



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4SAWT40120V-277V-FL\_PRO.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 10:44:12 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED4SAWT40120V-277V-F[\_PRO

[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: 33.4

[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: 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	1135
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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)	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	1441	1104	1077
55	1213	934	909
65	877	735	729
75	515	502	509
85	281	267	258

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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>	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466
<b>2.5</b>	391.568	398.582	396.814	398.358	400.706	403.780	398.910	391.786	395.380	398.974
<b>5.0</b>	396.800	396.866	395.714	390.766	395.796	396.318	400.004	395.934	390.736	393.692
<b>7.5</b>	389.750	389.512	388.000	391.830	388.012	387.214	390.538	393.676	390.644	392.850
<b>10.0</b>	386.700	385.874	390.898	383.610	386.190	385.296	390.910	387.688	386.116	389.608
<b>12.5</b>	380.972	380.114	379.088	380.956	377.876	384.360	381.918	385.138	384.294	385.184
<b>15.0</b>	373.604	372.884	377.780	376.300	378.304	374.812	374.172	380.290	378.452	379.040
<b>17.5</b>	368.582	370.624	368.344	368.720	370.302	370.018	371.368	373.532	372.034	368.562
<b>20.0</b>	361.684	363.780	361.858	361.306	361.188	362.254	362.304	367.168	367.074	366.458
<b>22.5</b>	354.532	351.454	353.020	351.890	353.304	357.146	357.830	360.590	363.686	360.898
<b>25.0</b>	343.794	343.532	344.428	344.172	346.580	349.776	348.182	350.894	353.234	355.128
<b>27.5</b>	337.568	337.710	334.182	335.472	336.408	339.236	339.490	342.802	343.738	347.650
<b>30.0</b>	324.322	323.344	323.604	326.476	325.794	327.792	329.622	334.388	334.762	339.998
<b>32.5</b>	311.996	314.710	314.110	315.530	316.038	316.886	319.386	324.534	326.784	327.584
<b>35.0</b>	303.236	303.444	302.998	305.476	304.214	307.420	310.528	312.278	316.628	316.844
<b>37.5</b>	292.058	291.358	290.328	292.220	293.648	295.924	296.848	298.236	305.984	309.560
<b>40.0</b>	277.988	277.480	278.748	278.302	281.310	284.728	286.716	290.330	292.230	296.614
<b>42.5</b>	263.158	264.612	265.050	265.618	268.464	270.050	274.002	275.832	280.022	285.216
<b>45.0</b>	249.308	249.010	251.032	249.722	255.692	257.582	259.512	261.620	268.370	269.116
<b>47.5</b>	231.550	232.344	234.200	236.854	240.446	243.676	246.820	249.200	254.434	258.010
<b>50.0</b>	214.308	216.666	218.826	221.268	226.038	229.206	232.394	234.394	239.932	242.132
<b>52.5</b>	195.152	195.990	200.732	207.514	209.656	215.472	217.268	222.574	224.588	226.868
<b>55.0</b>	175.488	177.484	183.354	189.928	197.332	201.478	204.534	206.948	209.862	212.296
<b>57.5</b>	155.564	159.092	164.824	173.110	180.748	187.436	190.708	191.356	195.912	197.070
<b>60.0</b>	134.374	138.658	145.654	156.520	164.786	171.358	175.622	177.536	179.518	183.156
<b>62.5</b>	117.002	121.036	128.220	140.432	149.180	156.216	161.196	162.380	165.452	169.634
<b>65.0</b>	98.006	100.570	111.350	123.384	134.322	142.006	146.062	148.888	151.608	153.310
<b>67.5</b>	80.562	84.448	94.700	107.248	118.638	126.600	131.592	134.864	136.178	138.354
<b>70.0</b>	63.954	68.906	79.312	92.066	104.728	111.690	117.748	118.718	122.650	122.492
<b>72.5</b>	50.280	54.972	64.052	77.770	88.936	97.056	100.750	103.672	105.732	106.822
<b>75.0</b>	38.936	42.046	52.836	64.830	75.380	81.988	86.446	87.994	89.342	91.782
<b>77.5</b>	28.624	32.402	41.598	52.022	61.944	68.010	71.054	72.728	73.564	74.436
<b>80.0</b>	20.968	24.452	32.284	41.090	50.558	56.282	57.712	58.960	59.912	60.912
<b>82.5</b>	14.552	17.850	24.536	32.106	39.440	44.592	46.052	46.972	47.470	48.308
<b>85.0</b>	10.416	13.114	18.638	24.728	30.030	34.502	35.792	36.696	37.398	37.464
<b>87.5</b>	7.034	9.166	13.256	18.016	23.532	26.270	27.162	28.052	28.606	28.414
<b>90.0</b>	4.320	6.192	9.782	13.606	17.586	19.834	21.566	21.474	21.524	21.386
<b>92.5</b>	2.688	4.256	6.880	10.136	13.004	15.328	15.988	16.598	16.178	16.382
<b>95.0</b>	1.932	2.748	5.098	7.316	9.914	11.318	12.376	12.416	12.942	12.394
<b>97.5</b>	1.554	1.870	3.714	5.414	7.284	8.732	9.300	9.528	9.618	9.986
<b>100.0</b>	1.140	1.422	2.448	4.032	5.426	6.604	7.454	7.624	7.800	7.698
<b>102.5</b>	0.826	1.032	1.692	3.082	4.100	5.094	5.924	6.168	6.258	6.516
<b>105.0</b>	0.870	0.912	1.254	2.148	3.090	3.838	4.858	5.230	5.258	5.266
<b>107.5</b>	0.684	0.714	0.838	1.434	2.170	3.110	3.660	4.094	4.538	4.404
<b>110.0</b>	0.582	0.628	0.668	1.060	1.778	2.348	2.954	3.224	3.584	3.796
<b>112.5</b>	0.540	0.526	0.512	0.702	1.152	1.738	2.310	2.762	3.002	2.916
<b>115.0</b>	0.376	0.464	0.410	0.522	0.852	1.334	1.904	2.100	2.364	2.310
<b>117.5</b>	0.328	0.362	0.290	0.296	0.560	0.972	1.448	1.646	2.056	1.996
<b>120.0</b>	0.286	0.290	0.276	0.228	0.422	0.726	1.012	1.402	1.520	1.496
<b>122.5</b>	0.250	0.234	0.206	0.172	0.224	0.432	0.782	0.934	1.156	1.236
<b>125.0</b>	0.158	0.204	0.164	0.116	0.102	0.252	0.484	0.738	0.776	0.834
<b>127.5</b>	0.158	0.108	0.118	0.096	0.060	0.152	0.290	0.470	0.572	0.594
<b>130.0</b>	0.098	0.116	0.086	0.066	0.026	0.044	0.128	0.266	0.342	0.366
<b>132.5</b>	0.080	0.072	0.070	0.044	0.008	0.010	0.046	0.084	0.176	0.212

