



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2SAWT40120-277V-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] Fri Jun 30 13:33:56 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED2SAWT40120-277V-FL

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

[LAMPCAT] SPMWHT541MD-3900K

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 90

[OTHER] Lumens per lamp: 43.6

[OTHER] Input watts: 10

[OTHER] Distribution: Direct

[OTHER] Symmetry: None

[OTHER] Photometric Type: C

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 2.3

[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	1107
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.28 ft
Luminous Width (90-270)	0.55 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	2552	2011	2009
55	2139	1686	1692
65	1567	1305	1357
75	1042	883	917
85	634	462	466

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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>
<b>0.0</b>	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148
<b>2.5</b>	384.180	384.891	390.705	380.253	388.854	385.941	388.101	386.307	379.938	382.143
<b>5.0</b>	378.672	382.761	382.980	378.582	380.865	387.999	379.002	381.039	382.431	389.067
<b>7.5</b>	377.751	370.047	378.948	377.694	375.588	378.141	378.099	385.830	381.807	377.274
<b>10.0</b>	375.369	375.468	372.972	374.700	374.895	379.698	377.091	375.999	373.026	375.102
<b>12.5</b>	370.737	370.869	370.845	373.044	364.935	371.586	374.769	372.363	369.444	371.532
<b>15.0</b>	363.741	365.859	363.867	368.799	366.012	366.012	365.646	364.074	365.958	370.164
<b>17.5</b>	358.194	356.172	361.272	361.482	361.941	363.378	360.213	359.031	359.736	362.307
<b>20.0</b>	352.818	351.657	352.947	350.385	353.562	352.944	356.589	358.326	354.591	352.242
<b>22.5</b>	344.364	344.343	344.274	342.111	341.778	344.718	347.136	348.972	351.075	351.285
<b>25.0</b>	337.263	334.305	335.757	336.180	336.675	336.987	340.467	342.483	341.094	342.474
<b>27.5</b>	327.000	325.257	325.551	327.912	329.280	331.431	331.296	335.310	335.838	335.778
<b>30.0</b>	315.813	316.494	317.847	315.117	319.290	322.587	322.515	325.602	324.651	328.443
<b>32.5</b>	306.045	306.240	305.754	307.974	308.688	308.325	312.705	315.885	318.873	319.212
<b>35.0</b>	293.808	295.806	295.698	296.445	299.403	300.099	299.280	303.993	308.076	310.287
<b>37.5</b>	283.575	281.439	282.915	285.084	288.330	289.704	290.142	292.788	298.251	300.498
<b>40.0</b>	269.877	270.189	270.738	272.601	274.626	277.146	278.307	281.499	285.792	284.853
<b>42.5</b>	255.777	257.610	257.925	258.486	262.068	262.896	265.611	268.797	273.192	273.465
<b>45.0</b>	241.830	242.205	244.368	245.670	249.564	252.771	253.785	255.741	262.344	262.416
<b>47.5</b>	226.404	227.178	228.912	231.729	234.921	238.842	241.869	242.736	248.415	251.022
