



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDX4HTLOWT40120V-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Mon Jan 15 11:03:03 2018

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS100LED4XHTLOWT40120V-277V

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

[LAMPCAT] SPMWHT328FD5WAV0S0

[OTHER]

IESNA:LM-63-2002

[TEST] 6,552

[TESTLAB] CSA Group

[ISSUEDATE] 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	10539
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	80
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	14149	10744	10270
55	11939	8905	8502
65	8729	6856	6691
75	5319	4651	4775
85	2786	2655	2632

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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	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96
2.5	3685.42	3786.57	3747.17	3699.28	3727.75	3805.72	3729.27	3766.13	3749.51	3767.78
5.0	3665.59	3690.50	3746.36	3702.65	3759.17	3753.70	3717.92	3713.36	3701.94	3772.11
7.5	3728.60	3682.29	3692.24	3668.90	3691.65	3655.17	3645.50	3681.76	3666.56	3686.90
10.0	3656.52	3665.04	3642.09	3672.46	3648.26	3607.97	3637.65	3617.34	3648.64	3646.20
12.5	3634.12	3611.00	3584.09	3616.01	3586.88	3595.26	3641.73	3617.16	3631.70	3623.37
15.0	3584.76	3574.44	3583.56	3530.22	3556.97	3537.82	3555.64	3610.72	3592.66	3666.05
17.5	3507.42	3489.68	3486.67	3492.04	3456.36	3523.77	3517.79	3527.23	3561.26	3597.68
20.0	3409.32	3422.95	3393.65	3406.72	3420.83	3418.85	3447.65	3509.93	3520.80	3542.44
22.5	3345.51	3351.41	3345.63	3364.07	3342.92	3371.77	3376.72	3410.66	3439.13	3443.96
25.0	3257.66	3279.45	3248.50	3265.47	3282.21	3270.82	3301.84	3351.06	3345.95	3352.33
27.5	3198.37	3177.30	3182.70	3153.61	3161.39	3195.58	3251.05	3266.49	3274.15	3259.76
30.0	3091.76	3059.82	3078.07	3074.85	3101.76	3077.33	3117.66	3161.19	3184.41	3192.20
32.5	2977.69	2978.93	2978.07	2995.39	2987.10	3020.14	3024.39	3050.01	3082.67	3097.30
35.0	2875.72	2874.23	2886.15	2896.40	2874.12	2902.37	2907.62	2927.84	2966.87	2989.15
37.5	2756.51	2743.02	2740.75	2744.98	2777.01	2772.95	2793.95	2808.63	2875.33	2868.05
40.0	2625.22	2619.67	2634.90	2648.69	2657.61	2671.93	2703.39	2708.92	2749.91	2742.38
42.5	2495.40	2498.62	2506.05	2517.29	2538.84	2547.98	2573.83	2586.67	2592.73	2607.97
45.0	2355.62	2363.13	2349.15	2379.08	2399.84	2434.19	2437.92	2431.97	2467.42	2489.28
47.5	2175.61	2210.77	2204.45	2239.64	2283.80	2298.44	2298.56	2316.22	2313.45	2335.54
50.0	2022.79	2025.32	2064.72	2091.39	2123.55	2148.46	2183.01	2163.40	2186.60	2189.64
52.5	1838.20	1840.49	1884.63	1942.40	1979.61	2007.89	2020.46	2052.57	2065.67	2059.89
55.0	1660.55	1671.35	1715.22	1781.25	1825.30	1858.63	1883.29	1912.20	1930.95	1930.10
57.5	1464.36	1487.33	1541.75	1611.79	1659.29	1704.09	1730.86	1773.50	1786.84	1790.76
60.0	1295.02	1313.97	1381.31	1461.87	1525.68	1569.99	1610.87	1629.99	1635.90	1652.42
62.5	1109.00	1132.54	1192.02	1294.11	1367.93	1418.40	1467.97	1490.02	1504.53	1502.76
65.0	938.02	957.18	1022.96	1120.84	1214.91	1286.47	1324.86	1341.70	1358.21	1369.94
67.5	776.92	803.42	879.26	977.10	1068.81	1134.13	1180.71	1201.63	1225.99	1231.18
70.0	630.52	646.60	740.10	830.61	919.76	1005.03	1038.35	1072.67	1087.23	1095.38
72.5	502.49	521.70	600.98	703.55	789.16	862.47	913.06	956.00	969.57	977.88
75.0	386.05	410.48	480.52	584.38	670.30	747.88	784.46	818.44	830.85	841.60
77.5	286.24	314.68	378.40	473.52	559.80	631.86	677.04	697.09	713.11	714.88
80.0	208.02	233.85	291.20	378.62	455.47	516.71	557.69	581.66	589.53	595.33
82.5	147.61	166.84	222.47	294.60	372.14	421.80	452.89	465.43	484.11	481.81
85.0	98.86	117.43	169.46	234.25	289.06	336.84	352.49	371.87	373.54	374.87
87.5	66.56	82.86	127.99	176.89	225.27	258.80	275.44	285.14	288.38	290.76
90.0	38.82	55.63	95.19	139.65	173.03	196.27	208.36	214.52	214.89	214.01
92.5	25.99	37.28	68.78	102.34	128.80	145.75	154.79	162.74	159.55	160.22
95.0	19.04	25.96	47.76	76.87	97.37	111.86	119.12	122.47	122.00	122.57
97.5	15.68	18.55	33.13	56.56	70.07	83.95	91.20	97.06	94.47	94.76
100.0	13.39	15.34	25.18	42.20	52.97	66.28	72.18	76.28	78.57	75.56
102.5	11.46	12.48	19.78	30.69	42.54	49.69	57.88	61.70	63.34	63.16
105.0	10.55	10.91	15.25	23.02	32.81	40.64	48.52	51.51	51.97	54.34
107.5	9.62	8.90	11.98	17.78	23.86	33.02	39.03	42.99	46.21	45.33
110.0	8.52	8.51	9.15	13.03	20.41	26.41	33.07	35.78	38.12	39.90
112.5	7.08	8.11	7.71	10.14	13.76	20.37	25.55	31.08	32.65	33.91
115.0	5.87	6.32	7.24	8.18	10.51	15.72	20.86	24.00	28.38	29.92
117.5	5.94	6.36	5.47	5.75	8.45	11.91	16.25	20.06	22.48	23.01
120.0	4.81	5.19	4.19	4.24	5.47	8.12	12.59	17.00	18.04	17.42
122.5	3.95	3.93	3.34	2.94	4.27	6.87	9.33	11.68	14.58	15.18
125.0	2.78	2.75	2.83	2.51	2.88	4.27	6.94	8.59	9.80	11.53
127.5	2.15	2.12	2.38	1.43	1.57	3.21	4.77	6.36	8.77	8.69
130.0	1.89	1.42	1.44	1.04	1.01	1.82	3.09	5.04	5.95	6.57
132.5	1.23	1.12	1.01	0.71	0.59	0.78	1.90	3.37	4.24	4.07

