



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED4HTVLOWT35120-277V-FL_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] Wed Jun 28 11:34:45 2017

[MANUFAC] BEGHELLI

[LUMINAIRE] BS100LED4HTVLOWT35120-277V-FL

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

[LAMPCAT] SPMWHT541MP5WAT0S5

[OTHER] Indoor Photometric Report

[OTHER] LUMINAIRE PROPERTIES

[OTHER] Number of lamps: 180

[OTHER] Lumens per lamp: 23.3

[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: 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	3954
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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)	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	5010	3850	3765
55	4228	3228	3182
65	3086	2538	2563
75	1777	1763	1759
85	963	933	890

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33
2.5	1366.53	1359.94	1379.51	1378.46	1373.12	1385.82	1407.39	1403.79	1382.03	1347.41
5.0	1377.18	1378.25	1386.28	1395.33	1380.91	1364.89	1359.88	1388.71	1383.98	1390.95
7.5	1361.59	1372.45	1370.76	1363.89	1364.88	1378.27	1359.16	1354.70	1375.41	1375.59
10.0	1340.83	1340.29	1333.82	1345.45	1341.09	1346.83	1334.21	1356.36	1353.20	1340.11
12.5	1329.82	1329.36	1338.23	1311.77	1330.94	1332.19	1328.60	1342.16	1331.45	1341.08
15.0	1321.81	1298.20	1293.42	1315.21	1303.96	1305.67	1301.95	1317.64	1322.71	1311.58
17.5	1281.17	1290.38	1273.78	1293.45	1286.21	1289.65	1304.81	1294.42	1297.51	1301.24
20.0	1261.63	1253.28	1265.97	1259.05	1259.51	1267.49	1265.03	1269.20	1259.01	1271.72
22.5	1222.17	1233.76	1232.06	1233.05	1233.98	1244.67	1249.23	1247.46	1254.44	1252.30
25.0	1198.12	1204.13	1189.05	1201.73	1208.29	1205.30	1214.81	1214.91	1225.93	1239.96
27.5	1160.35	1170.25	1167.15	1165.14	1170.50	1175.80	1179.39	1194.76	1196.34	1208.15
30.0	1133.42	1135.82	1138.58	1136.10	1134.01	1144.55	1145.62	1157.52	1161.61	1178.56
32.5	1101.07	1095.40	1093.25	1094.56	1096.97	1101.07	1118.78	1124.30	1138.49	1147.63
35.0	1056.92	1051.55	1055.05	1060.10	1054.15	1071.24	1069.12	1099.42	1101.68	1109.36
37.5	1010.65	1012.57	1017.96	1023.46	1022.92	1029.12	1031.51	1045.38	1065.07	1070.11
40.0	967.34	967.37	971.42	977.29	980.96	992.87	996.87	1011.64	1026.09	1039.82
42.5	918.38	919.00	923.94	925.64	930.14	939.34	949.30	964.75	982.98	985.74
45.0	866.90	864.12	869.65	883.83	889.73	899.77	903.33	917.12	932.11	940.64
47.5	803.04	815.90	813.86	827.53	837.96	853.05	853.87	875.07	879.39	894.10
50.0	741.23	751.99	761.03	773.40	787.45	804.90	812.17	818.74	832.84	849.12
52.5	676.77	687.04	700.09	720.08	737.39	747.43	762.14	768.30	783.38	793.86
55.0	611.51	616.33	637.09	664.05	680.77	696.95	713.64	720.57	732.37	743.22
57.5	542.19	552.86	570.16	609.35	625.39	649.48	662.12	674.34	679.71	694.84
60.0	471.97	482.48	508.99	543.93	576.01	593.86	613.95	622.41	631.45	632.77
62.5	404.32	415.84	448.90	487.20	522.42	547.62	556.58	568.67	580.76	592.17
65.0	345.09	352.69	384.35	433.14	464.65	489.25	509.58	515.86	526.56	538.83
67.5	277.23	293.27	326.65	373.51	416.46	440.78	455.74	468.97	473.55	485.27
70.0	224.23	236.59	274.30	323.85	360.82	392.10	402.70	415.89	421.61	430.28
72.5	175.17	190.84	226.53	270.98	312.06	335.81	353.36	360.82	367.13	373.80
75.0	134.33	146.10	184.82	225.17	265.14	287.46	300.86	308.87	309.33	317.38
77.5	100.28	113.76	144.67	180.61	217.17	238.20	249.30	255.93	259.05	263.36
80.0	72.79	84.15	112.49	144.02	173.82	193.03	201.55	203.31	206.55	211.82
82.5	51.65	61.64	84.52	110.77	136.44	155.74	160.00	162.17	165.10	163.86
85.0	35.72	44.80	64.00	82.91	107.15	118.20	127.62	126.59	128.86	129.27
87.5	23.91	32.46	47.26	63.70	78.96	91.44	96.81	97.76	97.34	99.14
90.0	14.64	22.11	34.64	47.98	61.39	70.03	73.09	74.60	74.10	76.89
92.5	9.57	14.30	24.69	34.76	46.20	51.72	56.37	57.00	57.49	57.50
95.0	6.83	9.63	16.96	25.77	34.42	39.72	42.43	44.50	43.73	43.40
97.5	5.34	6.72	11.82	19.57	24.88	30.77	32.93	32.31	34.94	33.77
100.0	4.23	4.59	8.76	14.06	18.68	23.36	25.69	26.77	27.58	26.67
102.5	3.49	3.49	6.11	10.04	14.54	17.62	20.13	21.31	21.66	22.41
105.0	2.67	2.95	3.95	7.48	10.61	13.70	15.79	17.90	18.09	19.53
107.5	2.32	2.47	3.03	5.23	7.35	10.97	12.83	14.14	15.11	15.74
110.0	1.84	2.06	2.21	3.72	5.90	7.88	10.45	11.81	12.07	12.82
112.5	1.61	1.74	1.67	2.55	4.46	6.31	8.35	9.95	10.39	10.95
115.0	1.59	1.40	1.44	1.64	2.89	4.66	6.65	7.75	8.43	8.52
117.5	1.30	1.38	1.39	1.07	1.90	3.30	5.15	6.21	6.82	6.83
120.0	1.09	1.13	0.90	0.82	1.17	2.36	3.74	4.77	5.68	5.54
122.5	0.64	0.77	0.66	0.58	0.79	1.60	2.73	3.63	3.92	3.66
125.0	0.66	0.60	0.59	0.42	0.36	1.15	1.92	2.41	2.75	2.77
127.5	0.49	0.51	0.36	0.32	0.15	0.42	1.12	1.63	2.11	2.15
130.0	0.50	0.42	0.36	0.23	0.15	0.18	0.43	1.05	1.20	1.53
132.5	0.29	0.18	0.19	0.11	0.06	0.01	0.13	0.52	0.62	0.86

