



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SPYLED4WT40MNB.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 6,969
 [TESTLAB] CSA Group
 [ISSUEDATE] 12/16/2013 12:40:40 PM
 [MANUFAC] Beghelli
 [LUMINAIRE] SPYLED IP 684WT41 NBD 24V RAW
 [_AMBIENT] 25.7 deg C
 [_POWERFACTOR] 0.971
 [_ATHD] 7.51%
 [_CURRENT] 0.21
 [_VOLTAGE] 120.13
 [_STABILIZATION] 40:53.7 Stable
 [_POWER VARIATION] 0.00 %
 [_LIGHT VARIATION] 0.49 %
 [_Lumens] 1,794.93

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1822
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	24.62
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.26
Spacing Criterion (90-270)	0.26
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

	<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>
0.0	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24
2.5	17305.99	16955.02	17249.00	17665.59	17798.77	17851.29	17667.00	17670.10	17607.43	17560.88
5.0	13306.48	12865.09	13342.18	13869.43	14262.50	14213.07	14321.88	14127.23	13896.01	13590.02
7.5	8331.80	8181.27	8708.19	9125.21	9461.55	9601.12	9681.96	9604.91	9539.90	9214.86
10.0	4634.02	4632.27	4881.89	5267.93	5640.80	5693.81	5736.36	5876.39	5745.69	5621.45
12.5	2405.53	2393.48	2602.73	2770.97	3072.70	3210.75	3445.24	3583.11	3567.96	3456.27
15.0	1271.15	1271.83	1369.39	1523.30	1696.27	1854.92	1988.99	2132.91	2190.71	2170.43
17.5	740.99	755.40	802.26	885.16	1003.76	1098.48	1181.53	1294.24	1392.09	1402.12
20.0	453.84	451.63	500.10	554.96	627.75	670.49	728.16	819.82	905.87	946.36
22.5	290.89	288.59	318.38	356.93	400.60	424.76	453.83	538.24	624.31	649.24
25.0	189.31	190.74	209.18	239.41	261.28	275.53	311.75	369.00	440.66	459.65
27.5	133.84	136.85	149.25	170.26	179.43	195.52	220.02	262.95	320.49	347.62
30.0	102.28	105.55	116.65	129.48	134.11	149.30	165.04	194.47	257.07	272.89
32.5	80.63	82.66	93.90	100.45	106.48	116.95	126.33	152.76	195.00	211.95
35.0	65.00	66.93	76.67	80.65	88.07	94.87	103.82	119.73	148.02	169.97
37.5	55.16	56.88	64.32	67.05	72.68	77.06	84.75	95.95	120.25	135.71
40.0	47.15	48.58	55.15	57.86	62.02	65.82	70.45	76.22	97.09	113.15
42.5	40.81	41.93	47.79	50.49	53.02	57.27	59.01	63.64	82.33	95.90
45.0	36.13	36.47	40.90	44.37	46.04	49.11	48.37	55.27	70.49	83.30
47.5	31.88	31.50	35.67	38.37	40.73	41.85	43.04	47.65	61.00	72.81
50.0	27.48	27.87	32.13	33.59	36.20	35.39	37.53	42.65	51.91	62.13
52.5	24.14	24.64	27.28	29.13	30.96	31.88	33.54	36.94	44.60	53.46
55.0	21.59	21.90	23.96	25.83	27.12	27.51	29.47	32.00	37.78	46.08
57.5	19.36	20.02	21.27	22.90	23.19	24.66	26.06	28.33	33.56	40.14
60.0	17.53	18.02	18.91	19.72	20.43	21.83	22.87	25.00	29.14	34.99
62.5	15.84	16.35	17.11	17.37	17.58	19.42	20.29	21.76	24.65	30.13
65.0	14.29	15.14	15.88	15.36	15.46	17.04	17.98	18.60	21.34	26.49
67.5	13.07	13.54	14.61	13.44	13.74	14.93	15.58	15.96	18.32	22.51
70.0	11.04	11.82	12.70	11.29	11.65	12.56	12.98	13.27	15.37	19.33
72.5	8.30	9.56	10.34	9.47	10.08	10.57	10.67	10.82	12.49	16.00
75.0	4.10	7.26	7.48	7.96	8.43	8.40	8.35	8.55	10.15	13.35
77.5	3.01	3.71	5.33	6.33	6.69	6.43	6.48	6.61	8.51	11.22
80.0	2.19	2.59	4.03	6.33	5.07	4.93	5.05	5.70	7.22	9.74
82.5	1.69	2.00	2.95	3.67	3.88	3.87	4.21	4.79	6.35	8.87
85.0	1.34	1.56	2.23	2.98	3.09	3.31	3.59	4.18	5.70	8.12
87.5	0.98	1.23	1.71	2.14	2.65	2.88	3.09	3.58	4.82	7.25
90.0	0.93	0.99	1.57	1.95	2.30	2.57	2.78	3.15	4.48	7.05
92.5	0.85	0.81	1.08	1.59	1.87	2.18	2.36	2.82	4.21	6.58
95.0	0.76	0.84	1.05	1.38	1.81	1.89	2.01	2.65	3.79	6.01
97.5	0.87	1.04	0.85	1.20	1.60	1.74	2.02	2.23	3.39	5.35
100.0	0.77	0.72	0.81	1.08	1.39	1.51	1.70	2.01	2.94	4.66
102.5	0.94	0.76	0.84	1.05	1.27	1.30	1.64	1.87	2.79	4.20
105.0	0.78	0.80	0.85	1.03	1.22	1.13	1.33	1.82	2.71	4.06
107.5	0.73	0.77	0.90	0.83	1.04	1.19	1.47	1.54	2.51	3.80
110.0	0.74	0.69	0.78	0.84	0.95	1.16	1.34	1.60	2.25	3.46
112.5	0.81	0.78	0.83	0.91	0.91	1.17	1.29	1.49	2.28	3.25
115.0	0.92	0.90	0.87	0.85	0.93	1.04	1.17	1.38	2.10	3.04
117.5	0.86	0.79	0.76	0.83	1.03	0.96	1.03	1.21	1.86	2.63
120.0	0.84	0.84	0.80	0.94	0.97	0.99	1.10	1.28	1.69	2.26
122.5	0.87	0.79	0.87	0.80	0.98	0.99	1.10	1.19	1.59	2.06
125.0	0.77	0.75	0.76	0.96	0.96	0.89	1.01	1.28	1.66	1.91
127.5	0.90	0.93	0.75	0.91	1.09	0.99	1.13	1.23	1.51	1.96
130.0	0.85	0.98	0.82	0.88	0.98	1.00	1.06	1.37	1.48	2.18
132.5	0.80	0.93	0.90	0.98	1.00	1.07	1.18	1.14	1.58	2.39

