



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTVLOWT40120-277V-FL\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Wed Jun 28 11:37:28 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED4HTVLOWT40120-277V-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: 24.0

[OTHER] Input watts: 30

[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	4070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	30
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	5172	3965	3886
55	4316	3331	3260
65	3108	2631	2621
75	1849	1794	1808
85	994	959	914

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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>	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23
<b>2.5</b>	1416.81	1395.05	1423.14	1432.10	1417.42	1411.96	1395.95	1418.35	1411.27	1402.67
<b>5.0</b>	1426.99	1422.05	1400.32	1422.88	1408.52	1418.68	1424.76	1424.37	1394.54	1393.50
<b>7.5</b>	1396.82	1405.93	1389.58	1383.58	1414.18	1395.78	1405.05	1398.70	1401.75	1399.84
<b>10.0</b>	1377.77	1395.61	1401.12	1388.95	1388.74	1391.34	1389.44	1397.04	1394.76	1386.04
<b>12.5</b>	1357.76	1380.42	1362.01	1372.37	1369.05	1372.41	1362.23	1384.75	1368.36	1384.97
<b>15.0</b>	1355.12	1351.27	1341.48	1335.92	1346.23	1337.31	1346.65	1361.13	1363.35	1361.20
<b>17.5</b>	1328.27	1328.08	1325.35	1325.85	1328.32	1329.32	1332.56	1337.86	1328.62	1341.58
<b>20.0</b>	1302.50	1286.54	1291.93	1300.69	1298.20	1314.73	1302.55	1313.36	1321.40	1309.62
<b>22.5</b>	1268.82	1269.12	1265.46	1275.46	1275.72	1280.35	1282.11	1280.51	1297.15	1296.35
<b>25.0</b>	1236.01	1233.45	1229.93	1240.96	1235.60	1242.83	1250.87	1257.07	1274.51	1273.57
<b>27.5</b>	1197.06	1199.13	1196.41	1211.02	1202.23	1214.63	1223.24	1232.34	1242.58	1247.37
<b>30.0</b>	1155.58	1169.55	1170.00	1173.87	1169.88	1178.80	1180.02	1199.06	1213.10	1212.41
<b>32.5</b>	1127.69	1123.38	1129.94	1135.60	1132.26	1138.57	1152.94	1159.93	1176.83	1175.72
<b>35.0</b>	1090.33	1083.31	1084.09	1091.59	1092.73	1101.62	1107.40	1118.74	1131.06	1132.94
<b>37.5</b>	1047.37	1040.16	1050.35	1043.19	1049.54	1063.26	1056.78	1075.61	1098.84	1099.80
<b>40.0</b>	990.77	1002.42	997.07	998.61	1011.42	1014.79	1017.28	1041.13	1051.36	1060.03
<b>42.5</b>	948.34	951.30	946.71	952.46	967.90	971.40	975.28	985.75	1011.46	1015.92
<b>45.0</b>	895.02	889.08	893.28	906.83	916.70	926.25	930.92	947.22	959.62	970.76
<b>47.5</b>	831.16	833.83	841.34	845.47	865.55	869.64	885.79	901.25	912.18	925.23
