

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: P393847

Luminaire Tested: **I3-WL-50L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-50L830-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4581.1 lumens
Efficiency: N/A
Efficacy: 106.8 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

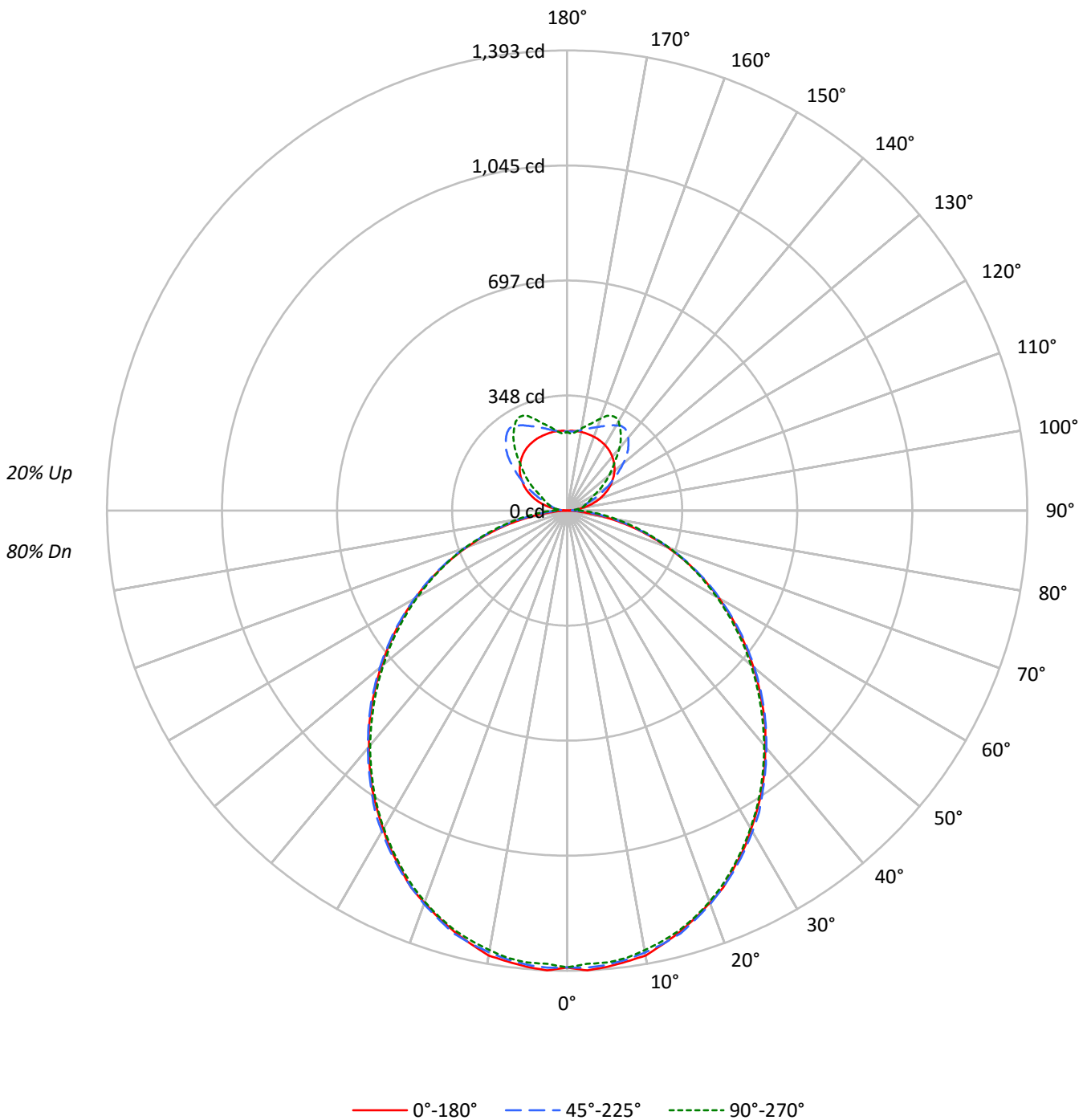
Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393847

CATALOG NUMBER: I3-WL-50L830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7601	7601	7601
5°	7620	7443	7363
10°	7576	7241	7123
15°	7424	7041	6869
20°	7278	6757	6572
25°	7103	6470	6245
30°	6899	6173	5909
35°	6708	5844	5563
40°	6468	5504	5202
45°	6237	5173	4822
50°	5988	4809	4439
55°	5728	4436	4048
60°	5438	4024	3644
65°	5103	3576	3212
70°	4629	3053	2757
75°	3988	2420	2215
80°	3042	1742	1652
85°	1587	1042	1120



