



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTHOWT50120V-277V-FL\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB] Photopia 2017.2.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
 [ISSUEDATE]  
 [TESTDATE] Wed Feb 07 16:59:28 2018  
 [TEST] 1  
 [MANUFAC] BEGHELLI  
 [LUMCAT]  
 [LUMINAIRE] BS100LED4HTHOWT50120V-277V-FL  
 [LAMP] LED 0.195W White 5630 package (65mA)  
 [LAMPCAT] SPMWHT541MP5WAT0S5  
 [OTHER]  
 IESNA:LM-63-2002  
 [TEST] 6,552  
 [TESTLAB] CSA Group  
 [ISSUEDATE] 7/24/2013 1:09:24 PM  
 [MANUFAC] Beghelli  
 [LUMINAIRE] BS100LEDDLC4HT50WWT41120-277V  
 [OTHER] Luminous shape: Rectangle  
 [OTHER] Luminous dimensions (feet)  
     0 - 180 Axis: 4.2  
     90 - 270 Axis: 0.6  
 [OTHER] Height: 0.1

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8857
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	70
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
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)	0.58 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	11262	8580	8465
55	9457	7275	7103
65	6834	5737	5655
75	3967	3921	3939
85	2184	2105	1981

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**CANDELA TABULATION**

	<b>0</b>	<b>10</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
<b>0.0</b>	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13
<b>2.5</b>	3088.17	3103.83	3125.38	3080.33	3079.11	3119.13	2996.44	3129.36	3105.65	3118.44
<b>5.0</b>	3055.17	3058.14	3105.60	3105.63	3082.46	3113.79	3087.26	3041.91	3039.38	3045.80
<b>7.5</b>	3017.74	3051.49	3079.63	3020.17	3061.78	3062.83	3048.72	3065.90	3059.67	3059.22
<b>10.0</b>	3025.96	3010.79	3047.91	2984.94	3041.91	3038.57	3025.08	3020.21	3014.47	3055.66
<b>12.5</b>	2990.42	2974.93	2959.03	2981.71	2956.89	2947.85	2957.28	2985.82	2990.32	2982.99
<b>15.0</b>	2920.78	2955.14	2946.40	2939.39	2935.51	2948.40	2930.79	2959.23	2947.95	2933.21
<b>17.5</b>	2877.33	2867.67	2883.96	2864.05	2866.52	2881.52	2888.93	2916.99	2913.83	2916.99
<b>20.0</b>	2825.52	2825.02	2839.47	2808.70	2835.63	2825.59	2861.63	2864.22	2843.34	2866.92
<b>22.5</b>	2743.02	2768.91	2757.89	2744.40	2772.12	2781.59	2803.97	2830.54	2821.17	2843.32
<b>25.0</b>	2691.56	2698.94	2682.16	2688.61	2698.98	2735.57	2731.69	2755.41	2765.08	2779.35
<b>27.5</b>	2603.35	2599.56	2605.17	2618.47	2624.53	2641.74	2647.34	2668.66	2707.41	2688.79
<b>30.0</b>	2531.39	2536.34	2536.84	2540.32	2555.47	2567.90	2590.14	2604.54	2625.86	2653.60
<b>32.5</b>	2442.56	2472.84	2455.55	2457.46	2476.21	2480.22	2506.43	2532.31	2570.33	2568.26
<b>35.0</b>	2384.40	2379.40	2372.55	2381.95	2365.91	2387.89	2424.63	2451.89	2463.57	2472.28
<b>37.5</b>	2268.21	2268.65	2260.42	2261.97	2274.01	2290.36	2322.46	2346.10	2364.15	2412.31
<b>40.0</b>	2174.43	2168.55	2169.20	2167.69	2186.64	2211.37	2229.65	2252.68	2292.01	2321.71