<b>50.0</b>	765.71	773.62	777.68	793.56	812.71	823.60	834.98	844.86	861.10	870.34
<b>52.5</b>	696.27	707.31	722.87	745.00	752.88	765.86	785.97	795.80	802.89	819.59
<b>55.0</b>	624.22	642.24	658.35	679.86	701.33	720.37	734.67	746.61	754.87	761.44
<b>57.5</b>	557.29	564.86	591.72	624.04	647.28	667.44	682.70	691.22	703.35	706.35
<b>60.0</b>	483.71	495.65	525.65	562.83	592.19	612.18	630.80	642.12	651.70	655.88
<b>62.5</b>	413.76	430.65	459.85	498.08	537.64	563.99	576.61	580.62	593.14	605.78
<b>65.0</b>	347.47	361.72	400.49	438.44	482.81	505.78	525.94	531.63	542.47	550.88
<b>67.5</b>	287.32	299.47	339.00	386.32	426.96	452.75	466.98	482.56	486.99	498.08
<b>70.0</b>	231.75	243.98	279.98	329.79	374.93	397.94	418.37	425.19	432.30	445.02
<b>72.5</b>	182.10	195.46	231.55	280.11	320.30	347.44	365.98	371.75	376.17	385.65
<b>75.0</b>	139.81	153.00	184.84	230.95	269.50	292.82	308.63	315.14	322.48	326.22
<b>77.5</b>	101.92	114.18	149.11	190.47	221.58	246.47	258.19	262.61	265.16	269.86
<b>80.0</b>	75.00	87.50	116.20	148.51	181.53	200.74	207.53	210.45	214.44	217.81
<b>82.5</b>	52.14	64.63	87.72	116.80	141.85	158.70	164.90	169.82	169.99	170.36
<b>85.0</b>	36.88	45.78	65.62	88.18	108.55	122.98	127.44	130.54	133.06	132.80
<b>87.5</b>	24.01	32.94	48.11	66.94	83.71	94.51	100.75	101.05	102.44	101.56
<b>90.0</b>	14.98	21.94	35.12	48.80	64.19	71.63	74.52	76.99	77.19	77.80
<b>92.5</b>	9.24	14.56	24.95	37.26	47.50	52.99	57.44	58.76	58.73	58.90
<b>95.0</b>	6.99	10.41	17.33	26.78	35.11	41.16	43.96	45.33	45.53	45.00
<b>97.5</b>	5.51	6.92	12.17	19.99	25.82	30.76	33.69	35.70	34.36	35.29
<b>100.0</b>	4.36	4.74	8.98	13.65	18.68	23.54	26.42	27.56	29.17	28.00
<b>102.5</b>	3.33	3.98	6.07	10.65	13.97	18.82	20.78	22.36	23.18	23.34
<b>105.0</b>	3.02	3.11	4.25	7.50	11.36	13.30	16.48	17.98	18.74	19.21
<b>107.5</b>	2.48	2.31	3.54	5.63	8.57	10.83	14.08	14.85	15.27	16.43
<b>110.0</b>	2.13	2.27	2.39	3.74	5.91	8.69	11.07	12.61	12.70	12.69
<b>112.5</b>	1.91	1.83	1.75	2.72	4.33	6.78	8.78	9.43	10.74	10.69
<b>115.0</b>	1.44	1.65	1.53	1.89	2.93	5.22	6.65	7.79	8.89	8.81
<b>117.5</b>	1.43	1.48	1.23	1.48	2.11	3.48	5.50	6.34	6.87	7.43
<b>120.0</b>	1.13	1.11	0.88	0.75	1.38	2.57	3.67	4.82	5.56	5.72
<b>122.5</b>	0.85	0.87	0.66	0.40	0.84	1.75	2.55	3.30	4.18	4.03
<b>125.0</b>	0.74	0.85	0.62	0.59	0.29	0.99	1.97	2.53	2.82	3.07
<b>127.5</b>	0.39	0.43	0.33	0.29	0.20	0.55	1.03	1.84	1.95	2.39
<b>130.0</b>	0.40	0.32	0.25	0.28	0.18	0.17	0.55	0.99	1.31	1.49
<b>132.5</b>	0.27	0.22	0.27	0.11	0.07	0.04	0.22	0.36	0.69	0.89

