



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTLOWT35120-277V-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 12:23:03 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED2HTLOWT35120-277V-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: 42.3

[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: 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	3585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	30
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	8262	6498	6447
55	6941	5462	5471
65	5174	4242	4388
75	3398	2876	2945
85	2067	1500	1534

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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>	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71
<b>2.5</b>	1243.00	1233.64	1231.65	1258.67	1233.24	1233.09	1259.53	1253.81	1236.23	1264.28
<b>5.0</b>	1239.19	1245.90	1250.66	1234.73	1230.97	1224.67	1238.30	1253.62	1242.06	1257.21
<b>7.5</b>	1226.48	1229.50	1221.36	1243.56	1248.11	1222.95	1219.38	1216.03	1225.35	1238.33
<b>10.0</b>	1211.36	1204.25	1216.53	1217.47	1232.05	1215.67	1226.37	1219.27	1221.20	1217.37
<b>12.5</b>	1195.33	1198.42	1203.58	1192.01	1213.98	1199.35	1210.15	1199.56	1215.59	1214.04
<b>15.0</b>	1186.27	1180.30	1177.12	1196.39	1187.21	1181.60	1196.42	1179.16	1185.97	1189.06
<b>17.5</b>	1166.12	1159.78	1162.89	1171.73	1165.16	1175.07	1165.90	1164.81	1173.26	1168.58
<b>20.0</b>	1136.40	1140.00	1142.87	1144.49	1147.79	1138.31	1149.79	1150.16	1149.43	1138.47
<b>22.5</b>	1110.64	1103.37	1109.88	1108.96	1119.33	1118.40	1130.19	1127.53	1130.12	1132.60
<b>25.0</b>	1081.56	1085.42	1082.42	1088.26	1090.54	1108.18	1103.42	1105.59	1105.96	1109.39
<b>27.5</b>	1059.14	1055.65	1062.26	1051.41	1068.01	1059.48	1069.94	1075.72	1085.89	1091.20
<b>30.0</b>	1030.32	1023.62	1030.28	1027.76	1031.60	1034.47	1048.21	1049.66	1058.95	1066.86
<b>32.5</b>	1000.62	982.98	989.44	990.80	1000.52	1002.93	1015.85	1017.69	1028.58	1033.73
<b>35.0</b>	958.04	959.86	956.19	960.29	970.85	964.10	978.32	982.39	1001.96	999.62
<b>37.5</b>	921.00	920.93	916.14	922.67	930.11	929.58	932.02	953.70	967.48	967.99
<b>40.0</b>	870.92	871.54	883.64	883.23	890.45	897.36	908.46	916.81	927.26	926.62
<b>42.5</b>	829.39	831.14	835.39	834.82	852.17	856.79	868.92	875.28	889.11	887.36
<b>45.0</b>	782.92	785.62	788.41	791.59	806.59	816.92	828.52	824.20	851.07	842.28
<b>47.5</b>	731.50	733.21	737.51	748.81	759.97	774.17	783.91	790.04	806.44	809.48