<b>50.0</b>	208.890	208.680	212.208	216.003	221.949	226.494	228.219	230.799	234.039	237.084
<b>52.5</b>	191.139	194.070	195.813	200.751	206.748	210.729	214.764	217.266	220.014	221.433
<b>55.0</b>	172.995	173.631	179.361	185.496	193.338	197.166	200.808	201.120	205.614	207.177
<b>57.5</b>	153.474	156.090	162.768	170.445	176.769	182.838	185.739	187.233	190.872	194.454
<b>60.0</b>	137.439	138.576	145.479	155.016	162.627	167.736	170.898	174.033	175.527	180.276
<b>62.5</b>	118.914	122.592	126.495	139.632	147.615	152.370	156.147	158.811	162.555	165.600
<b>65.0</b>	101.127	104.757	112.761	122.787	132.447	136.920	142.830	143.694	148.020	149.943
<b>67.5</b>	86.805	89.205	97.419	107.535	118.032	122.415	126.507	130.578	133.761	135.537
<b>70.0</b>	71.682	74.376	83.220	93.369	102.228	108.612	112.236	115.095	118.104	119.769
<b>72.5</b>	59.520	62.394	69.456	78.849	87.921	93.633	97.194	100.371	102.474	103.680
<b>75.0</b>	48.156	50.793	57.648	65.571	74.256	80.118	83.571	84.207	86.724	87.303
<b>77.5</b>	37.866	40.770	46.812	53.997	61.740	66.378	68.676	69.651	70.701	71.493
<b>80.0</b>	30.039	31.842	37.653	43.926	49.308	53.094	56.220	56.451	56.706	57.816
<b>82.5</b>	22.449	25.095	29.133	33.666	39.114	43.257	44.607	45.540	44.916	46.629
<b>85.0</b>	16.824	18.975	21.816	26.118	30.849	32.856	35.004	35.937	36.252	35.934
<b>87.5</b>	12.327	13.968	16.428	20.175	23.877	25.980	27.675	27.624	27.768	28.026
<b>90.0</b>	8.112	9.798	11.955	15.189	17.796	19.665	21.273	21.468	21.306	21.738
<b>92.5</b>	5.619	6.714	9.438	11.589	13.863	15.924	16.254	16.620	16.602	16.755
<b>95.0</b>	4.245	4.947	6.651	8.913	10.551	12.276	12.648	12.663	13.044	13.305
<b>97.5</b>	3.108	3.663	5.295	6.708	8.289	9.435	10.020	10.194	10.164	10.203
<b>100.0</b>	2.799	2.976	4.290	5.550	6.570	7.398	7.971	8.040	8.112	8.307
<b>102.5</b>	2.238	2.523	3.600	4.377	5.322	5.832	6.576	6.693	6.936	6.840
<b>105.0</b>	1.779	2.184	2.766	3.528	4.107	4.833	5.424	5.538	5.595	5.910
<b>107.5</b>	1.791	1.815	2.268	2.880	3.402	3.684	4.440	4.710	4.656	5.016
<b>110.0</b>	1.425	1.569	2.019	2.433	2.757	3.048	3.621	3.876	4.053	4.122
<b>112.5</b>	1.416	1.527	1.725	1.899	2.142	2.562	2.889	3.219	3.198	3.597
<b>115.0</b>	1.170	1.374	1.401	1.548	1.818	2.049	2.487	2.652	2.790	2.793
<b>117.5</b>	1.086	1.119	1.236	1.233	1.398	1.530	1.908	2.295	2.328	2.364
<b>120.0</b>	1.002	0.924	0.981	1.002	1.041	1.203	1.416	1.557	1.815	1.860
<b>122.5</b>	0.792	0.819	0.780	0.747	0.678	0.897	1.119	1.356	1.461	1.584
<b>125.0</b>	0.666	0.633	0.666	0.582	0.639	0.621	0.951	0.951	1.077	1.269
<b>127.5</b>	0.552	0.489	0.456	0.414	0.441	0.546	0.648	0.837	0.897	0.906
<b>130.0</b>	0.426	0.411	0.378	0.369	0.273	0.348	0.459	0.651	0.666	0.699
<b>132.5</b>	0.342	0.285	0.237	0.201	0.141	0.204	0.342	0.411	0.498	0.480