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CANDELA TABULATION - (Cont.)

135.0	1.03	1.08	0.88	0.96	1.06	1.03	1.02	1.28	1.47	2.61
137.5	1.18	1.29	1.43	1.10	1.22	1.26	1.20	1.48	1.74	2.83
140.0	1.53	1.47	1.45	1.42	1.41	1.51	1.42	1.46	1.78	3.04
142.5	1.93	1.86	1.76	1.82	1.68	1.72	1.59	1.69	1.83	3.26
145.0	2.21	2.35	2.20	2.13	1.97	1.98	1.89	1.90	2.17	3.48
147.5	2.61	2.64	2.50	2.53	2.56	2.42	2.24	2.43	2.29	3.69
150.0	3.01	3.04	3.12	3.11	2.90	2.95	2.81	2.80	2.65	3.91
152.5	3.36	3.28	3.40	3.60	3.50	3.45	3.42	3.37	3.26	4.13
155.0	3.71	3.79	3.85	3.85	3.80	3.77	3.90	3.96	3.95	4.34
157.5	4.02	4.19	4.26	4.25	4.41	4.43	4.66	4.73	4.64	4.66
160.0	4.54	4.44	4.71	4.78	4.93	5.03	5.15	5.20	5.24	5.29
162.5	4.66	4.89	4.85	5.11	5.32	5.25	5.57	5.61	5.64	5.66
165.0	4.94	5.10	5.27	5.45	5.75	5.76	6.02	6.01	5.89	6.06
167.5	5.11	5.43	5.44	5.70	5.87	5.96	6.12	6.31	6.33	6.26
170.0	5.26	5.45	5.69	5.98	6.09	6.17	6.23	6.39	6.41	6.39
172.5	5.53	5.70	5.74	6.01	6.08	6.28	6.20	6.36	6.32	6.34
175.0	5.66	5.73	5.78	5.70	6.00	6.16	6.15	6.22	6.24	6.13
177.5	5.76	5.85	5.81	5.97	5.93	6.04	6.05	6.01	6.06	5.92
180.0	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82