<b>50.0</b>	676.23	675.49	688.76	708.53	717.01	730.46	744.39	744.94	760.91	761.19
<b>52.5</b>	614.35	620.34	633.54	653.17	673.48	686.56	690.73	700.49	712.15	716.13
<b>55.0</b>	561.37	565.78	582.89	602.68	622.65	642.39	649.55	649.59	664.36	669.97
<b>57.5</b>	500.84	505.31	529.30	551.78	574.81	591.94	602.89	608.12	618.83	625.27
<b>60.0</b>	444.72	448.10	472.11	504.03	525.04	545.78	554.34	558.38	570.32	582.83
<b>62.5</b>	381.76	394.07	416.21	449.46	474.17	496.92	508.02	515.02	525.70	531.48
<b>65.0</b>	333.88	340.36	367.05	397.88	431.26	444.27	458.51	470.37	478.92	485.04
<b>67.5</b>	279.07	294.60	315.53	348.77	378.31	396.75	412.49	422.71	430.56	436.12
<b>70.0</b>	232.70	240.94	268.76	302.55	329.29	352.29	366.81	374.82	378.76	389.73
<b>72.5</b>	190.86	201.62	227.62	257.05	287.02	305.41	320.63	326.28	329.93	337.46
<b>75.0</b>	157.06	165.52	185.43	213.67	240.22	262.73	268.38	273.13	278.79	280.52
<b>77.5</b>	126.34	132.16	151.67	176.17	199.64	213.01	222.94	226.24	228.26	231.23
<b>80.0</b>	93.70	104.00	120.54	141.49	159.39	173.05	180.88	184.52	185.35	188.26
<b>82.5</b>	73.90	79.66	94.83	110.01	127.92	138.52	144.16	147.33	147.42	148.43
<b>85.0</b>	54.81	60.23	72.67	84.19	98.24	108.76	113.55	116.62	116.15	118.27
<b>87.5</b>	39.14	44.72	52.77	64.45	75.87	83.68	88.50	89.23	88.99	91.47
<b>90.0</b>	26.99	32.21	39.91	49.40	59.26	65.26	68.93	69.53	69.66	70.29
<b>92.5</b>	17.98	22.38	29.64	36.80	45.02	49.86	52.31	54.36	53.95	52.65
<b>95.0</b>	13.34	16.28	22.57	28.66	34.41	39.38	40.79	42.56	41.17	41.27
<b>97.5</b>	10.33	12.89	17.42	22.60	26.99	29.69	31.78	33.27	32.68	32.70
<b>100.0</b>	8.17	9.93	14.10	17.80	21.30	23.72	25.35	26.36	27.30	27.04
<b>102.5</b>	7.01	8.12	11.08	14.11	16.67	18.26	19.91	21.70	21.70	22.03
<b>105.0</b>	6.43	7.59	9.09	11.89	13.43	15.42	16.99	18.38	18.37	18.52
<b>107.5</b>	5.48	6.14	7.50	8.94	10.63	11.70	14.38	14.70	16.24	15.44
<b>110.0</b>	4.79	5.59	6.73	8.17	8.79	10.24	11.57	12.69	12.80	13.81
<b>112.5</b>	4.31	4.91	5.64	6.49	7.30	7.82	9.63	11.17	10.69	11.00
<b>115.0</b>	4.15	4.10	4.50	5.12	5.68	6.75	7.62	8.45	9.04	9.32
<b>117.5</b>	3.08	3.60	3.93	3.87	4.52	5.35	6.40	7.11	7.31	7.02
<b>120.0</b>	2.88	3.00	3.07	2.92	3.41	3.56	4.95	5.85	5.75	6.57
<b>122.5</b>	2.30	2.56	2.65	2.45	2.54	3.12	3.60	4.29	5.01	4.82
<b>125.0</b>	2.03	2.23	2.03	1.97	1.95	2.34	2.71	3.49	3.56	4.25
<b>127.5</b>	1.76	1.71	1.69	1.49	1.47	1.40	2.01	2.52	3.02	3.08
<b>130.0</b>	1.36	1.35	1.05	1.06	0.99	1.10	1.50	1.87	2.06	2.31
<b>132.5</b>	1.01	0.96	0.83	0.67	0.50	0.65	0.99	1.42	1.52	1.51