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CANDELA TABULATION - (Cont.)

135.0	0.89	0.92	0.73	0.44	0.39	0.46	1.16	1.85	3.06	2.73
137.5	0.52	0.33	0.13	0.30	0.15	0.21	0.59	1.16	1.51	2.00
140.0	0.15	0.29	0.19	0.08	0.06	0.10	0.23	0.60	0.63	1.11
142.5	0.18	0.54	0.22	0.07	0.01	0.16	0.28	0.31	0.43	0.36
145.0	0.23	0.22	0.08	0.04	0.12	0.01	0.21	0.36	0.15	0.32
147.5	0.17	0.08	0.16	0.24	0.16	0.12	0.18	0.21	0.16	0.23
150.0	0.25	0.21	0.14	0.28	0.22	0.29	0.18	0.05	0.28	0.13
152.5	0.50	0.39	0.25	0.17	0.23	0.61	0.51	0.15	0.10	0.09
155.0	0.61	0.34	0.39	0.40	0.58	0.55	0.36	0.32	0.11	0.14
157.5	0.40	0.51	0.35	0.89	0.32	0.86	0.47	0.88	0.40	0.45
160.0	0.64	1.12	0.56	0.85	0.66	0.93	0.99	0.40	0.46	0.90
162.5	0.79	0.82	0.72	0.77	0.85	0.50	0.44	1.13	0.51	0.93
165.0	1.24	0.75	0.84	0.85	0.51	0.72	0.78	0.46	0.79	1.06
167.5	1.37	1.30	0.96	1.09	0.78	0.99	0.88	1.08	1.03	1.11
170.0	1.43	1.07	2.09	0.79	0.88	1.08	1.01	0.60	0.72	1.23
172.5	0.97	0.76	1.56	1.68	1.28	0.87	0.69	0.48	0.79	0.46
175.0	0.70	0.98	1.14	1.07	1.48	0.54	1.38	2.02	0.89	0.76
177.5	0.93	0.35	0.49	0.47	0.68	2.45	0.00	0.39	1.46	0.41
180.0	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15