TEST NUMBER: P393847

CATALOG NUMBER: I3-WL-50L830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	2.9
10°-20°	370.6	8.1
20°-30°	548.7	12.0
30°-40°	641.3	14.0
40°-50°	644.2	14.1
50°-60°	566.1	12.4
60°-70°	424.2	9.3
70°-80°	241.2	5.3
80°-90°	76.2	1.7
90°-100°	27.5	0.6
100°-110°	66.9	1.5
110°-120°	111.2	2.4
120°-130°	155.9	3.4
130°-140°	179.7	3.9
140°-150°	171.6	3.7
150°-160°	129.1	2.8
160°-170°	73.0	1.6
170°-180°	23.1	0.5
0°-30°	1049.9	22.9
0°-40°	1691.2	36.9
0°-60°	2901.5	63.3
0°-90°	3643.1	79.5
90°-120°	205.5	4.5
90°-150°	712.8	15.6
90°-180°	938.0	20.5
0°-180°	4581.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1386	1372	1380	1376	1373	132
15°	1320	1308	1326	1316	1315	372
25°	1194	1191	1199	1194	1190	551
35°	1030	1021	1033	1025	1022	643
45°	836	835	842	833	827	646
55°	634	636	639	631	624	567
65°	428	429	432	428	424	423
75°	218	221	227	234	234	231
85°	37	49	67	82	85	49
90°	1	7	21	32	36	3
95°	20	20	20	22	23	22
105°	78	67	50	53	54	82
115°	129	160	98	80	78	127
125°	170	234	177	142	131	152
135°	201	255	261	216	201	155
145°	222	253	304	291	283	139
155°	234	248	283	312	317	108
165°	240	243	257	268	271	68
175°	242	240	240	240	236	23
180°	239	239	239	239	239	



