

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P395888

Luminaire Tested: **I3-WL-50L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-50L83050-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4553.2 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

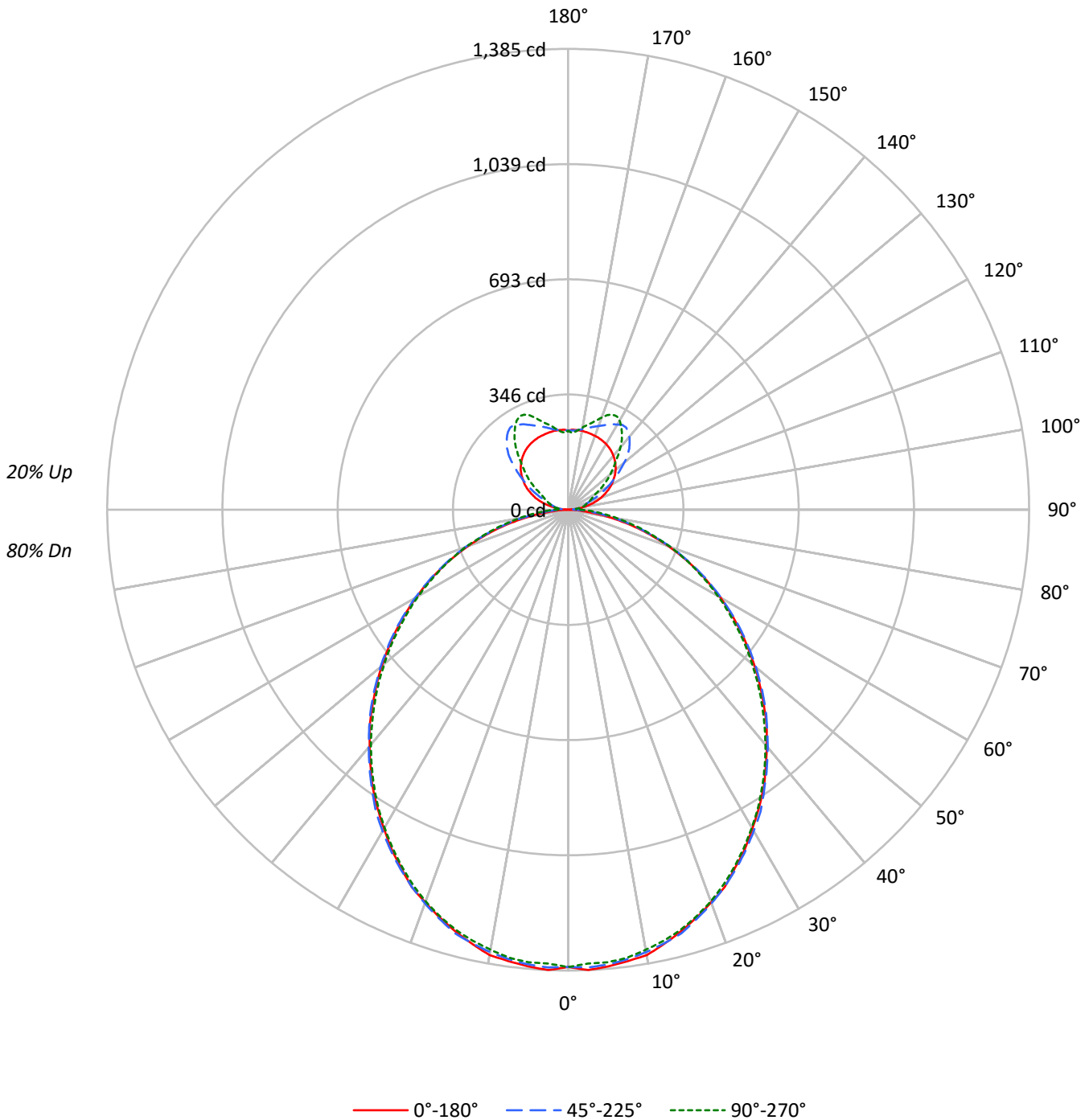
Input Watts (W): 50.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	83	83	83	80
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	70	70	70	67
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	59	59	59	56
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	50	50	50	47
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	43	43	43	40
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	38	38	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	33	33	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	30	30	30	27
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	26	26	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	24	24	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7554	7554	7554
5°	7574	7398	7318
10°	7530	7197	7080
15°	7379	6998	6827
20°	7233	6716	6532
25°	7060	6431	6207
30°	6857	6136	5873
35°	6667	5808	5528
40°	6428	5471	5170
45°	6199	5141	4793
50°	5952	4780	4412
55°	5693	4410	4023
60°	5405	4000	3622
65°	5072	3555	3192
70°	4601	3034	2740
75°	3964	2405	2200
80°	3024	1732	1643
85°	1578	1035	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	2.9
10°-20°	368.3	8.1
20°-30°	545.3	12.0
30°-40°	637.4	14.0
40°-50°	640.2	14.1
50°-60°	562.7	12.4
60°-70°	421.6	9.3
70°-80°	239.8	5.3
80°-90°	75.7	1.7
90°-100°	27.3	0.6
100°-110°	66.5	1.5
110°-120°	110.5	2.4
120°-130°	155.0	3.4
130°-140°	178.6	3.9
140°-150°	170.6	3.7
150°-160°	128.3	2.8
160°-170°	72.6	1.6
170°-180°	23.0	0.5
0°-30°	1043.5	22.9
0°-40°	1680.9	36.9
0°-60°	2883.8	63.3
0°-90°	3620.9	79.5
90°-120°	204.3	4.5
90°-150°	708.4	15.6
90°-180°	932.0	20.5
0°-180°	4553.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1378	1364	1372	1367	1365	131
15°	1312	1300	1317	1308	1307	370
25°	1187	1184	1192	1187	1182	547
35°	1023	1015	1027	1019	1016	639
45°	831	830	837	828	822	642
55°	630	632	635	627	620	563