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**CANDELA TABULATION - (Cont.)**

135.0	0.052	0.042	0.032	0.020	0.010	0.000	0.000	0.024	0.134	0.118
137.5	0.026	0.036	0.036	0.018	0.004	0.004	0.000	0.000	0.018	0.016
140.0	0.018	0.022	0.016	0.012	0.004	0.000	0.000	0.000	0.000	0.000
142.5	0.006	0.012	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.004	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466
2.5	396.282	395.632	399.608	397.598	388.094	399.270	403.168	398.342	397.544	397.682
5.0	394.168	393.956	397.160	396.438	398.154	398.266	396.258	399.550	394.232	394.988
7.5	392.986	396.104	392.116	391.232	390.440	390.808	394.994	393.540	392.750	397.162
10.0	387.794	391.820	388.786	388.434	390.236	389.018	390.500	394.994	387.066	390.390
12.5	383.900	381.592	384.218	385.708	383.356	387.184	383.264	385.168	380.830	383.578
15.0	378.608	379.456	377.648	377.910	376.804	378.024	376.856	378.088	377.508	380.532
17.5	374.838	372.300	376.756	368.612	371.978	377.492	374.418	375.674	369.364	372.596
20.0	366.006	367.040	367.516	366.264	366.488	365.732	363.846	364.426	365.392	366.376
22.5	361.278	361.688	358.074	360.368	358.798	355.840	353.248	355.104	359.724	359.362
25.0	355.218	353.664	350.384	349.932	349.674	350.018	349.042	348.998	346.950	349.874
27.5	345.756	345.434	342.672	339.822	338.734	340.862	339.378	339.992	340.696	340.052
30.0	338.524	337.206	335.436	330.572	330.544	329.924	328.714	327.904	332.284	330.390
32.5	327.628	324.384	323.864	321.958	320.806	321.184	320.556	321.346	319.242	320.838
35.0	317.648	312.614	312.656	310.782	310.342	306.952	309.314	309.478	310.260	309.282
37.5	307.260	303.566	300.084	299.562	296.002	298.180	297.068	296.144	296.320	295.072
40.0	295.306	291.806	288.192	286.190	286.788	284.548	284.854	282.576	283.602	283.910
42.5	282.590	278.540	275.810	276.328	274.484	270.330	269.882	269.516	268.762	270.576
45.0	269.310	265.342	262.386	261.118	259.646	258.062	255.172	254.340	251.900	255.230
47.5	255.818	253.308	249.446	248.494	246.622	243.432	239.800	238.764	238.210	239.446
50.0	240.844	238.220	234.322	231.744	230.364	227.246	223.032	218.858	219.034	220.760
52.5	225.576	223.410	220.772	219.552	215.434	211.390	206.476	202.676	202.608	203.830
55.0	211.810	208.376	207.856	203.970	199.654	195.624	189.216	183.234	181.660	183.482
57.5	197.932	193.004	192.856	189.470	185.332	179.136	170.872	164.900	161.554	164.902
60.0	182.968	178.760	178.196	175.178	169.988	163.000	152.596	145.474	143.964	144.692
62.5	166.848	164.250	163.026	160.486	153.578	145.036	135.486	126.548	123.586	127.250
65.0	152.890	149.904	149.046	144.972	138.226	129.674	116.438	108.538	104.670	108.492
67.5	136.856	135.654	133.068	129.590	122.576	112.368	100.020	91.812	87.958	92.394
70.0	121.600	120.718	119.234	114.044	109.050	96.890	85.056	75.702	72.192	75.426
72.5	106.082	104.696	103.412	99.958	92.496	83.774	71.018	61.736	58.214	61.874
75.0	90.798	88.842	88.194	84.812	78.160	69.524	57.860	49.010	44.906	48.538
77.5	74.032	73.898	73.106	70.164	65.394	55.656	46.904	38.282	34.926	37.776
80.0	59.380	59.698	58.782	57.232	52.540	44.682	36.920	28.558	25.400	28.702

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**CANDELA TABULATION - (Cont.)**