<b>42.5</b>	2067.92	2048.90	2059.07	2072.53	2082.42	2120.77	2130.96	2162.77	2193.83	2220.56
<b>45.0</b>	1948.77	1949.58	1961.37	1965.55	1977.49	2010.57	2024.75	2057.09	2094.83	2114.70
<b>47.5</b>	1808.87	1816.09	1833.11	1857.08	1871.55	1901.33	1917.10	1954.24	1986.41	2008.22
<b>50.0</b>	1665.83	1675.80	1696.78	1737.00	1763.38	1793.73	1823.80	1837.72	1868.78	1913.33
<b>52.5</b>	1525.26	1533.88	1569.65	1606.26	1661.57	1673.07	1693.75	1734.60	1748.72	1775.39
<b>55.0</b>	1367.74	1380.27	1424.40	1479.07	1529.23	1575.39	1602.60	1631.34	1633.88	1658.98
<b>57.5</b>	1212.38	1244.26	1286.50	1358.83	1417.05	1449.65	1482.44	1503.91	1526.37	1535.79
<b>60.0</b>	1055.24	1078.25	1155.37	1226.75	1289.35	1346.41	1368.01	1382.86	1407.07	1426.01
<b>62.5</b>	907.61	929.03	999.26	1088.76	1167.53	1218.97	1251.26	1269.43	1307.33	1325.69
<b>65.0</b>	764.10	784.47	867.26	966.35	1050.94	1104.99	1137.01	1167.74	1184.07	1188.68
<b>67.5</b>	622.17	652.67	732.34	834.92	930.77	982.90	1026.92	1041.91	1061.22	1083.73
<b>70.0</b>	501.65	534.94	606.19	717.52	806.66	864.98	911.75	933.17	950.10	962.90
<b>72.5</b>	394.02	426.73	507.23	605.34	687.32	749.24	786.58	806.66	824.67	837.55
<b>75.0</b>	299.90	328.89	411.79	508.21	582.46	646.16	678.84	688.61	695.87	710.82
<b>77.5</b>	226.01	252.11	327.13	405.27	483.29	529.87	556.44	567.11	579.77	582.18
<b>80.0</b>	166.20	187.38	255.20	318.18	387.81	432.19	448.82	459.97	463.74	475.27
<b>82.5</b>	115.86	140.10	195.01	249.13	307.22	343.16	358.26	368.15	368.92	369.82
<b>85.0</b>	81.01	101.90	140.99	193.98	239.86	268.30	282.71	284.65	286.57	287.74
<b>87.5</b>	53.72	71.59	103.59	143.77	180.75	203.75	217.03	218.01	221.78	218.43
<b>90.0</b>	30.94	48.41	76.79	106.87	132.42	154.43	170.42	167.38	167.85	167.46
<b>92.5</b>	21.33	32.17	56.34	79.92	102.07	117.12	125.82	124.85	126.13	127.52
<b>95.0</b>	14.47	22.30	39.79	58.54	78.39	90.98	97.65	99.26	97.74	96.79
<b>97.5</b>	10.96	13.84	27.36	42.16	58.34	67.28	73.81	77.72	74.72	76.62
<b>100.0</b>	8.79	10.13	18.62	32.56	43.81	53.03	57.33	62.09	62.19	61.82
<b>102.5</b>	7.28	7.95	14.21	22.01	32.32	38.82	45.40	50.30	49.95	51.29
<b>105.0</b>	6.72	6.44	9.29	16.85	24.39	31.06	35.35	39.49	40.99	41.24
<b>107.5</b>	5.81	5.98	6.56	11.63	16.88	24.34	28.49	33.09	33.71	36.18
<b>110.0</b>	4.31	5.08	5.21	8.47	12.24	17.60	23.25	27.03	27.99	29.18
<b>112.5</b>	3.73	4.10	3.88	5.71	9.40	14.86	18.64	21.32	22.89	24.10
<b>115.0</b>	3.43	3.92	3.74	3.65	6.82	10.94	15.26	16.79	18.19	19.23
<b>117.5</b>	2.48	2.96	2.56	2.16	4.19	7.53	11.54	13.04	15.72	14.51
<b>120.0</b>	1.88	2.54	2.11	1.88	3.04	4.49	7.65	10.59	12.10	13.40
<b>122.5</b>	1.80	2.08	1.80	1.32	1.40	3.86	5.30	7.82	8.78	9.07
<b>125.0</b>	1.79	1.25	1.24	1.14	0.68	1.82	3.91	5.43	6.11	6.01
<b>127.5</b>	0.83	1.13	0.91	0.53	0.28	0.79	1.93	3.46	4.70	5.32
<b>130.0</b>	0.92	0.80	0.69	0.37	0.37	0.26	1.23	1.95	2.55	3.72
<b>132.5</b>	0.53	0.66	0.54	0.36	0.16	0.07	0.44	0.88	1.32	1.80