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**CANDELA TABULATION - (Cont.)**

135.0	0.72	0.62	0.60	0.53	0.28	0.32	0.54	0.92	1.06	1.26
137.5	0.47	0.51	0.37	0.31	0.17	0.19	0.37	0.59	0.67	0.62
140.0	0.33	0.33	0.23	0.21	0.09	0.06	0.21	0.33	0.37	0.51
142.5	0.14	0.11	0.12	0.08	0.06	0.06	0.13	0.16	0.20	0.24
145.0	0.03	0.08	0.09	0.07	0.07	0.06	0.05	0.13	0.11	0.17
147.5	0.04	0.04	0.08	0.11	0.14	0.07	0.07	0.06	0.13	0.11
150.0	0.18	0.14	0.13	0.13	0.12	0.15	0.07	0.12	0.05	0.04
152.5	0.07	0.11	0.07	0.13	0.22	0.20	0.25	0.11	0.11	0.07
155.0	0.25	0.24	0.17	0.26	0.26	0.22	0.23	0.17	0.12	0.19
157.5	0.16	0.37	0.15	0.29	0.16	0.33	0.24	0.22	0.22	0.17
160.0	0.28	0.37	0.24	0.35	0.28	0.37	0.38	0.24	0.39	0.41
162.5	0.20	0.49	0.41	0.39	0.53	0.23	0.37	0.29	0.27	0.32
165.0	0.43	0.43	0.47	0.51	0.41	0.30	0.37	0.45	0.31	0.39
167.5	0.38	0.43	0.31	0.59	0.51	0.47	0.24	0.36	0.64	0.16
170.0	0.36	0.35	0.35	0.30	0.29	0.32	0.18	0.46	0.57	0.40
172.5	0.47	0.32	0.82	0.33	0.26	0.28	0.59	0.25	0.34	0.19
175.0	0.60	0.34	0.77	0.57	0.67	0.57	0.73	0.50	0.58	0.27
177.5	0.59	0.18	0.48	0.53	0.77	0.48	0.16	0.71	0.00	0.33
180.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0.0	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71
2.5	1236.44	1242.11	1236.10	1225.89	1240.78	1251.31	1236.58	1252.98	1258.27	1237.29
5.0	1212.93	1244.50	1233.49	1231.53	1220.10	1235.39	1245.38	1247.10	1228.89	1228.26
7.5	1232.96	1230.65	1229.72	1233.67	1228.65	1219.21	1239.37	1220.06	1222.15	1229.26
10.0	1208.86	1221.56	1218.95	1226.87	1205.37	1221.72	1212.41	1202.61	1206.33	1198.25
12.5	1208.07	1188.95	1199.31	1195.47	1202.45	1199.56	1200.78	1215.56	1205.74	1190.45
15.0	1191.80	1183.30	1183.76	1186.46	1184.48	1185.91	1178.26	1182.35	1186.52	1178.71
17.5	1168.07	1170.91	1162.94	1172.30	1172.71	1160.56	1163.23	1164.68	1148.09	1161.20
20.0	1158.74	1144.26	1153.96	1140.54	1138.81	1134.56	1132.74	1142.70	1136.45	1132.28
22.5	1117.96	1129.01	1123.38	1116.20	1120.44	1113.28	1118.15	1124.37	1111.05	1113.06
25.0	1110.49	1098.43	1101.17	1098.75	1080.20	1087.77	1083.19	1093.87	1082.67	1095.95
27.5	1080.24	1076.72	1079.11	1072.07	1059.04	1055.76	1064.13	1055.39	1061.28	1058.58
30.0	1054.20	1053.98	1039.42	1047.33	1034.81	1030.09	1028.81	1029.64	1024.43	1018.60
32.5	1030.69	1011.69	1012.46	1007.92	1000.56	994.66	998.49	993.60	998.36	996.46
35.0	1003.93	990.63	975.86	971.64	962.78	965.98	954.49	956.00	953.13	952.99
37.5	970.58	955.51	943.37	933.20	924.50	919.37	920.51	915.97	913.97	917.40
40.0	930.50	914.63	903.35	898.81	890.84	881.20	881.28	873.93	876.69	878.44
42.5	894.31	880.13	867.78	852.39	852.77	837.05	829.86	827.80	832.77	832.98
45.0	847.43	834.02	822.70	819.99	803.24	796.38	786.71	784.28	783.91	782.01
47.5	802.33	793.17	785.76	779.46	763.27	748.72	743.72	729.21	734.00	736.87
50.0	758.48	744.38	740.76	729.05	711.09	700.65	686.49	679.42	675.05	681.03
52.5	714.13	697.73	696.33	679.36	669.39	654.38	642.45	623.15	616.70	622.69
55.0	666.17	651.65	646.91	633.45	622.27	601.72	587.05	563.81	561.43	564.90
57.5	614.50	606.40	602.50	589.00	576.65	552.89	530.52	512.65	498.64	507.48
60.0	573.97	559.28	555.45	542.72	527.35	505.77	471.81	458.03	446.91	451.22
62.5	529.36	513.25	507.10	495.20	477.77	452.26	420.38	398.05	386.65	395.19
65.0	477.96	466.79	457.80	447.16	427.50	402.50	367.34	342.21	333.81	345.41
67.5	429.26	423.36	411.92	399.33	380.46	347.37	316.60	294.16	284.88	294.00
70.0	380.32	369.93	366.23	349.62	331.31	303.87	274.43	248.70	237.52	243.65
72.5	332.20	324.92	317.70	305.30	287.45	256.51	227.73	204.22	195.97	207.87
75.0	277.56	274.59	271.57	259.95	241.44	215.21	187.31	167.58	157.82	166.71
77.5	229.41	226.08	222.73	215.77	199.25	179.15	153.71	134.71	127.12	134.94
80.0	187.03	183.28	179.19	176.81	160.32	142.30	123.09	104.57	97.29	105.10

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**CANDELA TABULATION - (Cont.)**