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**CANDELA TABULATION - (Cont.)**

135.0	0.246	0.180	0.165	0.138	0.129	0.135	0.222	0.276	0.330	0.321
137.5	0.120	0.171	0.105	0.057	0.054	0.042	0.105	0.201	0.231	0.261
140.0	0.066	0.066	0.072	0.057	0.039	0.042	0.063	0.117	0.141	0.174
142.5	0.042	0.033	0.042	0.009	0.024	0.018	0.069	0.063	0.081	0.075
145.0	0.006	0.024	0.030	0.018	0.015	0.018	0.015	0.021	0.036	0.039
147.5	0.015	0.039	0.018	0.033	0.027	0.057	0.018	0.021	0.027	0.021
150.0	0.015	0.018	0.051	0.036	0.030	0.024	0.051	0.012	0.036	0.033
152.5	0.072	0.072	0.051	0.039	0.066	0.048	0.069	0.018	0.027	0.015
155.0	0.084	0.114	0.072	0.030	0.111	0.114	0.081	0.075	0.066	0.030
157.5	0.057	0.090	0.138	0.117	0.129	0.126	0.060	0.051	0.066	0.087
160.0	0.114	0.138	0.117	0.120	0.126	0.117	0.162	0.102	0.060	0.084
162.5	0.084	0.087	0.162	0.168	0.144	0.102	0.114	0.066	0.099	0.048
165.0	0.099	0.111	0.144	0.159	0.147	0.081	0.072	0.078	0.111	0.099
167.5	0.162	0.120	0.132	0.108	0.222	0.099	0.135	0.102	0.051	0.222
170.0	0.171	0.069	0.159	0.123	0.147	0.156	0.078	0.123	0.063	0.138
172.5	0.150	0.213	0.108	0.141	0.087	0.069	0.102	0.102	0.069	0.138
175.0	0.105	0.081	0.195	0.108	0.156	0.078	0.081	0.159	0.162	0.135
177.5	0.105	0.264	0.000	0.156	0.060	0.003	0.138	0.213	0.045	0.111
180.0	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0.0	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148
2.5	384.159	384.726	392.094	386.691	384.204	383.520	390.996	376.500	378.897	389.598
5.0	388.929	380.052	382.005	378.471	383.739	384.561	377.169	390.147	385.392	380.520
7.5	378.267	383.736	380.835	382.926	383.343	381.087	376.776	377.439	374.352	386.232
10.0	375.135	374.601	375.165	380.202	376.137	375.045	379.908	374.598	374.247	375.513
12.5	369.891	370.902	373.608	368.976	372.222	371.331	369.648	368.358	370.563	372.183
15.0	366.027	364.710	365.373	367.434	364.167	366.150	366.705	366.078	364.974	366.054
17.5	359.655	358.758	360.918	360.540	359.901	357.576	359.679	357.507	358.170	358.677
20.0	352.740	352.962	355.407	354.582	353.154	352.419	351.867	349.011	351.486	351.069
22.5	348.996	348.102	346.434	347.256	345.246	342.720	345.288	344.841	341.571	341.814
25.0	341.406	338.691	340.527	337.761	337.380	338.742	335.631	334.227	334.881	333.426
27.5	336.399	334.071	331.917	328.620	329.949	325.923	326.550	326.157	325.284	325.890
30.0	328.443	324.693	324.240	321.141	318.900	318.231	317.688	317.025	317.538	319.074
32.5	317.199	314.940	313.689	309.828	307.659	309.618	306.219	306.522	305.946	306.108
35.0	307.308	306.279	300.687	298.950	299.331	297.417	294.300	294.768	295.668	296.871
37.5	298.320	294.717	290.232	288.459	287.007	285.327	283.083	283.020	282.390	283.653
40.0	286.476	283.461	277.029	277.557	273.126	273.237	270.600	273.393	268.641	271.035
42.5	273.669	271.248	267.450	262.878	262.254	259.368	257.565	257.289	256.833	257.265
45.0	261.120	256.611	254.628	251.040	248.178	246.510	245.163	243.144	240.780	243.216
47.5	249.267	244.101	241.986	239.454	234.180	231.606	229.230	225.501	226.617	224.928
50.0	234.021	232.029	229.104	227.517	220.035	216.966	213.741	210.462	208.986	209.739
52.5	217.908	215.796	213.528	212.907	207.252	202.389	196.764	192.594	192.741	192.576
55.0	205.758	201.972	199.419	196.383	192.699	186.336	180.282	175.116	173.181	175.980
57.5	191.295	187.209	186.087	182.703	177.147	172.386	163.527	156.891	154.566	156.570
60.0	176.853	173.061	171.954	167.166	162.129	154.593	146.730	139.653	138.132	140.187
62.5	162.921	159.408	156.375	153.828	146.466	138.150	128.757	122.883	119.826	122.580
65.0	147.573	144.969	142.431	137.019	133.038	124.167	113.631	106.170	103.560	105.507
67.5	133.620	130.596	127.959	123.228	117.483	108.876	98.721	90.417	87.597	90.306
70.0	118.014	115.011	113.550	107.721	102.915	93.438	83.484	75.537	72.771	75.936
72.5	102.639	99.810	98.475	94.758	88.884	80.094	70.212	63.450	60.750	62.757
75.0	85.353	84.069	83.226	80.379	74.385	66.114	58.839	51.255	48.843	51.696
77.5	70.329	69.804	68.136	66.033	61.476	54.186	47.382	41.577	38.445	41.694
80.0	57.114	55.995	55.809	54.027	49.398	43.095	37.734	32.847	29.988	32.943

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**CANDELA TABULATION - (Cont.)**