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135.0	0.09	0.20	0.09	0.10	0.01	0.02	0.02	0.21	0.34	0.44
137.5	0.17	0.12	0.10	0.03	0.01	0.02	0.00	0.00	0.05	0.08
140.0	0.13	0.10	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.02	0.04	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0.0	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33
2.5	1357.49	1376.33	1380.19	1380.82	1390.05	1401.20	1403.34	1423.79	1355.64	1399.89
5.0	1366.33	1375.77	1386.29	1379.32	1361.83	1364.80	1379.83	1371.78	1371.78	1392.98
7.5	1372.24	1376.69	1355.56	1374.32	1359.59	1379.58	1364.56	1366.28	1381.01	1366.70
10.0	1373.64	1355.39	1350.82	1351.57	1349.54	1364.58	1344.71	1373.11	1360.50	1366.15
12.5	1341.62	1331.70	1327.38	1342.56	1346.04	1355.94	1346.55	1333.42	1345.24	1341.19
15.0	1316.64	1321.30	1324.25	1336.69	1322.71	1325.05	1311.52	1314.66	1313.55	1325.31
17.5	1303.36	1301.04	1306.17	1295.84	1295.37	1293.54	1294.22	1288.38	1297.27	1297.11
20.0	1289.43	1270.43	1276.04	1264.22	1264.81	1271.89	1272.73	1271.45	1281.91	1278.85
22.5	1260.25	1259.44	1246.01	1255.94	1242.66	1236.06	1250.74	1244.15	1239.08	1239.46
25.0	1229.42	1227.69	1218.81	1222.66	1226.31	1216.55	1220.42	1217.33	1217.60	1212.05
27.5	1206.07	1203.44	1194.73	1191.94	1189.64	1189.39	1180.21	1182.83	1184.13	1188.52
30.0	1175.78	1171.59	1165.34	1153.77	1154.23	1145.54	1146.59	1154.57	1152.94	1147.43
32.5	1146.04	1137.08	1124.63	1126.15	1114.70	1116.41	1115.30	1107.42	1118.35	1111.33
35.0	1105.16	1101.35	1090.87	1084.28	1076.76	1076.02	1076.54	1086.22	1067.86	1073.34
37.5	1070.39	1063.72	1045.76	1040.94	1037.76	1036.34	1030.55	1034.18	1036.58	1032.74
40.0	1034.29	1013.16	1005.64	999.47	994.23	991.14	989.01	994.65	984.68	993.80
42.5	985.03	971.35	958.76	957.24	951.90	943.68	941.84	945.89	937.02	941.26
45.0	938.00	921.92	915.22	908.39	900.07	894.21	894.87	885.33	887.07	890.25
47.5	894.90	882.07	872.89	866.42	856.14	841.24	831.28	834.81	826.86	829.57
50.0	840.36	821.83	822.64	814.18	809.27	796.88	777.29	776.13	769.93	767.58
52.5	789.81	781.55	780.76	764.48	753.67	732.34	720.64	711.59	698.14	712.24
55.0	737.03	723.66	721.43	704.67	701.16	684.51	663.05	641.48	636.20	645.42
57.5	689.06	673.86	672.27	661.42	645.67	625.23	601.31	577.33	564.01	577.27
60.0	633.09	623.78	620.78	609.81	593.18	570.35	529.76	510.47	499.97	507.32
62.5	582.23	573.06	568.28	563.31	539.14	502.59	470.29	442.63	432.80	440.88
65.0	527.92	522.38	517.78	506.31	486.01	450.87	410.06	381.45	367.66	379.29
67.5	475.01	473.24	466.34	454.02	428.38	395.08	350.07	318.80	306.75	315.44
70.0	426.50	422.68	409.95	397.65	376.10	338.89	295.79	262.54	250.50	265.02
72.5	366.93	366.57	361.10	348.05	324.77	291.07	248.33	214.05	199.44	213.92
75.0	314.43	311.92	308.76	297.66	273.12	238.06	200.48	170.99	158.04	170.40
77.5	256.97	258.15	255.42	245.48	226.62	196.24	162.71	132.49	119.19	133.07
80.0	210.92	206.82	204.16	199.54	183.96	154.04	128.19	101.32	88.92	99.45