65°	426	427	429	426	421	420
75°	216	220	226	232	232	229
85°	37	49	66	81	85	48
90°	1	7	21	31	36	3
95°	20	20	20	22	23	22
105°	78	66	50	52	54	81
115°	128	159	98	79	78	127
125°	169	232	176	141	130	151
135°	200	254	259	215	200	154
145°	221	251	302	290	281	138
155°	232	246	281	310	315	107
165°	238	242	256	266	270	68
175°	241	238	238	238	235	23
180°	237	237	237	237	237	



TEST NUMBER: P395888

CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1384.8	1382.5	1376.7	1370.9	1369.7	1368.5	1368.5	1367.4	1367.4	1369.7	1376.7
5°	1377.8	1376.7	1370.9	1365.1	1363.9	1363.9	1362.7	1362.7	1362.7	1365.1	1372.0
7.5°	1368.5	1366.2	1360.4	1354.6	1353.4	1353.4	1353.4	1352.3	1353.4	1354.6	1362.7
10°	1359.2	1358.1	1352.3	1345.3	1343.0	1343.0	1341.8	1339.5	1339.5	1341.8	1349.9
12.5°	1336.0	1334.8	1329.0	1324.4	1324.4	1325.5	1325.5	1326.7	1326.7	1329.0	1334.8
15°	1311.6	1310.4	1304.6	1299.9	1299.9	1299.9	1298.8	1298.8	1299.9	1306.9	1317.4
17.5°	1284.8	1283.7	1279.0	1274.4	1274.4	1274.4	1273.2	1273.2	1274.4	1277.9	1288.3
20°	1255.8	1254.6	1249.9	1245.3	1245.3	1245.3	1244.1	1245.3	1245.3	1249.9	1259.2
22.5°	1227.9	1225.5	1219.7	1215.1	1212.7	1212.7	1212.7	1211.6	1213.9	1217.4	1226.7
25°	1187.2	1186.0	1183.7	1180.2	1182.5	1183.7	1181.3	1179.0	1179.0	1183.7	1191.8
27.5°	1150.0	1147.6	1144.1	1140.6	1138.3	1139.5	1140.6	1143.0	1146.5	1147.6	1154.6
30°	1106.9	1105.8	1102.3	1097.6	1098.8	1100.0	1100.0	1100.0	1102.3	1112.7	1115.1
32.5°	1065.1	1063.9	1060.4	1055.8	1056.9	1058.1	1056.9	1058.1	1060.4	1065.1	1075.5
35°	1023.2	1020.9	1017.4	1016.2	1015.1	1015.1	1015.1	1016.2	1017.4	1020.9	1026.7
37.5°	975.5	973.2	970.9	967.4	969.7	972.1	973.2	972.1	973.2	977.9	980.2
40°	927.9	926.7	924.4	922.1	923.2	924.4	923.2	926.7	929.0	931.4	932.5
42.5°	882.5	880.2	877.9	876.7	876.7	877.9	877.9	880.2	880.2	886.0	884.8
45°	831.4	830.2	829.0	829.0	830.2	830.2	830.2	831.4	832.5	836.0	837.2
47.5°	781.4	780.2	780.2	780.2	780.2	781.4	782.5	786.0	783.7	784.8	786.0
50°	731.4	730.2	730.2	730.2	732.5	732.5	734.9	736.0	737.2	734.9	736.0
52.5°	680.2	679.0	681.4	681.4	683.7	683.7	687.2	683.7	686.0	684.9	684.9
