



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDX4HTHOWT40120V-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.2.1 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Mon Jan 15 12:46:24 2018

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LED4XHTHOWT40120V-277V

[LAMP] LED 0.428W White 3030 package (150mA)

[LAMPCAT] SPMWHT328FD5WAV0S0

[OTHER]

IESNA:LM-63-2002

[TEST] 6,552

[TESTLAB] CSA Group

[ISSUE DATE] 7/24/2013 1:09:24 PM

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12196
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.21 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.32 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16399	12419	11831
55	13748	10329	9858
65	10086	7930	7743
75	6064	5384	5509
85	3219	3089	3050

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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	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12
2.5	4308.83	4349.42	4391.32	4280.79	4318.45	4318.91	4367.51	4370.59	4338.99	4356.76
5.0	4354.82	4265.86	4326.90	4291.55	4320.21	4292.10	4229.67	4346.36	4303.56	4211.65
7.5	4316.75	4314.91	4319.76	4318.10	4273.56	4236.13	4232.76	4285.60	4208.97	4281.64
10.0	4209.85	4251.44	4226.43	4179.90	4235.33	4250.22	4227.92	4228.08	4224.30	4237.42
12.5	4135.79	4192.89	4158.47	4119.07	4190.76	4217.68	4192.52	4236.21	4209.95	4212.12
15.0	4117.67	4086.68	4064.40	4084.36	4122.05	4088.46	4137.54	4147.82	4183.60	4144.78
17.5	4053.92	4023.64	4059.41	4045.93	4057.33	4068.47	4059.28	4076.42	4144.69	4125.01
20.0	3972.98	3951.75	3951.10	3956.67	3972.66	3963.25	3986.13	4049.50	4031.93	4073.20
22.5	3881.81	3884.93	3866.44	3901.39	3886.41	3879.18	3925.25	3949.91	3975.28	3966.56
25.0	3785.95	3780.25	3752.43	3789.93	3810.64	3794.20	3841.31	3889.18	3884.70	3893.12
27.5	3663.37	3676.77	3681.54	3670.26	3661.43	3706.68	3715.44	3765.75	3795.75	3780.90
30.0	3576.38	3541.95	3529.48	3556.26	3586.34	3571.48	3612.68	3629.23	3693.54	3697.17
32.5	3430.36	3438.04	3421.10	3436.29	3473.81	3456.82	3497.27	3531.06	3572.22	3608.08
35.0	3328.83	3305.84	3307.91	3345.75	3338.56	3354.65	3369.98	3399.73	3437.27	3445.93
37.5	3187.07	3158.22	3189.56	3196.52	3208.03	3212.63	3260.47	3266.45	3331.88	3316.57
40.0	3046.82	3057.78	3034.65	3046.01	3061.10	3091.78	3108.87	3110.67	3149.50	3163.37
42.5	2885.13	2885.16	2876.50	2925.10	2929.84	2951.38	2960.10	2977.32	3018.39	3014.15
45.0	2730.21	2715.07	2727.05	2744.33	2798.38	2789.37	2828.25	2833.01	2841.64	2867.57
47.5	2537.81	2526.71	2535.16	2578.83	2617.22	2653.90	2677.85	2683.44	2697.39	2693.46
50.0	2343.96	2353.46	2375.95	2413.01	2448.96	2480.32	2493.57	2525.51	2534.27	2550.07
52.5	2117.23	2133.02	2184.43	2237.14	2288.61	2330.15	2342.09	2365.16	2381.51	2371.32
55.0	1912.15	1918.25	1984.36	2053.21	2129.06	2144.09	2178.46	2219.63	2224.04	2237.79
57.5	1704.81	1715.08	1786.80	1874.90	1938.38	1979.54	2026.23	2062.20	2062.09	2065.99
60.0	1479.97	1512.19	1577.96	1694.16	1766.07	1810.65	1858.83	1877.39	1897.22	1907.63
62.5	1265.15	1311.03	1389.58	1496.89	1581.70	1649.52	1690.12	1716.31	1730.71	1728.56
65.0	1083.85	1115.63	1195.14	1299.80	1405.99	1487.15	1521.04	1554.85	1577.49	1585.40
67.5	887.29	925.14	1018.74	1123.10	1239.64	1312.23	1354.96	1397.28	1420.56	1421.48
70.0	726.43	764.30	841.60	965.42	1070.03	1140.42	1212.40	1243.19	1276.71	1268.43
72.5	576.40	606.01	690.26	807.34	922.07	1000.61	1067.89	1100.41	1113.48	1114.08
75.0	440.10	472.87	554.03	672.80	778.19	863.59	913.09	950.61	965.68	971.03
77.5	328.94	359.33	439.19	554.50	652.36	726.05	780.76	807.11	818.91	817.71
80.0	240.52	267.46	343.22	435.93	530.11	606.15	645.78	670.48	683.04	685.35
82.5	165.92	197.36	261.00	336.93	425.62	483.40	519.22	542.91	555.06	556.69
85.0	114.22	138.65	197.23	273.94	340.28	388.05	416.70	431.77	431.44	434.33
87.5	77.12	94.31	148.07	210.44	261.95	293.40	320.08	329.72	332.52	333.53
90.0	45.09	66.36	109.52	158.41	200.11	222.86	240.05	246.45	253.61	250.72
92.5	27.85	42.92	80.33	117.64	150.32	167.84	181.27	188.45	184.21	185.20
95.0	23.18	29.06	55.91	85.93	111.61	125.91	136.68	141.08	145.05	138.90
97.5	18.36	20.96	40.60	64.31	83.00	96.33	105.47	110.36	110.41	109.18
100.0	16.30	15.85	27.82	48.43	62.54	74.19	84.00	87.90	87.85	89.07
102.5	13.51	14.57	21.15	33.83	47.44	59.70	65.14	70.56	72.14	71.98
105.0	12.59	12.86	17.07	26.41	38.60	44.57	52.98	60.96	61.51	61.51
107.5	10.56	11.39	13.48	19.37	29.70	36.95	44.51	48.99	50.00	52.69
110.0	9.09	9.96	10.27	15.07	21.79	29.72	39.36	43.25	44.79	44.97
112.5	8.77	9.63	9.08	12.18	16.36	22.95	29.40	36.64	39.62	39.38
115.0	7.52	7.22	7.90	8.46	11.78	18.29	23.95	29.47	31.60	32.18
117.5	6.07	7.19	6.89	6.96	9.19	14.06	19.68	22.97	26.23	26.70
120.0	4.97	5.82	5.49	5.00	6.98	10.14	13.72	17.99	21.72	22.91
122.5	4.11	4.41	4.03	4.09	4.29	7.40	10.85	13.88	17.41	17.95
125.0	3.08	3.04	2.88	2.56	3.43	5.22	8.18	10.02	12.43	12.99
127.5	2.69	2.39	2.09	1.94	1.91	3.08	5.64	7.73	8.75	10.89
130.0	1.91	1.69	1.93	1.13	1.07	2.18	3.37	5.00	7.05	7.77
132.5	1.52	1.45	1.40	0.81	0.81	0.99	2.94	2.96	4.23	4.80