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**CANDELA TABULATION - (Cont.)**

135.0	0.40	0.46	0.25	0.37	0.06	0.00	0.00	0.27	0.55	1.09
137.5	0.19	0.24	0.29	0.17	0.05	0.02	0.00	0.00	0.00	0.14
140.0	0.16	0.16	0.08	0.08	0.03	0.00	0.00	0.00	0.00	0.00
142.5	0.03	0.11	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13
2.5	3044.96	3132.60	3094.31	3172.47	3056.06	3127.44	3064.15	3100.07	3081.92	3084.65
5.0	3110.33	3107.13	3089.21	3066.25	3118.82	3093.14	3104.95	3100.05	3046.91	3105.45
7.5	3074.61	3071.25	3038.49	3057.49	3072.59	3062.25	3093.58	3112.37	3071.81	3058.73
10.0	3032.04	3057.20	3008.61	3022.88	3019.86	3042.99	3056.83	3030.97	3038.94	3039.76
12.5	3010.98	3007.23	2991.57	2985.38	3015.73	2970.37	2980.09	3016.50	2985.37	2996.71
15.0	2980.21	2962.48	2947.79	2976.17	2986.09	2955.66	2969.45	2953.78	2964.75	2987.77
17.5	2920.08	2929.23	2913.25	2883.24	2897.26	2904.24	2891.84	2902.90	2912.10	2917.99
20.0	2876.46	2878.98	2857.32	2866.42	2855.01	2845.57	2870.34	2852.64	2855.16	2884.02
22.5	2828.17	2796.93	2816.73	2785.96	2809.79	2784.31	2780.99	2791.20	2800.76	2786.28
25.0	2770.92	2743.77	2728.36	2742.32	2751.58	2739.05	2731.96	2723.67	2718.30	2738.19
27.5	2701.00	2699.64	2678.79	2664.33	2648.15	2669.55	2647.41	2654.50	2639.90	2668.74
30.0	2648.67	2626.30	2608.04	2601.52	2592.33	2591.44	2560.48	2576.66	2587.09	2567.27
32.5	2575.60	2532.11	2521.74	2509.72	2506.24	2494.59	2499.30	2482.49	2498.06	2479.68
35.0	2480.86	2454.02	2447.39	2450.02	2422.25	2402.50	2430.00	2396.51	2403.52	2417.89
37.5	2391.11	2361.09	2351.80	2335.74	2331.99	2326.72	2320.70	2343.03	2319.41	2319.75
40.0	2283.28	2273.32	2252.92	2255.66	2232.85	2224.61	2211.30	2201.41	2204.46	2211.33
42.5	2214.76	2177.80	2157.50	2145.28	2132.88	2115.99	2116.67	2104.33	2103.28	2100.01
45.0	2094.53	2063.02	2059.77	2039.27	2023.58	2015.84	2000.04	1994.30	1985.39	1985.01
47.5	1989.29	1963.54	1941.60	1927.44	1911.03	1899.52	1882.99	1861.74	1861.03	1852.99
50.0	1872.75	1853.58	1840.54	1826.37	1808.24	1782.68	1742.68	1727.04	1717.01	1738.64
52.5	1758.78	1747.62	1737.49	1730.20	1673.68	1651.19	1612.51	1590.05	1564.55	1585.22
55.0	1648.27	1622.50	1612.94	1602.52	1559.76	1532.52	1485.98	1428.87	1424.24	1434.19
57.5	1536.39	1509.94	1512.53	1488.08	1451.31	1406.84	1335.55	1298.65	1262.82	1281.49
60.0	1422.47	1405.27	1380.78	1368.13	1325.40	1257.74	1194.93	1132.47	1119.03	1133.95
62.5	1304.40	1292.37	1273.40	1249.29	1200.05	1133.19	1053.15	992.20	964.64	990.38
65.0	1186.19	1164.08	1158.82	1133.15	1087.65	1003.94	915.67	838.59	813.49	851.66
67.5	1075.15	1056.87	1046.41	1017.83	964.08	886.10	790.75	712.59	681.68	715.76
70.0	950.94	931.88	928.16	894.30	848.08	757.13	661.85	596.28	566.29	590.94
72.5	835.36	813.12	811.29	784.10	721.09	642.65	557.80	480.06	454.84	476.44
75.0	707.26	690.50	688.56	660.19	618.62	539.32	455.77	382.69	356.51	381.20
77.5	583.80	574.22	570.78	551.63	518.11	442.25	360.43	297.02	268.28	298.41
80.0	465.09	463.87	460.67	446.12	403.52	347.28	288.50	230.15	198.55	227.98