**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	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24
2.5	17232.71	17079.31	16899.14	16793.77	16629.12	16476.27	16441.15	16492.58	17344.33	17025.68
5.0	13406.98	12962.38	12616.48	12624.22	12400.03	12370.95	12237.29	12173.36	13494.80	13144.18
7.5	9087.43	8513.45	8230.86	7933.96	7868.21	7590.88	7552.64	7499.97	8934.31	8642.63
10.0	5524.05	5109.96	4937.22	4714.98	4508.10	5200.28	4326.38	4198.28	4906.05	5011.68
12.5	3288.54	3149.51	2918.02	2719.27	2515.07	4095.17	2360.43	2280.32	2838.71	2760.63
15.0	2081.72	1907.10	1736.01	1578.80	1450.64	2990.06	1345.03	1320.93	1600.70	1590.15
17.5	1338.52	1190.14	1068.49	957.21	894.17	1884.95	798.01	781.74	914.69	918.07
20.0	876.91	757.36	654.44	585.27	548.11	779.84	480.47	452.33	526.15	537.33
22.5	595.92	481.92	419.93	369.34	340.73	324.62	292.61	278.93	328.90	323.03
25.0	428.17	347.33	289.02	248.02	220.68	213.80	195.39	204.10	217.83	214.26
27.5	313.39	249.16	211.77	183.77	160.82	154.85	151.45	172.68	173.13	157.71
30.0	243.50	189.14	157.77	141.16	125.71	122.64	125.28	153.73	167.19	133.69
32.5	183.78	145.23	121.62	110.61	100.98	98.52	107.36	130.45	149.74	118.37
35.0	143.76	111.51	96.32	86.97	82.98	80.94	91.49	105.93	118.61	99.05
37.5	114.35	89.82	78.49	71.47	69.97	67.65	77.21	87.29	96.16	83.97
40.0	92.89	72.44	66.43	61.83	59.33	58.95	66.60	75.31	81.05	72.28
42.5	78.66	61.08	54.64	53.57	51.04	52.04	57.10	64.89	67.88	62.16
45.0	67.94	52.17	46.48	46.78	44.77	45.13	48.73	54.72	58.67	52.80
47.5	59.26	45.85	40.25	39.77	39.48	39.42	41.98	46.76	52.68	44.99
50.0	50.12	40.28	36.03	34.18	34.65	34.18	36.34	39.08	45.85	39.55
52.5	42.93	35.00	31.95	30.04	29.73	29.82	31.11	34.24	39.67	34.21
55.0	37.02	30.13	27.88	26.07	25.51	26.15	26.57	29.08	33.66	29.98
57.5	32.07	26.45	24.08	23.03	22.17	22.75	22.69	24.80	28.03	25.43
60.0	27.91	23.24	21.26	20.04	19.14	19.32	19.36	20.66	23.37	21.06
62.5	23.79	19.95	18.79	17.76	16.47	16.39	16.28	17.21	19.07	17.63
65.0	20.58	16.99	16.21	15.31	14.50	13.58	13.62	14.03	15.39	14.21
67.5	17.61	14.65	13.66	13.19	12.60	11.59	11.46	11.43	12.33	11.53
70.0	14.47	12.04	11.49	11.14	10.73	9.69	9.47	8.85	9.54	9.03
72.5	11.84	9.71	9.30	9.28	8.90	8.19	7.27	6.80	7.15	7.07
75.0	9.66	7.82	7.33	7.56	7.43	6.54	5.73	4.84	5.30	5.55
77.5	8.02	6.19	5.78	5.72	5.93	5.36	4.67	3.70	3.50	3.91
80.0	6.78	5.30	4.47	4.33	4.48	4.19	3.64	2.61	2.80	3.01

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CANDELA TABULATION - (Cont.)