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CANDELA TABULATION - (Cont.)

135.0	0.87	0.79	0.79	0.76	0.41	0.86	1.76	2.87	2.90	2.85
137.5	0.68	0.51	0.53	0.19	0.16	0.25	0.75	1.48	1.98	2.10
140.0	0.36	0.41	0.24	0.12	0.04	0.08	0.27	0.81	1.38	1.57
142.5	0.30	0.17	0.26	0.10	0.04	0.07	0.12	0.29	0.42	0.78
145.0	0.08	0.05	0.27	0.10	0.10	0.01	0.22	0.27	0.14	0.21
147.5	0.09	0.22	0.00	0.14	0.14	0.27	0.10	0.18	0.31	0.32
150.0	0.08	0.26	0.37	0.21	0.16	0.26	0.21	0.07	0.12	0.16
152.5	0.36	0.44	0.45	0.25	0.80	0.44	0.35	0.23	0.02	0.12
155.0	0.64	0.36	0.26	0.59	0.61	0.32	0.37	0.06	0.41	0.66
157.5	1.32	0.45	0.58	0.53	0.87	0.84	1.00	0.69	0.43	0.84
160.0	0.64	1.14	1.05	0.77	0.98	0.81	0.39	0.66	0.42	0.82
162.5	0.58	0.85	1.26	1.17	1.04	1.00	0.81	1.00	1.08	0.32
165.0	1.33	0.78	0.93	0.96	1.04	1.29	0.75	0.86	0.89	0.72
167.5	1.45	0.34	1.35	1.55	0.39	1.33	0.89	1.32	1.37	1.06
170.0	1.10	1.53	1.25	2.30	0.85	0.62	0.93	0.80	1.42	1.43
172.5	1.19	0.97	1.59	0.82	1.66	1.54	1.06	0.53	0.46	1.35
175.0	0.86	1.67	1.05	0.86	0.26	1.16	0.60	0.87	1.29	0.00
177.5	1.55	0.00	2.72	0.48	1.63	0.56	0.04	1.15	0.81	2.75
180.0	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52