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**CANDELA TABULATION - (Cont.)**

82.5	376.53	372.93	365.07	349.83	318.94	272.50	220.55	172.13	148.28	168.37
85.0	291.86	288.67	282.93	273.88	247.15	205.24	163.93	120.88	103.24	122.65
87.5	222.42	222.90	218.48	208.17	185.97	153.20	121.83	89.43	69.79	87.44
90.0	168.20	165.64	169.87	158.46	144.05	113.26	88.21	60.49	43.51	60.07
92.5	125.12	128.10	124.90	119.81	109.07	85.19	61.99	40.21	27.58	40.02
95.0	99.51	96.32	98.00	90.32	79.87	62.69	45.00	26.71	19.89	28.43
97.5	76.22	77.94	76.07	69.56	59.14	47.46	32.90	18.83	16.20	20.46
100.0	61.54	62.88	58.77	54.01	45.89	34.18	24.06	13.89	13.27	14.49
102.5	50.16	50.17	47.69	41.73	33.85	26.97	17.40	11.70	10.77	11.66
105.0	41.64	39.75	35.31	33.20	26.60	19.69	13.05	10.63	10.57	9.66
107.5	34.29	32.91	30.07	24.07	20.26	16.77	11.17	9.23	8.18	8.36
110.0	28.10	28.41	23.57	19.77	14.97	12.20	8.54	7.85	8.05	8.13
112.5	23.78	21.14	17.63	15.04	11.88	8.36	8.16	7.64	5.73	6.78
115.0	18.37	17.55	15.14	11.45	8.38	6.90	6.49	6.18	5.09	6.07
117.5	15.26	14.16	11.34	8.40	6.19	4.42	4.80	5.12	4.80	5.25
120.0	11.49	10.74	8.02	7.09	4.89	3.53	4.45	4.51	4.14	4.70
122.5	8.95	7.67	6.63	5.12	2.85	2.96	3.48	3.61	3.23	3.80
125.0	5.89	4.81	3.87	2.47	1.66	2.10	2.81	3.11	2.67	2.91
127.5	5.05	4.10	2.47	1.30	0.91	1.75	1.91	2.34	2.39	2.16
130.0	2.88	1.88	0.93	0.54	0.45	0.95	1.64	1.56	1.48	1.97
132.5	1.73	0.93	0.52	0.24	0.31	0.79	1.21	0.81	1.16	1.08
135.0	0.58	0.36	0.12	0.03	0.23	0.42	0.63	0.58	0.64	0.69
137.5	0.05	0.03	0.00	0.03	0.17	0.18	0.37	0.39	0.47	0.37
140.0	0.00	0.00	0.00	0.03	0.03	0.06	0.03	0.24	0.11	0.13
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.13	0.12
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13
2.5	3034.25	3089.76	3082.60	3084.81	3175.75	3091.94	3106.12	3045.80	3092.87	3077.78
5.0	3078.74	3053.00	3096.18	3051.69	3123.71	3072.32	3102.78	3121.54	3108.55	3084.72
7.5	3054.00	3044.92	3071.23	3046.79	3085.08	3060.34	3078.77	3052.32	3064.92	3036.71
10.0	3053.56	3054.88	3043.92	3031.31	3050.96	3010.78	3013.13	3006.71	3024.71	3014.10
12.5	2991.41	3015.65	2991.34	2993.98	2988.63	2986.55	2994.71	2965.08	2983.64	2993.25
15.0	2980.51	2969.43	2957.12	2967.98	2961.78	2962.88	2981.72	2946.62	2941.58	2944.63
17.5	2910.46	2878.49	2914.12	2916.59	2934.92	2922.18	2931.94	2900.05	2909.50	2917.26
20.0	2835.87	2858.94	2849.49	2861.65	2859.41	2879.96	2875.07	2875.18	2868.95	2843.55
22.5	2807.46	2802.10	2793.50	2818.41	2806.80	2798.13	2824.24	2852.76	2820.45	2776.22
25.0	2721.72	2725.88	2739.24	2736.41	2734.67	2758.69	2776.08	2752.64	2764.15	2741.09
27.5	2666.23	2647.15	2671.06	2655.22	2657.42	2686.98	2710.19	2707.69	2686.86	2671.66