82.5	148.27	146.22	144.84	137.79	125.76	111.15	93.87	82.10	74.11	81.45
85.0	115.18	116.62	111.98	108.29	98.23	84.41	72.95	61.17	55.14	61.38
87.5	90.10	90.30	86.88	84.07	74.89	63.03	54.32	44.31	40.50	45.63
90.0	68.53	68.21	68.02	63.41	57.04	50.00	40.34	32.01	26.70	31.56
92.5	54.44	52.76	52.84	49.78	43.51	36.49	29.63	22.53	18.27	22.98
95.0	41.68	41.73	39.91	38.23	34.15	28.86	22.33	16.17	13.32	16.69
97.5	32.28	32.86	31.95	29.19	26.38	21.97	17.49	12.54	11.04	12.28
100.0	26.20	26.36	25.35	24.04	20.55	17.44	14.01	9.65	8.71	9.24
102.5	20.79	21.70	20.96	18.34	16.35	14.38	11.53	8.25	7.15	8.05
105.0	18.33	17.67	16.57	15.14	13.21	11.99	9.51	7.22	6.35	7.09
107.5	15.59	14.68	13.48	12.50	11.06	9.35	7.90	6.10	5.38	6.33
110.0	12.59	12.43	11.17	9.74	8.61	8.08	6.52	5.69	5.26	5.18
112.5	10.76	10.50	9.80	8.20	7.40	6.52	5.49	4.78	4.60	5.00
115.0	8.75	8.74	7.37	6.36	5.38	4.94	4.51	4.18	3.80	4.43
117.5	7.04	6.96	6.30	4.96	4.37	4.04	3.87	3.75	3.85	3.79
120.0	5.92	5.71	4.95	4.19	3.50	3.63	3.41	3.05	3.08	3.11
122.5	4.92	4.46	3.73	3.15	2.40	2.72	2.68	2.53	2.68	2.66
125.0	3.74	3.08	3.01	2.16	1.75	1.81	2.33	2.18	2.17	2.30
127.5	2.93	2.58	2.07	1.50	1.33	1.27	1.79	1.83	1.96	1.68
130.0	1.84	1.82	1.43	0.94	0.85	1.02	1.29	1.27	1.39	1.32
132.5	1.65	1.35	0.98	0.57	0.56	1.01	0.97	1.15	1.11	0.91
135.0	1.15	0.83	0.67	0.30	0.36	0.57	0.63	0.69	0.90	0.72
137.5	0.86	0.50	0.45	0.23	0.20	0.25	0.33	0.54	0.70	0.54
140.0	0.50	0.19	0.14	0.08	0.09	0.18	0.29	0.39	0.37	0.37
142.5	0.22	0.08	0.13	0.02	0.09	0.13	0.21	0.10	0.17	0.14
145.0	0.15	0.12	0.04	0.04	0.08	0.08	0.11	0.13	0.04	0.05
147.5	0.04	0.03	0.06	0.08	0.07	0.08	0.12	0.03	0.08	0.07
150.0	0.05	0.07	0.14	0.11	0.17	0.10	0.05	0.14	0.08	0.10
152.5	0.11	0.17	0.17	0.24	0.22	0.18	0.12	0.18	0.21	0.22
155.0	0.25	0.15	0.22	0.22	0.25	0.27	0.22	0.24	0.22	0.39
157.5	0.24	0.23	0.30	0.33	0.27	0.35	0.25	0.35	0.28	0.38
160.0	0.27	0.41	0.30	0.40	0.42	0.38	0.26	0.39	0.28	0.52
162.5	0.45	0.41	0.23	0.45	0.30	0.37	0.40	0.17	0.46	0.47
165.0	0.22	0.31	0.45	0.36	0.45	0.28	0.28	0.43	0.40	0.31
167.5	0.31	0.33	0.43	0.46	0.49	0.45	0.49	0.39	0.38	0.38
170.0	0.29	0.30	0.13	0.46	0.69	0.28	0.38	0.62	0.38	0.18
172.5	0.54	0.60	0.45	0.51	0.50	0.52	0.24	0.29	0.23	0.44
175.0	0.35	0.17	0.61	0.34	0.51	0.25	0.27	0.42	0.26	0.45
177.5	0.66	0.31	0.34	0.08	0.33	0.17	0.46	0.18	0.18	0.18
180.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

**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	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71
2.5	1230.55	1244.91	1272.53	1231.27	1249.00	1254.43	1246.18	1273.73	1244.62	1237.70
5.0	1251.21	1239.46	1243.50	1227.47	1231.09	1229.72	1238.51	1245.14	1244.23	1221.69
7.5	1222.06	1226.90	1224.86	1227.70	1245.86	1219.29	1235.89	1233.10	1239.79	1214.43
10.0	1205.13	1218.58	1224.70	1234.02	1220.95	1221.08	1220.53	1218.44	1222.65	1233.35
12.5	1200.29	1187.33	1199.55	1213.42	1212.33	1209.02	1204.78	1207.35	1193.04	1199.12
15.0	1177.01	1184.43	1195.85	1199.72	1195.84	1188.68	1192.24	1187.33	1201.39	1189.00
17.5	1173.63	1157.72	1160.10	1169.72	1159.46	1163.10	1169.82	1170.37	1169.58	1170.15
20.0	1131.79	1140.51	1146.17	1144.71	1148.75	1139.76	1146.66	1148.78	1148.51	1148.13
22.5	1120.77	1111.15	1123.67	1116.29	1129.23	1127.19	1129.96	1138.46	1124.61	1124.15
25.0	1082.93	1083.87	1087.62	1095.80	1102.52	1095.97	1103.92	1108.79	1107.97	1101.36
27.5	1059.02	1068.73	1064.72	1061.86	1075.87	1080.43	1085.89	1089.11	1080.45	1078.48

