



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTLOWT50120-277V-FL_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Fri Jun 30 13:35:12 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED2HTLOWT50120-277V-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: 44.8

[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	3796
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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)	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	8663	6854	6885
55	7320	5751	5813
65	5399	4487	4689
75	3599	3013	3136
85	2189	1592	1602

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86
2.5	1334.76	1331.82	1312.21	1362.34	1321.26	1333.35	1326.14	1319.56	1293.69	1327.18
5.0	1309.31	1288.43	1308.75	1302.98	1289.62	1296.75	1283.90	1326.55	1318.43	1325.72
7.5	1299.85	1310.25	1299.67	1312.06	1291.11	1297.36	1305.65	1293.11	1285.67	1318.46
10.0	1278.97	1270.18	1285.36	1299.30	1293.95	1289.51	1288.23	1290.76	1281.02	1279.08
12.5	1274.35	1267.21	1268.19	1272.00	1277.15	1273.33	1278.72	1272.06	1277.47	1281.20
15.0	1238.64	1253.01	1256.98	1261.08	1256.40	1263.08	1252.34	1255.16	1264.35	1254.83
17.5	1223.27	1223.50	1226.67	1242.04	1227.65	1231.26	1241.55	1239.05	1256.71	1232.80
20.0	1199.10	1208.05	1214.51	1204.23	1214.89	1203.67	1220.86	1211.89	1209.55	1220.30
22.5	1177.82	1177.04	1181.25	1176.39	1183.87	1188.90	1185.75	1195.17	1190.67	1188.51
25.0	1148.35	1143.74	1148.32	1150.09	1148.15	1153.56	1168.16	1170.43	1170.09	1177.06
27.5	1120.37	1116.05	1110.50	1119.14	1119.23	1131.85	1146.02	1142.56	1150.02	1145.90
30.0	1080.68	1087.66	1087.23	1078.89	1092.59	1104.39	1105.19	1104.08	1124.17	1120.77
32.5	1044.31	1049.33	1039.66	1048.13	1061.91	1054.90	1071.11	1084.04	1093.10	1085.88
35.0	1005.14	1012.07	1007.81	1012.49	1017.68	1030.34	1033.02	1043.27	1056.98	1059.99
37.5	974.17	975.90	970.53	976.48	984.93	993.66	1002.01	1005.19	1022.30	1026.50
40.0	926.30	929.30	930.14	931.31	940.41	947.86	958.09	973.29	984.81	987.39
42.5	883.77	879.23	888.52	892.19	896.24	906.58	915.69	926.79	932.29	943.86
45.0	820.89	834.01	836.45	846.42	851.41	860.86	874.69	879.53	900.29	899.49
47.5	769.63	773.98	780.86	797.79	807.84	823.21	824.97	837.09	849.04	863.17
50.0	713.95	720.30	733.27	744.71	760.17	776.48	783.60	788.80	803.36	811.18
52.5	658.92	663.10	674.13	683.76	712.79	724.17	737.98	739.43	755.32	755.45
55.0	591.98	598.80	615.60	641.30	654.94	677.13	684.99	689.06	701.50	711.80
57.5	532.24	537.02	558.14	586.52	608.08	627.29	638.93	647.27	653.94	661.32
60.0	466.06	478.14	500.67	533.77	557.99	575.90	588.98	595.06	605.25	616.31
62.5	408.30	418.61	440.49	474.00	505.28	525.08	539.86	546.34	557.66	565.87
65.0	348.39	360.82	386.32	425.99	452.52	473.49	488.62	495.58	507.27	518.28
67.5	297.62	306.39	335.17	372.05	402.17	421.35	438.01	447.05	452.94	465.30
70.0	247.14	258.73	286.32	320.35	350.55	370.13	383.42	396.13	404.34	412.05
72.5	203.21	215.93	241.24	271.11	303.64	324.20	336.05	343.14	350.32	355.14
75.0	166.39	174.47	199.07	226.64	254.83	271.94	285.69	291.68	293.14	298.74
77.5	130.55	141.04	161.70	184.57	209.87	227.26	236.61	239.19	246.14	246.79
80.0	102.71	111.14	124.47	148.22	171.58	185.20	192.81	194.87	196.83	200.62
82.5	76.63	86.29	100.46	116.31	134.54	147.43	151.51	156.68	157.29	158.96
85.0	58.04	64.19	76.34	88.95	102.90	116.86	118.39	122.31	121.44	123.49
87.5	41.15	47.09	56.75	68.00	80.10	88.77	93.11	94.03	94.57	96.13
90.0	28.15	34.44	41.99	52.60	61.57	67.62	71.53	73.26	75.54	74.59
92.5	19.22	23.58	31.29	40.65	47.63	53.84	54.65	55.71	57.21	56.46
95.0	13.84	17.50	24.06	31.10	36.75	41.81	42.71	44.08	43.54	44.24
97.5	11.02	13.08	18.60	24.53	28.19	31.59	35.13	35.09	35.11	34.56
100.0	9.13	10.90	14.18	19.03	22.65	24.86	26.75	27.92	27.58	27.64
102.5	7.24	8.51	11.48	15.04	17.86	20.10	22.15	23.59	23.11	22.70
105.0	6.41	7.15	9.58	11.77	14.56	16.08	18.00	18.93	19.86	19.78
107.5	6.03	6.55	7.83	9.97	11.45	13.18	14.54	16.50	16.56	16.76
110.0	5.43	5.95	6.51	8.60	9.46	10.65	12.25	13.49	14.36	14.06
112.5	4.65	5.31	5.56	7.05	7.16	8.27	10.33	11.05	11.93	11.93
115.0	4.12	4.23	4.70	5.10	6.06	7.09	8.29	9.00	9.90	10.06
117.5	4.02	3.92	3.86	4.28	4.53	4.99	6.39	7.53	7.96	7.86
120.0	3.29	3.28	3.33	3.48	3.54	3.89	5.00	6.56	6.25	6.38
122.5	2.63	2.88	2.60	2.58	2.56	3.24	4.33	4.73	4.86	5.30
125.0	2.40	2.11	2.12	1.85	1.98	2.20	2.80	3.67	3.77	4.05
127.5	1.58	1.54	1.61	1.64	1.36	1.33	2.06	2.74	2.73	3.19
130.0	1.27	1.16	1.25	0.95	1.00	1.08	1.49	1.97	2.18	2.50
132.5	0.94	1.05	0.95	0.58	0.66	0.71	0.95	1.33	1.62	1.85