82.5	45.795	44.955	44.154	42.540	38.799	34.038	29.331	25.059	23.034	25.140
85.0	35.490	35.574	35.217	32.784	30.318	26.046	21.687	18.708	17.454	18.633
87.5	27.972	28.008	27.192	25.641	23.184	19.686	16.605	13.932	12.345	14.091
90.0	21.504	21.453	20.745	19.812	18.171	15.204	12.480	9.927	8.154	10.293
92.5	16.647	16.302	16.191	15.201	13.452	11.634	9.048	7.119	5.889	7.146
95.0	12.654	12.960	12.555	11.595	10.593	8.574	6.768	5.193	4.059	5.082
97.5	10.176	10.158	9.921	9.510	8.094	6.855	5.310	3.888	3.333	3.705
100.0	8.304	8.232	7.845	7.230	6.354	5.301	4.257	2.889	2.640	3.093
102.5	6.663	6.657	6.414	5.898	5.118	4.275	3.477	2.610	2.178	2.496
105.0	5.727	5.634	4.938	4.803	4.365	3.552	2.787	2.202	2.127	2.184
107.5	4.845	4.635	4.335	3.720	3.342	2.859	2.490	1.992	1.794	1.938
110.0	4.002	3.903	3.354	3.054	2.544	2.349	2.001	1.635	1.452	1.686
112.5	3.258	3.294	2.835	2.496	2.079	1.929	1.719	1.353	1.410	1.449
115.0	2.871	2.673	2.292	1.992	1.866	1.521	1.488	1.326	1.257	1.302
117.5	2.277	2.142	1.935	1.518	1.371	1.185	1.098	1.107	1.017	1.167
120.0	1.827	1.689	1.569	1.212	0.972	0.993	0.972	0.984	1.008	0.966
122.5	1.413	1.281	1.200	0.885	0.753	0.729	0.813	0.738	0.753	0.894
125.0	1.155	1.083	0.795	0.702	0.579	0.654	0.621	0.663	0.651	0.612
127.5	0.882	0.792	0.720	0.435	0.405	0.417	0.477	0.534	0.582	0.486
130.0	0.675	0.561	0.534	0.393	0.267	0.318	0.375	0.432	0.429	0.369
132.5	0.444	0.378	0.366	0.231	0.195	0.195	0.294	0.270	0.357	0.297
135.0	0.306	0.303	0.198	0.099	0.102	0.168	0.237	0.279	0.243	0.204
137.5	0.234	0.195	0.108	0.039	0.078	0.093	0.135	0.168	0.192	0.174
140.0	0.132	0.096	0.036	0.027	0.021	0.048	0.039	0.120	0.114	0.099
142.5	0.063	0.039	0.021	0.015	0.015	0.033	0.021	0.039	0.084	0.057
145.0	0.021	0.036	0.030	0.024	0.009	0.009	0.015	0.015	0.027	0.045
147.5	0.015	0.018	0.024	0.024	0.030	0.027	0.012	0.039	0.030	0.027
150.0	0.021	0.027	0.033	0.057	0.033	0.042	0.039	0.042	0.045	0.039
152.5	0.012	0.033	0.024	0.036	0.057	0.051	0.039	0.036	0.045	0.033
155.0	0.057	0.051	0.081	0.051	0.039	0.096	0.102	0.051	0.054	0.045
157.5	0.066	0.084	0.117	0.060	0.099	0.087	0.066	0.111	0.075	0.075
160.0	0.114	0.090	0.084	0.060	0.081	0.135	0.099	0.069	0.099	0.075
162.5	0.123	0.144	0.048	0.087	0.099	0.054	0.081	0.069	0.090	0.069
165.0	0.156	0.132	0.069	0.126	0.090	0.090	0.141	0.105	0.135	0.189
167.5	0.087	0.156	0.156	0.126	0.135	0.066	0.192	0.105	0.087	0.141
170.0	0.117	0.084	0.156	0.084	0.132	0.078	0.141	0.228	0.171	0.162
172.5	0.066	0.150	0.159	0.135	0.240	0.015	0.192	0.141	0.162	0.123
175.0	0.180	0.081	0.165	0.084	0.024	0.138	0.048	0.027	0.111	0.156
177.5	0.171	0.102	0.216	0.144	0.447	0.054	0.054	0.210	0.237	0.054
180.0	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186

**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	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148	383.148
2.5	378.999	394.308	380.124	376.194	379.065	381.105	389.625	378.192	390.609	380.385
5.0	383.979	379.572	380.937	381.357	376.206	381.405	382.689	384.156	381.534	382.569
7.5	378.705	379.623	380.358	377.994	379.281	383.775	377.730	382.698	380.886	382.233
10.0	375.804	371.226	375.144	374.520	375.798	376.425	374.904	374.241	378.414	372.237
12.5	369.498	368.898	372.159	371.436	376.014	371.568	374.235	373.968	371.928	370.299
15.0	362.715	371.250	368.361	365.238	366.321	369.246	368.979	365.202	364.596	367.476
17.5	359.067	359.847	358.122	361.881	361.575	363.156	361.560	363.132	360.522	360.825
20.0	352.455	349.974	349.221	353.265	351.543	354.729	356.346	353.367	356.028	356.073
22.5	342.123	344.412	345.672	344.412	346.386	347.448	349.422	349.341	349.575	348.771
25.0	335.262	338.814	336.000	337.650	340.101	340.482	339.669	342.876	342.309	341.376
27.5	331.146	325.242	328.506	329.511	332.331	333.948	333.591	335.571	335.277	331.671

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED2SAWT40120-277V-FL\_S.IES**