**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	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12
2.5	4391.14	4314.45	4362.42	4318.64	4347.51	4313.71	4289.31	4348.49	4329.75	4306.56
5.0	4344.52	4345.13	4319.42	4289.84	4291.78	4396.19	4291.26	4302.34	4344.30	4320.95
7.5	4237.56	4240.97	4243.26	4242.69	4257.17	4236.10	4293.28	4290.45	4327.95	4262.10
10.0	4207.83	4222.87	4258.06	4258.41	4218.26	4253.41	4219.20	4233.74	4267.70	4206.01
12.5	4164.97	4199.29	4162.72	4165.63	4136.04	4176.13	4163.05	4163.88	4201.06	4167.38
15.0	4152.83	4146.63	4148.87	4117.35	4107.84	4100.54	4110.64	4125.85	4131.40	4088.28
17.5	4134.03	4113.76	4091.51	4076.98	4045.07	4035.53	4020.49	4034.69	4056.23	4029.55
20.0	4070.85	4048.30	3996.40	3975.02	3958.20	3941.31	3958.31	3947.90	3966.78	3967.99
22.5	3985.50	3956.17	3900.71	3900.62	3867.76	3882.10	3859.53	3878.34	3863.49	3866.49
25.0	3850.76	3867.38	3811.72	3798.59	3782.73	3748.67	3774.25	3761.75	3775.36	3766.92
27.5	3781.67	3774.77	3721.01	3692.92	3693.51	3691.15	3693.53	3661.82	3658.36	3673.58
30.0	3697.47	3651.90	3601.38	3576.50	3562.50	3576.15	3563.56	3571.12	3587.28	3543.85
32.5	3560.70	3519.54	3496.57	3479.89	3457.87	3468.90	3448.49	3444.75	3426.92	3435.79
35.0	3442.18	3421.18	3386.41	3347.71	3341.60	3320.73	3325.34	3309.24	3338.15	3307.25
37.5	3303.50	3284.94	3234.50	3228.54	3197.17	3208.18	3200.19	3197.32	3195.92	3199.50
40.0	3158.27	3131.85	3099.54	3071.93	3054.43	3051.14	3036.72	3034.09	3046.90	3040.59
42.5	3007.62	2972.23	2968.80	2956.53	2922.30	2907.21	2891.62	2894.52	2890.90	2898.60
45.0	2870.77	2843.96	2825.48	2799.59	2778.37	2756.78	2728.64	2723.41	2723.74	2722.39
47.5	2691.29	2657.31	2670.57	2643.31	2604.74	2576.10	2561.94	2545.83	2544.62	2547.08
50.0	2533.92	2524.14	2502.92	2497.27	2450.36	2409.24	2382.17	2360.51	2346.83	2349.42
52.5	2388.71	2369.73	2346.01	2332.76	2289.23	2243.18	2175.01	2144.76	2163.52	2137.60
55.0	2215.95	2224.58	2180.51	2155.18	2104.93	2055.22	1993.33	1948.53	1944.04	1941.37
57.5	2059.35	2060.47	2023.65	1974.95	1939.74	1865.00	1779.28	1733.21	1725.71	1724.65
60.0	1914.43	1891.46	1857.92	1813.54	1760.03	1672.30	1584.68	1517.07	1491.18	1523.01
62.5	1749.56	1727.46	1704.74	1643.34	1573.48	1492.32	1393.31	1305.94	1276.66	1309.82
65.0	1570.97	1560.93	1538.79	1488.22	1404.71	1299.03	1202.44	1108.83	1077.48	1103.97
67.5	1420.91	1398.26	1368.24	1312.69	1241.00	1123.69	1012.26	931.17	899.93	930.94
70.0	1269.87	1245.91	1219.55	1149.47	1080.07	964.12	852.85	747.70	718.92	758.63
72.5	1112.33	1097.93	1066.30	1000.71	910.55	809.00	691.49	607.59	581.50	606.56
75.0	963.20	948.15	916.13	863.78	778.68	668.96	554.99	472.23	446.17	474.79
77.5	829.67	801.13	777.25	725.75	645.09	541.06	440.03	364.00	329.37	364.16
80.0	688.14	667.51	648.65	598.09	524.52	441.17	341.00	268.58	237.19	264.55