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CANDELA TABULATION - (Cont.)

135.0	0.73	0.59	0.73	0.51	0.42	0.42	0.72	0.85	1.28	1.06
137.5	0.46	0.51	0.38	0.29	0.16	0.26	0.33	0.65	0.73	0.90
140.0	0.34	0.27	0.18	0.25	0.15	0.06	0.21	0.38	0.56	0.43
142.5	0.15	0.14	0.10	0.11	0.08	0.02	0.06	0.19	0.26	0.24
145.0	0.06	0.05	0.04	0.08	0.06	0.09	0.06	0.14	0.10	0.09
147.5	0.04	0.03	0.12	0.10	0.10	0.10	0.14	0.08	0.10	0.07
150.0	0.12	0.13	0.14	0.13	0.14	0.20	0.12	0.06	0.03	0.04
152.5	0.21	0.25	0.21	0.23	0.26	0.26	0.11	0.10	0.13	0.10
155.0	0.30	0.20	0.33	0.30	0.25	0.19	0.12	0.17	0.02	0.16
157.5	0.38	0.38	0.33	0.24	0.42	0.23	0.30	0.25	0.26	0.11
160.0	0.36	0.36	0.46	0.26	0.34	0.29	0.27	0.29	0.27	0.30
162.5	0.37	0.39	0.41	0.33	0.53	0.36	0.35	0.45	0.35	0.31
165.0	0.43	0.45	0.57	0.26	0.25	0.41	0.41	0.40	0.32	0.44
167.5	0.76	0.30	0.33	0.58	0.78	0.35	0.42	0.25	0.38	0.23
170.0	0.63	0.42	0.62	0.35	0.31	0.40	0.23	0.45	0.37	0.72
172.5	0.24	0.78	0.66	0.44	0.29	0.51	0.54	0.43	0.62	0.55
175.0	0.47	0.44	0.55	0.87	0.44	0.27	0.35	0.48	0.36	0.37
177.5	0.95	0.53	0.92	0.35	0.58	0.75	0.38	0.16	0.16	0.34
180.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

