.43
30-40	63.08
40-50	39.96
50-60	26.94
60-70	16.93
70-80	8.55
80-90	3.93
90-100	2.28
100-110	1.63
110-120	1.29
120-130	1.03
130-140	0.99
140-150	1.41
150-160	2.04
160-170	1.80
170-180	0.65

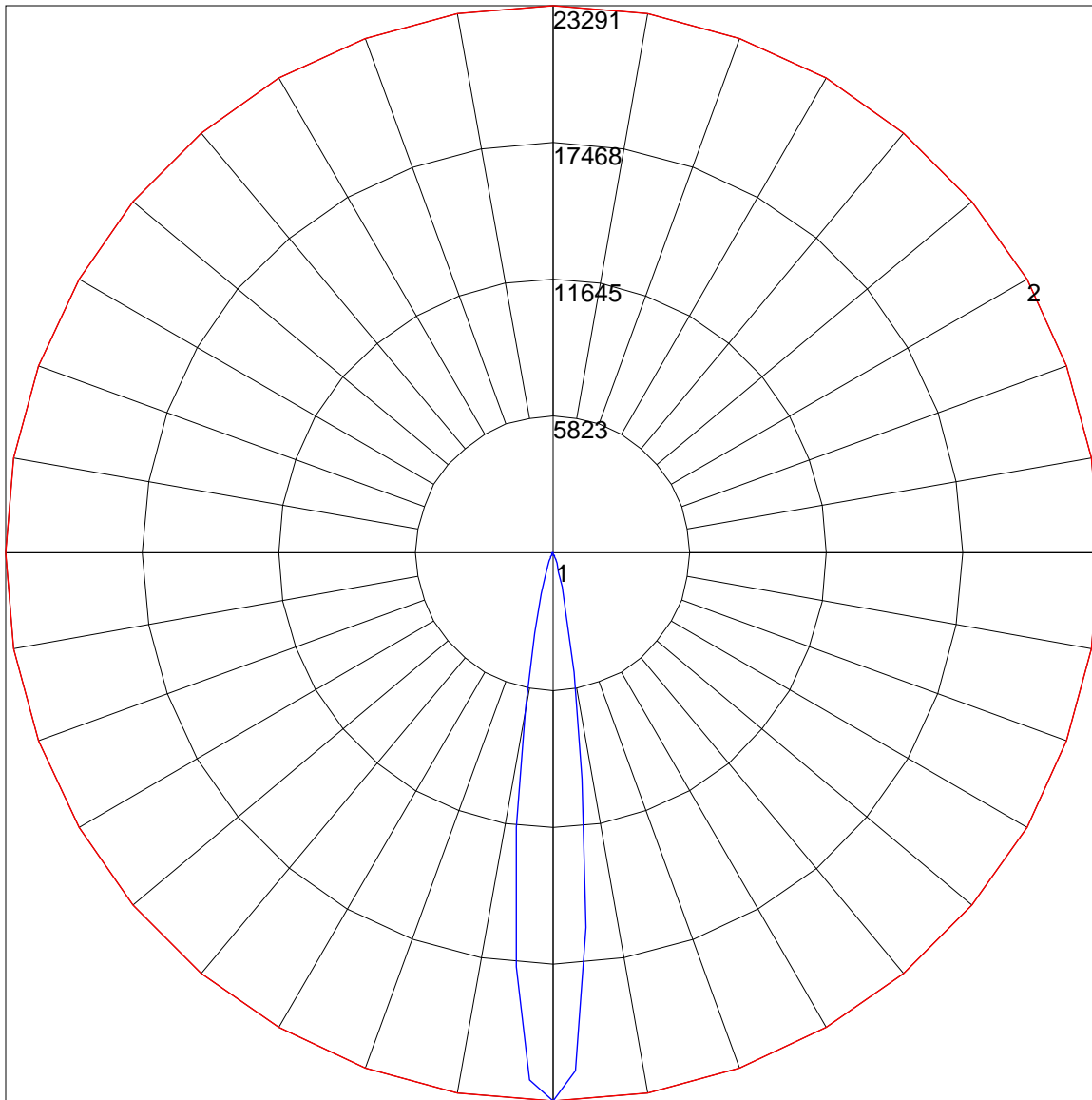
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	113	111	110	113	111	109	108	107	105	104	103	102	101	100	99	98	96
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	95	94
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	91
4	106	101	97	94	104	99	96	94	97	95	92	96	93	91	94	92	90	89
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	88	87
6	101	95	91	88	99	94	91	88	93	90	88	92	89	87	90	88	86	85
7	98	93	89	86	97	92	89	86	91	88	86	90	87	85	89	87	85	84
8	96	91	87	84	95	90	87	84	89	86	84	88	86	84	87	85	83	82
9	94	89	85	83	94	88	85	83	87	84	82	87	84	82	86	84	82	81
10	93	87	83	81	92	87	83	81	86	83	81	85	83	81	85	82	80	80

POLAR GRAPH



Maximum Candela = 23290.79 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.)