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CANDELA TABULATION - (Cont.)

82.5	166.38	164.11	162.17	157.13	144.28	121.95	98.24	74.09	64.77	74.92
85.0	127.91	127.68	128.17	121.21	110.60	91.99	73.53	54.76	44.89	54.27
87.5	99.02	99.99	97.70	91.56	83.60	68.37	52.91	37.85	32.10	38.04
90.0	76.14	76.62	74.77	71.01	62.84	50.76	38.78	26.80	20.32	25.98
92.5	57.05	58.30	55.88	52.46	47.42	37.89	27.48	18.70	12.72	18.71
95.0	44.71	43.06	43.68	41.45	34.25	28.96	19.61	12.60	9.27	11.55
97.5	34.44	34.01	32.33	31.21	27.31	21.30	14.74	8.73	7.27	8.28
100.0	27.08	27.11	25.92	23.81	19.57	15.80	10.61	6.01	5.74	6.68
102.5	22.90	22.14	20.12	18.59	15.38	11.53	7.65	5.46	4.70	5.31
105.0	19.04	17.60	16.27	14.15	11.68	8.98	6.51	4.65	4.39	4.69
107.5	15.26	15.06	13.19	10.79	9.47	7.10	5.01	4.21	3.72	4.41
110.0	12.60	12.08	10.86	8.53	7.20	5.44	3.89	3.48	3.48	3.55
112.5	10.32	9.42	8.55	6.73	5.36	4.00	3.38	3.48	3.03	3.22
115.0	8.54	7.26	6.77	5.33	3.97	2.94	2.86	2.65	2.32	2.51
117.5	6.60	6.45	5.07	3.52	2.63	2.12	2.21	2.17	2.27	2.17
120.0	5.57	4.68	3.57	2.61	2.11	1.63	1.66	1.92	1.91	1.96
122.5	3.60	3.80	2.99	1.67	1.24	1.21	1.36	1.80	1.57	1.74
125.0	3.10	2.48	2.08	0.93	0.71	0.89	1.16	1.44	1.19	1.08
127.5	1.99	1.67	1.02	0.54	0.34	0.66	0.88	1.02	0.81	1.00
130.0	1.15	0.94	0.60	0.23	0.27	0.45	0.52	0.74	0.69	0.58
132.5	0.65	0.45	0.15	0.05	0.14	0.24	0.45	0.45	0.51	0.59
135.0	0.39	0.20	0.02	0.03	0.09	0.23	0.38	0.26	0.25	0.32
137.5	0.00	0.01	0.01	0.04	0.04	0.12	0.16	0.25	0.19	0.15
140.0	0.00	0.00	0.00	0.00	0.01	0.02	0.09	0.07	0.12	0.09
142.5	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.04	0.02	0.04
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<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	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33
2.5	1412.64	1373.89	1376.59	1386.88	1380.49	1382.11	1384.81	1397.35	1383.85	1395.25
5.0	1353.87	1401.39	1382.34	1364.82	1378.60	1362.67	1370.82	1343.39	1393.88	1383.10
7.5	1360.33	1363.92	1365.85	1378.63	1400.19	1345.46	1368.22	1361.29	1358.70	1362.22
10.0	1359.98	1337.60	1360.93	1352.16	1345.03	1369.70	1348.38	1344.84	1368.07	1342.41
12.5	1334.52	1332.02	1336.13	1346.64	1343.93	1343.74	1333.33	1336.67	1313.98	1337.85
15.0	1323.50	1331.19	1325.73	1320.74	1310.28	1311.82	1323.67	1309.88	1308.94	1312.79
17.5	1301.89	1308.48	1306.06	1296.88	1299.22	1302.75	1302.86	1305.91	1305.55	1303.28
20.0	1279.10	1271.98	1266.68	1280.85	1292.95	1285.73	1287.67	1275.56	1271.69	1268.99
22.5	1246.87	1244.95	1260.50	1248.64	1249.11	1255.71	1263.33	1267.02	1254.03	1251.54
25.0	1224.79	1216.88	1215.09	1219.52	1227.40	1233.39	1238.51	1230.84	1244.06	1225.53
27.5	1179.51	1189.40	1191.56	1185.87	1192.24	1194.21	1202.72	1203.88	1207.29	1194.23