55°	630.2	629.0	631.4	630.2	632.5	632.5	634.9	636.0	634.9	634.9	634.9
57.5°	579.0	577.9	579.0	580.2	581.4	581.4	584.9	584.9	581.4	583.7	582.5
60°	527.9	526.7	527.9	529.0	530.2	530.2	531.4	529.0	531.4	532.5	531.4
62.5°	476.7	475.6	477.9	476.7	477.9	479.0	479.0	482.5	481.4	481.4	480.2
65°	425.6	424.4	424.4	424.4	425.6	426.7	427.9	429.1	429.1	430.2	429.1
67.5°	373.2	372.1	373.2	372.1	373.2	374.4	376.7	377.9	377.9	379.1	377.9
70°	319.8	320.9	319.8	320.9	322.1	323.2	324.4	326.7	326.7	326.7	326.7
72.5°	267.4	266.3	266.3	265.1	267.4	268.6	269.8	273.2	273.2	274.4	274.4
75°	216.3	213.9	215.1	213.9	218.6	219.8	219.8	223.2	224.4	226.7	225.6
77.5°	166.3	166.3	163.9	167.4	168.6	170.9	173.2	175.6	176.7	180.2	180.2
80°	118.6	118.6	117.4	119.8	124.4	125.6	129.1	130.2	133.7	136.0	137.2
82.5°	75.6	75.6	75.6	79.1	82.6	83.7	87.2	90.7	93.0	96.5	97.7
85°	37.2	39.5	39.5	44.2	46.5	48.8	50.0	54.6	58.1	62.8	66.3
87.5°	11.6	12.8	14.0	16.3	20.9	22.1	24.4	29.1	32.6	37.2	40.7
90°	1.2	1.2	2.3	3.5	5.8	7.0	9.3	11.6	15.1	18.6	20.9
92.5°	8.1	8.1	9.3	9.3	9.3	9.3	9.3	10.5	11.6	14.0	15.1
95°	19.8	31.4	18.6	17.4	19.8	19.8	20.9	19.8	19.8	19.8	19.8
97.5°	32.6	58.1	38.4	26.7	25.6	26.7	26.7	29.1	30.2	31.4	31.4
100°	47.7	73.3	67.4	44.2	36.0	34.9	34.9	34.9	36.0	37.2	38.4
102.5°	62.8	83.7	96.5	68.6	51.2	46.5	44.2	43.0	41.9	43.0	43.0
105°	77.9	94.2	118.6	93.0	73.3	66.3	59.3	51.2	50.0	50.0	50.0
107.5°	91.9	104.6	134.9	120.9	95.3	88.4	80.2	67.4	59.3	58.1	57.0
110°	104.6	115.1	146.5	144.2	119.8	109.3	102.3	88.4	76.7	68.6	65.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	116.3	125.6	154.6	163.9	146.5	133.7	123.3	109.3	96.5	86.0	77.9
115°	127.9	136.0	161.6	180.2	169.8	159.3	147.7	130.2	117.4	107.0	97.7
117.5°	139.5	146.5	168.6	191.9	189.5	182.6	173.2	152.3	137.2	126.7	116.3
120°	150.0	157.0	175.6	200.0	207.0	201.2	195.3	176.7	158.1	146.5	137.2
122.5°	159.3	165.1	182.6	207.0	219.8	218.6	212.8	200.0	181.4	167.4	155.8
125°	168.6	174.4	189.5	211.6	229.1	232.5	230.2	219.8	205.8	189.5	175.6
127.5°	177.9	182.6	196.5	216.3	236.0	243.0	244.2	237.2	226.7	212.8	197.7
130°	186.0	190.7	202.3	219.8	240.7	248.8	253.5	252.3	244.2	234.9	219.8