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**CANDELA TABULATION - (Cont.)**

135.0	0.17	0.21	0.10	0.05	0.05	0.02	0.01	0.14	0.37	0.36
137.5	0.13	0.15	0.10	0.05	0.00	0.01	0.00	0.00	0.05	0.04
140.0	0.08	0.07	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.01	0.01	0.01	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									
	100	110	120	130	140	150	160	170	180	190
0.0	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23
2.5	1419.32	1397.07	1423.96	1415.36	1409.69	1431.64	1435.27	1456.45	1439.77	1396.80
5.0	1428.26	1426.01	1418.22	1409.84	1396.93	1413.37	1421.47	1427.23	1419.30	1415.49
7.5	1404.34	1397.54	1405.65	1408.13	1390.27	1395.81	1418.69	1410.51	1405.94	1404.20
10.0	1401.55	1374.80	1398.89	1383.87	1401.77	1397.93	1385.26	1385.15	1392.86	1397.19
12.5	1389.31	1370.63	1372.41	1380.85	1389.12	1381.37	1367.67	1370.89	1386.57	1370.89
15.0	1368.40	1356.96	1357.53	1367.78	1362.95	1361.96	1360.36	1368.50	1357.81	1357.25
17.5	1346.98	1344.40	1338.18	1336.92	1336.97	1339.26	1333.76	1333.05	1332.09	1333.47
20.0	1321.02	1318.83	1316.18	1319.39	1305.14	1321.11	1306.89	1305.49	1315.31	1295.68
22.5	1296.60	1300.11	1291.98	1287.61	1294.40	1288.69	1291.60	1280.87	1288.46	1274.56
25.0	1268.62	1266.92	1263.79	1258.19	1261.76	1253.05	1247.69	1262.71	1255.55	1254.67
27.5	1244.92	1225.25	1232.82	1216.64	1216.68	1223.75	1216.77	1223.88	1225.03	1223.86
30.0	1213.34	1205.37	1199.13	1185.01	1187.74	1189.18	1179.38	1190.88	1179.61	1187.52
32.5	1177.12	1173.80	1152.41	1154.17	1148.12	1147.75	1149.38	1144.60	1142.51	1146.66
35.0	1135.52	1127.22	1123.15	1108.38	1116.17	1107.33	1110.09	1110.84	1108.88	1107.75
37.5	1103.11	1083.32	1082.82	1074.99	1070.93	1064.27	1066.49	1062.37	1059.64	1061.86
40.0	1057.13	1047.41	1033.56	1022.20	1018.94	1024.29	1017.56	1013.29	1017.52	1016.49
42.5	1013.44	1000.27	984.51	985.94	980.33	972.60	969.89	964.54	961.41	971.88
45.0	974.40	954.01	940.40	936.02	935.30	925.85	914.85	918.15	918.54	908.43
47.5	919.11	900.27	894.55	891.48	881.98	868.81	856.99	854.19	850.28	852.79
50.0	863.39	851.83	845.22	842.09	820.14	817.96	798.31	790.45	785.55	792.22
52.5	811.51	804.29	798.03	783.08	776.39	760.62	738.91	733.35	720.22	732.29
55.0	754.76	751.96	745.61	737.85	720.09	702.84	674.14	655.81	656.69	662.78
57.5	706.96	699.13	693.83	683.59	666.61	642.57	614.43	593.11	583.70	597.52
60.0	653.38	643.23	641.58	625.39	609.28	580.23	545.64	526.50	511.73	520.38
62.5	601.35	586.80	584.67	574.48	554.10	521.23	479.83	452.01	443.97	452.44
65.0	547.88	540.16	537.06	520.45	496.47	464.09	418.44	390.37	379.21	392.13
67.5	491.82	484.14	475.69	466.39	446.23	401.38	361.65	327.23	316.38	328.70
70.0	437.77	430.19	423.75	409.09	389.66	348.10	306.62	274.46	258.79	271.79
72.5	383.17	376.28	367.12	359.60	333.90	297.06	252.70	221.21	207.39	223.44
75.0	323.22	318.20	316.36	303.77	282.88	247.59	205.90	176.07	163.88	175.36
77.5	264.69	264.83	263.95	252.79	232.93	200.13	166.67	137.13	124.56	134.53
80.0	216.04	214.35	212.79	205.59	188.66	161.04	130.59	104.13	92.06	103.77

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**CANDELA TABULATION - (Cont.)**