82.5	5.93	4.39	3.87	3.59	3.54	3.26	2.65	2.06	2.11	2.25
85.0	5.29	3.85	3.38	3.04	2.86	2.47	2.08	1.48	1.59	1.72
87.5	4.78	3.46	2.84	2.65	2.41	2.09	1.69	1.22	1.16	1.21
90.0	4.34	3.12	2.58	2.39	1.98	1.64	1.33	0.93	0.89	0.94
92.5	3.98	2.87	2.38	2.14	1.90	1.45	0.95	0.98	0.83	0.68
95.0	3.65	2.45	2.20	1.79	1.53	1.26	1.03	0.82	0.77	0.81
97.5	3.22	2.38	1.85	1.67	1.49	1.22	0.93	0.82	0.81	0.67
100.0	2.94	2.03	1.72	1.54	1.27	1.07	0.85	0.93	0.68	0.67
102.5	2.68	1.95	1.65	1.21	1.21	1.07	0.83	0.80	0.74	0.80
105.0	2.53	1.68	1.38	1.28	1.17	0.91	0.96	0.68	0.69	0.84
107.5	2.48	1.62	1.43	1.26	1.05	1.03	0.80	0.68	0.68	0.73
110.0	2.32	1.50	1.23	1.05	0.92	1.00	0.94	0.66	0.80	0.75
112.5	1.99	1.44	1.17	1.20	0.98	0.95	0.78	0.73	0.79	0.89
115.0	1.93	1.32	1.20	1.01	0.98	0.96	0.82	0.87	0.76	0.79
117.5	1.79	1.38	1.07	0.80	1.04	0.71	0.89	0.75	0.78	0.81
120.0	1.71	1.34	1.05	0.92	0.91	0.92	0.87	0.71	0.71	0.84
122.5	1.61	1.20	1.07	1.03	0.87	0.92	0.75	0.76	0.70	0.84
125.0	1.49	1.05	1.06	1.09	0.95	0.82	0.70	0.75	0.81	0.80
127.5	1.53	1.25	1.04	0.98	0.91	0.77	0.84	0.83	0.92	0.85
130.0	1.49	1.16	1.08	0.97	0.92	0.87	0.85	0.88	0.89	0.80
132.5	1.35	1.18	1.02	1.03	0.97	0.91	0.97	0.78	0.99	0.97
135.0	1.45	1.24	1.07	1.04	1.09	0.95	0.97	1.06	0.98	0.99
137.5	1.71	1.33	1.17	1.10	1.24	1.12	1.22	1.19	1.28	1.14
140.0	1.62	1.33	1.39	1.09	1.31	1.33	1.47	1.47	1.47	1.31
142.5	1.80	1.52	1.54	1.46	1.57	1.68	1.78	1.74	1.67	1.76
145.0	1.98	1.77	1.67	1.93	1.93	2.04	2.14	2.19	2.11	2.06
147.5	2.22	2.24	2.20	2.17	2.34	2.42	2.59	2.59	2.30	2.52
150.0	2.80	2.63	2.82	2.87	2.98	3.01	2.90	3.13	2.77	2.84
152.5	3.34	3.27	3.43	3.53	3.43	3.36	3.56	3.27	3.27	3.23
155.0	4.01	3.94	3.97	4.04	3.90	3.97	3.77	3.68	3.47	3.55
157.5	4.62	4.54	4.55	4.49	4.52	4.42	4.11	4.04	3.79	3.84
160.0	5.32	5.19	5.17	4.95	4.94	4.73	4.60	4.44	4.13	4.07
162.5	5.82	5.69	5.61	5.37	5.28	5.02	4.84	4.66	4.54	4.55
165.0	5.99	5.88	5.73	5.75	5.39	5.36	5.06	4.84	4.99	4.93
167.5	6.19	5.91	5.97	5.77	5.61	5.34	5.07	5.00	5.23	5.06
170.0	6.30	6.22	5.91	5.76	5.55	5.48	5.37	5.14	5.46	5.29
172.5	6.11	5.97	5.77	5.67	5.55	5.55	5.51	5.28	5.46	5.47
175.0	5.95	5.56	5.62	5.56	5.50	5.62	5.53	5.47	5.77	5.61
177.5	5.65	5.51	5.42	5.55	5.58	5.78	5.70	5.83	5.83	5.80
180.0	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82

**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	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24
2.5	16889.32	16605.36	16470.60	16228.35	16009.13	15710.42	15712.24	15537.86	15666.70	15672.44
5.0	12838.52	12642.67	12365.31	12050.42	11874.56	11589.57	11521.25	11362.25	11382.84	11444.22
7.5	8411.14	8119.24	8083.06	7779.72	7713.89	7665.16	7610.18	7661.96	7559.90	7610.39
10.0	4845.79	4883.98	4536.74	4855.66	4553.08	4717.43	4799.27	4832.27	4758.90	4494.17
12.5	2778.25	2763.13	2837.30	2963.42	2979.49	3069.42	3130.53	3090.39	3023.99	2880.41
15.0	1606.11	1648.45	1756.57	1797.49	1888.41	1984.78	2064.96	2026.62	1965.02	1853.08
17.5	942.28	1004.77	1090.64	1130.44	1179.11	1264.80	1357.61	1381.87	1300.17	1173.07
20.0	549.14	613.32	656.70	697.96	735.18	836.92	915.29	931.67	866.02	764.24
22.5	335.23	371.98	399.16	438.07	480.08	562.99	621.24	641.41	594.68	503.89
25.0	221.54	235.05	256.96	292.25	330.40	383.91	445.13	454.26	408.97	344.54
27.5	162.87	166.14	178.65	208.48	229.68	266.90	326.07	342.99	299.59	236.20

