



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-277V-FL_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.0.4 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Wed Jun 28 10:38:13 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED4HTLOWT35120V-277V-FL

[LAMP] LED 0.195W White 5630 package (65mA)

[LAMPCAT] SPMWHT541MP5WAT0S5

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 180

[OTHER] Lumens per lamp: 32.5

[OTHER] Input watts: 50

[OTHER] Distribution: Direct

[OTHER] Symmetry: None

[OTHER] Photometric Type: C

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.3

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5512
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	50
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)	0.58 ft
Luminous Height	0.32 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-277V-FL_S.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6920	5380	5257
55	5840	4513	4389
65	4179	3571	3518
75	2477	2463	2445
85	1315	1304	1245

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01
2.5	1940.00	1959.95	1940.34	1914.57	1961.10	1935.63	1914.58	1975.85	1913.91	1951.65
5.0	1923.60	1926.88	1927.08	1919.11	1938.12	1899.50	1909.57	1894.25	1917.03	1927.97
7.5	1889.33	1899.10	1902.56	1915.40	1896.77	1922.89	1910.94	1891.46	1911.53	1906.66
10.0	1865.28	1862.96	1873.67	1858.84	1873.20	1892.53	1864.99	1876.53	1877.04	1870.64
12.5	1835.37	1868.96	1841.74	1830.63	1851.58	1854.44	1852.88	1871.17	1866.96	1864.33
15.0	1835.20	1823.07	1824.88	1812.57	1819.03	1834.45	1825.86	1841.04	1852.84	1835.82
17.5	1786.86	1784.62	1793.10	1799.25	1788.27	1804.00	1787.13	1821.95	1817.49	1816.69
20.0	1775.01	1748.40	1758.18	1754.49	1780.83	1759.78	1765.62	1773.37	1776.01	1783.37
22.5	1711.84	1722.60	1729.70	1713.76	1724.06	1739.73	1726.85	1733.52	1762.32	1760.38
25.0	1670.21	1669.03	1680.34	1676.46	1682.77	1682.65	1693.91	1719.46	1725.72	1718.47
27.5	1642.82	1622.18	1629.19	1640.19	1639.25	1636.68	1658.09	1670.05	1676.97	1674.25
30.0	1581.96	1577.65	1595.13	1583.77	1588.48	1597.45	1610.47	1614.09	1633.21	1644.78
32.5	1529.84	1524.50	1533.18	1536.21	1531.94	1536.20	1558.05	1575.12	1597.18	1601.58
35.0	1473.80	1472.45	1461.52	1480.94	1480.71	1486.58	1501.25	1513.47	1539.74	1549.52
37.5	1420.16	1412.24	1408.78	1419.88	1431.46	1435.12	1444.32	1464.60	1479.91	1499.38
40.0	1356.19	1349.05	1348.31	1355.24	1371.11	1368.92	1388.30	1407.23	1428.01	1438.44
42.5	1278.98	1279.39	1283.58	1291.87	1302.22	1310.12	1331.62	1335.24	1370.19	1377.00