82.5	47.818	47.710	46.914	45.170	40.524	34.616	27.898	21.478	18.638	21.604
85.0	37.228	37.508	36.630	34.720	31.478	26.482	20.444	15.686	13.012	15.510
87.5	28.898	28.426	28.424	26.902	23.960	19.766	15.432	11.130	8.838	11.200
90.0	21.452	21.814	21.314	20.672	18.464	14.998	11.098	7.560	5.686	7.510
92.5	16.310	16.728	16.078	15.676	13.296	10.628	7.894	5.052	3.758	5.120
95.0	12.976	12.826	12.552	11.582	10.156	8.268	5.654	3.404	2.596	3.334
97.5	9.688	9.996	9.574	8.806	7.566	5.860	4.084	2.554	2.056	2.490
100.0	7.792	7.778	7.420	6.756	5.688	4.408	3.054	1.918	1.842	1.808
102.5	6.418	6.216	5.792	5.226	4.458	3.266	2.370	1.458	1.322	1.578
105.0	5.296	5.104	4.632	4.210	3.482	2.598	1.838	1.228	1.220	1.268
107.5	4.236	4.156	3.816	3.022	2.540	1.868	1.332	1.112	0.990	1.098
110.0	3.650	3.390	3.012	2.572	2.058	1.576	1.116	1.092	0.996	1.048
112.5	2.838	2.812	2.350	2.034	1.478	1.170	0.940	0.950	0.964	0.920
115.0	2.446	2.144	1.870	1.462	1.094	0.806	0.816	0.768	0.768	0.866
117.5	1.832	1.676	1.586	1.116	0.718	0.656	0.596	0.626	0.624	0.708
120.0	1.472	1.494	1.138	0.734	0.544	0.516	0.530	0.478	0.554	0.604
122.5	1.214	0.912	0.722	0.540	0.312	0.352	0.454	0.474	0.372	0.510
125.0	0.774	0.614	0.546	0.280	0.216	0.234	0.354	0.304	0.380	0.382
127.5	0.604	0.490	0.250	0.174	0.122	0.176	0.172	0.254	0.282	0.304
130.0	0.380	0.274	0.148	0.072	0.052	0.132	0.160	0.180	0.220	0.208
132.5	0.208	0.106	0.076	0.004	0.042	0.090	0.146	0.116	0.136	0.168
135.0	0.080	0.046	0.004	0.022	0.012	0.066	0.066	0.090	0.112	0.080
137.5	0.004	0.000	0.004	0.006	0.010	0.022	0.040	0.070	0.050	0.046
140.0	0.000	0.000	0.000	0.000	0.008	0.006	0.016	0.032	0.014	0.034
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.004	0.008
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466	394.466
2.5	393.066	406.680	398.796	400.190	404.980	391.098	403.438	399.762	394.356	397.612
5.0	397.814	394.836	394.732	398.604	392.240	390.576	402.092	389.284	398.008	389.112
7.5	390.258	398.102	394.118	393.382	392.582	390.498	389.402	391.364	387.198	392.126
10.0	392.318	388.414	387.690	385.980	388.436	385.612	386.948	387.466	386.222	381.268
12.5	385.476	384.208	379.104	379.812	387.494	386.406	386.348	382.226	382.746	383.418
15.0	379.670	379.202	382.680	382.450	375.640	376.920	379.004	378.300	377.120	379.666
17.5	372.824	370.812	371.300	371.582	371.648	371.014	373.048	371.820	373.634	373.142
20.0	362.656	365.986	366.724	368.410	365.924	368.830	367.994	367.508	368.024	365.898
22.5	358.204	353.436	356.844	359.242	358.244	360.936	360.482	364.238	362.644	357.770
25.0	347.154	348.226	349.612	347.662	350.336	354.356	357.228	355.046	354.602	351.202
27.5	338.696	340.960	342.512	341.412	341.870	342.540	345.074	347.732	347.710	342.074

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**CANDELA TABULATION - (Cont.)**