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	1143.16	1160.78	1159.45	1154.50	1167.23	1176.16	1173.78	1183.92	1168.64	1167.45
32.5	1116.70	1117.19	1114.23	1110.80	1127.08	1141.00	1148.62	1142.54	1143.56	1125.00
35.0	1076.16	1073.13	1077.05	1086.46	1089.48	1099.27	1107.15	1110.82	1104.29	1088.01
37.5	1031.56	1034.40	1036.62	1043.67	1045.49	1049.58	1069.68	1065.46	1061.58	1050.07
40.0	987.05	984.84	997.25	999.32	1004.20	1015.15	1036.24	1031.56	1021.48	1008.99
42.5	939.14	937.61	956.57	956.46	961.61	969.19	979.10	989.46	983.92	960.26
45.0	887.88	898.29	901.41	912.17	916.59	926.14	944.90	939.63	934.03	913.79
47.5	830.95	846.74	858.65	863.41	867.54	876.67	895.13	890.36	891.51	863.14
50.0	773.67	796.92	805.84	814.70	821.93	826.97	844.35	844.16	835.56	822.61
52.5	716.10	741.46	755.35	765.11	775.36	774.78	786.11	793.85	786.35	769.33
55.0	658.70	679.17	699.65	713.30	722.15	731.85	736.36	741.18	732.09	720.20
57.5	597.48	625.00	646.11	665.46	676.20	677.11	684.20	691.03	680.98	668.58
60.0	532.41	568.28	591.38	615.23	620.03	623.44	632.55	641.40	624.75	619.36
62.5	468.37	504.26	539.00	554.94	569.38	573.28	579.63	588.80	579.77	570.57
65.0	408.74	447.61	479.77	501.25	518.30	526.47	530.80	534.83	530.87	517.53
67.5	350.06	392.75	430.36	454.11	461.61	472.91	476.69	485.20	478.22	464.95
70.0	294.91	339.55	373.67	401.78	412.50	420.99	424.44	425.93	421.72	411.22
72.5	246.84	286.56	325.72	344.96	359.66	364.35	367.85	373.60	364.53	361.08
75.0	203.16	238.88	276.13	294.74	307.16	309.64	313.01	314.44	310.40	309.20
77.5	161.66	194.70	225.79	246.50	255.03	257.60	257.28	259.75	257.50	255.55
80.0	128.64	154.09	182.24	198.87	205.46	210.34	211.15	212.23	206.60	205.45
82.5	96.92	119.55	144.92	158.53	163.59	166.68	165.14	167.15	165.72	161.42
85.0	73.03	91.70	109.53	122.09	127.71	127.31	129.42	131.99	129.24	126.64
87.5	53.56	67.53	83.18	93.00	97.53	99.51	100.41	99.65	98.76	97.75
90.0	38.66	51.45	64.18	71.82	75.26	74.66	73.86	76.19	76.13	74.76
92.5	28.19	37.71	47.73	53.78	57.14	58.82	56.79	57.32	55.82	55.91
95.0	19.55	27.96	35.18	40.09	43.99	44.29	43.96	43.55	44.77	44.10
97.5	14.98	20.90	26.91	29.81	33.54	35.09	34.56	33.47	33.45	33.78
100.0	10.42	15.44	20.31	24.26	26.47	27.53	27.56	27.11	27.87	27.58
102.5	7.70	12.01	15.17	18.29	20.63	22.23	21.78	21.22	22.22	21.69
105.0	5.75	8.89	12.04	14.46	16.36	17.81	18.60	18.48	18.31	18.30
107.5	5.03	6.94	8.78	11.08	13.56	14.92	14.66	15.78	14.94	15.09
110.0	3.74	5.18	7.42	8.79	10.47	12.20	12.80	12.72	12.21	12.12
112.5	3.43	4.17	5.44	6.29	8.55	9.97	10.35	10.81	10.34	10.39
115.0	3.10	2.98	3.68	5.41	6.38	7.93	7.97	8.50	8.09	7.68
117.5	2.25	2.14	2.74	3.24	5.41	6.09	6.02	6.33	7.41	6.61
120.0	1.83	1.50	1.85	2.65	3.46	4.54	5.21	5.44	5.14	4.60
122.5	1.63	1.20	0.99	1.65	2.84	3.34	3.87	4.13	3.87	2.98
125.0	1.08	0.99	0.63	1.07	1.59	2.52	2.60	2.66	2.65	2.50
127.5	0.93	0.79	0.33	0.55	1.15	1.78	2.03	2.19	1.76	1.60