**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	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96
2.5	3778.54	3714.75	3676.62	3743.79	3801.04	3812.34	3743.87	3775.99	3764.19	3811.69
5.0	3725.24	3654.89	3686.76	3692.64	3700.07	3708.55	3716.00	3687.19	3684.63	3712.52
7.5	3704.73	3672.67	3708.39	3697.20	3671.51	3645.49	3701.21	3727.55	3675.37	3715.49
10.0	3686.59	3681.18	3600.65	3642.53	3658.50	3658.63	3647.69	3649.86	3621.66	3687.47
12.5	3619.55	3648.13	3605.20	3593.04	3569.84	3587.33	3578.73	3636.82	3588.40	3609.81
15.0	3614.56	3607.21	3570.84	3537.06	3546.51	3530.32	3529.44	3526.16	3554.40	3582.75
17.5	3538.13	3535.48	3499.64	3503.71	3480.52	3490.54	3471.98	3490.57	3490.97	3477.11
20.0	3517.71	3478.33	3469.37	3437.73	3425.58	3410.10	3429.28	3433.48	3439.26	3438.05
22.5	3416.78	3414.55	3400.36	3350.08	3354.02	3326.28	3325.51	3383.12	3343.90	3343.52
25.0	3349.94	3340.67	3319.92	3296.64	3272.12	3272.52	3276.92	3254.57	3265.49	3251.83
27.5	3266.11	3248.78	3222.30	3180.31	3196.53	3175.66	3178.25	3175.50	3182.28	3189.75
30.0	3172.57	3138.15	3120.02	3102.94	3081.43	3063.77	3050.68	3058.33	3073.17	3070.89
32.5	3078.37	3042.85	3017.12	2994.85	3000.79	2964.76	2967.30	2963.80	2975.04	2974.94
35.0	2971.10	2937.12	2917.69	2901.05	2874.93	2873.65	2871.21	2871.98	2871.68	2864.68
37.5	2846.32	2806.54	2806.76	2790.32	2784.56	2748.37	2744.29	2743.31	2757.06	2763.83
40.0	2726.02	2705.42	2679.53	2655.13	2658.73	2628.72	2614.17	2629.34	2636.40	2620.93
42.5	2592.11	2573.94	2565.03	2560.86	2530.55	2513.99	2506.55	2495.57	2506.79	2481.66
45.0	2462.80	2434.29	2430.83	2423.06	2394.41	2381.73	2353.61	2342.37	2349.79	2367.03
47.5	2313.84	2311.03	2302.93	2293.49	2267.79	2255.52	2218.03	2197.23	2195.88	2198.10
50.0	2185.71	2168.75	2167.82	2159.59	2113.21	2076.15	2050.58	2029.71	2031.68	2028.60
52.5	2047.46	2035.84	2034.73	1990.78	1985.14	1931.11	1896.89	1842.28	1845.43	1842.78
55.0	1929.02	1911.96	1883.29	1861.93	1810.68	1776.52	1733.99	1662.60	1671.24	1675.08
57.5	1793.31	1775.32	1746.52	1716.90	1663.67	1614.82	1549.05	1498.50	1470.02	1489.68
60.0	1658.34	1626.54	1605.12	1572.51	1519.69	1449.69	1368.84	1300.96	1286.94	1300.67
62.5	1506.14	1477.70	1457.94	1424.80	1366.29	1287.80	1206.08	1132.97	1118.82	1127.27
65.0	1365.35	1338.21	1322.07	1275.81	1210.97	1130.06	1031.54	963.44	929.20	964.60
67.5	1226.43	1207.74	1175.87	1145.87	1073.56	980.76	879.53	801.85	775.32	797.93
70.0	1092.13	1073.53	1043.53	1001.88	929.53	825.28	732.15	653.77	629.10	647.98
72.5	959.68	943.07	910.18	867.48	794.39	698.92	602.87	523.42	496.25	521.55
75.0	834.45	810.56	780.80	742.69	668.37	580.32	488.64	412.61	382.14	406.50
77.5	709.36	693.14	672.13	624.61	562.74	469.65	380.18	309.98	285.20	313.96
80.0	591.60	579.50	557.00	517.27	461.42	376.06	295.39	234.36	207.32	232.57

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CANDELA TABULATION - (Cont.)