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	125.80	122.39	133.29	144.81	162.15	200.08	244.32	261.89	225.82	174.51
32.5	99.66	93.92	100.65	103.10	120.64	148.92	182.14	197.00	168.44	130.03
35.0	81.69	75.41	77.26	79.82	91.70	107.50	139.01	156.12	130.84	96.72
37.5	67.39	62.43	61.26	63.89	69.47	83.45	112.36	128.00	104.62	75.97
40.0	58.40	52.84	51.32	53.26	55.96	66.99	90.62	104.41	83.84	63.79
42.5	50.58	46.37	44.83	44.94	46.95	55.25	75.37	87.52	69.41	52.78
45.0	44.58	40.35	39.86	39.17	39.94	46.94	62.77	74.40	58.57	44.48
47.5	38.93	36.01	34.81	34.18	35.34	40.21	53.58	63.48	50.04	38.61
50.0	34.28	31.69	30.77	30.61	30.64	35.28	45.66	55.01	43.48	34.25
52.5	29.78	27.89	27.09	27.32	27.55	30.83	39.99	48.46	37.86	30.01
55.0	25.91	24.63	24.72	24.04	24.74	27.66	34.57	42.25	33.26	27.02
57.5	23.16	21.81	21.35	21.75	22.64	24.24	31.24	38.28	29.86	24.02
60.0	19.86	18.66	18.71	19.35	19.72	21.97	27.70	33.60	26.51	21.60
62.5	16.64	15.61	16.30	17.51	17.58	19.63	24.82	30.53	23.77	19.22
65.0	13.88	13.20	14.53	15.22	15.90	17.18	21.01	26.09	20.24	17.46
67.5	11.56	11.29	12.95	13.54	13.83	14.43	17.99	22.22	17.32	14.41
70.0	9.43	9.88	11.38	11.57	11.30	11.75	14.90	19.01	14.47	11.88
72.5	7.59	8.50	9.51	9.41	9.11	9.87	12.47	15.85	12.01	9.88
75.0	6.13	7.09	7.50	7.37	7.43	8.02	10.44	13.62	9.97	8.06
77.5	4.85	5.80	6.03	6.03	6.03	6.68	8.85	12.00	8.52	6.59
80.0	3.89	4.44	4.87	4.76	5.14	5.77	7.44	10.41	7.25	5.54
82.5	3.05	3.54	3.72	4.03	4.13	4.69	6.60	9.06	6.21	4.62
85.0	2.23	2.79	3.21	3.37	3.56	3.99	5.55	8.17	5.45	4.02
87.5	1.80	2.33	2.66	2.93	3.04	3.52	5.05	7.63	4.76	3.32
90.0	1.45	1.82	2.21	2.50	2.86	3.10	4.51	6.89	4.37	3.05
92.5	1.13	1.63	1.93	2.14	2.24	2.73	3.97	6.22	3.65	2.61
95.0	1.06	1.34	1.67	1.91	2.05	2.44	3.53	5.30	3.20	2.49
97.5	0.95	1.22	1.51	1.64	1.90	2.18	3.17	4.86	2.95	2.13
100.0	0.88	1.08	1.30	1.48	1.70	2.15	2.80	4.36	2.79	1.93
102.5	0.88	0.96	1.17	1.36	1.66	1.88	2.63	4.05	2.50	1.84
105.0	0.79	0.94	1.08	1.50	1.41	1.86	2.71	3.90	2.48	1.75
107.5	0.71	0.93	1.08	1.17	1.50	1.81	2.56	3.96	2.57	1.63
110.0	0.70	0.99	1.29	1.15	1.37	1.71	2.66	3.88	2.50	1.52
112.5	0.79	0.85	0.94	1.01	1.30	1.59	2.41	3.70	2.25	1.32
115.0	0.79	0.81	1.03	1.04	1.28	1.41	2.37	3.40	2.21	1.43
117.5	0.83	0.86	0.94	0.98	1.22	1.41	2.17	3.02	2.05	1.46
120.0	0.76	0.90	0.97	1.12	1.24	1.33	1.99	2.98	1.85	1.43
122.5	0.82	0.82	0.96	1.16	1.18	1.30	1.93	2.66	1.97	1.35
125.0	0.71	0.88	0.97	1.00	1.13	1.29	1.75	2.33	1.88	1.36
127.5	0.88	0.84	0.81	1.05	1.24	1.33	1.80	2.29	1.71	1.31
130.0	0.93	0.61	0.97	1.03	1.21	1.35	1.69	2.12	1.59	1.43
132.5	0.82	1.01	0.98	1.09	0.98	1.39	1.58	2.14	1.78	1.18
135.0	1.07	1.05	1.08	1.16	1.12	1.41	1.62	2.09	1.66	1.44
137.5	1.08	1.30	1.14	1.22	1.27	1.31	1.78	2.00	1.64	1.39
140.0	1.32	1.33	1.35	1.29	1.31	1.37	1.63	1.89	1.65	1.54
142.5	1.58	1.66	1.54	1.66	1.60	1.54	1.92	1.96	1.74	1.63
145.0	2.11	2.00	2.00	1.94	1.95	1.92	2.05	2.19	1.92	1.78
147.5	2.49	2.59	2.42	2.51	2.33	2.29	2.40	2.33	2.15	2.33
150.0	2.88	2.92	2.97	2.93	2.97	2.69	2.81	2.82	2.74	2.77
152.5	3.40	3.47	3.45	3.56	3.50	3.54	3.38	3.46	3.36	3.27
155.0	3.91	3.89	3.94	4.10	4.18	4.10	4.10	4.16	4.08	4.17
157.5	4.15	4.27	4.57	4.74	4.67	4.93	4.94	4.90	4.85	4.88
160.0	4.32	4.69	4.93	5.03	5.08	5.47	5.44	5.42	5.36	5.21
162.5	4.87	4.93	5.26	5.49	5.32	5.84	5.98	5.99	5.98	5.84
165.0	4.93	5.46	5.61	5.93	5.56	6.19	6.32	6.20	6.36	6.27
167.5	5.18	5.51	5.66	5.92	5.80	6.22	6.39	6.48	6.49	6.45