82.5	170.05	170.39	167.54	160.64	148.57	122.81	98.83	77.52	65.30	75.75
85.0	133.26	130.62	130.58	125.29	112.44	94.21	74.35	55.97	46.99	55.55
87.5	101.91	101.41	99.45	95.99	85.28	70.98	55.24	40.55	32.28	39.93
90.0	78.20	77.23	76.78	72.32	63.45	52.39	39.31	26.88	20.05	26.81
92.5	58.38	60.15	58.35	56.22	48.80	38.48	27.55	18.88	12.93	19.65
95.0	45.27	45.38	45.22	41.89	36.09	28.84	21.21	12.54	9.68	11.75
97.5	35.41	35.27	34.46	32.31	27.36	20.75	14.61	8.60	7.33	8.81
100.0	28.29	27.95	27.37	25.65	20.40	15.81	10.90	6.80	6.21	6.69
102.5	23.09	22.47	21.41	19.09	15.75	12.20	8.66	5.33	5.01	5.98
105.0	19.01	18.72	16.88	14.76	11.90	9.06	6.27	4.58	4.18	4.89
107.5	15.01	14.45	14.03	11.67	9.31	6.85	4.87	4.13	4.26	4.03
110.0	13.17	12.84	10.82	9.10	6.91	5.42	4.00	3.68	3.51	3.70
112.5	10.83	9.74	8.62	7.35	5.42	4.36	3.35	3.07	2.85	3.17
115.0	8.22	8.03	6.91	4.95	4.23	2.83	2.79	3.12	2.61	3.11
117.5	6.68	6.48	5.49	3.80	2.91	2.19	2.60	2.44	2.35	2.31
120.0	5.17	4.80	3.70	3.22	1.96	1.66	2.01	2.05	2.17	2.22
122.5	4.16	3.99	2.83	1.68	1.31	1.36	1.62	1.55	1.50	1.65
125.0	2.68	2.89	2.05	1.25	0.64	1.02	1.38	1.37	1.43	1.30
127.5	1.96	1.72	1.09	0.62	0.45	0.86	1.04	1.19	0.90	0.95
130.0	1.32	0.91	0.47	0.17	0.31	0.54	0.66	0.67	0.73	0.78
132.5	0.61	0.55	0.13	0.06	0.12	0.30	0.45	0.48	0.54	0.45
135.0	0.46	0.11	0.01	0.02	0.12	0.31	0.35	0.37	0.37	0.35
137.5	0.04	0.00	0.00	0.00	0.11	0.19	0.18	0.15	0.18	0.27
140.0	0.00	0.00	0.00	0.03	0.03	0.05	0.11	0.07	0.06	0.07
142.5	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.01	0.01
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23
2.5	1427.31	1391.67	1429.37	1445.21	1421.51	1413.77	1436.36	1424.14	1418.85	1417.85
5.0	1430.52	1424.01	1403.63	1419.39	1420.11	1395.39	1411.43	1406.04	1425.17	1430.01
7.5	1413.15	1399.86	1415.22	1409.37	1398.21	1412.42	1404.31	1399.42	1396.20	1413.14
10.0	1388.87	1398.34	1403.06	1384.72	1399.63	1393.77	1391.24	1382.61	1394.24	1384.25
12.5	1384.87	1370.45	1381.74	1385.06	1379.07	1368.21	1375.34	1374.46	1361.18	1372.65
15.0	1349.77	1371.73	1353.58	1361.86	1370.92	1357.06	1360.28	1353.13	1348.28	1354.13
17.5	1339.17	1331.59	1351.71	1339.86	1336.26	1333.08	1346.35	1350.77	1339.58	1341.38
20.0	1316.41	1314.31	1307.23	1317.67	1315.38	1314.18	1323.27	1319.77	1312.45	1311.25
22.5	1289.82	1279.74	1293.06	1288.59	1287.49	1295.62	1290.57	1306.82	1292.18	1284.31
25.0	1260.71	1262.01	1257.08	1251.83	1253.24	1265.06	1269.92	1280.09	1267.83	1261.11
27.5	1221.37	1225.59	1221.15	1211.15	1224.58	1243.70	1240.45	1241.60	1228.37	1225.74