82.5	476.58	473.30	458.16	424.90	365.33	297.37	227.50	166.77	146.85	168.69
85.0	374.48	374.83	359.79	329.54	295.98	233.45	169.81	117.81	98.91	120.54
87.5	285.96	281.03	274.16	254.18	225.37	180.51	125.66	81.54	67.07	82.78
90.0	216.35	210.25	206.51	198.44	169.67	136.09	95.48	56.87	37.65	56.69
92.5	160.62	161.06	157.66	144.04	126.70	101.92	69.08	36.65	25.65	36.25
95.0	122.01	122.14	116.10	110.36	97.73	75.39	48.56	24.25	20.18	24.38
97.5	95.14	95.64	90.40	82.75	71.01	55.16	33.67	17.82	15.95	17.48
100.0	75.43	78.05	71.14	63.61	53.21	41.81	25.44	13.88	13.44	13.58
102.5	61.28	61.89	58.38	51.28	41.89	32.70	18.20	11.52	10.98	12.39
105.0	52.81	51.19	46.37	40.50	32.43	22.72	14.22	11.36	10.62	11.08
107.5	45.27	42.86	38.99	32.94	24.58	17.59	11.34	9.34	9.69	9.29
110.0	40.22	36.80	30.92	25.26	19.30	13.68	9.77	8.96	8.87	8.35
112.5	33.10	29.59	25.87	21.18	13.61	9.42	7.79	7.32	7.89	7.23
115.0	27.00	23.92	22.02	16.16	10.63	7.78	6.34	6.49	6.50	6.98
117.5	23.45	20.90	16.18	11.96	7.34	5.57	5.36	5.18	5.85	5.82
120.0	18.72	15.12	12.18	8.85	4.62	3.93	3.91	4.65	4.63	4.51
122.5	13.32	11.83	8.72	6.99	3.47	3.34	3.73	4.03	3.75	3.40
125.0	10.82	9.79	7.15	4.48	2.78	2.44	2.38	2.77	2.92	2.98
127.5	8.42	6.75	4.26	2.92	1.84	1.48	1.93	1.98	2.11	2.17
130.0	7.18	4.61	2.80	2.00	0.92	1.49	1.73	1.79	1.76	1.98
132.5	3.76	2.59	1.86	0.81	0.49	0.70	1.43	1.65	1.09	1.24
135.0	3.06	2.17	1.04	0.51	0.39	0.51	0.72	0.77	0.68	1.03
137.5	1.98	1.09	0.63	0.13	0.12	0.33	0.54	0.59	0.38	0.62
140.0	0.96	0.51	0.19	0.09	0.04	0.16	0.30	0.36	0.55	0.29
142.5	0.31	0.14	0.06	0.01	0.03	0.18	0.14	0.19	0.21	0.14
145.0	0.27	0.29	0.09	0.01	0.05	0.01	0.08	0.08	0.10	0.08
147.5	0.11	0.13	0.12	0.05	0.17	0.21	0.16	0.14	0.09	0.18
150.0	0.13	0.10	0.08	0.33	0.25	0.27	0.24	0.14	0.05	0.10
152.5	0.14	0.32	0.52	0.69	0.15	0.41	0.19	0.34	0.28	0.36
155.0	0.40	0.37	0.43	0.66	0.47	0.55	0.29	0.58	0.16	0.49
157.5	0.83	0.64	0.72	0.55	0.44	0.69	0.43	0.44	0.57	0.32
160.0	0.79	0.33	0.69	1.10	0.70	0.97	0.39	0.90	1.04	0.90
162.5	0.64	1.01	0.44	0.63	0.68	1.51	0.76	0.99	0.78	1.12
165.0	0.93	0.54	0.52	1.04	1.20	0.71	0.94	0.90	0.96	0.97
167.5	0.64	0.86	0.71	0.75	1.02	1.38	0.82	0.90	1.05	0.65
170.0	0.80	0.88	1.26	1.08	0.51	0.82	1.33	1.19	1.36	0.65
172.5	0.76	0.32	1.10	1.36	1.53	2.01	1.06	0.55	0.95	0.39
175.0	2.09	0.63	1.17	1.39	0.42	0.70	0.66	1.06	0.70	0.53
177.5	0.87	2.08	0.91	1.78	1.40	1.22	0.57	0.82	0.47	1.53
180.0	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15

**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	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96
2.5	3697.52	3833.45	3744.02	3748.69	3746.04	3715.17	3704.51	3783.35	3606.61	3765.04
5.0	3768.82	3677.82	3711.99	3703.73	3697.74	3685.16	3726.43	3736.58	3632.39	3701.77
7.5	3698.35	3701.66	3639.95	3710.17	3613.41	3721.43	3709.86	3665.20	3676.24	3654.18
10.0	3650.91	3648.53	3664.80	3606.09	3628.80	3620.04	3651.41	3648.29	3625.25	3653.23
12.5	3600.00	3586.70	3585.79	3570.86	3626.36	3604.54	3616.63	3650.19	3664.93	3608.18
15.0	3523.88	3549.59	3526.62	3545.28	3589.17	3551.36	3574.66	3615.87	3585.93	3577.84
17.5	3486.49	3473.38	3518.85	3499.87	3530.36	3547.07	3581.89	3558.92	3573.28	3548.88
20.0	3393.76	3430.74	3412.94	3446.16	3436.35	3491.88	3518.70	3515.01	3525.43	3500.29
22.5	3323.49	3312.64	3352.93	3366.62	3374.22	3401.06	3414.60	3423.78	3442.02	3430.21
25.0	3256.58	3257.20	3258.79	3290.87	3310.70	3347.50	3360.10	3348.14	3352.29	3348.88
27.5	3147.88	3184.97	3159.12	3197.43	3239.99	3275.84	3256.87	3269.66	3280.98	3259.56

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CANDELA TABULATION - (Cont.)