30.0	330.318	330.652	332.336	330.812	330.520	334.692	338.776	337.676	334.236	333.160
32.5	320.790	320.658	320.686	321.964	322.858	327.002	328.776	326.942	326.344	326.010
35.0	308.096	309.042	308.320	310.220	310.916	315.060	318.946	316.958	317.538	314.170
37.5	297.130	295.876	299.194	299.570	300.686	305.332	307.710	308.872	306.314	301.440
40.0	284.688	283.842	285.056	288.750	290.160	290.542	295.366	296.964	293.706	290.626
42.5	270.558	270.988	272.488	276.490	274.460	278.126	281.098	284.348	280.816	275.554
45.0	254.304	256.040	260.184	261.506	262.156	264.484	268.456	269.518	268.174	262.762
47.5	239.910	243.006	245.574	248.208	248.572	250.792	255.138	257.774	254.072	248.766
50.0	223.622	227.074	230.808	232.334	237.138	238.662	242.304	241.910	239.202	235.316
52.5	206.132	212.354	214.392	219.104	222.308	224.352	225.036	229.292	226.700	222.342
55.0	188.428	194.356	200.658	204.628	206.970	209.038	210.440	213.018	209.962	207.026
57.5	170.336	179.208	185.126	190.928	193.354	194.334	195.642	197.958	195.274	191.904
60.0	152.028	162.408	169.242	173.700	177.562	179.098	182.858	182.838	180.414	177.766
62.5	134.104	145.328	154.160	159.512	162.958	166.420	167.028	169.922	166.048	163.620
65.0	117.256	128.900	138.504	143.982	148.568	150.290	152.198	151.976	150.638	148.696
67.5	100.190	112.844	123.622	129.608	132.796	135.404	136.606	138.784	136.192	133.474
70.0	84.988	97.258	108.144	115.552	118.872	120.568	121.318	123.048	121.262	118.260
72.5	70.834	81.598	93.626	99.862	103.284	104.028	105.852	107.328	105.640	101.936
75.0	58.236	69.228	78.498	85.466	88.402	88.828	89.384	90.938	89.024	87.888
77.5	46.850	56.540	64.670	70.300	73.514	73.466	74.942	75.068	73.980	72.630
80.0	37.182	45.374	52.288	57.348	59.750	59.300	60.498	60.608	59.234	59.128
82.5	28.016	34.658	40.674	44.646	46.776	46.994	47.130	48.450	47.126	47.090
85.0	20.998	26.514	31.876	35.542	36.430	37.234	37.368	37.076	37.290	36.706
87.5	15.334	19.568	24.050	26.472	28.030	28.332	28.914	28.132	28.862	28.550
90.0	11.052	14.488	17.854	20.422	21.482	21.620	21.978	21.884	21.632	21.804
92.5	7.848	11.144	13.510	15.108	16.062	16.536	16.362	16.276	16.606	16.382
95.0	5.688	8.002	10.146	11.796	12.450	12.722	12.640	12.590	12.676	12.416
97.5	4.220	5.942	7.700	8.622	9.480	9.906	9.876	9.698	9.800	9.774
100.0	3.046	4.520	5.716	6.830	7.478	7.698	7.804	7.832	7.696	7.800
102.5	2.206	3.268	4.292	5.258	5.894	6.558	6.402	6.204	6.432	6.290
105.0	1.756	2.450	3.440	4.122	4.876	5.244	5.232	5.418	5.484	5.194
107.5	1.300	1.920	2.616	3.248	3.858	4.124	4.382	4.322	4.346	4.100
110.0	1.116	1.492	2.028	2.526	3.060	3.500	3.660	3.834	3.528	3.426
112.5	0.958	1.132	1.472	2.018	2.474	2.908	2.976	3.056	3.088	2.918
115.0	0.832	0.752	1.050	1.402	1.874	2.216	2.350	2.382	2.476	2.062
117.5	0.630	0.604	0.786	1.038	1.516	1.748	1.890	1.818	1.892	1.758
120.0	0.592	0.470	0.512	0.710	1.016	1.382	1.418	1.506	1.396	1.364
122.5	0.440	0.340	0.324	0.498	0.740	0.942	1.070	1.158	1.026	0.864
125.0	0.348	0.282	0.142	0.340	0.546	0.590	0.770	0.834	0.728	0.650
127.5	0.258	0.162	0.124	0.162	0.322	0.438	0.498	0.680	0.558	0.454