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BS100LED2HTLOWT35120-277V-FL\_S.IES**

**CANDELA TABULATION - (Cont.)**

30.0	1026.04	1026.16	1037.25	1035.06	1040.92	1051.82	1060.05	1064.20	1062.63	1054.22
32.5	993.42	993.07	999.56	1013.92	1018.22	1021.15	1031.51	1032.37	1028.41	1014.29
35.0	955.52	956.17	963.39	971.23	980.88	982.30	990.38	1000.69	996.84	982.18
37.5	912.60	915.78	929.35	932.15	939.17	952.04	961.71	966.36	967.54	949.98
40.0	876.43	871.38	890.18	896.94	904.72	917.36	928.51	927.01	934.61	915.02
42.5	829.48	840.69	840.78	858.98	867.05	872.88	887.34	884.36	888.83	872.36
45.0	791.88	792.30	800.53	815.76	825.47	829.28	844.31	845.53	848.27	831.88
47.5	743.01	751.76	760.18	772.67	788.20	787.87	800.83	813.52	806.91	789.50
50.0	690.31	702.34	714.54	733.88	739.80	754.72	760.78	769.88	759.73	744.52
52.5	642.80	652.41	672.97	682.79	691.94	702.38	710.81	718.99	713.27	702.46
55.0	585.82	601.97	625.07	643.63	647.60	658.51	668.92	675.04	668.50	653.39
57.5	526.26	553.30	575.32	587.50	604.49	608.07	618.62	624.84	617.01	609.89
60.0	474.29	501.70	525.12	544.50	553.98	558.79	568.99	576.68	569.53	559.44
62.5	418.78	452.73	478.38	490.79	505.77	512.55	525.87	533.86	524.77	514.73
65.0	366.59	397.74	424.58	446.77	460.48	465.40	481.94	490.06	477.64	470.61
67.5	319.54	350.35	380.37	399.03	413.56	423.37	429.89	438.29	430.58	421.08
70.0	272.90	303.47	330.93	351.18	363.40	372.05	382.49	392.08	382.26	375.09
72.5	227.68	257.06	285.52	304.71	319.04	325.09	329.96	334.75	327.50	324.29
75.0	188.49	217.54	241.90	257.46	268.24	274.56	278.07	283.13	278.54	274.74
77.5	152.09	177.49	198.34	214.82	222.91	224.84	230.16	234.48	226.85	228.06
80.0	122.17	140.78	160.97	172.81	179.11	181.47	187.49	191.20	186.30	185.42
82.5	94.39	110.87	128.22	139.35	145.15	144.76	147.24	149.04	149.02	145.34
85.0	73.04	86.22	97.65	106.80	111.74	113.81	115.87	117.20	115.71	113.78
87.5	53.99	64.42	75.11	83.57	87.69	90.40	91.32	90.15	90.86	90.29
90.0	40.79	48.86	56.48	63.85	68.00	69.26	69.81	69.59	69.10	69.12
92.5	30.84	37.80	43.90	48.82	52.51	52.43	53.84	54.02	52.92	54.10
95.0	22.27	27.78	34.07	37.52	39.97	41.36	41.57	41.71	41.93	41.92
97.5	17.28	21.25	26.38	30.00	30.72	32.32	33.07	33.85	33.14	32.62
100.0	14.03	17.84	21.02	23.06	25.30	25.89	27.01	26.41	26.53	26.18
102.5	10.79	13.88	17.10	18.86	20.15	22.15	21.60	22.39	21.30	21.88
105.0	9.15	11.67	13.59	15.01	16.64	17.10	18.75	19.17	19.01	17.72
107.5	7.73	9.62	10.84	12.17	13.54	14.66	15.59	16.26	15.73	14.82
110.0	6.75	7.87	8.65	9.69	10.80	12.64	13.05	13.10	13.20	12.58
112.5	5.76	6.34	7.44	7.98	9.44	10.08	11.02	10.96	10.78	10.56
115.0	4.41	5.28	5.69	6.36	7.65	8.36	9.41	9.49	9.32	8.41
117.5	4.04	3.90	4.28	4.96	6.02	6.77	7.29	7.56	7.63	7.03
120.0	3.30	3.16	3.42	4.33	4.36	5.23	6.30	6.33	6.50	5.45
122.5	2.80	2.57	2.57	3.05	3.67	4.54	4.89	4.78	4.50	4.21
125.0	2.06	2.08	1.98	2.45	3.08	3.01	3.66	3.71	3.58	3.16
127.5	1.64	1.38	1.20	1.60	2.08	2.34	2.66	3.26	2.54	2.51
130.0	1.19	1.11	0.87	0.94	1.35	1.58	2.23	2.24	1.89	1.74
132.5	0.79	0.77	0.59	0.64	0.90	1.50	1.61	1.53	1.64	1.25
135.0	0.63	0.43	0.32	0.32	0.54	0.85	1.18	1.23	1.10	0.93
137.5	0.37	0.28	0.22	0.19	0.40	0.51	0.71	0.74	0.63	0.53
140.0	0.26	0.15	0.09	0.10	0.15	0.32	0.40	0.48	0.52	0.22
142.5	0.14	0.12	0.04	0.07	0.07	0.20	0.32	0.20	0.16	0.14
145.0	0.07	0.10	0.11	0.15	0.06	0.06	0.07	0.13	0.16	0.11
147.5	0.05	0.06	0.09	0.06	0.05	0.07	0.04	0.04	0.04	0.05
150.0	0.11	0.07	0.22	0.10	0.13	0.06	0.13	0.07	0.05	0.11
152.5	0.17	0.16	0.23	0.17	0.12	0.15	0.11	0.12	0.09	0.06
155.0	0.24	0.23	0.24	0.22	0.23	0.19	0.18	0.15	0.15	0.19
157.5	0.23	0.25	0.33	0.34	0.37	0.18	0.36	0.19	0.26	0.26
160.0	0.36	0.35	0.22	0.39	0.44	0.27	0.31	0.30	0.31	0.38
162.5	0.42	0.33	0.35	0.37	0.33	0.38	0.27	0.31	0.35	0.35
165.0	0.46	0.61	0.57	0.40	0.48	0.32	0.46	0.29	0.09	0.45
167.5	0.17	0.34	0.12	0.24	0.21	0.37	0.41	0.45	0.48	0.42