**CANDELA TABULATION - (Cont.)**

30.0	317.892	318.012	319.053	320.112	323.934	324.966	327.975	328.467	326.235	325.668
32.5	307.074	304.053	308.301	311.070	314.112	313.695	316.266	317.268	316.890	317.184
35.0	295.239	294.411	297.543	300.810	299.811	304.539	308.196	307.140	305.874	304.185
37.5	284.739	283.944	286.740	287.655	291.351	293.763	298.302	298.338	297.048	295.890
40.0	272.202	273.426	275.259	275.520	278.655	282.531	287.250	287.007	285.411	282.738
42.5	256.800	258.312	260.214	263.691	267.894	271.107	275.772	274.374	272.853	270.534
45.0	243.348	246.036	249.858	252.222	255.903	256.899	261.621	262.269	263.220	255.798
47.5	228.315	233.079	234.669	240.234	242.949	244.260	249.273	249.963	247.320	244.050
50.0	212.955	217.833	221.883	225.486	228.234	231.927	233.544	235.818	234.504	229.809
52.5	196.335	203.103	207.714	211.344	214.077	217.590	220.866	220.779	219.510	215.982
55.0	181.077	186.957	192.231	198.237	199.698	202.068	206.469	207.159	206.097	202.767
57.5	162.762	171.294	176.982	182.229	185.172	187.428	191.913	193.509	190.656	189.183
60.0	145.785	155.004	164.094	168.600	170.964	174.123	177.276	180.345	177.357	172.401
62.5	129.891	137.961	147.060	153.171	156.828	160.212	163.485	165.369	162.165	159.180
65.0	112.911	123.360	133.761	138.255	142.377	143.946	148.356	150.966	146.910	144.750
67.5	98.856	108.474	117.714	123.390	127.158	129.153	133.290	135.438	133.152	129.723
70.0	84.222	93.492	103.047	108.837	112.512	116.649	117.534	119.262	116.997	116.202
72.5	70.677	79.797	88.038	93.828	98.760	100.116	101.517	103.281	101.223	100.776
75.0	58.524	66.204	74.322	80.451	84.243	84.132	86.547	87.444	86.058	84.201
77.5	47.655	54.456	61.674	66.183	68.685	69.786	70.848	70.956	70.761	70.353
80.0	37.518	43.395	49.866	53.118	55.335	56.787	57.165	58.284	57.753	56.685
82.5	29.214	34.410	38.670	42.855	43.998	44.403	45.630	46.233	45.624	45.096
85.0	21.969	25.938	29.970	33.336	34.476	35.328	36.120	36.753	35.838	35.985
87.5	16.398	19.662	23.184	25.836	27.384	27.831	27.867	28.281	28.020	27.957
90.0	12.357	15.225	17.592	19.584	20.496	21.729	21.810	21.408	21.786	21.735
92.5	9.048	11.439	13.425	15.339	16.194	16.179	16.536	16.575	16.620	16.494
95.0	6.810	8.769	10.302	11.655	12.249	12.600	12.618	12.819	12.774	12.906
97.5	5.208	6.831	8.274	9.147	9.795	10.026	10.203	9.981	10.032	9.933
100.0	4.188	5.325	6.552	7.311	7.989	8.022	8.028	8.376	7.962	8.529
102.5	3.429	4.347	4.998	5.631	6.219	6.615	6.783	6.900	6.876	6.612
105.0	2.910	3.483	4.257	4.842	4.998	5.409	5.736	5.556	5.718	5.766
107.5	2.523	2.805	3.411	3.666	4.188	4.701	4.944	4.959	4.818	4.632
110.0	1.995	2.424	2.796	3.000	3.681	3.918	4.122	4.089	4.008	4.029
112.5	1.773	1.743	2.256	2.526	2.871	3.315	3.426	3.450	3.303	3.303
115.0	1.530	1.533	1.815	1.956	2.250	2.445	2.616	2.826	2.727	2.613
117.5	1.170	1.347	1.467	1.545	1.926	2.124	2.193	2.256	2.268	2.310
120.0	1.089	1.068	0.978	1.305	1.308	1.776	1.920	1.932	1.917	1.803
122.5	0.876	0.864	0.765	0.906	1.191	1.245	1.449	1.506	1.479	1.476
125.0	0.654	0.606	0.558	0.621	0.948	0.981	1.107	1.095	1.173	0.984
127.5	0.489	0.447	0.471	0.492	0.600	0.846	0.909	0.882	0.912	0.894
130.0	0.387	0.375	0.369	0.351	0.426	0.612	0.729	0.639	0.576	0.573
132.5	0.360	0.207	0.207	0.183	0.303	0.438	0.459	0.498	0.483	0.417
135.0	0.210	0.165	0.105	0.117	0.225	0.246	0.294	0.321	0.297	0.276
137.5	0.138	0.102	0.057	0.051	0.093	0.159	0.189	0.234	0.228	0.189
140.0	0.078	0.054	0.054	0.024	0.036	0.096	0.102	0.222	0.135	0.117
142.5	0.039	0.039	0.018	0.030	0.033	0.054	0.033	0.057	0.072	0.054
145.0	0.015	0.021	0.033	0.015	0.033	0.024	0.033	0.042	0.045	0.039
147.5	0.039	0.027	0.024	0.024	0.018	0.006	0.027	0.033	0.030	0.027
150.0	0.039	0.033	0.060	0.036	0.009	0.024	0.012	0.012	0.018	0.018
152.5	0.054	0.054	0.039	0.021	0.045	0.054	0.027	0.015	0.033	0.033
155.0	0.081	0.063	0.108	0.051	0.051	0.042	0.048	0.054	0.045	0.108
157.5	0.105	0.111	0.102	0.105	0.078	0.060	0.066	0.045	0.075	0.069
160.0	0.120	0.120	0.102	0.048	0.114	0.084	0.090	0.087	0.048	0.072
162.5	0.123	0.087	0.099	0.096	0.069	0.102	0.072	0.108	0.093	0.081
165.0	0.144	0.165	0.117	0.141	0.165	0.144	0.138	0.057	0.129	0.147
167.5	0.123	0.237	0.162	0.117	0.108	0.096	0.093	0.159	0.132	0.228