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED4HTHOWT50120V-277V-FL\_S.IES**

**CANDELA TABULATION - (Cont.)**

30.0	2562.42	2577.13	2570.95	2578.74	2595.98	2608.55	2637.90	2640.87	2638.41	2620.86
32.5	2483.20	2491.78	2503.48	2519.50	2527.99	2542.90	2564.03	2569.06	2555.33	2538.06
35.0	2418.20	2415.04	2419.62	2422.46	2457.06	2463.66	2464.46	2468.25	2478.76	2430.96
37.5	2312.56	2340.91	2308.90	2330.45	2346.37	2348.00	2403.66	2393.26	2384.47	2361.30
40.0	2199.19	2197.48	2236.95	2252.74	2240.05	2276.06	2289.96	2309.18	2301.19	2247.58
42.5	2106.05	2094.42	2115.56	2137.83	2155.68	2182.77	2213.65	2205.26	2187.06	2143.34
45.0	1988.97	2009.32	2017.30	2041.40	2042.36	2079.68	2080.91	2099.12	2090.69	2047.72
47.5	1875.48	1893.27	1916.90	1935.79	1956.52	1962.22	1997.47	2003.85	1968.60	1944.46
50.0	1750.65	1776.93	1795.88	1829.45	1842.55	1846.86	1880.20	1896.93	1868.54	1840.68
52.5	1606.89	1645.02	1686.00	1713.37	1735.98	1740.36	1759.77	1772.62	1755.26	1731.97
55.0	1475.13	1525.28	1576.55	1606.58	1623.91	1628.72	1647.80	1658.59	1633.42	1614.10
57.5	1330.50	1398.83	1446.92	1483.41	1511.84	1520.22	1535.27	1546.45	1527.65	1503.85
60.0	1195.25	1267.72	1326.57	1365.79	1388.26	1404.84	1425.03	1438.49	1414.09	1383.06
62.5	1046.47	1134.05	1199.68	1256.00	1269.91	1284.55	1302.86	1328.51	1302.07	1272.30
65.0	912.27	1006.26	1092.86	1129.23	1154.11	1171.74	1178.28	1200.30	1179.97	1155.31
67.5	785.65	874.45	966.43	1015.31	1039.35	1054.31	1067.26	1078.44	1064.78	1040.81
70.0	668.22	754.00	840.33	891.41	919.81	930.81	953.31	957.43	945.39	933.28
72.5	550.50	647.99	729.07	777.83	808.34	810.87	827.71	841.85	821.14	795.94
75.0	452.71	540.12	616.95	663.03	690.17	689.97	694.82	705.49	699.12	688.17
77.5	362.14	440.56	507.65	547.13	564.50	571.25	579.47	581.41	574.91	570.47
80.0	279.87	350.08	402.88	442.92	462.61	461.63	470.95	474.13	464.32	457.12
82.5	215.57	268.41	322.58	349.86	369.84	372.60	373.82	372.07	371.65	367.63
85.0	161.28	205.64	246.42	273.30	284.65	288.28	293.82	289.90	289.85	290.81
87.5	118.25	151.65	185.46	209.28	217.88	221.15	220.74	226.18	219.61	216.77
90.0	87.44	115.33	142.07	159.39	166.96	172.12	165.17	167.90	172.18	170.47
92.5	60.93	84.72	105.96	120.37	128.93	128.68	128.92	126.86	126.73	129.77
95.0	43.86	62.36	80.67	89.05	95.49	99.29	97.50	96.78	97.97	95.32
97.5	31.68	47.80	59.55	67.46	75.26	75.94	76.93	77.59	75.28	77.94
100.0	23.30	35.43	44.90	53.03	58.65	61.94	62.08	61.58	59.77	58.40
102.5	18.00	27.76	34.35	41.12	46.54	48.52	47.78	49.18	49.33	48.51
105.0	13.58	20.65	25.51	31.85	36.82	40.66	43.63	41.79	40.48	41.19
107.5	11.00	15.90	20.88	25.00	30.34	33.82	34.52	33.98	34.18	32.92
110.0	8.92	11.95	15.44	18.92	23.86	26.67	27.90	28.22	29.42	26.52
112.5	7.98	9.75	11.97	14.84	19.36	21.15	22.48	24.08	22.18	22.25
115.0	6.58	6.44	9.25	11.23	15.21	17.33	17.93	18.85	19.13	17.11
117.5	5.16	4.59	6.18	8.83	11.54	14.07	15.05	14.46	13.20	13.79
120.0	4.00	3.16	4.19	5.78	8.36	10.41	12.09	11.33	12.07	10.85
122.5	4.13	2.76	2.37	3.70	5.56	8.12	8.09	9.02	8.07	7.09
125.0	2.33	2.20	1.45	2.51	4.17	5.30	5.79	6.41	6.93	5.20
127.5	1.90	1.62	0.72	1.15	2.25	3.79	4.61	4.45	3.97	3.55
130.0	1.46	1.12	0.69	0.22	1.01	1.75	3.36	3.30	2.43	1.71
132.5	0.77	0.69	0.57	0.15	0.29	0.63	1.48	1.55	1.18	0.94
135.0	0.68	0.31	0.27	0.11	0.02	0.03	0.70	0.71	0.64	0.14
137.5	0.27	0.30	0.10	0.05	0.00	0.00	0.03	0.05	0.03	0.00
140.0	0.21	0.10	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED4HTHOWT50120V-277V-FL\_S.IES**