130.0	0.57	0.40	0.31	0.19	0.39	0.91	1.32	1.59	1.29	0.96
132.5	0.33	0.20	0.13	0.10	0.10	0.38	0.61	0.61	0.71	0.27
135.0	0.33	0.18	0.13	0.06	0.03	0.09	0.21	0.26	0.25	0.06
137.5	0.14	0.10	0.04	0.03	0.00	0.00	0.00	0.03	0.00	0.00
140.0	0.07	0.07	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	300	310	320	330	340	350	360
0.0	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33	1378.33
2.5	1384.91	1382.07	1374.92	1378.03	1381.27	1362.78	1366.53
5.0	1382.03	1372.60	1384.01	1356.65	1351.61	1386.17	1377.18
7.5	1363.36	1367.20	1352.87	1368.95	1372.39	1350.08	1361.59
10.0	1340.94	1342.70	1344.95	1338.26	1341.65	1344.65	1340.83
12.5	1331.11	1335.49	1339.45	1336.23	1324.08	1332.36	1329.82
15.0	1327.06	1320.29	1303.92	1314.01	1309.47	1305.57	1321.81
17.5	1297.21	1300.14	1292.22	1297.60	1280.24	1286.81	1281.27
20.0	1269.06	1264.65	1251.86	1249.49	1259.98	1269.11	1261.65
22.5	1245.79	1237.19	1229.07	1223.62	1233.58	1231.34	1222.17
25.0	1217.06	1216.58	1216.77	1209.47	1195.97	1199.72	1198.14
27.5	1193.40	1186.50	1178.88	1174.15	1168.16	1166.51	1160.37
30.0	1147.31	1141.83	1132.92	1137.22	1130.21	1132.49	1133.42
32.5	1115.34	1118.25	1103.19	1094.25	1099.84	1093.06	1101.09
35.0	1074.94	1064.90	1065.91	1066.07	1057.48	1054.59	1056.92
37.5	1040.32	1024.32	1021.23	1015.13	1017.38	1007.80	1010.67
40.0	995.22	988.28	986.23	971.16	974.44	965.02	967.36
42.5	952.41	942.90	937.17	925.41	922.89	918.51	918.38
45.0	904.15	901.36	888.93	875.94	869.54	869.62	866.90
47.5	859.85	850.60	840.65	826.36	824.00	815.98	803.04
50.0	811.76	804.43	788.01	778.10	758.51	749.45	741.23
52.5	764.51	754.65	743.35	720.54	703.31	683.37	676.77
55.0	719.10	698.59	687.93	664.55	634.09	615.88	611.51
57.5	661.99	647.17	627.46	602.34	577.90	551.35	542.20
60.0	614.64	599.52	573.58	545.54	508.74	483.67	471.97
62.5	558.38	543.88	520.48	486.39	449.98	414.92	404.32
65.0	509.70	493.85	469.99	430.03	381.54	351.36	345.09
67.5	455.94	441.16	414.61	377.80	330.20	293.47	277.23
70.0	407.51	386.83	360.43	317.59	272.26	239.95	224.23
72.5	351.36	335.16	309.76	272.00	223.55	187.56	175.17
75.0	298.07	289.98	262.85	223.04	181.12	148.21	134.35
77.5	248.12	237.96	216.30	182.65	146.32	113.88	100.28
80.0	201.87	193.75	173.76	141.93	113.06	85.17	72.79
82.5	159.97	152.62	136.01	113.21	85.70	63.03	51.65
85.0	126.43	118.53	107.24	84.69	63.27	45.83	35.72
87.5	96.65	90.63	81.65	62.68	46.93	31.60	23.91
90.0	73.48	69.85	60.73	48.87	34.14	21.86	14.65
92.5	57.34	53.64	45.11	34.93	24.78	14.13	9.57
95.0	41.92	40.19	33.99	25.69	17.25	9.93	6.83
97.5	32.68	30.42	25.78	18.93	11.91	6.52	5.34
100.0	26.31	24.25	19.62	13.77	8.75	4.52	4.23
102.5	20.97	17.87	14.24	10.25	5.86	3.48	3.49
105.0	15.72	13.81	10.22	7.34	4.63	3.11	2.67
107.5	13.24	10.40	7.87	5.39	2.96	2.60	2.32
110.0	10.62	8.00	6.00	3.67	2.27	2.21	1.84
112.5	8.04	6.35	4.35	2.39	1.76	1.69	1.61
115.0	6.92	4.71	3.15	1.53	1.60	1.37	1.59