132.5°	193.0	196.5	208.1	223.2	243.0	252.3	259.3	265.1	259.3	252.3	241.8
135°	200.0	203.5	212.8	226.7	244.2	253.5	262.8	272.1	273.2	267.4	259.3
137.5°	205.8	208.1	217.4	229.1	244.2	253.5	262.8	275.6	282.5	280.2	273.2
140°	211.6	213.9	220.9	232.5	245.3	253.5	261.6	276.7	286.0	289.5	286.0
142.5°	216.3	218.6	224.4	234.9	245.3	252.3	260.5	274.4	287.2	294.2	296.5
145°	220.9	222.1	227.9	236.0	245.3	251.2	258.1	272.1	284.9	295.3	302.3
147.5°	224.4	225.6	229.1	237.2	245.3	250.0	255.8	267.4	280.2	291.8	302.3
150°	227.9	227.9	231.4	237.2	245.3	248.8	253.5	263.9	274.4	286.0	295.3
152.5°	230.2	230.2	233.7	238.4	244.2	247.7	252.3	260.5	269.8	280.2	289.5
155°	232.5	232.5	234.9	238.4	244.2	246.5	250.0	257.0	265.1	273.2	281.4
157.5°	234.9	234.9	236.0	239.5	243.0	245.3	248.8	254.6	260.5	267.4	274.4
160°	236.0	236.0	237.2	239.5	241.8	244.2	246.5	251.2	257.0	261.6	267.4
162.5°	237.2	237.2	238.4	239.5	241.8	243.0	244.2	248.8	252.3	257.0	261.6
165°	238.4	238.4	238.4	239.5	240.7	241.8	243.0	245.3	248.8	252.3	255.8
167.5°	239.5	239.5	239.5	239.5	240.7	240.7	241.8	243.0	245.3	247.7	250.0
170°	240.7	239.5	239.5	240.7	239.5	239.5	240.7	241.8	241.8	244.2	245.3
172.5°	240.7	240.7	239.5	239.5	239.5	239.5	239.5	239.5	239.5	240.7	241.8
175°	240.7	240.7	239.5	239.5	239.5	238.4	238.4	238.4	238.4	238.4	238.4
177.5°	240.7	240.7	239.5	239.5	238.4	238.4	238.4	238.4	238.4	238.4	238.4
180°	237.2	237.2	237.2	237.2	237.2	237.2	237.2	237.2	237.2	237.2	237.2



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CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1383.7	1377.8	1375.5	1374.4	1373.2	1372.0	1369.7	1367.4	1365.1	1365.1
5°	1377.8	1372.0	1369.7	1368.5	1367.4	1366.2	1365.1	1365.1	1365.1	1365.1
7.5°	1368.5	1362.7	1360.4	1359.2	1359.2	1358.1	1358.1	1358.1	1356.9	1358.1
10°	1354.6	1348.8	1347.6	1346.5	1345.3	1343.0	1343.0	1343.0	1341.8	1343.0
12.5°	1337.2	1331.3	1330.2	1329.0	1327.8	1326.7	1326.7	1325.5	1325.5	1326.7
15°	1319.7	1311.6	1309.2	1309.2	1308.1	1306.9	1308.1	1306.9	1306.9	1306.9
17.5°	1294.1	1290.6	1287.2	1284.8	1283.7	1282.5	1282.5	1281.3	1281.3	1281.3
20°	1260.4	1260.4	1260.4	1254.6	1253.4	1252.3	1252.3	1252.3	1252.3	1252.3