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

170.0	5.45	5.47	5.79	5.89	6.03	6.36	6.47	6.68	6.47	6.50
172.5	5.59	5.54	5.56	5.90	5.97	5.99	6.35	6.52	6.49	6.34
175.0	5.62	5.70	5.78	5.78	5.78	5.86	6.05	6.28	6.25	6.04
177.5	5.83	5.67	5.81	5.73	5.82	5.82	5.85	5.84	5.89	5.85
180.0	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24	18479.24
2.5	15896.25	16052.56	16604.45	16827.54	17273.49	17504.40	17305.99
5.0	11520.39	11849.88	12219.22	12748.50	13199.58	13789.91	13306.48
7.5	7591.06	7727.08	7759.98	8159.44	8549.20	9060.87	8331.80
10.0	4456.73	4445.62	4387.95	4437.78	4550.45	5172.77	4634.02
12.5	2743.25	2614.11	2509.68	2494.33	2550.50	2718.27	2405.53
15.0	1708.98	1608.48	1491.27	1442.13	1420.13	1420.39	1271.15
17.5	1062.03	974.03	918.99	872.19	843.44	837.29	740.99
20.0	684.47	600.73	571.26	545.74	495.10	514.03	453.84
22.5	429.06	385.35	358.33	347.64	324.40	320.07	290.89
25.0	288.76	253.25	230.56	219.10	210.18	204.40	189.31
27.5	197.56	173.96	158.56	148.95	146.27	142.81	133.84
30.0	141.01	126.06	113.16	109.93	110.86	108.14	102.28
32.5	104.64	92.16	87.53	84.57	86.68	83.94	80.63
35.0	80.57	71.33	69.50	68.81	69.70	67.88	65.00
37.5	64.32	59.94	57.30	57.75	57.76	56.75	55.16
40.0	53.66	50.71	48.96	50.17	49.34	48.55	47.15
42.5	45.71	43.89	43.30	44.08	43.09	42.60	40.81
45.0	39.38	38.27	38.85	38.77	37.17	37.40	36.13
47.5	34.72	33.67	34.31	34.12	32.78	32.27	31.88
50.0	30.73	30.25	30.14	29.94	28.86	28.02	27.48
52.5	27.45	27.04	26.74	26.34	25.30	24.73	24.14
55.0	24.93	23.96	23.99	23.60	22.36	22.10	21.59
57.5	22.61	21.53	21.22	21.07	20.28	20.01	19.36
60.0	20.23	19.50	18.07	18.44	18.14	17.99	17.53
62.5	17.84	17.49	16.08	16.03	16.25	16.06	15.84
65.0	16.25	15.59	14.11	13.70	15.21	14.62	14.29
67.5	14.14	13.80	12.65	11.83	14.54	12.82	13.07
70.0	11.54	12.01	11.41	10.27	12.54	11.42	11.04
72.5	9.31	9.76	9.49	8.85	9.73	9.28	8.30
75.0	7.71	7.84	7.87	7.37	7.10	7.25	4.10
77.5	6.23	6.20	6.18	5.98	5.52	4.18	3.01
80.0	4.93	4.95	4.82	4.68	3.99	2.79	2.19
82.5	4.24	4.04	3.95	3.42	3.15	2.02	1.69
85.0	3.69	3.46	3.47	2.78	2.40	1.44	1.34
87.5	3.09	2.98	3.00	2.23	1.88	1.42	0.98
90.0	2.66	2.53	2.53	1.82	1.35	0.97	0.93
92.5	2.33	2.14	2.06	1.57	1.30	0.72	0.85
95.0	2.01	1.87	1.73	1.28	1.11	0.80	0.76
97.5	1.94	1.78	1.48	1.17	0.90	0.86	0.87
100.0	1.70	1.55	1.33	1.13	0.96	0.88	0.77
102.5	1.65	1.42	1.19	1.01	0.71	0.76	0.94
105.0	1.44	1.31	1.00	0.94	0.87	0.73	0.78
107.5	1.52	1.17	1.08	0.92	0.84	0.73	0.73
110.0	1.24	1.13	1.06	0.96	0.75	0.85	0.74
112.5	1.30	0.98	0.85	0.92	0.76	0.67	0.81
115.0	1.30	1.03	1.03	0.93	0.88	0.84	0.92