**CANDELA TABULATION - (Cont.)**

170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
0.0	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13	3108.13
2.5	3159.88	3087.74	3072.22	3084.13	3052.29	3106.31	3088.17
5.0	3057.23	3065.85	3088.92	3054.02	3091.56	3104.81	3055.17
7.5	3056.59	3036.87	3044.26	3050.59	3048.97	3026.46	3017.74
10.0	2978.39	3024.55	3014.20	3033.00	3017.61	2989.77	3025.96
12.5	2996.78	2979.68	2982.02	2994.71	3002.60	2952.06	2990.42
15.0	2930.89	2923.86	2935.37	2947.37	2927.01	2941.56	2920.78
17.5	2905.26	2886.05	2871.26	2883.28	2873.71	2872.49	2877.33
20.0	2865.17	2836.09	2842.94	2819.69	2819.18	2822.51	2825.52
22.5	2797.86	2766.91	2773.87	2775.79	2754.20	2756.77	2743.02
25.0	2702.30	2708.36	2713.25	2686.12	2690.43	2697.29	2691.56
27.5	2652.10	2634.60	2614.80	2619.03	2616.39	2613.17	2603.35
30.0	2578.69	2560.54	2557.45	2558.81	2535.82	2542.68	2531.39
32.5	2497.35	2467.13	2454.58	2469.95	2450.09	2447.92	2442.56
35.0	2416.43	2393.43	2370.80	2382.02	2388.60	2363.99	2384.40
37.5	2319.58	2314.38	2298.16	2287.34	2284.18	2265.02	2268.21
40.0	2230.33	2230.34	2192.15	2181.07	2190.97	2175.84	2174.43
42.5	2123.93	2102.85	2095.99	2062.00	2069.62	2066.53	2067.92
45.0	2013.67	2000.99	1991.72	1960.48	1950.08	1942.62	1948.77
47.5	1926.76	1902.34	1887.36	1853.15	1825.12	1815.39	1808.87
50.0	1810.42	1784.06	1771.31	1740.62	1697.01	1685.42	1665.83
52.5	1715.11	1680.77	1653.55	1611.64	1558.79	1533.85	1525.26
55.0	1590.87	1565.72	1532.30	1494.78	1426.52	1386.99	1367.74
57.5	1487.09	1454.84	1407.48	1350.68	1282.54	1230.47	1212.38
60.0	1371.58	1340.20	1290.41	1209.93	1143.84	1080.70	1055.24
62.5	1246.04	1215.69	1165.92	1085.41	999.17	933.96	907.61
65.0	1140.74	1107.56	1045.03	956.87	856.67	791.19	764.12
67.5	1023.43	994.89	927.85	842.52	730.06	650.22	622.17
70.0	910.30	875.02	807.20	713.61	614.37	529.34	501.65
72.5	783.32	759.05	693.48	608.19	504.31	422.58	394.02
75.0	670.63	647.91	587.26	503.16	409.76	327.65	299.90
77.5	558.03	538.42	477.12	410.38	328.35	253.50	226.01