22.5°	1227.9	1222.0	1226.7	1223.2	1220.9	1218.6	1219.7	1219.7	1219.7	1219.7
25°	1191.8	1187.2	1188.3	1189.5	1187.2	1183.7	1183.7	1183.7	1183.7	1182.5
27.5°	1153.4	1150.0	1148.8	1150.0	1152.3	1150.0	1146.5	1143.0	1144.1	1144.1
30°	1111.6	1110.4	1109.3	1106.9	1109.3	1110.4	1104.6	1103.4	1103.4	1103.4
32.5°	1069.7	1068.6	1065.1	1062.7	1063.9	1066.2	1063.9	1061.6	1061.6	1061.6
35°	1027.9	1023.2	1019.7	1018.6	1018.6	1020.9	1019.7	1016.2	1016.2	1016.2
37.5°	979.0	980.2	974.4	973.2	973.2	973.2	975.5	969.7	970.9	969.7
40°	931.4	932.5	929.0	925.5	926.7	924.4	927.9	922.1	922.1	922.1
42.5°	883.7	881.4	882.5	875.5	876.7	876.7	877.9	874.4	873.2	872.1
45°	834.8	832.5	831.4	827.9	827.9	826.7	826.7	822.1	822.1	822.1
47.5°	783.7	782.5	780.2	777.9	777.9	776.7	774.4	773.2	772.1	772.1
50°	734.9	731.4	727.9	729.0	727.9	726.7	724.4	723.2	722.1	720.9
52.5°	682.5	682.5	677.9	677.9	677.9	676.7	674.4	672.1	672.1	670.9
55°	631.4	630.2	626.7	625.6	626.7	625.6	623.2	620.9	620.9	619.7
57.5°	580.2	577.9	576.7	576.7	575.6	575.6	572.1	569.7	570.9	569.7
60°	527.9	527.9	526.7	525.6	525.6	524.4	520.9	520.9	520.9	519.7
62.5°	477.9	477.9	475.6	474.4	475.6	474.4	473.2	472.1	470.9	469.7
65°	425.6	426.7	424.4	425.6	425.6	423.2	423.2	422.1	422.1	420.9
67.5°	376.7	376.7	375.6	375.6	376.7	375.6	375.6	374.4	374.4	373.2
70°	326.7	329.1	327.9	327.9	327.9	326.7	326.7	326.7	325.6	326.7
72.5°	276.7	276.7	276.7	276.7	276.7	277.9	277.9	277.9	277.9	276.7
75°	230.2	231.4	230.2	231.4	232.5	232.5	232.5	232.5	233.7	232.5
77.5°	184.9	186.0	186.0	188.4	188.4	188.4	189.5	189.5	189.5	189.5
80°	141.9	143.0	144.2	146.5	146.5	148.8	150.0	150.0	150.0	150.0
82.5°	102.3	105.8	107.0	110.5	111.6	111.6	113.9	115.1	115.1	115.1
85°	70.9	74.4	76.7	79.1	81.4	81.4	83.7	83.7	84.9	84.9
87.5°	44.2	47.7	50.0	53.5	54.6	55.8	57.0	58.1	59.3	59.3
90°	24.4	26.7	29.1	31.4	31.4	32.6	33.7	34.9	36.0	36.0
92.5°	17.4	18.6	20.9	22.1	22.1	23.3	24.4	24.4	25.6	25.6
95°	19.8	20.9	20.9	22.1	22.1	22.1	23.3	23.3	23.3	23.3
97.5°	30.2	30.2	30.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1
100°	39.5	40.7	40.7	40.7	41.9	41.9	41.9	41.9	40.7	40.7
102.5°	44.2	45.3	46.5	47.7	47.7	47.7	48.8	48.8	48.8	48.8