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED4HTVLOWT40120-277V-FL\_S.IES**

**CANDELA TABULATION - (Cont.)**

30.0	1187.69	1186.94	1185.50	1185.98	1193.67	1211.35	1215.90	1213.35	1204.22	1198.28
32.5	1145.52	1146.43	1152.08	1158.71	1159.83	1176.60	1179.78	1177.85	1170.72	1157.71
35.0	1110.81	1106.78	1112.89	1123.73	1120.75	1127.91	1138.39	1139.30	1133.74	1119.48
37.5	1067.27	1065.55	1069.32	1072.23	1080.92	1094.68	1098.53	1102.41	1097.53	1082.24
40.0	1022.34	1016.58	1030.85	1033.44	1037.74	1043.50	1058.88	1066.97	1053.51	1031.26
42.5	969.84	972.90	982.73	990.69	988.85	990.76	1007.77	1015.23	1010.57	983.82
45.0	914.98	918.03	929.21	933.58	941.00	946.45	961.14	970.88	954.91	941.44
47.5	856.97	866.86	881.70	889.62	898.17	900.14	917.17	924.29	909.87	895.09
50.0	801.70	813.18	824.01	836.31	844.62	850.44	867.69	870.84	855.55	842.40
52.5	744.02	765.10	775.05	782.00	798.29	802.06	815.70	812.95	806.63	793.15
55.0	680.36	698.99	718.29	733.12	746.84	749.34	757.41	760.78	752.88	740.80
57.5	609.35	642.60	664.98	679.28	696.74	693.10	705.26	710.31	694.65	688.06
60.0	546.27	584.73	607.78	628.14	631.94	642.15	653.04	658.37	648.19	635.80
62.5	483.36	522.51	556.13	573.56	588.19	594.70	600.36	610.23	595.83	588.60
65.0	421.32	464.82	496.24	516.78	531.84	542.95	544.89	550.63	541.21	529.33
67.5	359.35	402.90	445.21	466.38	480.86	484.01	497.12	497.06	487.92	479.23
70.0	303.86	347.69	386.54	413.80	425.00	430.64	436.84	440.14	436.95	421.78
72.5	255.14	294.84	333.42	355.53	371.04	374.12	378.67	381.83	380.20	372.60
75.0	209.99	245.10	280.75	305.42	313.50	319.02	322.21	324.59	318.87	315.30
77.5	164.71	202.14	232.42	254.22	261.73	268.75	265.05	269.35	266.80	262.45
80.0	131.10	159.80	189.51	206.03	211.10	216.13	215.18	219.24	215.83	211.62
82.5	102.18	125.33	148.26	161.53	170.77	169.12	170.74	172.38	172.04	167.78
85.0	74.42	94.14	113.66	125.48	129.30	130.72	133.45	132.49	129.75	129.61
87.5	54.85	69.78	86.76	95.74	101.69	100.86	101.44	100.86	102.39	101.96
90.0	39.13	51.66	64.97	72.68	75.94	77.61	79.41	77.65	77.87	77.68
92.5	27.74	39.28	49.02	54.82	59.16	58.17	59.94	58.47	58.78	58.87
95.0	20.88	29.03	36.03	41.65	43.74	46.09	45.34	45.84	45.81	45.84
97.5	14.44	21.11	27.89	31.69	35.16	35.69	35.59	35.26	35.43	35.41
100.0	10.11	15.57	20.85	25.17	27.44	28.56	27.36	28.68	28.00	27.31
102.5	8.89	12.15	15.31	19.38	20.51	22.19	23.25	22.29	22.71	23.27
105.0	6.24	9.49	11.68	14.58	17.41	18.33	19.13	19.41	19.50	18.73
107.5	4.89	7.09	9.57	11.49	13.97	14.52	15.64	15.62	15.29	15.11
110.0	4.10	5.52	6.96	9.26	10.56	12.41	13.44	13.48	12.95	11.94
112.5	3.72	4.11	5.54	6.99	8.74	9.68	10.56	10.89	10.79	9.44
115.0	2.96	3.12	3.69	5.39	6.55	8.27	8.93	8.64	8.72	7.73
117.5	2.56	2.45	3.03	4.06	5.40	6.18	6.82	6.79	6.76	6.17
120.0	1.96	1.57	1.92	2.89	4.06	5.02	5.23	5.29	5.38	4.74
122.5	1.49	1.12	1.28	2.07	2.38	3.24	3.91	4.21	3.93	3.14
125.0	1.23	0.90	0.58	1.04	1.97	2.35	2.86	2.82	2.85	2.30
127.5	0.98	0.66	0.42	0.46	1.05	1.86	1.96	1.94	1.85	1.77
130.0	0.59	0.56	0.23	0.19	0.56	0.91	1.50	1.22	1.26	0.85