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED2SAWT40120-277V-FL\_S.IES**

**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	0.111	0.093	0.126	0.072	0.126	0.126	0.171	0.222	0.099	0.135
<b>172.5</b>	0.120	0.162	0.189	0.120	0.078	0.165	0.138	0.126	0.102	0.078
<b>175.0</b>	0.105	0.057	0.177	0.030	0.087	0.150	0.207	0.030	0.138	0.108
<b>177.5</b>	0.000	0.150	0.153	0.144	0.063	0.192	0.099	0.210	0.105	0.213
<b>180.0</b>	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186

**Vert. Horizontal Angles**

<b>Angles</b>	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
<b>0.0</b>	383.148	383.148	383.148	383.148	383.148	383.148	383.148
<b>2.5</b>	377.856	382.839	384.513	378.264	376.911	388.563	384.180
<b>5.0</b>	378.279	383.061	377.676	380.628	384.186	380.901	378.672
<b>7.5</b>	380.757	379.044	381.330	382.509	375.600	378.657	377.769
<b>10.0</b>	376.713	377.958	374.568	379.218	377.076	377.610	375.384
<b>12.5</b>	374.562	376.734	372.273	372.600	367.443	369.003	370.737
<b>15.0</b>	367.134	367.308	363.678	365.046	364.239	366.081	363.750
<b>17.5</b>	358.353	361.239	358.833	357.954	355.134	360.297	358.194
<b>20.0</b>	351.720	352.971	353.250	351.825	351.546	351.003	352.818
<b>22.5</b>	347.721	349.236	343.356	342.864	345.009	341.283	344.364
<b>25.0</b>	341.655	337.758	336.018	334.770	335.655	333.675	337.263
<b>27.5</b>	330.729	328.152	324.741	326.601	323.721	324.717	327.000
<b>30.0</b>	324.786	321.972	318.246	317.727	316.248	316.503	315.813
<b>32.5</b>	311.430	308.445	307.935	307.854	306.144	305.325	306.045
<b>35.0</b>	302.466	299.592	298.116	295.683	295.356	296.082	293.808
<b>37.5</b>	292.005	287.562	287.412	284.607	283.263	282.024	283.575
<b>40.0</b>	278.538	277.836	276.240	273.651	270.816	270.942	269.877
<b>42.5</b>	267.867	264.123	263.526	258.600	257.901	256.347	255.777
<b>45.0</b>	256.842	251.025	249.417	247.398	244.716	241.170	241.830
<b>47.5</b>	241.485	239.445	233.625	233.508	228.822	227.283	226.404
<b>50.0</b>	228.897	225.183	221.073	215.259	211.995	209.307	208.890
<b>52.5</b>	214.911	212.859	208.377	201.264	195.927	192.504	191.139
<b>55.0</b>	201.528	196.674	192.747	186.165	180.237	174.180	172.998
<b>57.5</b>	185.931	182.589	177.609	172.467	164.181	156.837	153.477
<b>60.0</b>	171.027	168.258	161.442	155.496	146.061	139.065	137.439
<b>62.5</b>	155.961	152.712	148.383	139.338	129.147	121.797	118.914
<b>65.0</b>	142.029	139.377	132.606	123.528	113.550	104.655	101.130
<b>67.5</b>	127.389	123.459	116.955	107.862	97.569	89.370	86.808
<b>70.0</b>	112.758	109.275	102.801	93.054	83.163	75.189	71.682
<b>72.5</b>	98.781	94.338	87.702	80.175	70.041	62.112	59.520
<b>75.0</b>	83.034	79.746	74.688	66.225	58.002	50.877	48.156
<b>77.5</b>	68.748	66.603	61.005	54.693	47.295	41.214	37.866
<b>80.0</b>	55.758	53.601	49.998	43.275	37.011	32.166	30.039
<b>82.5</b>	45.033	42.705	38.952	34.437	28.836	25.005	22.449
<b>85.0</b>	34.731	33.318	30.126	26.292	22.557	18.414	16.824
<b>87.5</b>	27.333	25.923	23.352	19.179	16.716	13.764	12.327
<b>90.0</b>	21.150	19.800	18.183	15.147	12.312	9.984	8.112
<b>92.5</b>	16.116	15.237	13.968	11.637	9.234	6.900	5.619
<b>95.0</b>	12.570	11.865	10.746	9.009	6.975	5.145	4.245
<b>97.5</b>	10.032	9.180	8.244	6.768	5.391	3.849	3.108
<b>100.0</b>	7.959	7.332	6.606	5.685	4.167	2.994	2.799
<b>102.5</b>	6.348	5.820	5.382	4.242	3.411	2.412	2.238
<b>105.0</b>	5.313	4.791	4.065	3.582	2.877	2.190	1.779
<b>107.5</b>	4.365	3.960	3.333	2.949	2.406	1.887	1.791
<b>110.0</b>	3.654	2.997	2.799	2.538	1.983	1.728	1.425
<b>112.5</b>	2.988	2.559	2.331	1.944	1.818	1.407	1.416
<b>115.0</b>	2.373	2.055	1.812	1.578	1.437	1.308	1.170