130.0	0.182	0.160	0.086	0.048	0.138	0.260	0.356	0.392	0.306	0.302
132.5	0.112	0.072	0.040	0.024	0.026	0.104	0.174	0.202	0.184	0.124
135.0	0.062	0.076	0.026	0.008	0.000	0.010	0.074	0.072	0.054	0.026
137.5	0.026	0.030	0.014	0.006	0.000	0.000	0.004	0.006	0.000	0.000
140.0	0.022	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.004	0.000	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	394.466	394.466	394.466	394.466	394.466	394.466	394.466
2.5	403.014	395.300	397.076	397.054	398.698	393.834	391.626
5.0	396.128	394.930	390.618	392.026	394.516	387.800	396.800
7.5	395.784	389.174	392.146	396.440	388.922	391.936	389.750
10.0	385.730	386.610	384.574	388.558	384.590	390.164	386.714
12.5	383.316	379.880	378.468	379.902	386.134	381.202	380.980
15.0	378.694	376.572	375.186	375.226	374.888	373.516	373.604
17.5	371.650	369.984	368.554	370.592	367.046	372.192	368.582
20.0	365.184	365.846	362.410	360.256	362.474	358.632	361.692
22.5	355.750	353.448	354.474	352.868	353.028	352.006	354.532
25.0	346.622	347.434	346.726	346.996	345.972	342.310	343.794
27.5	342.128	335.494	336.818	338.004	332.762	334.336	337.572
30.0	334.216	326.810	327.320	326.136	323.506	322.992	324.322
32.5	321.328	317.932	315.590	314.566	313.186	314.068	312.000
35.0	309.224	306.050	304.856	304.908	302.210	303.070	303.236
37.5	296.162	296.416	294.360	292.254	293.220	291.606	292.058
40.0	284.018	282.004	280.886	277.998	277.934	278.546	277.992
42.5	273.526	270.404	269.466	265.540	265.746	263.974	263.158
45.0	259.906	255.576	254.788	251.488	251.800	247.242	249.312
47.5	247.490	244.254	240.046	236.244	234.990	232.804	231.550
50.0	232.110	229.254	226.442	222.120	217.568	215.330	214.308
52.5	218.156	217.552	211.220	207.062	200.986	195.942	195.152
55.0	204.944	201.772	196.616	191.514	183.380	177.120	175.488
57.5	191.040	186.958	180.834	174.218	164.470	159.610	155.564
60.0	174.630	171.092	164.920	156.918	145.784	139.306	134.376
62.5	159.708	155.850	150.634	140.818	128.188	119.546	117.004
65.0	146.306	141.488	134.294	122.658	110.310	100.564	98.006
67.5	131.002	126.226	119.116	107.794	94.022	84.500	80.566
70.0	115.822	112.148	103.560	92.092	79.434	68.370	63.956
72.5	101.382	97.550	89.626	77.674	64.834	54.634	50.280
75.0	85.852	82.290	74.524	64.402	52.526	42.376	38.936
77.5	71.756	68.776	62.334	52.286	41.480	32.386	28.628
80.0	58.548	55.794	49.838	41.594	32.528	24.400	20.968
82.5	45.768	43.818	39.446	32.152	25.080	18.078	14.554
85.0	35.460	34.532	30.190	24.458	18.744	13.224	10.416
87.5	28.176	25.868	23.456	18.172	13.502	8.944	7.034
90.0	21.186	19.884	17.418	13.826	9.718	6.192	4.320
92.5	15.904	14.766	12.958	10.242	7.082	4.132	2.690
95.0	12.042	11.182	9.724	7.580	4.880	2.868	1.932
97.5	9.532	8.714	7.340	5.360	3.360	1.850	1.556
100.0	7.308	6.766	5.288	3.870	2.426	1.364	1.140
102.5	5.844	5.258	4.078	2.852	1.802	1.054	0.826
105.0	4.630	3.896	3.010	2.130	1.188	0.800	0.870
107.5	3.522	3.068	2.300	1.552	0.850	0.684	0.684
110.0	2.956	2.298	1.698	1.048	0.700	0.694	0.582
112.5	2.310	1.846	1.280	0.734	0.490	0.484	0.540
115.0	1.916	1.396	0.810	0.476	0.388	0.428	0.376