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82.5	551.89	547.93	519.21	487.56	421.77	343.56	264.05	196.16	169.57	192.70
85.0	435.63	427.60	411.30	384.33	333.86	271.58	196.89	137.92	114.63	136.46
87.5	330.25	325.51	316.30	294.77	257.19	204.71	146.01	96.72	76.81	94.21
90.0	251.16	251.46	235.98	225.15	201.84	158.07	108.90	61.92	45.23	65.54
92.5	187.23	185.65	188.27	169.03	151.26	120.54	81.12	41.40	28.10	42.92
95.0	140.99	142.80	138.44	128.92	111.71	90.77	54.36	27.76	22.67	29.58
97.5	112.33	109.48	109.43	96.10	82.88	64.37	37.63	20.38	18.14	20.72
100.0	89.47	88.26	81.51	77.80	63.15	47.87	28.97	16.86	15.06	16.49
102.5	72.13	71.08	64.34	58.35	48.27	35.54	21.25	14.49	14.42	13.90
105.0	61.45	60.04	55.99	46.53	36.09	26.31	18.52	13.01	11.74	12.07
107.5	52.18	50.06	46.02	34.93	29.07	20.21	13.38	11.97	10.75	11.23
110.0	45.28	43.89	38.28	29.70	22.21	14.30	10.51	10.12	10.63	9.62
112.5	36.97	34.42	29.45	23.38	16.13	11.71	9.33	8.32	8.87	8.91
115.0	31.97	28.38	22.95	18.96	13.09	9.22	6.88	7.02	7.31	7.45
117.5	24.70	22.65	18.35	13.63	9.39	6.68	6.08	6.33	5.80	5.92
120.0	21.48	19.12	14.53	10.16	7.58	5.46	4.87	5.71	5.96	5.76
122.5	18.60	13.75	10.65	7.32	5.07	3.52	3.99	4.35	4.14	4.18
125.0	12.79	10.73	8.68	4.91	2.74	2.06	3.01	3.01	3.62	4.00
127.5	9.60	7.47	5.66	3.49	2.00	1.90	2.46	2.78	3.21	2.61
130.0	7.18	5.54	3.02	2.56	0.90	1.49	1.77	2.21	2.50	2.21
132.5	5.49	4.33	2.18	1.61	0.61	1.04	1.02	1.76	1.37	0.96
135.0	3.22	2.62	1.14	0.51	0.26	0.70	0.91	0.99	1.07	1.16
137.5	2.27	0.98	0.68	0.33	0.16	0.28	0.36	0.64	0.76	0.58
140.0	1.10	0.90	0.35	0.05	0.17	0.13	0.22	0.29	0.37	0.47
142.5	0.65	0.24	0.08	0.06	0.00	0.03	0.13	0.08	0.39	0.34
145.0	0.18	0.09	0.08	0.01	0.05	0.05	0.00	0.09	0.27	0.24
147.5	0.28	0.26	0.19	0.27	0.09	0.19	0.25	0.20	0.18	0.26
150.0	0.11	0.10	0.11	0.14	0.46	0.38	0.23	0.14	0.07	0.22
152.5	0.18	0.13	0.47	0.36	0.28	0.78	0.51	0.37	0.31	0.11
155.0	0.57	0.46	0.73	0.30	0.71	0.69	0.62	0.79	0.23	0.52
157.5	0.71	0.61	0.56	0.94	0.96	0.66	0.73	0.92	0.89	0.70
160.0	0.49	1.16	0.74	0.66	0.99	0.98	0.91	0.74	0.98	0.59
162.5	0.92	0.32	0.70	0.83	0.76	0.93	1.02	1.13	0.94	0.89
165.0	0.93	1.46	0.66	0.50	0.52	0.91	1.18	1.31	1.19	1.33
167.5	1.04	0.57	1.22	0.98	1.65	0.99	1.36	1.38	1.02	0.93
170.0	1.30	1.25	1.39	1.10	1.01	1.10	0.63	0.94	1.22	1.23
172.5	1.24	1.09	0.33	0.69	0.87	0.98	1.09	1.31	0.32	1.02
175.0	1.46	0.98	0.78	1.67	1.40	2.52	0.54	0.31	1.56	1.18
177.5	0.56	0.45	0.53	1.93	1.05	0.47	0.50	1.13	0.00	1.22
180.0	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52

**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	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12
2.5	4440.95	4343.80	4403.42	4349.39	4312.68	4353.04	4387.24	4384.93	4401.90	4241.79
5.0	4339.49	4303.17	4243.43	4321.60	4309.54	4241.75	4320.91	4280.23	4266.01	4284.04
7.5	4292.85	4227.88	4271.87	4291.82	4242.26	4261.32	4278.28	4253.57	4254.66	4244.61
10.0	4209.14	4222.65	4266.04	4207.66	4227.85	4200.82	4203.14	4205.99	4283.56	4267.32
12.5	4188.96	4123.83	4140.61	4198.77	4176.02	4161.88	4193.69	4193.37	4189.60	4208.46
15.0	4112.60	4092.85	4077.24	4102.62	4097.80	4158.53	4159.80	4145.42	4156.58	4170.14
17.5	4013.35	4027.40	4029.13	4044.95	4066.79	4073.50	4126.79	4135.45	4104.88	4117.80
20.0	3958.27	3925.91	3956.25	3949.59	4006.19	4043.25	4063.60	4085.30	4062.50	4062.94
22.5	3857.29	3863.02	3883.43	3886.09	3909.88	3979.14	3956.06	3954.70	3973.07	3950.77
25.0	3747.85	3796.97	3760.68	3810.14	3803.96	3854.38	3869.75	3865.25	3896.58	3850.36
27.5	3669.65	3670.09	3671.62	3707.70	3738.44	3767.26	3796.62	3802.71	3787.99	3780.50

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CANDELA TABULATION - (Cont.)