45.0	1197.52	1203.70	1215.74	1220.83	1246.35	1254.37	1261.02	1285.36	1304.56	1313.14
47.5	1118.06	1124.62	1137.05	1150.98	1174.37	1183.81	1188.77	1209.65	1231.29	1250.87
50.0	1042.51	1037.32	1058.49	1076.02	1097.83	1123.57	1133.45	1149.60	1158.62	1180.04
52.5	947.84	956.25	972.26	1002.35	1024.07	1051.89	1066.16	1074.22	1086.49	1105.28
55.0	844.65	866.50	890.32	919.89	952.18	973.93	997.50	1005.92	1014.04	1025.17
57.5	759.92	769.69	798.76	847.27	880.28	898.75	922.97	934.62	949.71	968.75
60.0	656.80	677.38	719.00	763.41	804.67	840.43	853.43	863.82	880.53	890.08
62.5	563.71	577.92	625.38	681.31	729.49	758.69	782.56	794.85	809.31	819.71
65.0	467.32	494.19	540.85	603.91	655.17	686.70	711.04	717.73	737.38	739.40
67.5	386.00	409.12	462.01	520.58	581.33	618.20	637.13	648.24	660.14	671.23
70.0	311.19	331.59	379.26	444.55	507.50	540.60	569.13	574.15	585.58	598.63
72.5	245.61	263.78	314.97	376.08	437.04	471.45	484.55	504.68	514.84	519.93
75.0	187.27	206.85	253.54	307.75	365.69	406.20	418.02	425.31	438.02	441.23
77.5	138.08	158.12	202.15	254.08	300.91	330.84	349.61	353.60	360.44	368.33
80.0	100.33	117.48	156.06	201.57	239.23	270.60	283.60	286.68	289.81	297.49
82.5	73.16	85.13	123.05	155.48	190.01	215.48	224.74	229.01	228.97	232.48
85.0	48.77	61.75	89.44	117.65	148.23	166.72	173.63	174.29	178.94	180.80
87.5	34.31	44.36	66.69	91.48	112.16	126.90	134.52	136.84	137.86	138.55
90.0	20.05	29.77	46.75	65.07	84.57	98.80	99.81	105.48	106.24	104.22
92.5	13.46	19.98	33.66	49.14	63.37	74.31	78.70	79.94	80.66	79.27
95.0	10.00	12.96	23.73	35.98	47.74	55.51	58.20	61.39	60.49	61.39
97.5	7.00	9.23	18.00	26.35	35.94	43.70	45.70	47.49	47.67	48.58
100.0	5.72	6.87	12.14	18.90	26.20	33.12	35.46	37.72	38.14	38.21
102.5	4.98	4.93	8.38	13.88	20.09	24.96	28.62	31.64	30.77	31.57
105.0	3.87	3.93	6.06	9.92	14.70	19.22	22.32	25.46	25.33	25.57
107.5	3.16	3.51	4.29	6.89	11.41	14.42	18.90	20.64	20.67	20.67
110.0	2.48	2.67	3.25	5.13	8.16	11.45	14.67	16.32	17.12	17.78
112.5	2.56	2.70	2.68	3.54	6.22	9.04	11.29	13.54	14.38	15.00
115.0	2.18	1.83	1.97	2.51	4.29	6.57	8.63	10.52	11.69	11.68
117.5	1.78	1.93	1.66	1.65	2.83	5.19	7.25	8.47	8.83	10.04
120.0	1.61	1.47	1.46	1.29	1.87	3.85	5.38	6.74	7.21	7.66
122.5	1.18	1.27	1.08	0.81	0.82	2.35	3.59	4.50	5.37	5.34
125.0	1.03	1.10	0.67	0.50	0.41	1.28	2.79	3.17	3.70	4.10
127.5	0.60	0.63	0.59	0.37	0.22	0.58	1.17	2.17	2.83	2.94
130.0	0.54	0.63	0.33	0.28	0.29	0.17	0.85	1.28	1.81	2.03
132.5	0.45	0.34	0.35	0.20	0.11	0.03	0.27	0.59	0.84	1.11