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CANDELA TABULATION - (Cont.)

117.5	1.428	0.990	0.546	0.268	0.300	0.374	0.328
120.0	1.022	0.870	0.398	0.182	0.276	0.322	0.288
122.5	0.710	0.480	0.164	0.134	0.206	0.238	0.254
125.0	0.522	0.278	0.078	0.136	0.166	0.204	0.158
127.5	0.308	0.104	0.042	0.100	0.126	0.140	0.158
130.0	0.120	0.036	0.026	0.070	0.100	0.144	0.098
132.5	0.020	0.006	0.014	0.040	0.050	0.066	0.080
135.0	0.000	0.004	0.012	0.022	0.032	0.050	0.052
137.5	0.000	0.004	0.000	0.022	0.020	0.036	0.026
140.0	0.000	0.000	0.000	0.010	0.008	0.014	0.018
142.5	0.000	0.000	0.000	0.000	0.000	0.004	0.006
145.0	0.000	0.000	0.000	0.004	0.000	0.000	0.004
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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

Zone	Lumens	%Lamp	%Fixt
0-20	144.04	N.A.	12.70
0-30	304.99	N.A.	26.90
0-40	498.76	N.A.	44.00
0-60	875.15	N.A.	77.10
0-80	1085.49	N.A.	95.70
0-90	1118.31	N.A.	98.60
10-90	1080.83	N.A.	95.30
20-40	354.71	N.A.	31.30
20-50	554.26	N.A.	48.80
40-70	508.62	N.A.	44.80
60-80	210.34	N.A.	18.50
70-80	78.11	N.A.	6.90
80-90	32.82	N.A.	2.90
90-110	14.46	N.A.	1.30
90-120	15.86	N.A.	1.40
90-130	16.26	N.A.	1.40
90-150	16.31	N.A.	1.40
90-180	16.31	N.A.	1.40
110-180	1.85	N.A.	0.20
0-180	1134.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	37.48
10-20	106.57
20-30	160.95
30-40	193.76
40-50	199.55
50-60	176.84
60-70	132.23
70-80	78.11
80-90	32.82
90-100	10.72
100-110	3.74
110-120	1.41
120-130	0.40
130-140	0.05
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