30.0	3533.86	3577.63	3599.86	3599.49	3597.45	3644.93	3674.68	3671.44	3665.70	3660.97
32.5	3452.60	3438.25	3448.10	3461.08	3503.40	3544.34	3547.28	3562.03	3570.67	3531.82
35.0	3293.62	3330.75	3330.04	3345.15	3348.87	3379.45	3431.32	3430.66	3431.62	3403.42
37.5	3186.68	3214.23	3223.74	3210.91	3252.21	3261.68	3313.00	3315.24	3289.10	3274.34
40.0	3054.81	3036.93	3056.57	3085.18	3095.90	3140.54	3165.49	3168.66	3144.95	3136.24
42.5	2892.79	2917.66	2927.89	2951.59	2963.00	2963.82	2990.73	2999.52	2988.90	2995.04
45.0	2733.17	2751.09	2787.19	2795.74	2804.47	2841.33	2844.96	2857.90	2854.23	2807.14
47.5	2550.57	2570.20	2616.04	2616.47	2639.89	2676.42	2690.70	2691.10	2686.38	2681.40
50.0	2383.47	2412.61	2460.61	2479.79	2503.00	2515.00	2533.87	2523.55	2528.17	2529.03
52.5	2194.01	2237.75	2270.93	2310.56	2338.56	2372.20	2390.04	2382.07	2379.36	2364.12
55.0	2000.29	2060.98	2105.43	2146.14	2170.69	2217.46	2221.03	2215.47	2233.24	2224.79
57.5	1790.94	1864.17	1928.77	1998.06	2024.35	2035.08	2062.70	2055.00	2093.94	2064.90
60.0	1585.21	1681.28	1748.44	1804.56	1858.19	1884.91	1891.63	1902.58	1898.06	1873.77
62.5	1376.56	1489.98	1586.81	1637.86	1692.02	1715.96	1738.52	1749.08	1747.12	1723.65
65.0	1201.86	1314.35	1410.59	1471.22	1522.64	1557.54	1560.65	1584.93	1584.04	1556.05
67.5	1011.69	1138.29	1228.83	1314.65	1362.25	1394.34	1413.94	1431.74	1417.03	1401.81
70.0	852.33	966.89	1065.28	1158.84	1209.48	1241.29	1273.04	1277.23	1258.60	1248.56
72.5	697.75	808.72	919.71	1003.09	1054.02	1078.38	1114.23	1120.44	1109.99	1088.91
75.0	557.21	670.28	771.91	861.57	913.37	937.78	977.13	963.27	958.73	946.42
77.5	441.40	548.98	652.43	724.76	783.08	804.11	823.51	830.14	824.24	809.72
80.0	340.05	438.54	530.84	602.41	642.01	668.60	682.63	683.02	677.52	666.51
82.5	261.69	344.13	421.87	483.32	526.51	542.01	552.61	557.42	551.63	542.84
85.0	195.96	269.36	334.43	386.82	411.26	425.02	431.34	432.09	432.95	428.52
87.5	145.67	205.05	259.46	293.97	321.52	328.66	333.30	335.09	331.15	328.60
90.0	108.52	161.97	194.38	225.36	242.59	248.40	246.84	246.01	253.31	253.32
92.5	78.08	117.73	145.02	172.56	180.86	188.18	186.27	186.97	188.85	188.90
95.0	54.91	87.48	113.65	127.69	137.74	140.26	139.67	142.35	142.10	141.12
97.5	39.89	64.32	82.60	94.25	105.26	111.17	109.47	108.44	110.56	111.14
100.0	27.95	50.15	63.91	75.92	79.19	90.82	86.38	88.71	86.58	85.64
102.5	21.13	36.61	49.62	60.69	68.36	70.36	71.59	72.40	72.44	70.78
105.0	15.73	25.41	37.88	46.37	53.53	58.43	60.22	61.37	58.01	57.79
107.5	14.02	19.02	28.11	38.79	44.13	51.46	52.53	54.34	54.51	51.08
110.0	11.24	15.24	21.84	29.28	38.73	40.64	43.18	45.46	46.17	41.18
112.5	9.19	13.38	16.99	23.21	29.51	35.23	38.88	42.26	39.04	34.19
115.0	7.10	9.17	11.83	19.04	23.41	29.03	30.54	32.65	32.91	28.09
117.5	6.71	6.67	9.23	13.23	18.60	23.08	27.12	27.68	24.51	24.57
120.0	4.21	5.24	7.29	9.27	13.64	19.12	21.15	22.08	21.11	18.30
122.5	3.73	3.83	4.27	7.27	10.10	14.21	17.45	16.69	15.94	14.17
125.0	3.24	2.68	2.94	4.48	7.73	10.53	12.45	12.44	12.50	10.98
127.5	2.99	1.85	1.51	3.53	5.94	8.10	9.29	10.07	9.03	8.27
130.0	2.00	1.13	1.08	1.93	3.62	6.05	7.11	8.22	6.09	5.21
132.5	1.29	0.77	0.49	1.27	2.68	3.41	4.62	4.66	4.29	4.00
135.0	0.82	0.52	0.24	0.29	1.48	2.76	3.12	2.87	3.02	2.71
137.5	0.26	0.31	0.14	0.13	0.58	1.39	1.83	2.35	2.07	1.38
140.0	0.27	0.19	0.14	0.12	0.32	0.57	1.00	1.10	1.21	0.85
142.5	0.08	0.04	0.12	0.08	0.17	0.20	0.50	0.55	0.40	0.33
145.0	0.13	0.04	0.10	0.15	0.14	0.22	0.11	0.13	0.29	0.21
147.5	0.12	0.05	0.23	0.10	0.14	0.27	0.15	0.02	0.09	0.09
150.0	0.38	0.25	0.10	0.27	0.27	0.07	0.30	0.14	0.30	0.27
152.5	0.72	0.54	0.51	0.75	0.21	0.21	0.06	0.06	0.21	0.16
155.0	0.51	0.42	0.36	0.49	0.32	0.26	0.19	0.26	0.60	0.48
157.5	0.64	1.10	0.84	0.42	0.41	0.40	0.28	0.37	0.40	0.13
160.0	1.07	1.10	0.48	0.57	0.65	0.55	0.76	0.70	0.62	0.48
162.5	0.94	1.60	0.57	0.81	1.25	0.99	0.66	0.61	0.95	0.61
165.0	1.34	1.61	0.96	0.86	1.46	0.88	0.49	0.47	0.70	0.39
167.5	0.90	1.68	0.33	1.41	0.77	1.55	0.86	1.43	0.78	1.72