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-277V-FL_S.IES

CANDELA TABULATION - (Cont.)

135.0	0.22	0.38	0.18	0.09	0.09	0.03	0.02	0.17	0.47	0.46
137.5	0.12	0.06	0.15	0.04	0.05	0.03	0.02	0.00	0.05	0.06
140.0	0.09	0.09	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.02	0.03	0.04	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
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	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01
2.5	1921.86	1998.37	1907.45	1922.36	1940.86	1918.90	1912.34	1913.69	1908.71	1971.89
5.0	1897.87	1927.00	1930.09	1932.28	1923.55	1925.12	1901.91	1901.81	1911.25	1919.46
7.5	1881.17	1905.10	1898.93	1929.12	1901.95	1889.32	1926.90	1895.22	1901.61	1911.88
10.0	1861.77	1869.54	1902.02	1900.61	1892.73	1863.62	1890.91	1894.25	1881.23	1900.92
12.5	1862.84	1865.67	1851.83	1835.06	1860.71	1855.87	1874.40	1876.56	1871.67	1872.48
15.0	1845.95	1858.00	1836.62	1838.44	1843.63	1846.02	1836.86	1855.26	1862.27	1845.53
17.5	1815.63	1812.69	1820.86	1815.32	1824.20	1816.37	1805.85	1818.71	1796.20	1813.52
20.0	1785.16	1784.56	1773.49	1766.67	1767.23	1753.05	1773.80	1787.19	1777.55	1786.29
22.5	1756.22	1736.36	1743.32	1738.96	1746.33	1727.52	1720.50	1747.36	1740.92	1747.30
25.0	1725.99	1711.09	1710.23	1704.59	1702.77	1694.29	1698.30	1699.45	1699.88	1703.65
27.5	1675.66	1674.09	1666.48	1657.59	1658.34	1648.42	1651.21	1656.90	1654.51	1652.60
30.0	1636.01	1631.41	1626.02	1612.22	1610.52	1594.65	1598.93	1598.35	1606.06	1603.03
32.5	1583.96	1576.86	1559.64	1558.53	1562.02	1549.77	1546.07	1541.55	1545.84	1544.02
35.0	1539.12	1523.52	1511.62	1508.75	1492.22	1494.32	1498.98	1501.86	1502.15	1496.84
37.5	1489.94	1466.18	1452.39	1451.52	1453.54	1446.91	1445.78	1436.42	1437.12	1445.07
40.0	1436.28	1419.67	1400.12	1395.47	1381.44	1372.95	1377.83	1377.66	1386.65	1380.77
42.5	1366.75	1352.31	1347.24	1335.84	1318.86	1323.03	1320.36	1309.03	1312.77	1309.61
45.0	1311.47	1286.00	1274.79	1274.99	1256.66	1242.69	1234.76	1243.18	1236.70	1246.13
47.5	1239.83	1220.78	1216.50	1206.74	1195.25	1171.22	1165.02	1158.72	1146.85	1156.29
50.0	1160.79	1150.90	1141.68	1136.00	1123.00	1105.67	1092.36	1078.35	1071.75	1073.45
52.5	1090.78	1087.21	1073.86	1060.03	1050.34	1031.47	1000.37	987.64	980.44	987.77
55.0	1023.69	1011.93	1011.35	993.41	972.45	948.76	919.05	898.18	893.14	897.43
57.5	956.38	941.93	939.38	923.36	900.89	862.09	835.61	799.06	792.90	805.47
60.0	883.07	871.60	865.02	847.54	822.87	783.28	745.58	713.64	689.42	705.61
62.5	812.22	800.89	796.22	777.00	748.71	703.94	652.87	612.19	600.74	615.49
65.0	737.02	727.95	723.97	701.67	672.24	625.61	574.01	529.53	514.72	531.99
67.5	673.63	656.00	650.33	626.22	601.22	550.96	486.22	443.90	430.45	443.61
70.0	591.26	581.51	573.78	551.42	522.44	471.84	412.52	365.92	351.41	366.77
72.5	515.19	508.64	499.36	481.57	452.32	404.72	343.31	299.26	280.14	297.56
75.0	438.63	430.51	425.38	414.63	381.85	329.66	281.08	238.69	219.22	236.73
77.5	363.61	358.01	354.34	342.52	314.81	271.71	226.45	182.99	168.43	183.61
80.0	293.69	292.73	287.32	275.00	254.86	217.34	175.50	140.98	124.35	142.15

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-277V-FL_S.IES

CANDELA TABULATION - (Cont.)