132.5	0.53	0.39	0.21	0.07	0.16	0.44	0.67	0.79	0.48	0.42
135.0	0.24	0.17	0.11	0.03	0.01	0.10	0.17	0.27	0.27	0.08
137.5	0.17	0.16	0.07	0.01	0.00	0.00	0.00	0.01	0.03	0.00
140.0	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.01	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 : BS100LED4HTVLOWT40120-277V-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**  
**Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
0.0	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23	1422.23
2.5	1417.66	1396.29	1413.52	1413.08	1426.33	1393.65	1417.04
5.0	1411.66	1420.45	1445.01	1414.06	1416.94	1430.15	1426.99
7.5	1396.16	1418.06	1397.03	1406.79	1405.96	1413.74	1396.87
10.0	1404.31	1374.06	1391.54	1374.15	1390.75	1390.41	1377.77
12.5	1380.28	1366.82	1373.48	1354.20	1368.24	1368.71	1357.76
15.0	1352.32	1368.44	1352.79	1344.41	1348.09	1348.85	1355.12
17.5	1348.65	1338.52	1324.08	1312.50	1317.84	1315.65	1328.27
20.0	1313.75	1306.60	1299.84	1303.18	1301.05	1301.08	1302.50
22.5	1275.01	1275.80	1271.32	1271.48	1270.89	1267.95	1268.82
25.0	1251.39	1236.13	1248.64	1239.72	1239.35	1237.15	1236.01
27.5	1225.48	1216.99	1207.47	1202.15	1203.13	1211.65	1197.08
30.0	1180.28	1177.53	1173.46	1168.11	1164.36	1171.68	1155.58
32.5	1148.93	1140.40	1125.96	1127.81	1120.70	1132.35	1127.69
35.0	1104.72	1103.26	1092.28	1090.88	1083.03	1082.80	1090.35
37.5	1067.83	1065.36	1054.33	1046.40	1046.16	1040.37	1047.38
40.0	1023.48	1009.88	1007.18	1001.37	991.94	1002.05	990.77
42.5	974.48	977.08	959.51	952.11	950.78	948.99	948.36
45.0	929.54	920.85	916.22	902.29	897.49	888.52	895.02
47.5	880.36	874.56	862.48	854.37	836.83	832.22	831.16
50.0	832.90	828.95	810.68	794.21	787.10	776.38	765.72
52.5	783.76	773.91	753.18	741.19	720.55	703.38	696.27
55.0	741.47	719.15	701.35	680.99	660.40	638.87	624.22
57.5	682.77	664.76	651.99	624.40	590.55	564.44	557.29
60.0	624.11	616.57	593.35	564.88	525.29	496.66	483.71
62.5	578.08	557.41	537.00	501.75	460.60	429.38	413.76
65.0	527.05	509.53	481.15	438.02	400.42	361.53	347.47
67.5	468.63	453.29	422.92	385.63	335.05	298.46	287.32
70.0	414.31	401.26	376.19	330.10	281.51	241.38	231.76
72.5	363.36	347.33	321.25	279.35	230.74	197.19	182.10
75.0	309.78	297.24	269.04	230.54	187.38	151.83	139.81
77.5	257.48	245.92	222.36	187.63	148.70	114.91	101.92
80.0	207.23	199.42	178.07	148.30	114.75	85.71	75.00
82.5	164.24	158.96	141.31	114.28	88.62	62.75	52.14
85.0	130.29	123.53	108.25	87.54	67.44	46.75	36.91
87.5	99.71	95.51	83.15	65.21	47.51	32.12	24.01
90.0	75.53	73.31	64.64	49.37	34.09	22.54	14.98
92.5	57.84	53.40	47.10	36.26	25.35	14.91	9.25
95.0	43.83	41.07	35.08	27.60	17.91	9.94	7.00
97.5	34.80	31.46	25.56	19.50	12.64	6.84	5.51
100.0	26.19	24.94	19.40	13.74	8.65	5.16	4.36
102.5	21.84	17.95	14.69	10.13	6.31	3.72	3.34
105.0	16.65	14.23	10.56	7.32	4.33	2.97	3.02
107.5	13.91	10.66	8.12	5.82	3.23	2.60	2.48
110.0	10.24	8.90	6.22	3.93	2.33	2.12	2.13
112.5	8.11	6.59	4.37	2.33	1.53	1.91	1.91
115.0	6.72	4.64	3.18	1.53	1.30	1.47	1.44