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CANDELA TABULATION - (Cont.)

170.0	1.66	1.19	0.87	1.01	1.69	0.87	0.76	1.40	0.88	0.71
172.5	0.93	0.74	1.54	1.09	2.11	1.97	1.11	1.40	1.13	2.02
175.0	1.38	1.56	1.30	0.50	1.47	0.47	1.39	0.48	0.55	1.42
177.5	1.66	1.18	1.45	0.00	0.58	0.58	0.00	1.19	1.61	1.44
180.0	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52

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	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12	4326.12
2.5	4338.58	4373.47	4350.12	4375.76	4384.03	4365.90	4308.83
5.0	4260.60	4334.28	4292.66	4240.66	4307.54	4307.85	4354.82
7.5	4293.11	4276.30	4282.17	4278.83	4228.54	4282.73	4316.75
10.0	4186.00	4206.63	4231.12	4214.54	4250.50	4213.25	4209.85
12.5	4155.55	4217.44	4130.89	4172.96	4181.61	4176.45	4135.79
15.0	4136.99	4068.98	4083.70	4095.71	4105.76	4135.74	4117.67
17.5	4075.94	4095.99	4036.17	4014.18	4016.65	4078.13	4053.92
20.0	4020.20	3976.80	3974.34	3988.12	3948.66	3942.23	3972.98
22.5	3919.39	3908.98	3862.35	3844.29	3865.64	3885.29	3881.81
25.0	3809.90	3781.58	3786.16	3777.27	3764.17	3808.00	3785.95
27.5	3717.25	3714.35	3710.83	3656.95	3664.85	3662.09	3663.37
30.0	3617.57	3611.71	3549.29	3545.37	3560.42	3557.81	3576.38
32.5	3494.35	3473.16	3460.15	3450.55	3407.88	3429.11	3430.36
35.0	3353.62	3337.95	3348.58	3320.32	3316.75	3297.31	3328.83
37.5	3225.97	3222.84	3190.09	3166.21	3167.35	3165.36	3187.07
40.0	3103.65	3085.00	3063.81	3044.72	3034.82	3016.80	3046.82
42.5	2979.73	2952.17	2931.19	2907.76	2892.74	2884.39	2885.13
45.0	2817.79	2792.42	2775.28	2754.62	2724.16	2730.01	2730.21
47.5	2642.85	2641.36	2618.76	2583.28	2553.32	2530.96	2537.81
50.0	2504.89	2489.32	2458.97	2415.30	2379.93	2347.42	2343.96
52.5	2350.98	2307.89	2279.79	2254.15	2189.31	2148.97	2117.23
55.0	2192.73	2147.53	2107.64	2061.30	1998.80	1941.46	1912.15
57.5	2033.58	1992.42	1932.73	1865.56	1795.78	1711.14	1704.81
60.0	1851.86	1823.30	1752.53	1687.31	1598.73	1520.11	1479.97
62.5	1696.81	1654.53	1588.06	1493.14	1386.12	1305.89	1265.15
65.0	1527.35	1478.27	1411.93	1305.80	1200.80	1102.36	1083.85
67.5	1363.47	1314.56	1246.40	1132.40	1009.53	923.97	887.29
70.0	1206.40	1161.32	1070.99	961.51	854.77	757.52	726.43
72.5	1057.72	994.71	923.94	813.90	691.25	599.29	576.40
75.0	912.79	855.42	778.84	671.10	560.74	462.76	440.10
77.5	780.15	723.58	652.10	546.98	443.07	356.32	328.94
80.0	646.84	598.55	529.60	438.22	342.00	270.34	240.52
82.5	523.05	489.09	418.10	341.29	262.55	196.74	165.92
85.0	419.59	380.48	334.91	272.50	195.13	136.52	114.22
87.5	316.23	295.42	256.66	207.45	148.57	95.57	77.12
90.0	242.15	224.01	201.87	160.41	109.70	62.70	45.09
92.5	180.84	166.94	152.48	115.16	78.39	39.90	27.85
95.0	136.25	127.79	109.06	86.48	57.51	27.28	23.18
97.5	106.42	97.47	80.38	63.60	39.38	20.71	18.36
100.0	81.81	74.17	61.90	46.79	28.24	16.83	16.30
102.5	65.51	56.15	47.40	35.53	21.82	14.55	13.51
105.0	55.71	48.82	36.50	25.29	15.83	12.26	12.59
107.5	44.86	39.77	28.17	19.30	13.14	10.68	10.56
110.0	35.59	29.29	21.88	15.02	10.53	9.53	9.09
112.5	29.98	23.81	16.41	11.17	8.77	8.97	8.77
115.0	22.84	18.91	11.74	9.01	6.97	8.46	7.52