82.5	230.62	230.14	226.49	217.96	201.10	168.14	134.87	105.31	90.83	103.12
85.0	180.20	181.17	175.96	170.65	153.03	126.84	101.68	76.06	63.66	75.38
87.5	137.87	139.94	137.54	130.61	116.24	94.84	74.89	54.05	43.36	53.71
90.0	104.65	104.56	104.93	99.42	88.53	70.59	53.90	37.75	26.56	36.67
92.5	79.26	80.14	79.05	75.03	63.50	53.81	38.66	25.41	18.27	24.52
95.0	61.99	61.76	61.10	57.19	49.85	38.79	28.09	15.91	13.17	16.59
97.5	47.22	48.25	46.48	44.41	37.59	28.80	20.07	12.24	10.00	12.10
100.0	38.69	37.80	36.28	32.36	29.28	21.49	14.75	8.79	8.40	8.45
102.5	31.35	31.18	29.06	25.19	20.99	16.59	11.74	7.12	6.44	7.15
105.0	24.84	25.61	22.49	20.69	15.56	12.54	8.61	6.16	5.90	6.85
107.5	21.51	19.88	18.48	16.70	13.06	9.87	6.85	5.75	5.09	5.19
110.0	17.80	17.30	14.94	12.63	9.33	7.43	5.45	5.01	5.11	4.78
112.5	14.48	13.48	11.72	9.46	7.39	5.53	4.45	4.47	3.94	4.66
115.0	11.56	10.25	9.40	7.61	5.58	4.04	4.14	3.89	3.49	3.82
117.5	9.03	8.98	7.25	5.29	4.02	2.99	3.36	3.16	3.24	3.29
120.0	6.94	6.71	5.07	3.63	2.44	2.16	2.47	2.80	2.82	2.50
122.5	6.15	4.24	3.57	2.75	1.33	1.63	2.23	2.14	1.98	1.85
125.0	3.58	3.61	2.43	1.49	1.04	1.57	1.77	1.86	1.73	1.71
127.5	3.20	2.39	1.53	0.71	0.77	0.91	1.03	1.41	1.17	1.16
130.0	1.74	1.12	0.79	0.27	0.39	0.73	0.94	1.15	1.02	0.97
132.5	0.97	0.50	0.25	0.13	0.19	0.36	0.53	0.63	0.70	0.83
135.0	0.29	0.24	0.03	0.06	0.14	0.19	0.35	0.39	0.53	0.36
137.5	0.02	0.00	0.00	0.00	0.11	0.20	0.19	0.29	0.24	0.31
140.0	0.00	0.00	0.00	0.02	0.00	0.07	0.13	0.08	0.13	0.05
142.5	0.00	0.00	0.00	0.00	0.00	0.04	0.06	0.11	0.09	0.06
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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>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	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01
2.5	1940.69	1951.10	1924.07	1904.91	1937.86	1911.58	1907.61	1913.86	1880.49	1914.22
5.0	1940.35	1924.26	1901.73	1936.99	1898.42	1925.61	1921.61	1927.75	1923.14	1905.99
7.5	1921.26	1917.67	1899.44	1895.37	1906.37	1903.46	1917.85	1910.79	1885.71	1888.50
10.0	1905.24	1902.99	1896.52	1892.47	1879.35	1873.01	1883.83	1867.60	1871.35	1873.93
12.5	1863.44	1871.08	1862.81	1878.45	1870.72	1859.47	1880.39	1871.60	1852.09	1860.30
15.0	1858.80	1829.02	1830.01	1826.96	1835.73	1845.11	1832.84	1845.47	1828.44	1836.10
17.5	1817.68	1821.26	1800.87	1815.60	1804.71	1821.65	1819.49	1820.78	1823.75	1809.58
20.0	1774.48	1774.19	1767.61	1769.80	1783.35	1785.52	1786.79	1785.03	1774.08	1772.43
22.5	1729.77	1736.98	1738.63	1742.97	1738.68	1741.31	1745.42	1748.67	1740.88	1739.81
25.0	1692.18	1705.31	1711.94	1701.23	1701.57	1692.86	1737.81	1718.25	1713.90	1702.51
27.5	1653.64	1645.85	1654.11	1655.75	1679.84	1686.98	1686.73	1682.92	1687.66	1676.27

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-277V-FL_S.IES

CANDELA TABULATION - (Cont.)