30.0	3061.09	3078.63	3094.66	3095.30	3127.21	3162.79	3182.20	3162.84	3160.70	3168.43
32.5	2992.66	2986.08	2978.61	3014.83	3025.36	3053.55	3099.35	3083.63	3068.31	3053.99
35.0	2862.72	2875.47	2881.55	2889.26	2923.42	2954.64	2983.33	2984.12	2939.22	2939.49
37.5	2746.81	2770.70	2767.42	2781.90	2827.23	2813.17	2867.11	2861.53	2844.75	2832.09
40.0	2620.37	2634.79	2646.83	2665.59	2671.36	2697.08	2741.83	2742.86	2720.09	2687.24
42.5	2501.94	2504.51	2530.19	2556.70	2567.94	2578.89	2595.08	2608.52	2574.78	2564.56
45.0	2356.17	2373.13	2377.94	2418.67	2421.62	2443.98	2452.91	2482.25	2453.98	2437.60
47.5	2212.13	2242.67	2269.84	2290.49	2287.67	2313.47	2316.69	2323.76	2333.91	2307.40
50.0	2052.96	2086.57	2109.10	2145.48	2169.54	2175.56	2200.31	2190.65	2194.82	2172.55
52.5	1881.58	1944.77	1975.17	1993.73	2028.72	2041.15	2046.11	2061.59	2055.20	2045.45
55.0	1731.75	1753.77	1822.27	1845.32	1883.30	1904.05	1927.50	1925.77	1916.32	1909.68
57.5	1546.95	1624.99	1681.78	1707.60	1738.99	1765.84	1778.37	1782.18	1770.69	1774.90
60.0	1362.47	1437.64	1521.13	1573.44	1603.41	1628.49	1632.66	1651.38	1639.47	1633.51
62.5	1200.52	1291.51	1365.36	1434.97	1473.69	1488.27	1499.18	1502.30	1501.43	1492.97
65.0	1036.05	1136.79	1219.34	1281.96	1312.87	1340.07	1364.46	1373.55	1365.66	1342.77
67.5	877.17	980.02	1065.23	1126.10	1178.00	1211.22	1227.22	1231.32	1221.47	1203.43
70.0	731.03	835.51	925.71	998.16	1042.87	1062.79	1091.14	1099.75	1095.16	1078.38
72.5	606.78	700.71	788.52	863.28	914.18	942.57	970.34	962.82	962.09	948.97
75.0	484.36	579.84	671.65	737.86	782.93	813.66	829.46	835.48	834.64	815.31
77.5	382.45	468.62	565.33	623.76	674.79	690.69	715.39	718.90	705.03	699.50
80.0	299.41	382.30	452.36	519.22	556.33	580.46	592.43	599.43	588.61	577.69
82.5	225.37	304.66	369.00	416.58	444.69	465.89	477.51	475.22	477.14	465.55
85.0	167.86	230.68	285.74	327.10	352.75	368.94	378.66	380.68	373.10	367.41
87.5	130.98	181.63	225.72	252.63	271.85	283.56	288.19	284.19	282.95	280.98
90.0	94.89	137.44	170.00	192.96	208.41	211.23	219.04	215.18	220.66	215.72
92.5	70.81	104.21	126.41	146.08	156.59	159.39	159.83	161.33	159.53	158.69
95.0	49.73	73.28	95.77	107.67	117.07	125.96	123.59	123.30	125.14	123.58
97.5	34.04	56.89	72.19	81.93	87.56	93.68	93.53	94.22	93.77	94.38
100.0	25.96	41.97	52.54	62.73	72.43	75.28	74.59	74.32	76.33	73.92
102.5	18.50	29.84	41.76	51.61	60.73	61.74	60.69	62.76	62.66	62.04
105.0	13.01	23.39	30.38	40.23	46.11	49.03	54.98	53.21	53.36	50.68
107.5	12.05	17.32	24.50	31.74	40.71	41.70	44.20	44.64	43.97	43.08
110.0	9.72	12.63	19.08	26.80	30.95	37.17	39.04	40.66	39.18	37.19
112.5	7.43	10.01	15.17	20.01	24.69	33.15	31.93	34.33	33.86	30.45
115.0	6.33	7.31	10.53	15.74	21.22	25.57	26.55	27.92	27.57	24.84
117.5	6.03	5.25	7.03	10.83	16.30	20.29	22.07	24.50	23.01	20.68
120.0	4.30	4.12	5.91	8.79	11.34	15.65	18.96	19.49	18.20	16.01
122.5	3.83	2.67	4.06	6.71	8.79	12.63	13.55	15.00	13.46	11.35
125.0	3.02	2.12	2.60	4.62	6.81	10.16	12.07	11.59	10.26	9.45
127.5	2.20	1.67	1.50	2.59	5.50	6.34	8.22	8.55	7.99	6.69
130.0	1.63	1.03	1.02	2.02	3.13	4.05	6.26	6.19	5.32	4.30
132.5	1.05	0.41	0.47	1.08	2.15	3.22	3.37	3.96	3.54	3.18
135.0	0.64	0.33	0.21	0.42	1.35	2.06	3.01	2.96	2.99	2.26
137.5	0.42	0.47	0.13	0.06	0.45	1.11	1.71	1.63	1.82	1.26
140.0	0.22	0.09	0.03	0.20	0.15	0.49	0.86	1.25	1.12	0.51
142.5	0.04	0.14	0.04	0.20	0.20	0.30	0.54	0.36	0.59	0.12
145.0	0.17	0.07	0.12	0.00	0.09	0.19	0.48	0.11	0.12	0.23
147.5	0.13	0.11	0.16	0.23	0.24	0.27	0.19	0.16	0.23	0.10
150.0	0.26	0.26	0.34	0.20	0.13	0.05	0.15	0.15	0.07	0.17
152.5	0.33	0.47	0.37	0.35	0.51	0.15	0.05	0.15	0.02	0.11
155.0	0.43	0.61	0.76	0.94	0.42	0.36	0.22	0.21	0.32	0.45
157.5	0.64	0.78	0.77	0.45	0.67	0.74	0.38	0.44	0.30	0.34
160.0	0.63	0.52	0.56	0.43	1.07	0.95	0.62	0.69	0.69	0.67
162.5	0.64	0.79	0.75	0.58	1.01	0.51	0.65	0.73	0.68	0.43
165.0	1.47	0.69	0.62	0.74	0.79	0.97	0.74	0.60	0.86	0.65
167.5	1.12	1.46	0.84	0.91	0.75	1.16	0.85	0.61	1.05	0.78