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED4HTVLOWT40120-277V-FL\_S.IES**

**CANDELA TABULATION - (Cont.)**

117.5	5.26	3.22	2.04	1.12	1.25	1.30	1.44
120.0	3.77	2.73	1.39	0.76	0.90	1.05	1.13
122.5	2.50	1.69	0.69	0.57	0.80	0.84	0.85
125.0	1.67	0.80	0.29	0.27	0.54	0.52	0.74
127.5	1.23	0.38	0.22	0.27	0.49	0.56	0.39
130.0	0.36	0.09	0.11	0.22	0.31	0.33	0.40
132.5	0.10	0.03	0.04	0.22	0.18	0.21	0.27
135.0	0.00	0.01	0.04	0.09	0.19	0.10	0.17
137.5	0.01	0.00	0.04	0.04	0.07	0.12	0.13
140.0	0.00	0.00	0.00	0.05	0.02	0.03	0.08
142.5	0.00	0.00	0.00	0.00	0.00	0.03	0.00
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**  
**PHOTOMETRIC FILENAME : BS100LED4HTVLOWT40120-277V-FL\_S.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	516.84	N.A.	12.70
0-30	1094.69	N.A.	26.90
0-40	1789.47	N.A.	44.00
0-60	3139.5	N.A.	77.10
0-80	3893.78	N.A.	95.70
0-90	4011.26	N.A.	98.60
10-90	3877.00	N.A.	95.30
20-40	1272.63	N.A.	31.30
20-50	1988.15	N.A.	48.80
40-70	1824.24	N.A.	44.80
60-80	754.29	N.A.	18.50
70-80	280.07	N.A.	6.90
80-90	117.48	N.A.	2.90
90-110	51.98	N.A.	1.30
90-120	57.06	N.A.	1.40
90-130	58.50	N.A.	1.40
90-150	58.68	N.A.	1.40
90-180	58.68	N.A.	1.40
110-180	6.69	N.A.	0.20
0-180	4069.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.27
10-20	382.57
20-30	577.85
30-40	694.78
40-50	715.52
50-60	634.50
60-70	474.21
70-80	280.07
80-90	117.48
90-100	38.52
100-110	13.46
110-120	5.08
120-130	1.44
130-140	0.17
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