**Vert.
Angles**

Horizontal Angles

	100	110	120	130	140	150	160	170	180	190
0.0	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86
2.5	1322.14	1323.14	1323.64	1312.26	1311.30	1314.01	1344.41	1293.95	1315.83	1317.03
5.0	1293.76	1324.15	1321.86	1332.00	1309.19	1322.63	1318.65	1300.69	1310.81	1306.09
7.5	1291.53	1307.04	1296.79	1293.33	1301.77	1300.43	1297.64	1308.02	1307.93	1301.21
10.0	1287.98	1281.90	1302.07	1297.75	1274.81	1281.68	1279.93	1285.87	1283.10	1288.60
12.5	1272.02	1275.94	1276.22	1277.07	1273.70	1281.66	1272.33	1269.45	1270.89	1274.55
15.0	1264.85	1246.75	1250.05	1263.20	1258.10	1254.97	1255.91	1243.62	1256.74	1240.57
17.5	1236.02	1241.02	1243.47	1238.73	1236.17	1238.50	1236.22	1231.93	1230.93	1229.54
20.0	1213.59	1221.99	1222.49	1216.16	1217.65	1205.00	1200.83	1207.09	1211.20	1203.33
22.5	1200.44	1195.55	1190.81	1183.47	1184.81	1179.22	1173.05	1180.03	1170.99	1186.72
25.0	1169.69	1170.64	1165.49	1159.37	1153.65	1155.99	1145.86	1154.55	1153.38	1145.03
27.5	1140.67	1145.33	1138.13	1128.28	1123.22	1114.69	1114.46	1118.05	1120.83	1127.66
30.0	1129.74	1119.65	1106.29	1103.87	1095.84	1090.00	1083.26	1081.13	1088.28	1080.85
32.5	1087.46	1077.12	1067.14	1052.77	1060.18	1054.79	1054.07	1045.84	1041.07	1044.66
35.0	1058.51	1049.07	1030.33	1036.30	1026.66	1015.73	1010.61	1008.80	1010.09	1015.37
37.5	1020.36	1006.67	1001.90	980.69	981.39	978.54	973.11	976.62	969.66	973.82
40.0	986.70	964.63	956.44	950.51	935.90	930.73	927.85	935.14	927.62	925.80
42.5	946.48	925.91	913.25	907.31	901.78	896.18	884.48	877.91	883.13	883.64
45.0	898.81	879.91	873.61	863.70	852.76	844.74	831.18	829.02	828.84	833.19
47.5	853.05	839.73	832.47	818.72	808.19	792.19	783.12	772.62	773.22	782.40
50.0	803.45	793.84	780.63	773.68	759.22	739.75	729.94	723.26	721.57	720.49
52.5	756.18	739.13	740.35	727.41	714.84	694.44	677.57	663.09	656.21	659.44
55.0	702.08	693.36	685.57	675.88	659.78	630.84	615.35	597.86	596.93	603.18
57.5	657.96	643.50	637.79	623.75	610.86	587.54	559.88	539.63	531.92	539.39
60.0	608.49	592.16	588.02	571.30	556.22	536.52	502.87	476.40	469.99	476.00
62.5	559.71	547.23	534.22	525.99	507.39	476.62	446.89	418.62	408.32	422.56
65.0	508.23	497.51	484.32	471.52	455.51	423.70	389.45	365.99	355.58	362.42
67.5	454.57	450.01	436.10	425.07	401.60	370.30	336.92	310.26	302.60	307.56
70.0	406.54	394.29	384.70	373.26	350.59	322.78	286.03	262.01	248.92	260.10
72.5	350.59	343.52	335.13	322.50	306.07	271.69	244.92	216.78	210.05	216.94
75.0	293.53	288.81	284.55	274.56	255.06	228.85	200.99	175.62	166.60	176.27
77.5	242.08	240.14	235.54	228.64	210.45	185.93	161.93	141.90	134.98	141.82
80.0	197.40	194.43	190.79	182.53	169.61	149.73	129.75	112.79	103.18	110.91

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CANDELA TABULATION - (Cont.)