30.0	1609.55	1601.76	1610.07	1613.46	1623.36	1627.81	1656.39	1652.04	1638.53	1627.38
32.5	1560.97	1555.19	1551.32	1569.25	1572.95	1588.79	1601.86	1599.15	1585.19	1568.39
35.0	1486.85	1502.74	1500.13	1528.79	1516.79	1534.22	1554.25	1549.86	1552.12	1515.67
37.5	1440.18	1443.00	1453.38	1455.59	1463.80	1471.23	1481.80	1490.49	1486.72	1467.97
40.0	1378.39	1371.89	1386.07	1404.80	1400.81	1412.83	1442.43	1438.94	1427.66	1400.16
42.5	1303.60	1315.07	1330.92	1340.43	1340.17	1346.99	1369.68	1375.72	1374.75	1338.08
45.0	1239.26	1246.55	1261.13	1271.86	1282.04	1286.81	1300.43	1310.35	1305.03	1282.56
47.5	1164.23	1176.93	1191.77	1202.21	1207.97	1213.32	1240.47	1252.64	1229.39	1200.92
50.0	1086.13	1103.67	1121.99	1135.15	1136.73	1157.59	1165.67	1175.90	1164.39	1142.81
52.5	1008.40	1034.55	1054.01	1063.54	1074.17	1074.29	1098.44	1105.40	1092.54	1071.39
55.0	919.06	953.85	974.65	993.45	1010.15	1009.15	1022.98	1035.96	1019.59	1006.48
57.5	832.18	867.05	902.51	926.74	933.47	940.82	951.35	962.34	957.64	935.47
60.0	740.20	788.57	823.79	854.47	865.10	874.53	883.88	884.81	875.48	861.85
62.5	656.69	705.47	746.80	774.25	792.04	800.16	811.75	820.34	808.21	793.00
65.0	572.21	627.96	675.24	704.29	726.96	729.02	742.72	746.65	731.02	720.94
67.5	491.56	545.57	598.63	630.95	654.26	658.92	664.44	674.70	664.70	645.48
70.0	414.46	472.23	524.15	551.48	571.89	581.53	591.05	603.72	588.12	572.24
72.5	346.51	400.44	452.88	484.84	502.85	509.19	519.02	521.36	514.80	501.62
75.0	279.83	332.44	382.59	410.20	430.19	432.85	435.57	441.88	434.45	429.76
77.5	222.13	274.83	316.19	341.00	356.01	358.65	364.34	367.80	359.95	353.67
80.0	178.94	217.19	254.30	281.55	290.22	290.33	291.72	297.94	289.32	285.33
82.5	135.69	168.87	200.72	219.97	226.16	230.18	230.95	233.09	229.93	226.39
85.0	101.65	128.01	154.09	167.17	180.67	180.95	180.19	179.77	179.74	176.85
87.5	74.59	93.98	115.10	131.07	137.93	138.48	137.69	138.35	135.86	134.28
90.0	52.53	71.06	86.69	99.62	103.73	105.70	105.05	107.26	107.50	103.75
92.5	38.29	51.81	65.41	74.26	79.96	81.42	79.52	79.11	78.31	79.01
95.0	28.32	38.55	49.97	57.03	59.64	60.91	61.22	61.51	62.93	61.19
97.5	20.43	29.69	36.92	42.88	45.52	48.68	47.03	46.88	47.43	48.80
100.0	14.85	22.21	27.73	34.32	36.82	38.94	38.92	38.74	38.68	39.50
102.5	10.81	16.76	21.46	25.58	29.16	29.60	30.80	31.20	30.43	30.62
105.0	8.62	12.15	16.25	19.58	22.71	24.58	24.75	26.67	25.53	25.05
107.5	6.85	9.59	12.45	15.02	18.60	20.61	20.77	21.75	21.01	20.62
110.0	5.54	7.37	9.49	11.94	14.95	16.66	18.02	18.84	17.26	16.60
112.5	4.27	5.41	7.13	9.84	11.26	14.10	13.92	14.12	13.53	13.71
115.0	3.85	3.94	5.23	7.23	9.09	10.71	11.42	11.93	10.94	10.47
117.5	3.15	3.04	3.85	4.95	7.14	8.74	9.77	9.05	9.11	8.49
120.0	2.66	2.25	2.60	3.58	5.12	6.55	7.32	7.51	7.08	6.40
122.5	2.39	1.59	1.48	2.30	3.35	4.29	5.49	5.76	5.14	4.73
125.0	1.82	1.21	0.80	1.25	2.31	3.31	3.34	3.95	3.70	2.99
127.5	1.09	0.92	0.56	0.68	1.17	2.25	2.30	2.82	2.86	2.29
130.0	0.84	0.59	0.32	0.35	0.62	1.09	1.78	1.94	1.82	1.48
132.5	0.69	0.48	0.15	0.06	0.24	0.52	0.94	1.03	1.02	0.53
135.0	0.31	0.25	0.09	0.03	0.00	0.04	0.24	0.42	0.33	0.13
137.5	0.25	0.13	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00
140.0	0.09	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.06	0.03	0.00	0.00	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-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