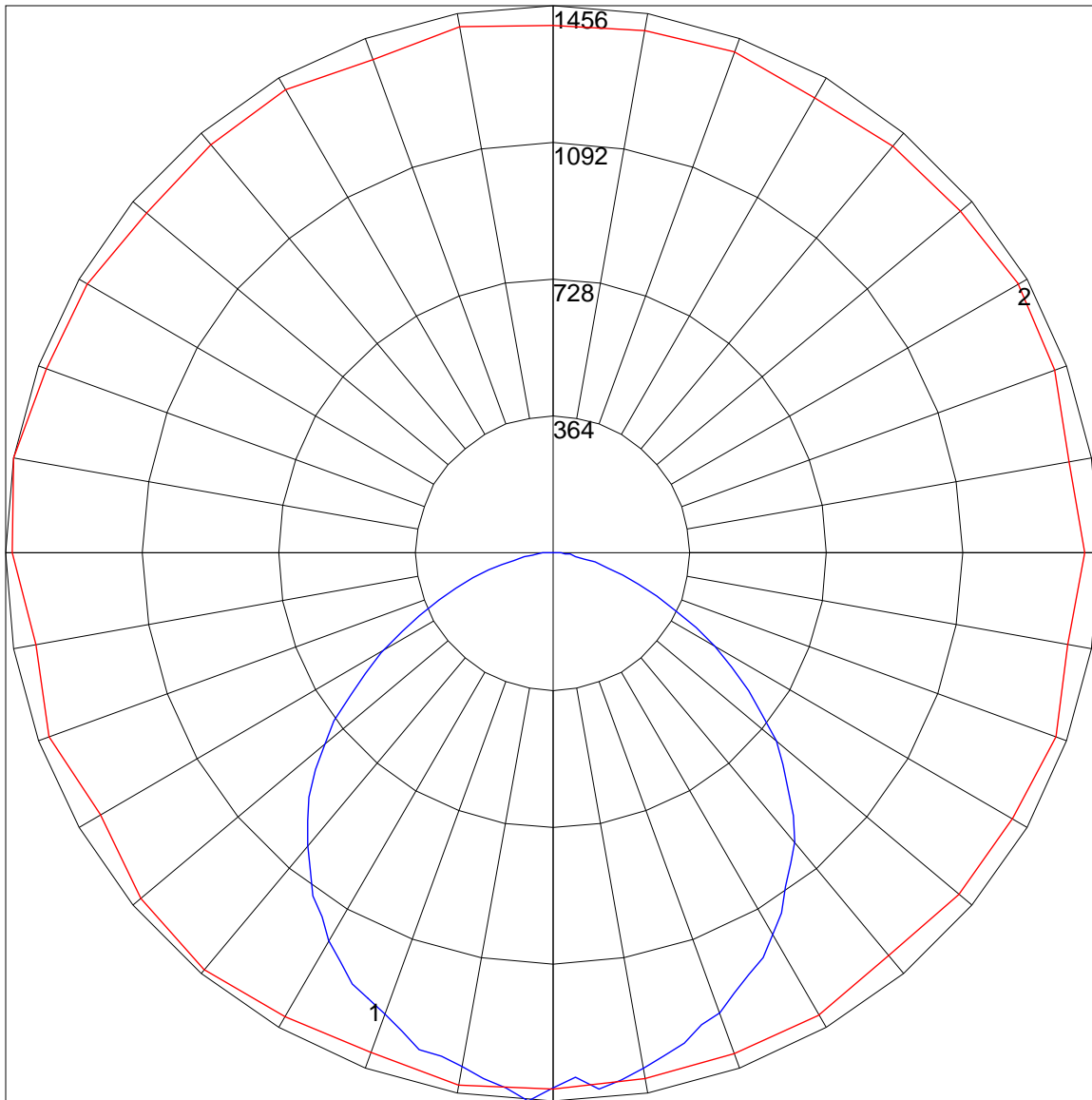
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED4HTVLOWT40120-277V-FL\_S.IES**

**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 = 1456.45 Located At Horizontal Angle = 170, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (170 - 350) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)