82.5	157.78	154.26	150.79	145.61	133.30	115.85	102.76	86.47	79.79	85.02
85.0	121.99	121.55	119.56	113.70	103.50	90.09	76.51	65.25	57.41	64.72
87.5	96.83	95.23	93.05	87.57	78.83	66.43	56.99	48.25	42.96	49.08
90.0	73.28	72.29	70.64	67.48	61.53	50.77	42.29	34.47	28.36	34.27
92.5	58.06	55.32	55.04	52.29	46.53	39.82	32.95	24.12	19.81	24.12
95.0	45.25	43.73	42.45	41.03	36.13	30.65	23.89	17.75	14.09	17.39
97.5	34.36	34.57	33.37	31.65	27.67	24.03	19.09	12.18	11.35	12.40
100.0	27.69	26.53	26.41	24.62	21.93	18.78	15.25	10.20	9.06	10.59
102.5	22.88	23.20	21.66	19.72	17.06	14.89	11.59	8.49	8.03	8.79
105.0	19.54	18.72	17.85	16.10	13.81	11.52	10.05	7.58	6.77	7.26
107.5	16.36	15.82	15.02	13.18	12.22	10.81	8.27	6.60	6.17	6.52
110.0	13.52	13.51	12.35	10.69	9.49	8.33	7.12	5.69	5.54	5.56
112.5	11.88	10.86	9.80	7.89	7.58	6.47	5.82	5.14	4.71	5.12
115.0	9.72	8.79	7.82	6.68	5.67	5.38	4.84	4.78	4.24	4.73
117.5	8.13	7.57	6.63	5.29	4.57	4.25	4.22	3.86	3.69	3.65
120.0	6.50	5.62	5.00	4.13	3.50	3.31	3.51	3.32	2.80	3.04
122.5	4.56	4.64	3.79	3.22	2.93	2.72	2.77	2.87	2.52	2.92
125.0	3.95	3.52	3.06	2.08	1.90	2.34	2.30	2.16	2.64	2.20
127.5	2.89	2.73	2.45	1.81	1.15	1.57	1.62	1.83	1.95	1.82
130.0	2.18	2.22	1.65	1.18	0.93	1.05	1.45	1.55	1.70	1.60
132.5	1.62	1.36	1.01	0.62	0.50	0.69	0.96	1.10	1.19	1.20
135.0	1.23	1.16	0.59	0.44	0.35	0.53	0.74	0.81	0.81	0.94
137.5	0.79	0.66	0.45	0.19	0.22	0.34	0.53	0.51	0.63	0.69
140.0	0.43	0.37	0.16	0.14	0.07	0.19	0.32	0.38	0.43	0.23
142.5	0.28	0.20	0.18	0.08	0.05	0.09	0.15	0.19	0.33	0.13
145.0	0.14	0.18	0.05	0.10	0.07	0.10	0.10	0.06	0.17	0.19
147.5	0.06	0.04	0.02	0.16	0.14	0.10	0.10	0.08	0.03	0.12
150.0	0.03	0.04	0.09	0.17	0.20	0.12	0.07	0.18	0.09	0.18
152.5	0.09	0.20	0.12	0.07	0.23	0.14	0.24	0.11	0.28	0.23
155.0	0.28	0.21	0.13	0.21	0.28	0.22	0.18	0.31	0.34	0.26
157.5	0.17	0.33	0.31	0.41	0.33	0.33	0.17	0.22	0.21	0.24
160.0	0.22	0.24	0.45	0.56	0.48	0.49	0.27	0.27	0.31	0.32
162.5	0.31	0.52	0.44	0.34	0.46	0.34	0.39	0.41	0.19	0.36
165.0	0.56	0.63	0.48	0.53	0.42	0.43	0.39	0.30	0.42	0.57
167.5	0.29	0.58	0.35	0.25	0.20	0.82	0.36	0.22	0.50	0.47
170.0	0.36	0.52	0.48	0.37	0.32	0.48	0.66	0.46	0.34	0.50
172.5	0.45	0.65	0.54	0.43	0.55	0.19	0.59	0.49	0.46	0.59
175.0	0.54	0.53	0.51	0.29	0.45	0.37	0.55	0.82	0.27	0.10
177.5	0.34	0.38	0.19	1.04	0.36	0.35	0.67	0.00	0.20	0.91
180.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

**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	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86
2.5	1310.43	1319.96	1298.13	1321.92	1315.73	1319.78	1303.47	1301.57	1296.44	1319.25
5.0	1313.03	1316.80	1291.12	1315.69	1308.15	1306.88	1297.06	1310.90	1313.15	1290.40
7.5	1301.13	1304.91	1315.68	1314.88	1301.23	1314.36	1313.39	1305.14	1305.82	1297.87
10.0	1293.99	1270.54	1284.80	1298.59	1286.56	1283.20	1285.75	1294.19	1292.40	1297.72
12.5	1266.38	1277.25	1280.58	1266.21	1272.86	1273.50	1294.48	1279.79	1270.36	1270.84
15.0	1250.62	1256.52	1259.98	1252.98	1252.79	1255.31	1261.89	1256.59	1261.52	1266.16
17.5	1228.92	1229.94	1239.67	1226.98	1238.47	1236.24	1239.31	1233.45	1237.70	1246.96
20.0	1212.14	1197.28	1208.97	1209.77	1212.57	1217.04	1215.58	1217.93	1218.06	1221.24
22.5	1179.62	1177.73	1186.49	1181.52	1194.73	1195.37	1193.27	1194.46	1186.72	1183.64
25.0	1145.39	1156.34	1153.11	1155.78	1157.97	1164.45	1172.58	1171.43	1172.57	1166.95
27.5	1124.46	1121.06	1120.33	1126.96	1132.59	1135.14	1150.29	1150.63	1146.78	1142.70

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CANDELA TABULATION - (Cont.)