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CANDELA TABULATION - (Cont.)

170.0	0.76	0.67	0.58	1.20	0.88	1.01	0.80	0.77	1.07	1.43
172.5	1.17	0.70	0.77	0.45	1.13	0.68	0.85	0.69	0.27	0.71
175.0	1.34	0.97	1.02	0.49	0.60	1.25	0.74	0.91	0.62	1.67
177.5	0.00	1.42	0.91	0.49	1.78	2.51	0.17	0.00	0.48	1.07
180.0	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96	3749.96
2.5	3647.40	3722.57	3736.83	3711.40	3806.53	3766.39	3685.42
5.0	3694.98	3764.19	3723.73	3659.38	3751.56	3699.36	3665.59
7.5	3699.48	3672.20	3670.36	3730.93	3665.43	3704.42	3728.60
10.0	3650.36	3654.30	3631.35	3626.30	3656.51	3654.87	3656.52
12.5	3613.12	3588.55	3558.28	3615.62	3631.03	3589.75	3634.12
15.0	3587.51	3542.97	3565.64	3577.50	3516.21	3528.39	3584.76
17.5	3510.85	3498.78	3486.54	3497.13	3467.69	3505.48	3507.42
20.0	3465.94	3461.39	3432.31	3424.13	3428.13	3415.57	3409.32
22.5	3391.85	3334.78	3383.26	3340.08	3338.34	3368.50	3345.51
25.0	3310.24	3285.20	3283.11	3264.05	3252.19	3277.18	3257.66
27.5	3219.01	3184.29	3182.23	3169.95	3153.64	3189.78	3198.37
30.0	3121.42	3083.07	3073.32	3081.51	3085.66	3069.75	3091.76
32.5	3021.14	2981.29	2989.94	2975.46	2982.62	2978.91	2977.69
35.0	2936.97	2891.22	2875.09	2875.87	2867.16	2853.44	2875.72
37.5	2808.85	2791.88	2760.24	2763.03	2743.77	2748.63	2756.51
40.0	2686.34	2657.93	2642.30	2624.85	2638.92	2638.99	2625.22
42.5	2553.16	2551.82	2530.34	2511.86	2518.99	2485.70	2495.40
45.0	2455.40	2420.14	2401.57	2387.07	2353.54	2343.74	2355.62
47.5	2298.57	2281.03	2271.20	2231.62	2201.32	2216.07	2175.61
50.0	2171.82	2145.13	2128.18	2082.92	2061.43	2022.20	2022.79
52.5	2025.22	2001.47	1952.94	1927.03	1889.85	1865.35	1838.20
55.0	1888.48	1872.63	1822.31	1780.46	1718.51	1675.93	1660.55
57.5	1737.78	1704.95	1669.11	1625.83	1545.46	1508.23	1464.36
60.0	1601.59	1577.23	1517.34	1462.79	1365.05	1307.30	1295.02
62.5	1458.17	1431.94	1363.70	1287.15	1193.46	1129.20	1109.00
65.0	1316.07	1281.93	1224.41	1132.66	1030.46	957.24	938.02
67.5	1178.23	1144.13	1075.11	983.80	883.76	794.48	776.92
70.0	1039.76	1000.70	929.20	834.02	733.64	651.98	630.52
72.5	909.29	859.11	800.50	701.50	597.17	523.33	502.49
75.0	782.03	742.88	670.53	578.76	480.99	405.38	386.05
77.5	674.51	627.29	561.74	463.07	380.47	311.67	286.24
80.0	563.04	517.97	460.52	373.79	293.38	234.05	208.02
82.5	445.26	420.40	363.77	302.09	225.02	166.07	147.61
85.0	353.55	326.97	288.58	231.72	170.32	117.79	98.86
87.5	278.51	252.07	218.72	182.18	128.64	79.84	66.56
90.0	206.87	193.93	173.06	135.98	94.69	57.67	38.82
92.5	154.73	143.78	125.83	102.46	68.50	35.99	25.99
95.0	118.73	108.06	94.35	75.21	47.98	25.78	19.04
97.5	91.03	83.26	71.00	53.98	33.71	18.07	15.68
100.0	74.06	63.29	54.74	42.07	25.80	14.99	13.39
102.5	57.24	50.60	41.18	30.21	18.24	12.10	11.46
105.0	47.71	40.51	30.37	22.95	13.74	11.11	10.55
107.5	38.69	34.17	25.05	16.38	11.16	9.84	9.62
110.0	32.48	25.45	19.08	12.90	9.24	9.20	8.52
112.5	26.04	20.60	14.12	9.78	8.51	7.77	7.08
115.0	20.40	15.93	10.57	8.25	6.20	6.24	5.87