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CANDELA TABULATION - (Cont.)

117.5	1.18	0.99	0.99	0.91	0.80	0.71	0.86
120.0	1.11	1.11	0.91	0.93	0.77	0.80	0.84
122.5	1.06	1.00	1.06	0.93	0.72	0.85	0.87
125.0	1.14	1.02	1.02	0.99	0.71	0.89	0.77
127.5	1.09	0.98	0.89	0.89	0.85	0.78	0.90
130.0	1.08	1.03	0.83	0.87	0.83	0.72	0.85
132.5	1.10	1.06	0.94	0.99	0.98	1.04	0.80
135.0	1.10	1.26	1.11	0.97	1.03	1.05	1.03
137.5	1.23	0.95	1.13	1.05	1.22	1.20	1.18
140.0	1.26	1.34	1.33	1.42	1.36	1.44	1.53
142.5	1.44	1.62	1.55	1.71	1.76	1.75	1.93
145.0	1.82	1.85	2.04	2.17	1.99	2.27	2.21
147.5	2.06	2.35	2.33	2.35	2.47	2.49	2.61
150.0	2.91	2.71	2.83	2.99	3.01	3.00	3.01
152.5	3.33	3.45	3.40	3.38	3.38	3.29	3.36
155.0	4.00	4.06	3.97	3.93	3.71	3.69	3.71
157.5	4.75	4.57	4.49	4.20	4.35	3.91	4.02
160.0	5.14	5.19	4.92	4.76	4.51	4.25	4.54
162.5	5.65	5.57	5.39	5.06	4.85	4.71	4.66
165.0	5.98	5.95	5.70	5.46	5.13	5.04	4.94
167.5	6.37	6.09	6.03	5.81	5.44	5.38	5.11
170.0	6.55	6.16	6.12	5.83	5.59	5.46	5.26
172.5	6.25	6.19	6.03	5.86	5.84	5.68	5.53
175.0	6.19	6.12	5.97	5.92	5.81	5.75	5.66
177.5	5.88	5.82	5.86	5.89	5.94	5.82	5.76
180.0	5.82	5.82	5.82	5.82	5.82	5.82	5.82

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1506.85	N.A.	82.70
0-30	1653.77	N.A.	90.80
0-40	1717.22	N.A.	94.20
0-60	1780.99	N.A.	97.70
0-80	1806.05	N.A.	99.10
0-90	1809.93	N.A.	99.30
10-90	848.06	N.A.	46.50
20-40	210.37	N.A.	11.50
20-50	248.56	N.A.	13.60
40-70	80.29	N.A.	4.40
60-80	25.06	N.A.	1.40
70-80	8.54	N.A.	0.50
80-90	3.87	N.A.	0.20
90-110	3.80	N.A.	0.20
90-120	5.04	N.A.	0.30
90-130	6.04	N.A.	0.30
90-150	8.31	N.A.	0.50
90-180	12.21	N.A.	0.70
110-180	8.41	N.A.	0.50
0-180	1822.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	961.86
10-20	544.99
20-30	146.91
30-40	63.46
40-50	38.19
50-60	25.58
60-70	16.52
70-80	8.54
80-90	3.87
90-100	2.24
100-110	1.56
110-120	1.24
120-130	1.00
130-140	0.96
140-150	1.30
150-160	1.79
160-170	1.55
170-180	0.56