30.0	1089.76	1087.17	1091.96	1097.11	1104.63	1116.95	1124.12	1125.75	1127.97	1114.76
32.5	1053.10	1058.66	1057.19	1066.03	1075.61	1085.98	1094.72	1086.06	1092.30	1076.03
35.0	1002.98	1014.19	1016.90	1031.29	1035.24	1044.17	1057.91	1054.51	1059.56	1043.60
37.5	966.83	971.76	983.51	984.28	995.52	1006.36	1018.07	1028.19	1021.31	1010.52
40.0	930.21	935.58	938.09	948.77	954.97	970.72	983.65	991.72	983.56	972.25
42.5	882.40	887.03	896.28	910.35	916.19	919.71	937.83	934.07	941.18	928.47
45.0	832.98	843.51	854.16	861.82	876.29	880.66	893.75	894.40	897.15	887.11
47.5	783.49	789.35	807.06	822.90	831.12	835.58	853.11	864.51	853.65	835.66
50.0	731.30	745.41	756.58	775.96	782.16	798.66	804.11	808.97	802.38	787.29
52.5	674.69	697.81	715.73	723.98	735.47	735.53	752.19	761.07	753.94	737.16
55.0	617.60	638.56	665.07	674.53	686.54	694.46	703.14	710.03	701.34	690.43
57.5	557.78	589.76	610.60	628.40	633.55	642.46	659.02	662.82	652.75	642.50
60.0	501.67	532.20	559.83	573.15	591.98	592.46	605.81	612.16	603.71	592.43
62.5	444.37	479.60	505.44	523.70	538.20	547.76	560.58	564.17	555.90	546.86
65.0	387.57	426.18	453.96	472.75	487.70	495.73	505.46	518.60	508.04	499.63
67.5	337.56	373.60	403.84	421.35	436.70	447.55	454.55	466.02	457.26	447.62
70.0	289.36	322.45	349.74	370.57	387.16	396.39	403.51	410.46	403.73	396.65
72.5	241.81	273.31	301.03	324.41	336.33	347.38	350.39	355.76	345.57	341.47
75.0	200.54	225.96	255.70	273.70	285.04	289.21	295.89	297.51	296.19	292.11
77.5	160.37	186.24	210.29	226.22	234.66	239.59	246.71	247.44	244.73	242.43
80.0	130.65	148.68	170.76	183.96	189.86	192.31	196.79	200.99	196.05	194.53
82.5	99.96	116.60	134.69	145.70	149.16	152.83	156.11	156.21	155.99	155.56
85.0	77.05	89.87	104.04	112.75	120.43	123.02	121.10	122.48	124.11	122.37
87.5	56.73	68.04	80.14	89.47	92.34	95.44	96.18	96.01	96.77	95.22
90.0	42.88	52.12	61.32	68.31	73.80	72.99	74.14	73.66	74.28	73.25
92.5	31.97	39.90	47.88	52.05	55.55	55.21	57.60	57.38	56.74	56.54
95.0	24.00	30.01	36.26	39.55	41.51	43.12	43.86	42.72	44.80	44.11
97.5	18.26	23.78	27.66	30.69	33.42	34.51	34.91	33.78	34.34	34.81
100.0	13.92	18.41	21.73	24.27	26.75	27.89	28.24	27.85	29.40	27.93
102.5	11.66	14.68	17.04	19.67	22.13	22.60	23.11	23.59	23.19	22.68
105.0	9.74	12.30	14.13	15.96	17.86	18.51	19.25	20.48	19.95	18.71
107.5	8.19	9.99	11.71	12.82	14.31	16.12	16.06	16.35	16.32	15.65
110.0	7.08	8.10	9.79	10.73	11.93	13.42	14.30	14.52	14.01	13.27
112.5	5.85	6.88	7.64	8.80	9.59	10.76	11.93	11.26	11.51	10.56
115.0	4.78	5.66	6.00	6.47	8.00	8.99	9.27	9.94	10.24	9.18
117.5	4.27	4.33	4.61	5.31	6.41	7.28	7.74	7.91	7.59	7.52
120.0	3.56	3.37	3.45	3.94	4.83	5.92	6.62	6.77	6.48	6.25
122.5	2.80	2.81	2.66	3.41	4.16	4.26	5.22	5.15	5.30	4.51
125.0	2.11	2.24	2.05	2.29	3.36	3.57	4.09	3.99	3.92	3.64
127.5	1.78	1.46	1.26	1.82	2.11	2.74	3.34	3.12	2.88	3.11
130.0	1.23	0.99	0.93	1.15	1.68	1.74	2.38	2.17	2.25	2.03
132.5	1.03	0.88	0.64	0.57	1.15	1.49	1.53	1.68	1.53	1.36
135.0	0.76	0.48	0.25	0.35	0.64	0.95	1.03	1.11	1.27	0.86
137.5	0.39	0.34	0.26	0.14	0.32	0.66	0.77	0.92	0.65	0.57
140.0	0.30	0.11	0.09	0.10	0.22	0.26	0.56	0.55	0.42	0.34
142.5	0.18	0.08	0.10	0.08	0.09	0.13	0.22	0.19	0.19	0.09
145.0	0.06	0.05	0.07	0.07	0.12	0.13	0.13	0.17	0.16	0.13
147.5	0.06	0.09	0.08	0.10	0.05	0.07	0.09	0.08	0.10	0.08
150.0	0.05	0.09	0.13	0.08	0.07	0.08	0.08	0.07	0.07	0.05
152.5	0.22	0.18	0.07	0.18	0.13	0.09	0.09	0.13	0.15	0.18
155.0	0.16	0.23	0.31	0.31	0.20	0.21	0.19	0.03	0.28	0.21
157.5	0.29	0.26	0.29	0.21	0.22	0.21	0.24	0.19	0.29	0.22
160.0	0.21	0.48	0.43	0.41	0.27	0.28	0.31	0.33	0.22	0.23
162.5	0.40	0.44	0.41	0.24	0.54	0.63	0.40	0.37	0.38	0.48
165.0	0.51	0.35	0.51	0.60	0.37	0.21	0.38	0.28	0.27	0.27
167.5	0.48	0.47	0.21	0.60	0.29	0.49	0.28	0.45	0.51	0.39