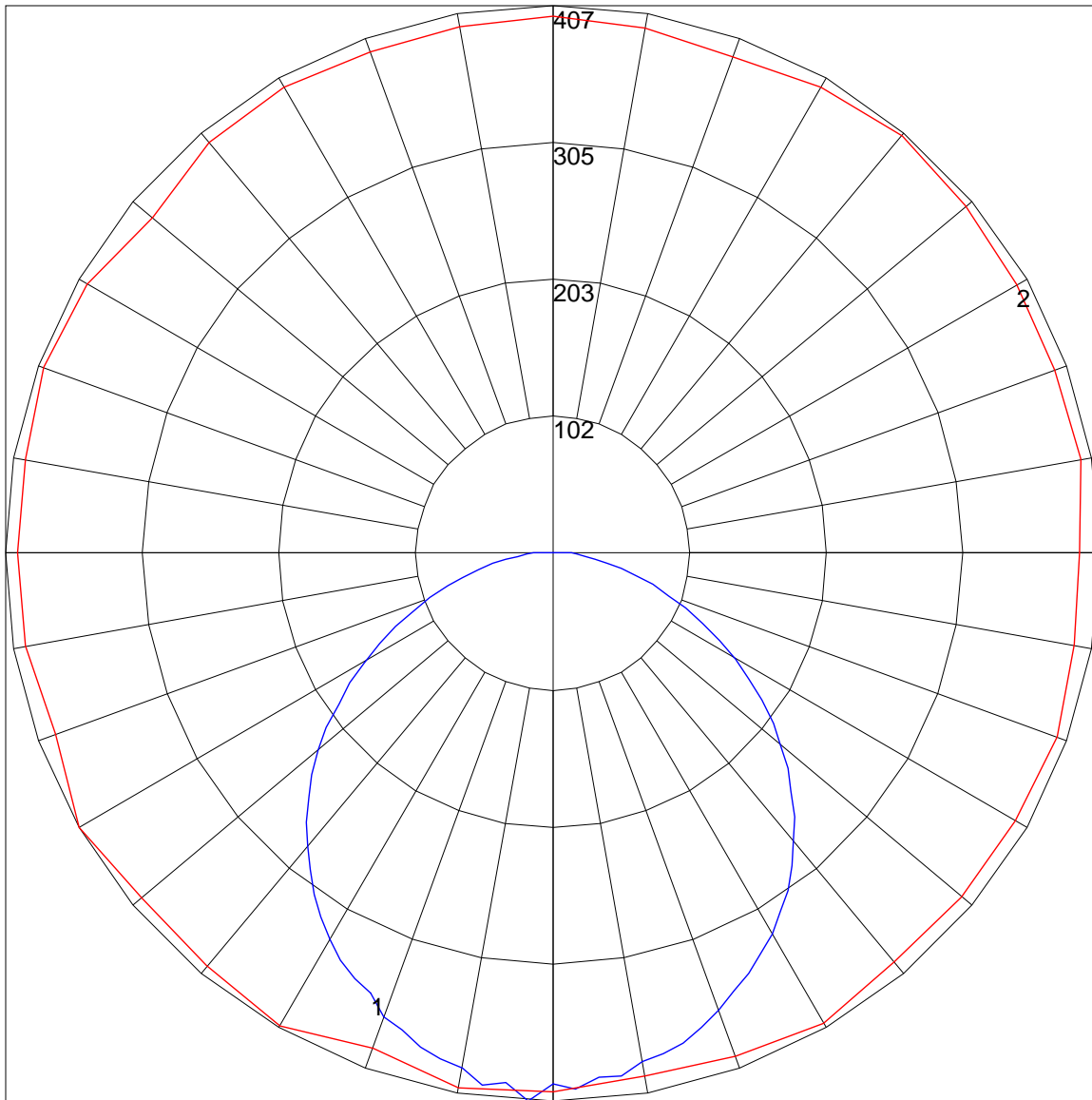
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	73	70	68
3	89	79	71	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	54	66	58	53	63	57	52	61	55	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	64	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	28	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 = 406.68 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.)