	300	310	320	330	340	350	360
0.0	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01	1929.01
2.5	1886.39	1913.94	1910.30	1909.27	1951.86	1881.95	1940.00
5.0	1918.07	1890.18	1909.63	1918.71	1902.08	1909.05	1923.60
7.5	1911.44	1916.15	1921.41	1887.72	1890.44	1894.27	1889.33
10.0	1880.22	1876.48	1879.01	1888.84	1904.32	1890.60	1865.28
12.5	1861.39	1856.80	1852.89	1845.38	1851.38	1841.69	1835.37
15.0	1826.81	1829.85	1831.54	1832.71	1826.31	1814.56	1835.20
17.5	1815.45	1794.23	1810.75	1797.42	1796.41	1785.65	1786.86
20.0	1781.36	1774.81	1766.98	1755.18	1755.37	1754.98	1775.01
22.5	1735.94	1731.29	1730.50	1729.46	1714.81	1725.10	1711.84
25.0	1680.79	1683.45	1676.79	1668.34	1673.98	1674.19	1670.21
27.5	1650.47	1645.01	1644.49	1622.96	1636.29	1625.27	1642.82
30.0	1600.66	1600.26	1581.88	1580.80	1570.05	1575.38	1581.96
32.5	1564.53	1540.05	1537.76	1536.08	1527.43	1514.16	1529.84
35.0	1506.66	1492.64	1486.46	1479.14	1467.21	1476.96	1473.83
37.5	1445.97	1435.39	1429.16	1423.88	1412.69	1413.78	1420.16
40.0	1393.41	1380.01	1368.09	1355.70	1349.45	1354.99	1356.19
42.5	1325.58	1323.36	1299.25	1286.37	1295.21	1272.44	1278.98
45.0	1266.51	1248.85	1238.12	1225.18	1206.20	1210.66	1197.54
47.5	1198.64	1182.73	1172.42	1155.54	1134.17	1129.44	1118.08
50.0	1134.53	1114.62	1098.30	1071.84	1054.63	1049.28	1042.51
52.5	1066.12	1043.53	1033.93	1008.47	972.19	955.04	947.84
55.0	990.31	967.86	952.13	925.85	892.60	866.63	844.65
57.5	925.65	903.33	879.12	841.26	801.61	770.79	759.92
60.0	851.38	832.69	806.08	765.17	712.63	670.67	656.82
62.5	781.57	762.14	727.06	680.32	626.08	581.88	563.72
65.0	704.97	687.32	654.26	594.41	537.83	490.96	467.32
67.5	634.14	611.53	578.24	527.81	456.31	410.24	386.00
70.0	562.01	542.30	501.20	441.08	375.22	337.18	311.23
72.5	488.32	470.74	433.47	377.49	316.44	265.48	245.62
75.0	415.04	401.19	362.85	312.82	256.60	206.70	187.27
77.5	345.80	334.51	301.07	252.81	201.38	156.31	138.08
80.0	281.28	268.66	242.88	202.63	157.10	117.30	100.35
82.5	221.72	213.13	191.73	156.97	117.38	85.85	73.16
85.0	175.34	163.02	150.03	118.44	89.09	62.71	48.77
87.5	134.77	128.56	111.55	89.86	66.10	44.23	34.31
90.0	103.86	95.50	85.44	65.78	46.53	30.98	20.06
92.5	77.11	74.66	63.14	48.37	33.79	20.07	13.46
95.0	60.28	55.46	48.65	36.71	23.96	13.96	10.01
97.5	46.73	43.22	36.11	26.66	17.33	9.73	7.00
100.0	36.02	31.83	26.00	19.09	12.04	6.48	5.73
102.5	28.37	24.57	20.53	14.89	8.95	4.58	4.98
105.0	22.53	18.51	14.45	10.36	5.81	3.90	3.88
107.5	18.14	14.68	11.42	7.05	3.57	3.36	3.16
110.0	13.19	11.25	8.72	5.34	3.29	2.99	2.48
112.5	10.84	8.18	6.16	3.43	2.74	2.47	2.56
115.0	8.49	6.68	4.52	2.49	2.14	2.25	2.18