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CANDELA TABULATION - (Cont.)

170.0	0.49	0.35	0.31	0.28	0.21	0.58	0.47	0.30	0.56	0.50
172.5	0.50	0.43	0.66	0.29	0.43	0.55	0.38	0.36	0.24	0.29
175.0	0.47	0.58	0.11	0.73	0.41	0.67	0.50	0.73	0.50	0.39
177.5	0.86	0.62	0.52	0.56	0.19	0.94	0.23	0.37	0.56	0.52
180.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86	1319.86
2.5	1295.84	1299.78	1311.82	1324.97	1286.04	1295.83	1334.76
5.0	1336.54	1305.42	1315.26	1311.45	1314.71	1296.02	1309.31
7.5	1308.03	1309.35	1290.99	1293.93	1306.91	1293.64	1299.91
10.0	1306.56	1279.20	1284.36	1285.43	1292.40	1305.77	1278.97
12.5	1282.26	1264.31	1279.18	1264.22	1262.68	1277.58	1274.35
15.0	1266.97	1258.91	1252.42	1252.52	1254.89	1249.87	1238.67
17.5	1235.47	1229.26	1234.77	1238.76	1235.50	1218.14	1223.27
20.0	1203.29	1206.82	1213.87	1219.32	1194.40	1204.32	1199.11
22.5	1187.74	1179.95	1178.92	1175.71	1175.01	1183.80	1177.86
25.0	1169.65	1164.74	1150.97	1151.19	1153.43	1151.50	1148.35
27.5	1132.95	1131.55	1121.90	1116.75	1118.13	1111.00	1120.37
30.0	1100.60	1102.16	1089.98	1084.94	1087.72	1078.45	1080.68
32.5	1075.60	1074.41	1057.75	1052.33	1046.70	1052.75	1044.31
35.0	1032.21	1033.03	1025.56	1013.34	1010.64	1012.30	1005.14
37.5	1000.23	992.07	982.15	978.73	972.49	976.20	974.17
40.0	955.43	949.97	932.68	931.87	928.00	923.32	926.30
42.5	915.49	907.63	901.67	890.09	882.62	882.23	883.77
45.0	866.41	861.54	848.49	844.70	833.54	829.31	820.89
47.5	829.48	821.20	803.87	789.44	787.34	776.53	769.63
50.0	783.02	778.33	762.80	745.96	732.78	719.16	713.96
52.5	737.22	724.18	704.12	691.58	675.89	655.99	658.92
55.0	680.32	672.50	658.80	639.20	617.22	597.70	591.98
57.5	632.02	628.82	611.47	581.99	557.95	533.49	532.24
60.0	587.94	575.73	559.73	532.48	500.81	473.53	466.06
62.5	534.10	527.70	509.23	477.05	446.57	418.73	408.30
65.0	489.11	474.91	453.62	420.02	388.90	356.84	348.39
67.5	438.81	424.33	402.67	368.87	333.16	308.97	297.63
70.0	386.12	372.00	349.25	315.90	284.93	256.22	247.14
72.5	339.25	321.97	301.21	272.59	239.73	212.92	203.21
75.0	284.04	276.58	256.47	227.33	196.44	174.45	166.39
77.5	236.59	230.69	210.10	186.99	161.97	139.58	130.55
80.0	192.81	183.34	169.80	148.85	129.11	110.30	102.72
82.5	150.94	147.12	134.98	115.21	100.30	83.91	76.64
85.0	120.86	114.35	101.91	90.58	76.13	62.88	58.04
87.5	92.30	89.40	80.40	69.08	57.12	46.39	41.15
90.0	72.16	69.63	62.54	51.65	43.69	33.82	28.16
92.5	54.49	53.45	46.97	39.39	31.11	24.74	19.22
95.0	43.20	40.95	36.74	29.62	23.99	17.29	13.85
97.5	33.53	31.07	28.21	23.52	17.69	12.44	11.02
100.0	26.81	25.51	22.43	18.71	14.75	10.38	9.13
102.5	21.91	20.22	18.32	14.93	11.65	8.98	7.25
105.0	17.84	16.16	14.71	12.05	9.12	7.72	6.41
107.5	14.86	13.22	11.79	10.35	8.22	6.47	6.03
110.0	11.45	10.76	9.07	8.32	6.74	5.65	5.44
112.5	10.10	8.61	7.20	7.02	5.79	5.03	4.65
115.0	8.15	6.78	5.83	5.22	4.80	4.35	4.13