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CANDELA TABULATION - (Cont.)

117.5	19.65	14.19	9.57	6.90	6.39	7.68	6.07
120.0	14.56	9.50	6.60	4.90	5.25	5.82	4.97
122.5	11.05	6.43	4.73	3.59	4.49	4.51	4.11
125.0	8.16	4.61	3.16	2.86	3.07	3.46	3.08
127.5	4.79	2.99	1.66	1.63	2.79	2.27	2.69
130.0	4.07	2.58	1.18	1.08	1.53	2.52	1.91
132.5	2.53	1.27	0.77	0.89	1.25	1.32	1.52
135.0	1.73	0.40	0.55	0.42	0.68	1.10	0.87
137.5	0.75	0.09	0.19	0.21	0.58	0.44	0.68
140.0	0.25	0.22	0.12	0.26	0.22	0.58	0.36
142.5	0.18	0.00	0.08	0.10	0.22	0.13	0.30
145.0	0.11	0.01	0.00	0.09	0.20	0.11	0.08
147.5	0.01	0.11	0.09	0.22	0.21	0.07	0.09
150.0	0.18	0.19	0.54	0.19	0.13	0.25	0.08
152.5	0.28	0.42	0.42	0.49	0.55	0.30	0.36
155.0	0.61	0.51	0.51	0.67	0.76	0.69	0.64
157.5	0.64	0.97	0.87	1.26	0.70	0.58	1.32
160.0	0.53	1.07	0.75	0.94	1.24	1.19	0.64
162.5	0.52	0.93	1.06	1.01	1.41	0.60	0.58
165.0	1.52	1.16	1.11	0.83	0.63	0.68	1.33
167.5	1.08	1.85	1.12	1.19	0.68	1.48	1.45
170.0	0.89	0.92	0.95	1.21	1.62	0.87	1.10
172.5	0.73	1.28	0.95	1.60	1.46	0.71	1.19
175.0	0.85	0.83	0.60	1.01	0.56	1.12	0.86
177.5	1.30	1.12	2.29	2.28	0.56	2.18	1.55
180.0	1.52	1.52	1.52	1.52	1.52	1.52	1.52