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-277V-FL_S.IES

CANDELA TABULATION - (Cont.)

117.5	7.02	4.95	2.94	1.60	1.51	1.61	1.78
120.0	5.04	3.04	1.80	1.03	1.48	1.51	1.61
122.5	3.58	2.46	0.90	0.59	1.18	1.12	1.18
125.0	2.50	1.22	0.52	0.68	0.90	1.03	1.03
127.5	1.13	0.49	0.21	0.44	0.47	0.61	0.60
130.0	0.72	0.12	0.11	0.36	0.37	0.55	0.54
132.5	0.11	0.06	0.09	0.15	0.42	0.47	0.47
135.0	0.02	0.02	0.06	0.16	0.09	0.27	0.22
137.5	0.00	0.00	0.04	0.09	0.20	0.22	0.12
140.0	0.00	0.00	0.02	0.09	0.08	0.11	0.09
142.5	0.00	0.00	0.00	0.00	0.00	0.03	0.02
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.02
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
PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-277V-FL_S.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	699.91	N.A.	12.70
0-30	1482.27	N.A.	26.90
0-40	2423.46	N.A.	44.00
0-60	4251.88	N.A.	77.10
0-80	5273.51	N.A.	95.70
0-90	5432.67	N.A.	98.60
10-90	5250.72	N.A.	95.30
20-40	1723.55	N.A.	31.30
20-50	2692.67	N.A.	48.90
40-70	2470.91	N.A.	44.80
60-80	1021.63	N.A.	18.50
70-80	379.14	N.A.	6.90
80-90	159.16	N.A.	2.90
90-110	70.42	N.A.	1.30
90-120	77.26	N.A.	1.40
90-130	79.18	N.A.	1.40
90-150	79.42	N.A.	1.40
90-180	79.42	N.A.	1.40
110-180	9.00	N.A.	0.20
0-180	5512.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	181.95
10-20	517.97
20-30	782.35
30-40	941.19
40-50	969.12
50-60	859.30
60-70	642.49
70-80	379.14
80-90	159.16
90-100	52.21
100-110	18.21
110-120	6.84
120-130	1.92
130-140	0.24
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