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CANDELA TABULATION - (Cont.)

117.5	6.24	5.22	4.14	4.57	4.09	3.68	4.03
120.0	4.68	4.33	3.63	3.34	2.96	3.22	3.29
122.5	3.81	3.08	2.74	2.81	2.79	2.48	2.63
125.0	2.92	2.54	2.06	2.18	2.30	2.09	2.41
127.5	2.26	1.62	1.58	1.48	1.92	1.81	1.58
130.0	1.72	1.07	1.05	1.13	1.46	1.44	1.27
132.5	1.06	0.68	0.49	0.74	1.06	1.01	0.94
135.0	0.70	0.45	0.32	0.55	0.74	1.00	0.73
137.5	0.24	0.26	0.20	0.27	0.32	0.49	0.46
140.0	0.14	0.13	0.07	0.19	0.18	0.35	0.34
142.5	0.08	0.09	0.07	0.08	0.14	0.13	0.15
145.0	0.10	0.09	0.04	0.07	0.01	0.01	0.06
147.5	0.05	0.14	0.11	0.13	0.11	0.03	0.04
150.0	0.10	0.18	0.22	0.14	0.18	0.02	0.12
152.5	0.27	0.14	0.24	0.26	0.12	0.20	0.21
155.0	0.25	0.41	0.26	0.32	0.29	0.18	0.30
157.5	0.36	0.32	0.46	0.31	0.24	0.31	0.38
160.0	0.25	0.42	0.42	0.48	0.35	0.33	0.36
162.5	0.44	0.42	0.58	0.52	0.38	0.25	0.39
165.0	0.48	0.38	0.41	0.30	0.37	0.65	0.43
167.5	0.52	0.34	0.18	0.37	0.50	0.58	0.76
170.0	0.69	0.35	0.49	0.21	0.48	0.49	0.63
172.5	0.59	0.39	0.56	0.38	0.17	0.48	0.24
175.0	0.58	0.17	0.45	0.24	0.39	0.46	0.47
177.5	0.91	0.18	0.16	0.69	0.00	0.54	0.95
180.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	478.61	N.A.	12.60
0-30	1012.63	N.A.	26.70
0-40	1656.1	N.A.	43.60
0-60	2908.00	N.A.	76.60
0-80	3616.09	N.A.	95.30
0-90	3730.01	N.A.	98.30
10-90	3605.61	N.A.	95.00
20-40	1177.49	N.A.	31.00
20-50	1840.64	N.A.	48.50
40-70	1695.38	N.A.	44.70
60-80	708.10	N.A.	18.70
70-80	264.61	N.A.	7.00
80-90	113.91	N.A.	3.00
90-110	55.53	N.A.	1.50
90-120	62.46	N.A.	1.60
90-130	65.02	N.A.	1.70
90-150	65.72	N.A.	1.70
90-180	65.98	N.A.	1.70
110-180	10.45	N.A.	0.30
0-180	3795.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.40
10-20	354.21
20-30	534.02
30-40	643.47
40-50	663.15
50-60	588.75
60-70	443.49
70-80	264.61
80-90	113.91
90-100	39.79
100-110	15.74
110-120	6.93
120-130	2.55
130-140	0.62
140-150	0.08
150-160	0.10
160-170	0.11
170-180	0.04