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED2SAWT40120-277V-FL\_S.IES**

**CANDELA TABULATION - (Cont.)**

117.5	1.800	1.554	1.455	1.296	1.212	1.047	1.086
120.0	1.377	1.188	0.891	0.957	1.014	0.897	1.002
122.5	1.137	0.957	0.828	0.747	0.807	0.843	0.792
125.0	0.897	0.675	0.543	0.612	0.705	0.612	0.666
127.5	0.618	0.489	0.405	0.420	0.501	0.471	0.552
130.0	0.432	0.342	0.267	0.315	0.375	0.441	0.426
132.5	0.294	0.177	0.159	0.231	0.252	0.324	0.345
135.0	0.195	0.111	0.093	0.144	0.246	0.216	0.246
137.5	0.090	0.045	0.060	0.102	0.150	0.150	0.120
140.0	0.051	0.039	0.036	0.054	0.060	0.111	0.066
142.5	0.012	0.015	0.027	0.021	0.021	0.057	0.042
145.0	0.018	0.042	0.006	0.036	0.015	0.015	0.006
147.5	0.018	0.006	0.033	0.027	0.015	0.030	0.015
150.0	0.027	0.051	0.021	0.039	0.030	0.039	0.015
152.5	0.060	0.042	0.054	0.063	0.048	0.060	0.072
155.0	0.066	0.063	0.114	0.051	0.048	0.081	0.084
157.5	0.087	0.096	0.072	0.102	0.090	0.111	0.057
160.0	0.066	0.138	0.048	0.087	0.126	0.090	0.114
162.5	0.132	0.138	0.099	0.165	0.111	0.183	0.084
165.0	0.189	0.156	0.132	0.084	0.087	0.132	0.099
167.5	0.156	0.177	0.105	0.123	0.156	0.114	0.162
170.0	0.114	0.168	0.102	0.150	0.081	0.177	0.171
172.5	0.117	0.105	0.141	0.189	0.018	0.174	0.150
175.0	0.252	0.123	0.135	0.126	0.168	0.081	0.105
177.5	0.045	0.192	0.090	0.054	0.162	0.144	0.105
180.0	0.186	0.186	0.186	0.186	0.186	0.186	0.186



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED2SAWT40120-277V-FL\_S.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	139.54	N.A.	12.60
0-30	295.40	N.A.	26.70
0-40	483.11	N.A.	43.60
0-60	848.29	N.A.	76.60
0-80	1054.67	N.A.	95.30
0-90	1087.9	N.A.	98.30
10-90	1051.62	N.A.	95.00
20-40	343.57	N.A.	31.00
20-50	536.97	N.A.	48.50
40-70	494.45	N.A.	44.70
60-80	206.38	N.A.	18.60
70-80	77.11	N.A.	7.00
80-90	33.23	N.A.	3.00
90-110	16.21	N.A.	1.50
90-120	18.24	N.A.	1.60
90-130	18.98	N.A.	1.70
90-150	19.18	N.A.	1.70
90-180	19.26	N.A.	1.70
110-180	3.05	N.A.	0.30
0-180	1107.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.28
10-20	103.26
20-30	155.87
30-40	187.70
40-50	193.40
50-60	171.78
60-70	129.27
70-80	77.11
80-90	33.23
90-100	11.60
100-110	4.61
110-120	2.03
120-130	0.74
130-140	0.18
140-150	0.02
150-160	0.03
160-170	0.03
170-180	0.01