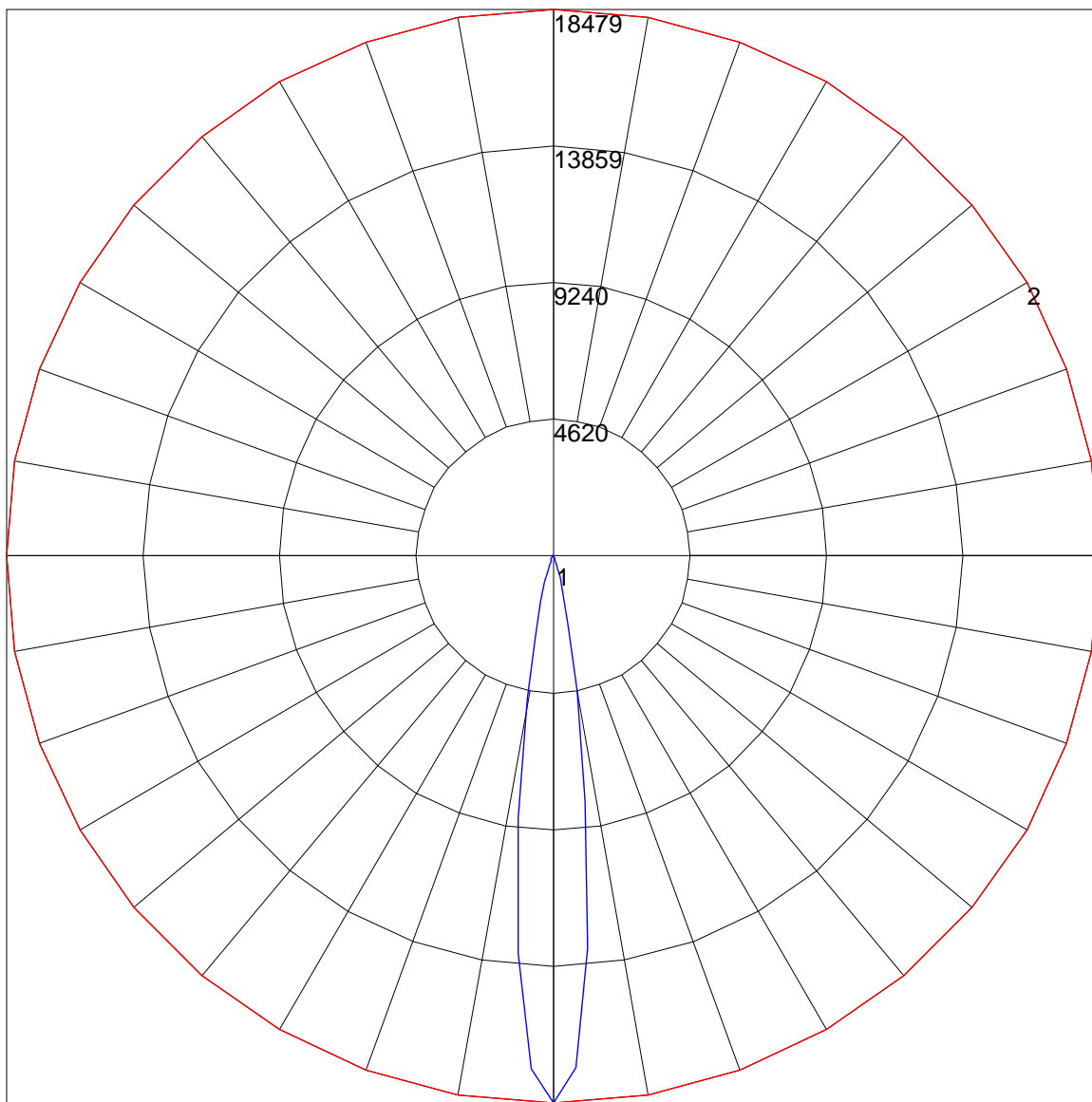
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	112	111	109	107	107	105	104	103	102	101	99	99	98	96
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	90
4	105	100	96	93	103	99	95	93	97	94	91	95	92	90	93	91	89	88
5	102	97	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86
6	100	94	90	87	98	93	90	87	92	89	86	91	88	86	89	87	85	84
7	97	91	88	85	96	91	87	85	90	87	84	89	86	84	88	85	83	82
8	95	89	85	83	94	89	85	83	88	85	82	87	84	82	86	84	82	81
9	93	87	84	81	92	87	83	81	86	83	81	85	82	80	85	82	80	79
10	91	85	82	80	91	85	82	79	84	81	79	84	81	79	83	81	79	78

POLAR GRAPH



Maximum Candela = 18479.24 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.)