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1572.64	N.A.	12.90
0-30	3329.00	N.A.	27.30
0-40	5429.04	N.A.	44.50
0-60	9454.77	N.A.	77.50
0-80	11647.66	N.A.	95.50
0-90	12007.61	N.A.	98.50
10-90	11599.09	N.A.	95.10
20-40	3856.39	N.A.	31.60
20-50	6001.51	N.A.	49.20
40-70	5403.88	N.A.	44.30
60-80	2192.89	N.A.	18.00
70-80	814.74	N.A.	6.70
80-90	359.96	N.A.	3.00
90-110	162.06	N.A.	1.30
90-120	180.20	N.A.	1.50
90-130	186.23	N.A.	1.50
90-150	187.60	N.A.	1.50
90-180	188.21	N.A.	1.50
110-180	26.15	N.A.	0.20
0-180	12195.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	408.53
10-20	1164.11
20-30	1756.35
30-40	2100.04
40-50	2145.11
50-60	1880.62
60-70	1378.14
70-80	814.74
80-90	359.96
90-100	119.02
100-110	43.04
110-120	18.14
120-130	6.03
130-140	1.23
140-150	0.13
150-160	0.23
160-170	0.27
170-180	0.11

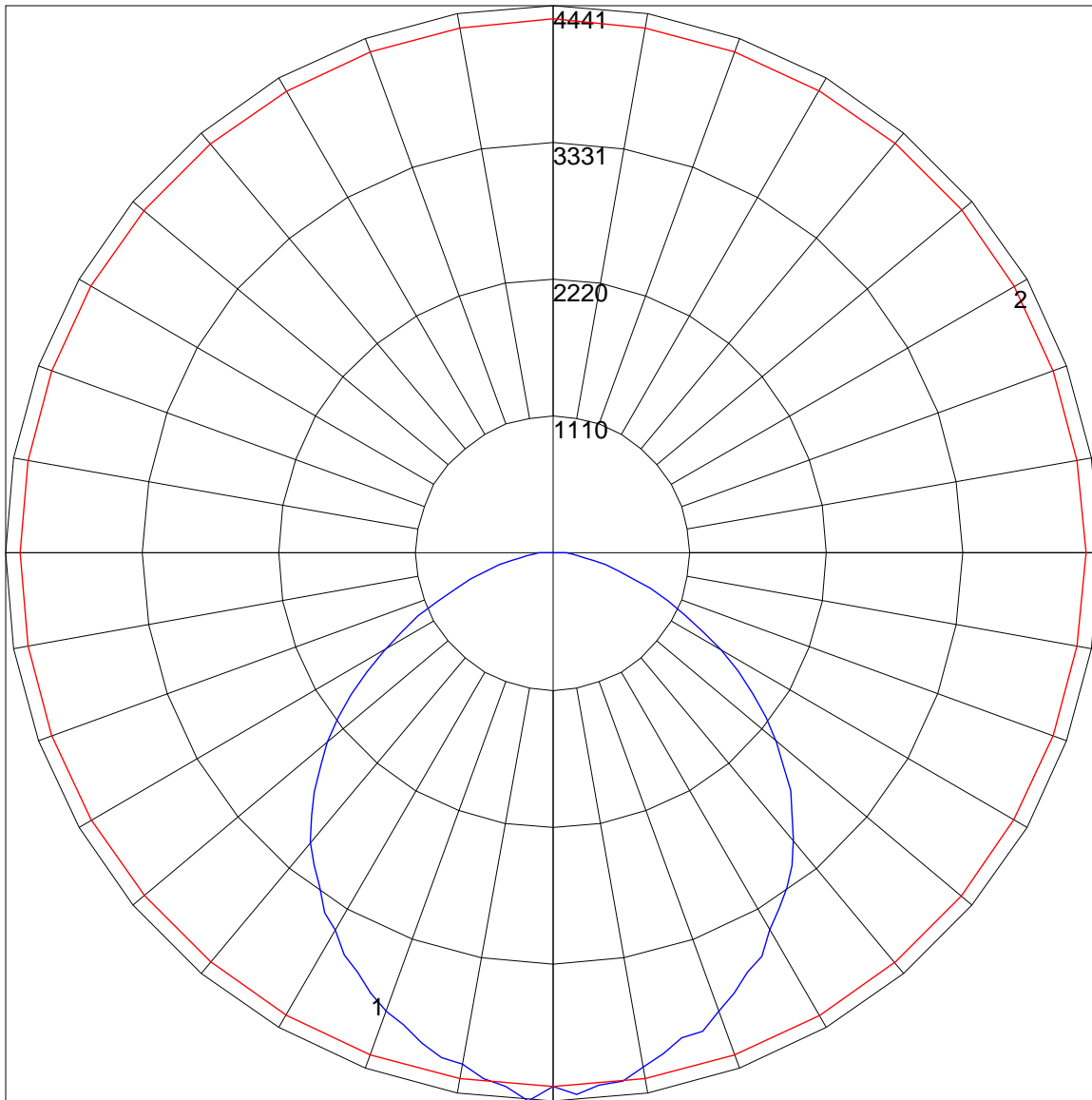
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	101	101	101	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	82	76	84	79	74	81	76	72	77	74	70	68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60	57
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 4440.95 Located At Horizontal Angle = 200, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (200 - 20) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)