105°	50.0	50.0	51.2	52.3	52.3	52.3	53.5	53.5	53.5	53.5
107.5°	57.0	57.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
110°	65.1	65.1	65.1	64.0	65.1	64.0	64.0	64.0	64.0	64.0



TEST NUMBER: P395888

CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	74.4	73.3	73.3	72.1	72.1	72.1	70.9	70.9	70.9	70.9
115°	89.5	83.7	81.4	79.1	79.1	79.1	77.9	77.9	77.9	77.9
117.5°	108.1	100.0	95.3	90.7	89.5	88.4	86.0	86.0	84.9	84.9
120°	127.9	119.8	112.8	107.0	104.6	103.5	100.0	97.7	95.3	95.3
122.5°	146.5	138.4	131.4	125.6	123.3	120.9	117.4	115.1	112.8	112.8
125°	165.1	157.0	150.0	144.2	140.7	138.4	134.9	132.6	130.2	130.2
127.5°	184.9	174.4	167.4	161.6	158.1	157.0	152.3	150.0	147.7	147.7
130°	207.0	194.2	184.9	177.9	175.6	173.2	169.8	167.4	165.1	165.1
132.5°	229.1	216.3	205.8	196.5	193.0	190.7	186.0	183.7	181.4	181.4
135°	250.0	238.4	227.9	218.6	215.1	211.6	207.0	202.3	200.0	200.0
137.5°	266.3	258.1	248.8	240.7	237.2	233.7	229.1	224.4	220.9	222.1
140°	280.2	273.2	267.4	261.6	258.1	255.8	251.2	247.7	244.2	244.2
142.5°	293.0	287.2	281.4	276.7	275.6	274.4	270.9	267.4	265.1	265.1
145°	304.6	301.1	296.5	290.7	289.5	288.4	284.9	282.5	281.4	281.4
147.5°	308.1	309.3	308.1	304.6	303.5	302.3	300.0	297.7	296.5	296.5
150°	305.8	310.5	312.8	312.8	312.8	312.8	312.8	310.5	309.3	309.3
152.5°	298.8	305.8	310.5	313.9	315.1	316.3	316.3	317.4	316.3	316.3
155°	290.7	297.7	304.6	308.1	310.5	311.6	313.9	315.1	316.3	315.1
157.5°	281.4	287.2	291.8	298.8	301.1	303.5	305.8	308.1	309.3	308.1
160°	273.2	277.9	281.4	286.0	287.2	289.5	291.8	293.0	295.3	294.2
162.5°	265.1	268.6	272.1	274.4	276.7	277.9	280.2	281.4	282.5	281.4
165°	259.3	261.6	262.8	265.1	266.3	267.4	268.6	269.8	269.8	269.8
167.5°	252.3	254.6	255.8	257.0	258.1	259.3	259.3	260.5	260.5	260.5
170°	246.5	247.7	248.8	250.0	250.0	251.2	251.2	251.2	252.3	251.2
172.5°	241.8	241.8	241.8	243.0	243.0	243.0	243.0	243.0	243.0	241.8
175°	239.5	239.5	238.4	238.4	238.4	238.4	238.4	237.2	236.0	234.9
177.5°	238.4	237.2	237.2	236.0	236.0	236.0	234.9	233.7	232.5	231.4
180°	237.2	237.2	237.2	237.2	237.2	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)