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CANDELA TABULATION - (Cont.)

117.5	17.12	10.92	8.05	5.82	4.84	5.02	5.94
120.0	13.11	8.38	5.65	4.69	4.28	4.46	4.81
122.5	9.17	6.21	3.87	3.18	3.25	3.94	3.95
125.0	7.07	4.79	2.67	2.01	2.88	2.82	2.78
127.5	4.80	3.22	1.71	2.16	2.11	1.85	2.15
130.0	3.17	1.77	0.91	1.00	1.81	1.42	1.89
132.5	1.79	0.88	0.22	0.74	0.95	1.28	1.23
135.0	1.33	0.52	0.31	0.56	0.76	1.00	0.89
137.5	0.36	0.07	0.27	0.16	0.17	0.50	0.52
140.0	0.17	0.13	0.04	0.21	0.17	0.37	0.15
142.5	0.07	0.02	0.09	0.00	0.14	0.15	0.18
145.0	0.04	0.05	0.14	0.09	0.15	0.01	0.23
147.5	0.05	0.15	0.09	0.23	0.00	0.20	0.17
150.0	0.19	0.11	0.31	0.27	0.31	0.28	0.25
152.5	0.33	0.26	0.38	0.29	0.20	0.12	0.50
155.0	0.69	0.31	0.28	0.75	0.60	0.66	0.61
157.5	0.60	0.73	0.49	0.63	0.71	0.55	0.40
160.0	0.49	0.73	0.93	0.91	1.03	0.73	0.64
162.5	0.52	0.75	0.62	0.55	1.35	0.87	0.79
165.0	1.48	1.12	1.35	0.70	0.86	0.85	1.24
167.5	1.03	0.58	1.07	1.03	1.49	0.57	1.37
170.0	0.83	1.05	0.68	1.23	1.12	0.33	1.43
172.5	1.41	0.77	1.36	1.09	0.85	0.78	0.97
175.0	0.69	2.19	0.20	1.96	1.87	0.94	0.70
177.5	1.50	0.47	0.01	0.46	2.04	1.35	0.93
180.0	1.15	1.15	1.15	1.15	1.15	1.15	1.15