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CANDELA TABULATION - (Cont.)

117.5	4.99	3.28	2.11	1.15	1.17	1.31	1.30
120.0	3.62	2.27	1.30	0.63	0.92	1.04	1.10
122.5	2.16	1.55	0.52	0.59	0.73	0.81	0.64
125.0	1.72	1.01	0.31	0.43	0.55	0.61	0.66
127.5	0.96	0.25	0.16	0.33	0.45	0.55	0.49
130.0	0.36	0.13	0.10	0.14	0.41	0.39	0.50
132.5	0.06	0.04	0.10	0.13	0.19	0.22	0.29
135.0	0.00	0.02	0.03	0.10	0.20	0.17	0.09
137.5	0.00	0.00	0.01	0.04	0.06	0.11	0.17
140.0	0.00	0.00	0.01	0.03	0.05	0.08	0.13
142.5	0.00	0.00	0.00	0.00	0.04	0.03	0.02
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	502.03	N.A.	12.70
0-30	1062.9	N.A.	26.90
0-40	1737.94	N.A.	44.00
0-60	3050.37	N.A.	77.10
0-80	3783.27	N.A.	95.70
0-90	3897.37	N.A.	98.60
10-90	3766.8	N.A.	95.30
20-40	1235.91	N.A.	31.30
20-50	1931.57	N.A.	48.80
40-70	1773.31	N.A.	44.80
60-80	732.90	N.A.	18.50
70-80	272.01	N.A.	6.90
80-90	114.10	N.A.	2.90
90-110	50.49	N.A.	1.30
90-120	55.41	N.A.	1.40
90-130	56.81	N.A.	1.40
90-150	56.98	N.A.	1.40
90-180	56.98	N.A.	1.40
110-180	6.49	N.A.	0.20
0-180	3954.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.57
10-20	371.46
20-30	560.87
30-40	675.04
40-50	695.66
50-60	616.76
60-70	460.89
70-80	272.01
80-90	114.10
90-100	37.43
100-110	13.06
110-120	4.93
120-130	1.39
130-140	0.17
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