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

<b>170.0</b>	0.50	0.50	0.41	0.51	0.60	0.29	0.62	0.23	0.22	0.27
<b>172.5</b>	0.32	0.45	0.33	0.36	0.70	0.27	0.39	0.35	0.28	0.56
<b>175.0</b>	0.35	0.35	0.09	0.58	0.53	0.26	0.42	0.44	0.53	0.35
<b>177.5</b>	0.15	0.57	0.32	0.19	0.00	0.36	0.19	0.67	0.00	0.70
<b>180.0</b>	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

**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>	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71	1241.71
<b>2.5</b>	1263.40	1216.84	1238.93	1264.85	1226.57	1236.65	1243.18
<b>5.0</b>	1230.71	1234.31	1229.44	1248.06	1231.74	1232.49	1239.19
<b>7.5</b>	1230.77	1215.68	1234.90	1214.70	1232.65	1231.22	1226.48
<b>10.0</b>	1221.18	1220.03	1209.93	1203.05	1220.01	1215.92	1211.36
<b>12.5</b>	1199.76	1190.06	1210.11	1202.37	1220.95	1195.81	1195.33
<b>15.0</b>	1190.73	1186.10	1177.33	1181.04	1184.95	1182.60	1186.27
<b>17.5</b>	1171.52	1164.41	1164.01	1163.93	1154.96	1166.22	1166.12
<b>20.0</b>	1142.47	1143.20	1149.71	1138.97	1142.64	1145.62	1136.41
<b>22.5</b>	1123.09	1124.55	1120.32	1112.46	1107.53	1110.19	1110.64
<b>25.0</b>	1105.59	1105.41	1095.76	1087.43	1091.90	1083.67	1081.56
<b>27.5</b>	1077.88	1067.22	1065.51	1051.33	1065.11	1050.32	1059.17
<b>30.0</b>	1049.74	1037.45	1038.48	1026.91	1026.70	1019.62	1030.32
<b>32.5</b>	1012.39	1011.34	1009.51	994.58	989.27	987.40	1000.63
<b>35.0</b>	980.53	977.09	960.33	962.95	952.55	954.74	958.04
<b>37.5</b>	944.58	940.20	928.85	922.95	914.72	917.36	921.00
<b>40.0</b>	901.06	901.88	889.96	882.07	874.97	871.75	870.92
<b>42.5</b>	860.25	855.16	852.84	839.30	834.46	830.85	829.39
<b>45.0</b>	824.13	818.63	809.16	798.58	784.88	788.81	782.92
<b>47.5</b>	783.29	773.48	759.95	749.31	740.64	738.40	731.50
<b>50.0</b>	743.58	729.78	719.15	705.31	692.47	679.45	676.24
<b>52.5</b>	694.44	685.54	664.55	655.98	636.30	619.87	614.36
<b>55.0</b>	652.19	643.81	625.54	604.38	583.68	562.61	561.37
<b>57.5</b>	599.56	592.63	576.26	557.85	526.35	507.16	500.84
<b>60.0</b>	557.07	544.24	524.83	501.70	473.21	451.66	444.72
<b>62.5</b>	508.77	495.99	479.63	449.91	419.82	392.87	381.76
<b>65.0</b>	455.45	447.14	428.69	396.93	364.88	339.50	333.88
<b>67.5</b>	414.56	402.75	379.12	347.01	315.57	289.93	279.07
<b>70.0</b>	366.80	352.38	331.38	301.09	268.02	241.15	232.70
<b>72.5</b>	315.96	304.69	284.47	255.58	227.82	200.83	190.86
<b>75.0</b>	271.41	256.47	238.64	216.86	188.73	164.98	157.06
<b>77.5</b>	222.62	218.00	198.97	174.44	152.49	132.33	126.34
<b>80.0</b>	180.94	174.20	157.01	141.67	121.70	105.05	93.70
<b>82.5</b>	142.39	137.37	126.40	109.37	94.78	79.82	73.90
<b>85.0</b>	112.24	108.35	98.40	85.18	73.19	60.30	54.81
<b>87.5</b>	88.67	84.44	74.81	64.97	53.90	43.82	39.14
<b>90.0</b>	67.02	65.12	58.32	48.75	40.34	31.46	26.99
<b>92.5</b>	52.29	50.09	44.03	37.13	29.94	22.45	17.98
<b>95.0</b>	40.32	38.89	35.00	28.37	22.93	16.01	13.34
<b>97.5</b>	31.20	30.03	26.68	22.13	17.30	12.23	10.33
<b>100.0</b>	25.27	23.49	21.34	17.59	13.60	9.53	8.17
<b>102.5</b>	20.87	19.27	17.25	14.41	11.38	8.16	7.02
<b>105.0</b>	16.64	15.16	13.40	11.74	9.41	6.61	6.44
<b>107.5</b>	13.64	12.77	11.00	9.35	7.32	6.30	5.49
<b>110.0</b>	11.45	9.68	8.98	7.78	6.50	5.68	4.79
<b>112.5</b>	9.05	7.93	7.44	6.15	5.56	4.66	4.31
<b>115.0</b>	7.27	6.16	5.47	5.17	4.81	4.22	4.15