80.0	451.42	431.55	391.20	325.44	248.88	185.50	166.20
82.5	359.97	337.77	306.64	250.19	188.84	137.19	115.86
85.0	282.93	268.59	232.65	191.49	141.39	99.19	81.01
87.5	214.00	207.62	177.60	143.36	107.62	70.13	53.72
90.0	166.71	157.01	137.13	108.07	77.13	49.08	30.94
92.5	125.64	123.02	103.70	77.74	54.80	32.71	21.33
95.0	92.40	87.65	75.99	59.00	39.43	21.73	14.49
97.5	72.72	68.42	56.66	42.34	27.68	14.39	10.96
100.0	57.81	50.77	43.52	29.68	19.43	9.81	8.79
102.5	45.73	38.09	31.59	21.45	13.34	7.37	7.28
105.0	35.84	31.41	22.88	15.86	9.13	6.84	6.72
107.5	29.96	23.26	16.95	11.86	6.38	5.85	5.81
110.0	24.46	19.34	13.41	8.35	5.02	5.00	4.31
112.5	18.32	13.14	9.81	5.56	3.89	4.31	3.73
115.0	13.63	11.17	6.26	3.35	2.90	3.40	3.43

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

117.5	10.88	7.47	4.74	2.04	2.61	2.38	2.48
120.0	8.00	4.69	2.95	1.38	2.04	2.80	1.90
122.5	5.95	3.96	1.40	1.49	1.73	1.90	1.80
125.0	3.46	1.96	0.71	0.86	1.14	1.55	1.79
127.5	2.22	0.74	0.50	0.74	1.06	1.09	0.83
130.0	1.20	0.31	0.29	0.65	0.85	0.66	0.92
132.5	0.20	0.05	0.14	0.33	0.41	0.62	0.53
135.0	0.00	0.02	0.17	0.41	0.31	0.31	0.40
137.5	0.03	0.02	0.03	0.12	0.14	0.27	0.19
140.0	0.00	0.03	0.06	0.02	0.11	0.18	0.16
142.5	0.00	0.00	0.00	0.00	0.06	0.00	0.03
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1124.62	N.A.	12.70
0-30	2381.9	N.A.	26.90
0-40	3894.51	N.A.	44.00
0-60	6832.64	N.A.	77.10
0-80	8473.44	N.A.	95.70
0-90	8729.15	N.A.	98.60
10-90	8436.68	N.A.	95.30
20-40	2769.89	N.A.	31.30
20-50	4327.13	N.A.	48.90
40-70	3969.82	N.A.	44.80
60-80	1640.8	N.A.	18.50
70-80	609.11	N.A.	6.90
80-90	255.70	N.A.	2.90
90-110	113.07	N.A.	1.30
90-120	124.04	N.A.	1.40
90-130	127.18	N.A.	1.40
90-150	127.57	N.A.	1.40
90-180	127.57	N.A.	1.40
110-180	14.50	N.A.	0.20
0-180	8856.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	292.47
10-20	832.15
20-30	1257.27
30-40	1512.62
40-50	1557.24
50-60	1380.89
60-70	1031.69
70-80	609.11
80-90	255.70
90-100	83.78
100-110	29.29
110-120	10.98
120-130	3.14
130-140	0.38
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