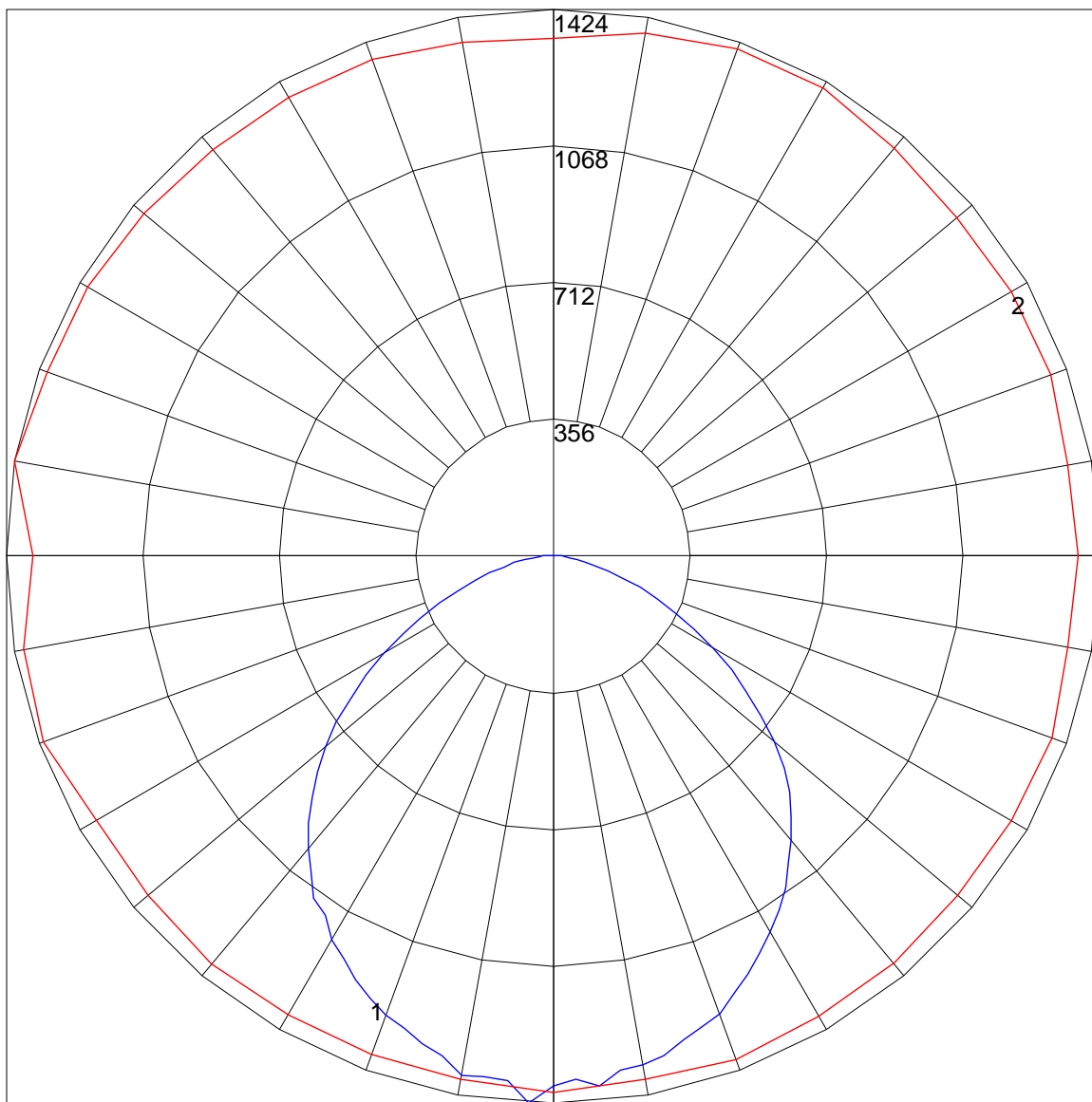
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	70	68
3	90	79	71	64	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	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 = 1423.79 Located At Horizontal Angle = 170, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (170 - 350) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)