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**CANDELA TABULATION - (Cont.)**

117.5	6.53	5.38	4.55	3.98	3.71	3.36	3.08
120.0	4.78	3.84	3.21	3.46	3.04	2.77	2.88
122.5	3.81	3.05	2.51	2.29	2.49	2.69	2.30
125.0	2.90	2.19	1.84	2.01	2.20	2.06	2.03
127.5	2.03	1.69	1.26	1.14	1.58	1.66	1.77
130.0	1.42	1.09	0.94	1.00	1.24	1.34	1.36
132.5	0.98	0.79	0.53	0.73	0.87	0.98	1.01
135.0	0.62	0.30	0.45	0.38	0.71	0.72	0.72
137.5	0.50	0.14	0.20	0.32	0.35	0.46	0.47
140.0	0.21	0.09	0.14	0.13	0.19	0.38	0.33
142.5	0.15	0.03	0.09	0.11	0.06	0.08	0.14
145.0	0.12	0.06	0.09	0.09	0.07	0.05	0.03
147.5	0.07	0.10	0.07	0.10	0.14	0.04	0.04
150.0	0.12	0.19	0.16	0.16	0.23	0.11	0.18
152.5	0.18	0.25	0.10	0.29	0.12	0.22	0.07
155.0	0.08	0.29	0.27	0.20	0.26	0.16	0.25
157.5	0.23	0.22	0.29	0.33	0.35	0.28	0.16
160.0	0.23	0.44	0.41	0.29	0.44	0.39	0.28
162.5	0.32	0.48	0.46	0.26	0.47	0.19	0.20
165.0	0.73	0.42	0.30	0.29	0.56	0.48	0.43
167.5	0.29	0.33	0.43	0.38	0.49	0.45	0.38
170.0	0.58	0.60	0.47	0.36	0.33	0.43	0.36
172.5	0.29	0.60	0.26	0.48	0.38	0.33	0.47
175.0	0.23	0.37	0.51	0.40	0.17	0.58	0.60
177.5	0.52	0.69	0.86	0.03	0.19	0.47	0.59
180.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25