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1358.34	N.A.	12.90
0-30	2876.36	N.A.	27.30
0-40	4691.86	N.A.	44.50
0-60	8170.49	N.A.	77.50
0-80	10065.63	N.A.	95.50
0-90	10376.66	N.A.	98.50
10-90	10024.24	N.A.	95.10
20-40	3333.52	N.A.	31.60
20-50	5188.33	N.A.	49.20
40-70	4669.92	N.A.	44.30
60-80	1895.14	N.A.	18.00
70-80	703.85	N.A.	6.70
80-90	311.03	N.A.	3.00
90-110	139.89	N.A.	1.30
90-120	155.57	N.A.	1.50
90-130	160.75	N.A.	1.50
90-150	161.91	N.A.	1.50
90-180	162.44	N.A.	1.50
110-180	22.55	N.A.	0.20
0-180	10539.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	352.42
10-20	1005.92
20-30	1518.02
30-40	1815.5
40-50	1854.81
50-60	1623.81
60-70	1191.29
70-80	703.85
80-90	311.03
90-100	102.59
100-110	37.30
110-120	15.68
120-130	5.18
130-140	1.03
140-150	0.12
150-160	0.20
160-170	0.24
170-180	0.09

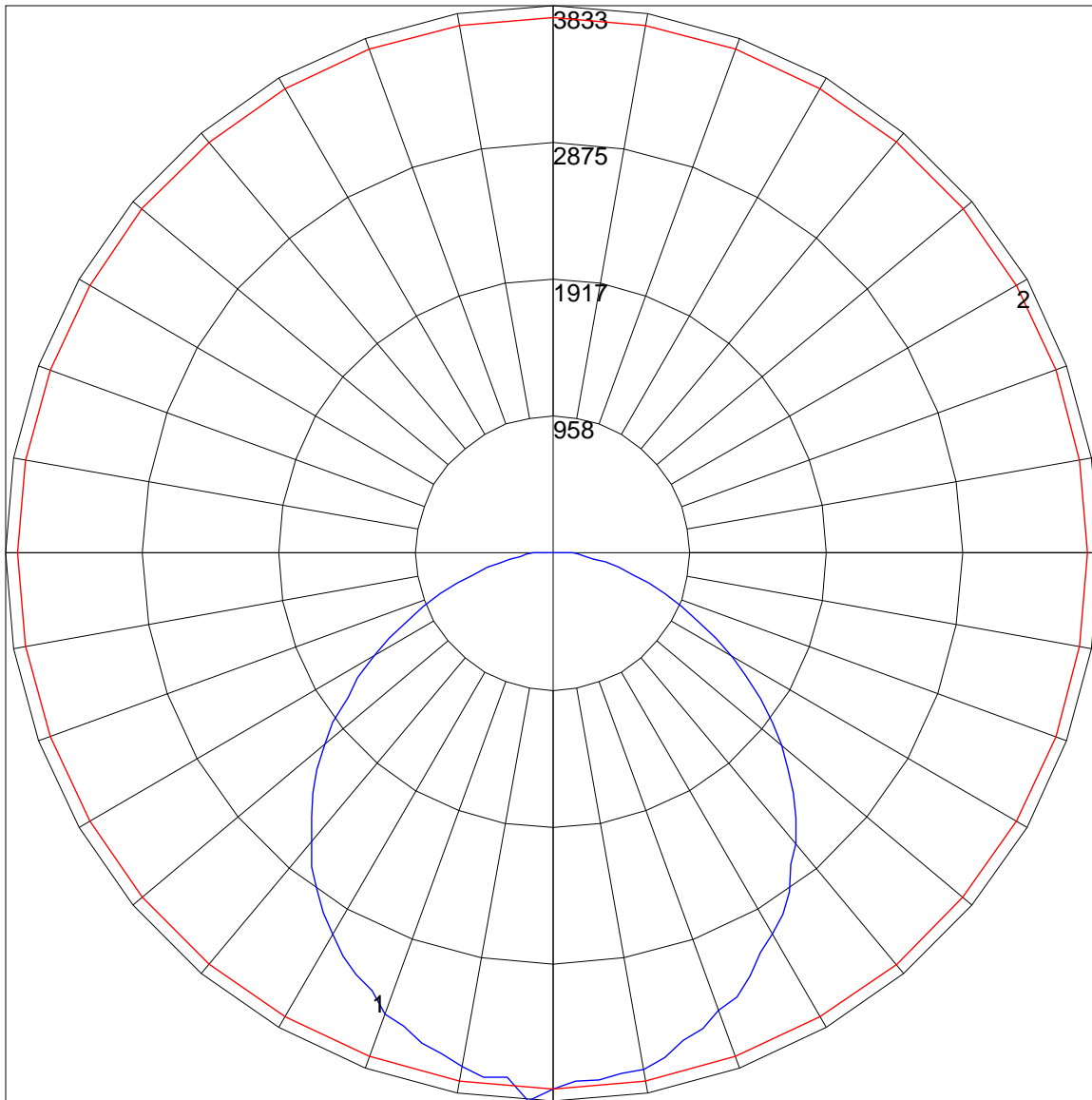
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3833.45 Located At Horizontal Angle = 210, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (210 - 30) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)