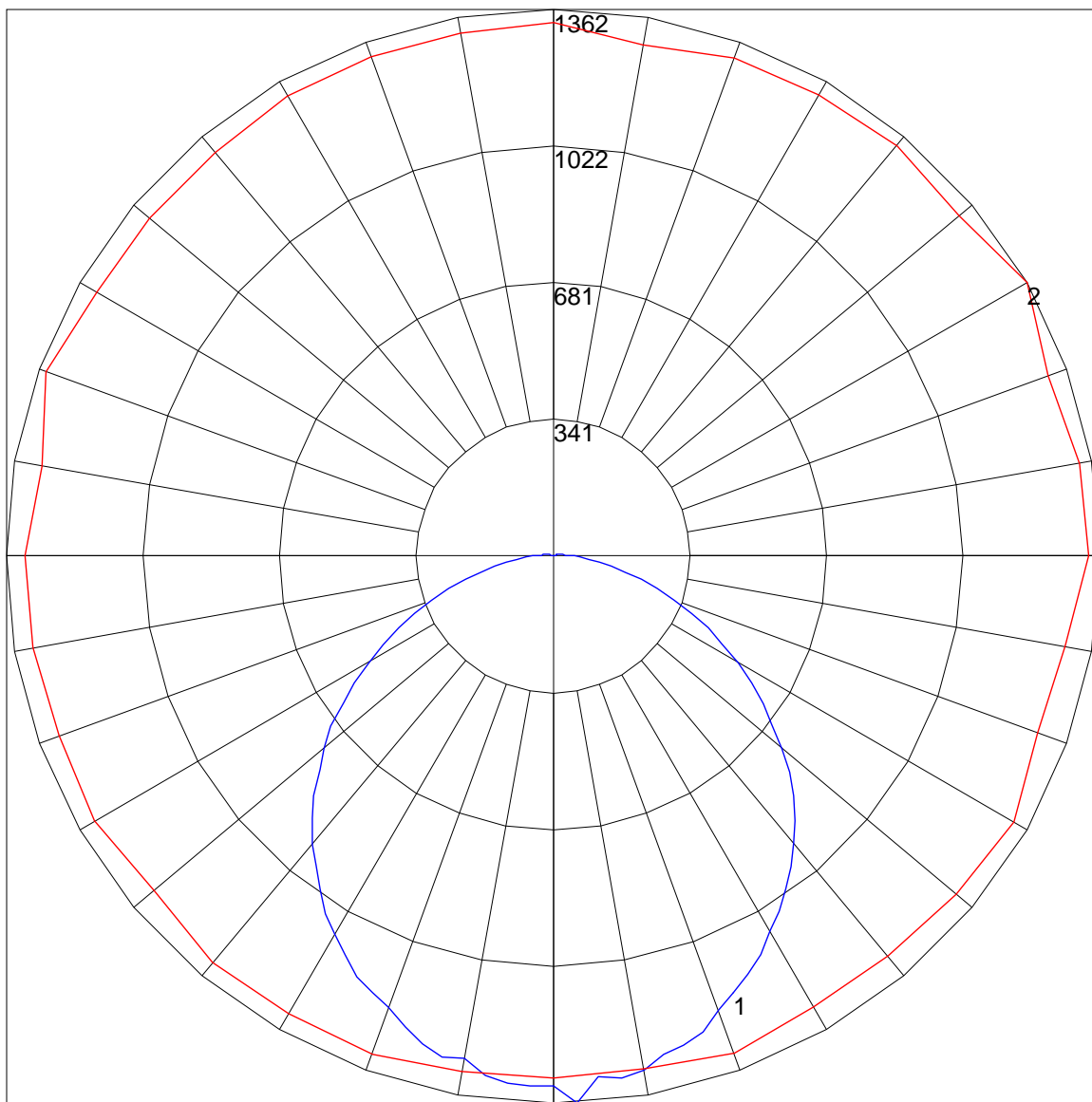
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	52	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 = 1362.34 Located At Horizontal Angle = 30, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (30 - 210) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)