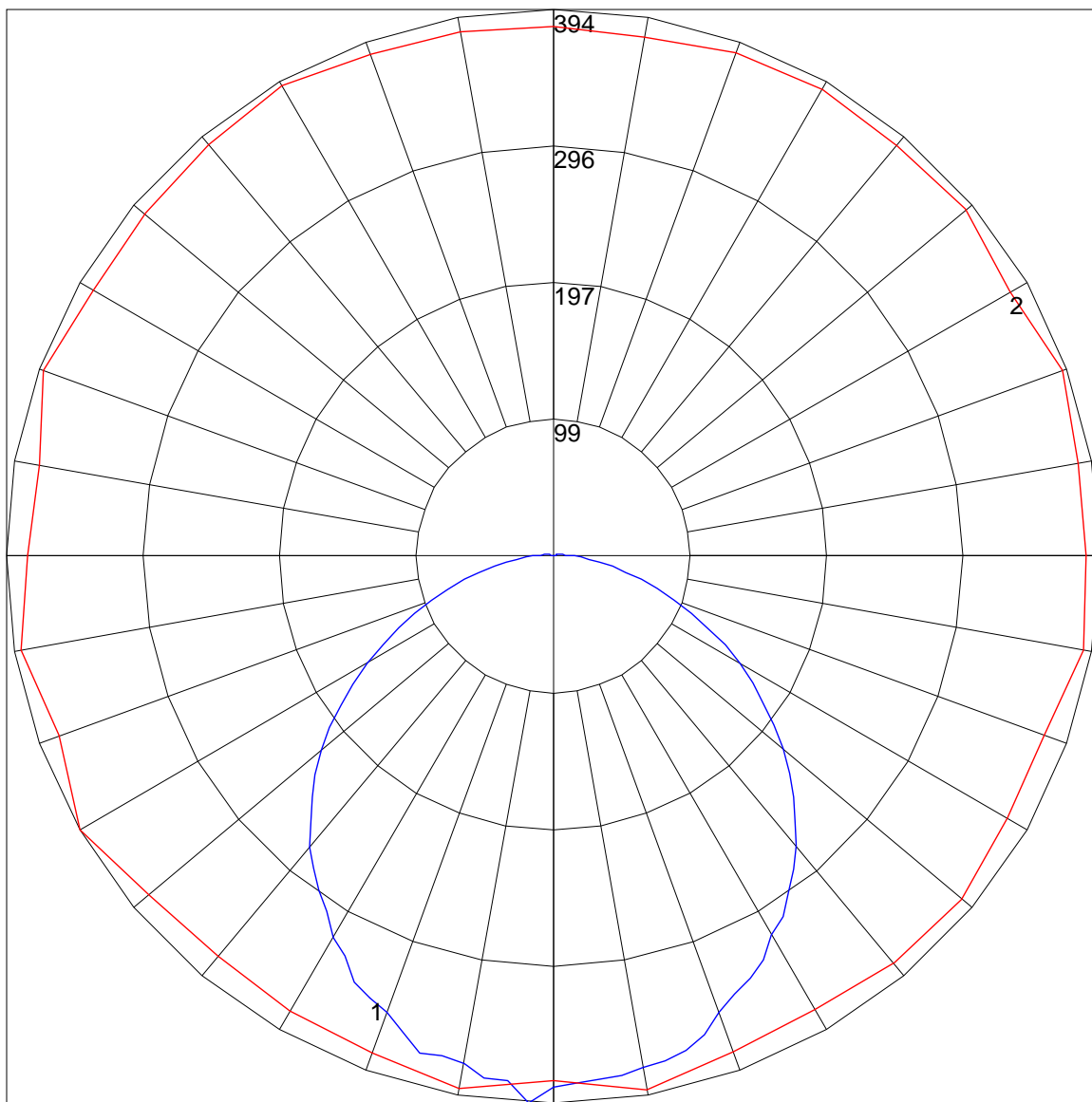
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED2SAWT40120-277V-FL\_S.IES**

**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	100	100	100	98
1	108	103	99	94	105	100	96	93	96	93	90	92	89	86	88	86	84	81
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	60	68	63	59	57
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	61	55	51	49
5	75	62	53	46	73	61	53	46	59	51	45	56	50	45	54	49	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24

POLAR GRAPH



Maximum Candela = 394.308 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 (2.5) (Through Max. Cd.)