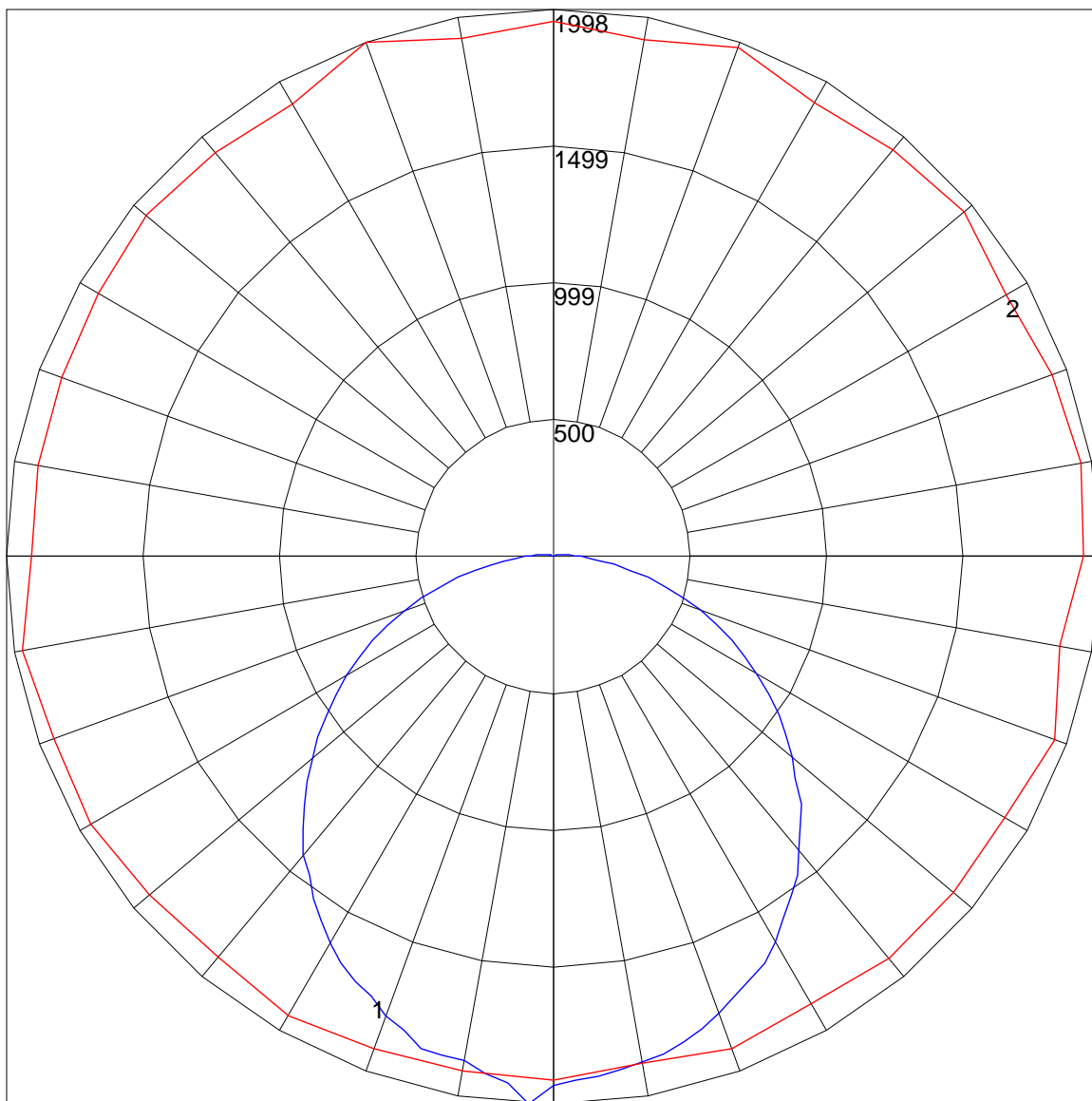
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : BS100LED4HTLOWT35120V-277V-FL_S.IES

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 = 1998.37 Located At Horizontal Angle = 110, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (110 - 290) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)