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

Zone	Lumens	%Lamp	%Fixt
0-20	451.95	N.A.	12.60
0-30	956.83	N.A.	26.70
0-40	1564.83	N.A.	43.60
0-60	2747.16	N.A.	76.60
0-80	3415.42	N.A.	95.30
0-90	3523.08	N.A.	98.30
10-90	3405.63	N.A.	95.00
20-40	1112.88	N.A.	31.00
20-50	1739.12	N.A.	48.50
40-70	1600.69	N.A.	44.60
60-80	668.26	N.A.	18.60
70-80	249.90	N.A.	7.00
80-90	107.66	N.A.	3.00
90-110	52.40	N.A.	1.50
90-120	58.96	N.A.	1.60
90-130	61.38	N.A.	1.70
90-150	62.03	N.A.	1.70
90-180	62.28	N.A.	1.70
110-180	9.88	N.A.	0.30
0-180	3585.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	117.46
10-20	334.49
20-30	504.88
30-40	608.00
40-50	626.23
50-60	556.10
60-70	418.36
70-80	249.90
80-90	107.66
90-100	37.54
100-110	14.86
110-120	6.56
120-130	2.41
130-140	0.58
140-150	0.08
150-160	0.10
160-170	0.11
170-180	0.04

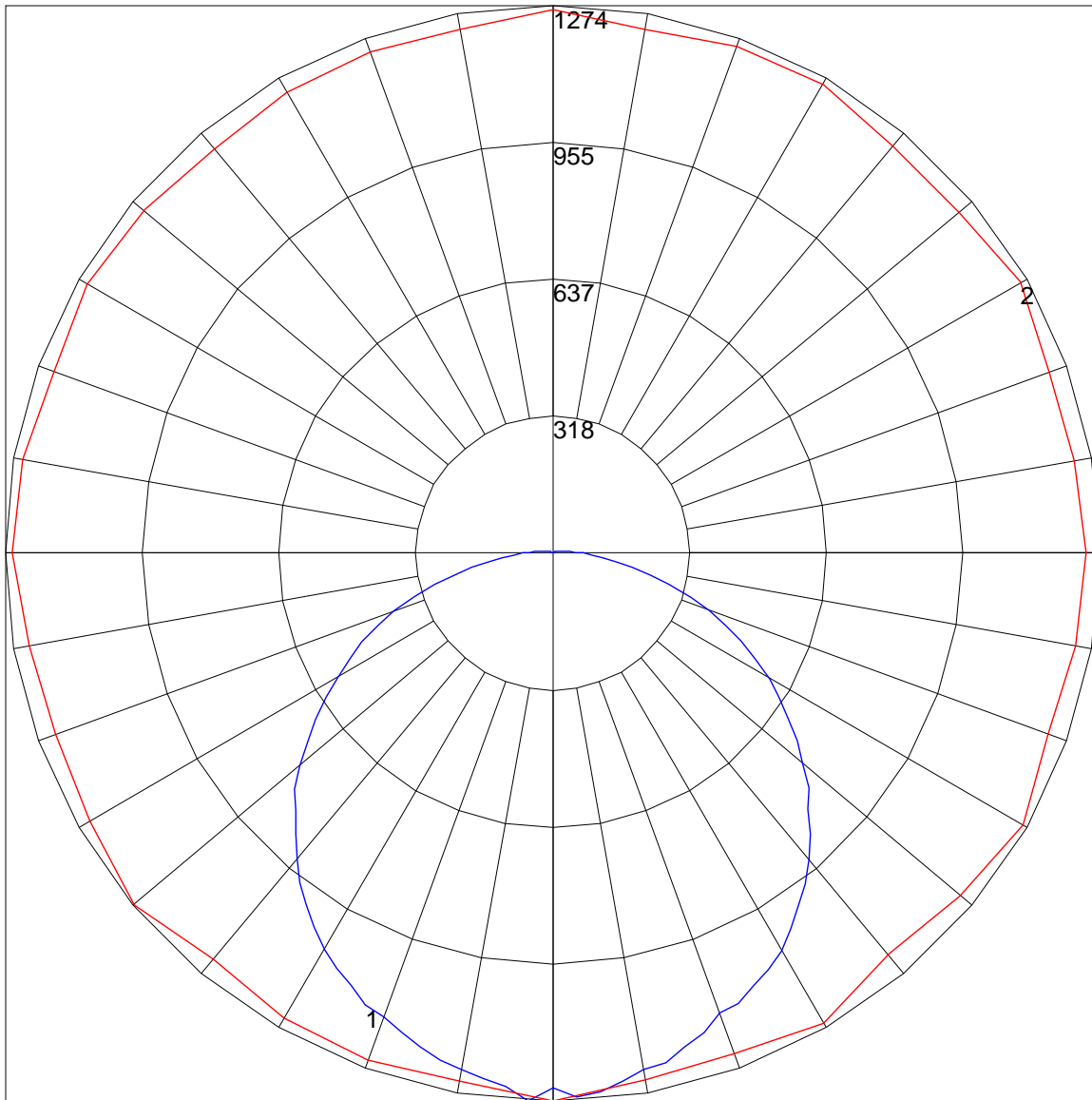
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	100	100	100	98
1	108	103	98	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 = 1273.73 Located At Horizontal Angle = 270, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)