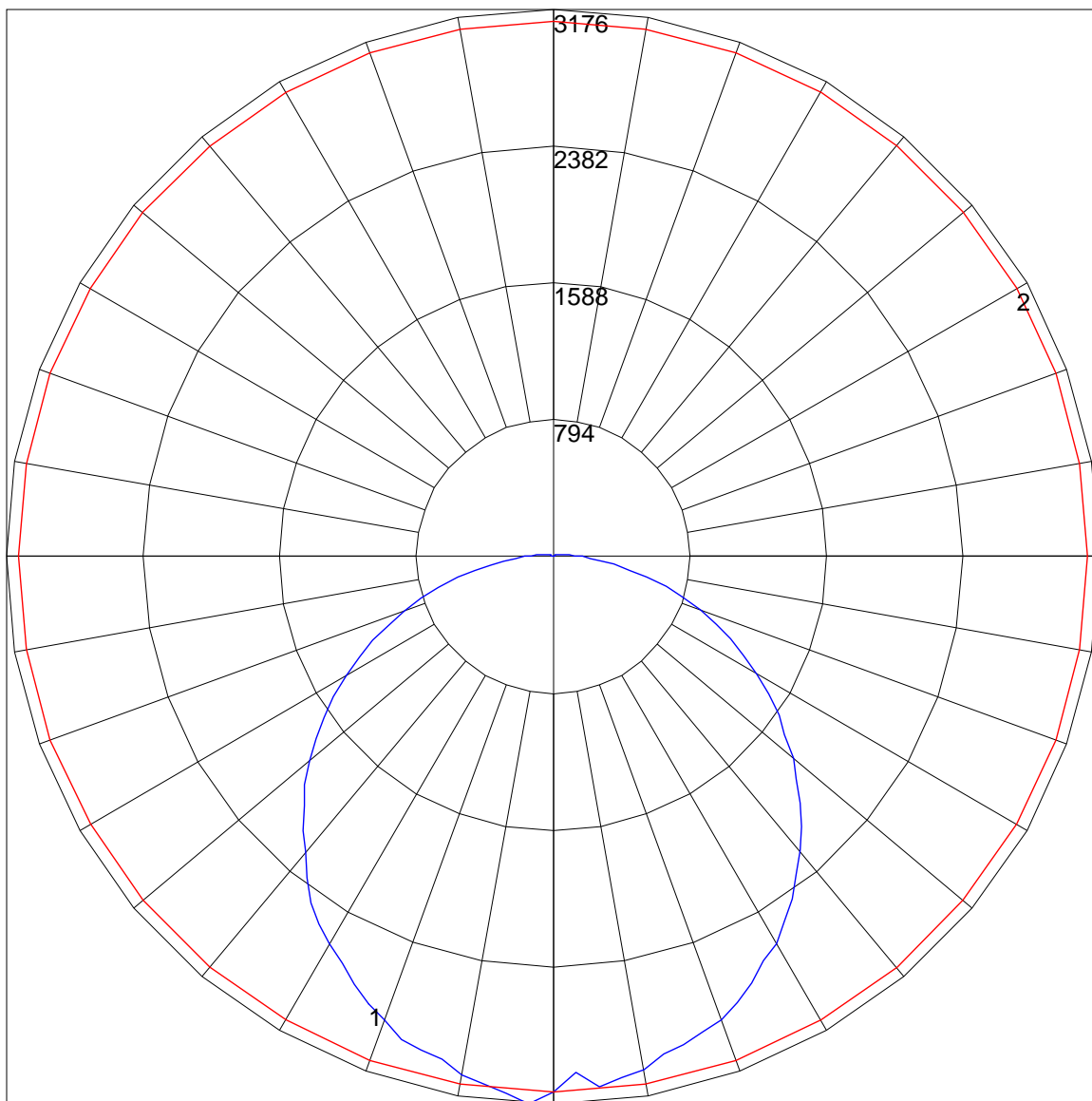
IES INDOOR REPORT  
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99
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	81	76	84	79	74	80	76	72	77	74	70	68
3	90	79	71	64	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 3175.75 Located At Horizontal Angle = 240, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (240 - 60) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)