TEST NUMBER: P393847

CATALOG NUMBER: I3-WL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8
2.5°	1393.3	1391.0	1385.1	1379.3	1378.1	1376.9	1376.9	1375.8	1375.8	1378.1	1385.1
5°	1386.3	1385.1	1379.3	1373.4	1372.3	1372.3	1371.1	1371.1	1371.1	1373.4	1380.4
7.5°	1376.9	1374.6	1368.7	1362.9	1361.7	1361.7	1361.7	1360.6	1361.7	1362.9	1371.1
10°	1367.6	1366.4	1360.6	1353.5	1351.2	1351.2	1350.0	1347.7	1347.7	1350.0	1358.2
12.5°	1344.2	1343.0	1337.2	1332.5	1332.5	1333.6	1333.6	1334.8	1334.8	1337.2	1343.0
15°	1319.6	1318.4	1312.6	1307.9	1307.9	1307.9	1306.7	1306.7	1307.9	1314.9	1325.5
17.5°	1292.7	1291.5	1286.9	1282.2	1282.2	1282.2	1281.0	1281.0	1282.2	1285.7	1296.2
20°	1263.5	1262.3	1257.6	1252.9	1252.9	1252.9	1251.8	1252.9	1252.9	1257.6	1267.0
22.5°	1235.4	1233.0	1227.2	1222.5	1220.2	1220.2	1220.2	1219.0	1221.3	1224.8	1234.2
25°	1194.4	1193.3	1190.9	1187.4	1189.8	1190.9	1188.6	1186.2	1186.2	1190.9	1199.1
27.5°	1157.0	1154.7	1151.1	1147.6	1145.3	1146.5	1147.6	1150.0	1153.5	1154.7	1161.7
30°	1113.7	1112.5	1109.0	1104.4	1105.5	1106.7	1106.7	1106.7	1109.0	1119.6	1121.9
32.5°	1071.6	1070.4	1066.9	1062.2	1063.4	1064.6	1063.4	1064.6	1066.9	1071.6	1082.1
35°	1029.5	1027.1	1023.6	1022.5	1021.3	1021.3	1021.3	1022.5	1023.6	1027.1	1033.0
37.5°	981.5	979.2	976.8	973.3	975.7	978.0	979.2	978.0	979.2	983.9	986.2
40°	933.6	932.4	930.0	927.7	928.9	930.0	928.9	932.4	934.7	937.1	938.2
42.5°	887.9	885.6	883.2	882.1	882.1	883.2	883.2	885.6	885.6	891.4	890.3
45°	836.5	835.3	834.1	834.1	835.3	835.3	835.3	836.5	837.6	841.1	842.3
47.5°	786.1	785.0	785.0	785.0	785.0	786.1	787.3	790.8	788.5	789.7	790.8
50°	735.8	734.7	734.7	734.7	737.0	737.0	739.4	740.5	741.7	739.4	740.5
52.5°	684.4	683.2	685.5	685.5	687.9	687.9	691.4	687.9	690.2	689.0	689.0
55°	634.1	632.9	635.2	634.1	636.4	636.4	638.7	639.9	638.7	638.7	638.7
57.5°	582.6	581.4	582.6	583.8	584.9	584.9	588.4	588.4	584.9	587.3	586.1
60°	531.1	529.9	531.1	532.3	533.5	533.5	534.6	532.3	534.6	535.8	534.6
62.5°	479.6	478.5	480.8	479.6	480.8	482.0	482.0	485.5	484.3	484.3	483.2
65°	428.2	427.0	427.0	427.0	428.2	429.3	430.5	431.7	431.7	432.8	431.7
67.5°	375.5	374.4	375.5	374.4	375.5	376.7	379.0	380.2	380.2	381.4	380.2
70°	321.7	322.9	321.7	322.9	324.1	325.2	326.4	328.7	328.7	328.7	328.7
72.5°	269.1	267.9	267.9	266.7	269.1	270.2	271.4	274.9	274.9	276.1	276.1
75°	217.6	215.3	216.4	215.3	219.9	221.1	221.1	224.6	225.8	228.1	227.0
77.5°	167.3	167.3	165.0	168.5	169.6	172.0	174.3	176.6	177.8	181.3	181.3
80°	119.3	119.3	118.2	120.5	125.2	126.3	129.9	131.0	134.5	136.9	138.0
82.5°	76.0	76.0	76.0	79.6	83.1	84.2	87.7	91.2	93.6	97.1	98.3
85°	37.4	39.8	39.8	44.5	46.8	49.1	50.3	55.0	58.5	63.2	66.7
87.5°	11.7	12.9	14.0	16.4	21.1	22.2	24.6	29.2	32.8	37.4	40.9
90°	1.2	1.2	2.3	3.5	5.8	7.0	9.4	11.7	15.2	18.7	21.1
92.5°	8.2	8.2	9.4	9.4	9.4	9.4	9.4	10.5	11.7	14.0	15.2
95°	19.9	31.6	18.7	17.5	19.9	19.9	21.1	19.9	19.9	19.9	19.9
97.5°	32.8	58.5	38.6	26.9	25.7	26.9	26.9	29.2	30.4	31.6	31.6
100°	48.0	73.7	67.9	44.5	36.3	35.1	35.1	35.1	36.3	37.4	38.6
102.5°	63.2	84.2	97.1	69.0	51.5	46.8	44.5	43.3	42.1	43.3	43.3
105°	78.4	94.8	119.3	93.6	73.7	66.7	59.7	51.5	50.3	50.3	50.3
107.5°	92.4	105.3	135.7	121.7	95.9	88.9	80.7	67.9	59.7	58.5	57.3
110°	105.3	115.8	147.4	145.1	120.5	110.0	102.9	88.9	77.2	69.0	65.5



TEST NUMBER: P393847

CATALOG NUMBER: I3-WL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	117.0	126.3	155.6	165.0	147.4	134.5	124.0	110.0	97.1	86.6	78.4
115°	128.7	136.9	162.6	181.3	170.8	160.3	148.6	131.0	118.2	107.6	98.3
117.5°	140.4	147.4	169.6	193.0	190.7	183.7	174.3	153.3	138.0	127.5	117.0
120°	150.9	157.9	176.6	201.2	208.2	202.4	196.5	177.8	159.1	147.4	138.0
122.5°	160.3	166.1	183.7	208.2	221.1	219.9	214.1	201.2	182.5	168.5	156.8
125°	169.6	175.5	190.7	212.9	230.5	234.0	231.6	221.1	207.1	190.7	176.6
127.5°	179.0	183.7	197.7	217.6	237.5	244.5	245.7	238.7	228.1	214.1	198.9
130°	187.2	191.9	203.6	221.1	242.2	250.4	255.0	253.9	245.7	236.3	221.1
132.5°	194.2	197.7	209.4	224.6	244.5	253.9	260.9	266.7	260.9	253.9	243.3
135°	201.2	204.7	214.1	228.1	245.7	255.0	264.4	273.7	274.9	269.1	260.9
137.5°	207.1	209.4	218.8	230.5	245.7	255.0	264.4	277.3	284.3	281.9	274.9
140°	212.9	215.3	222.3	234.0	246.8	255.0	263.2	278.4	287.8	291.3	287.8
142.5°	217.6	219.9	225.8	236.3	246.8	253.9	262.0	276.1	289.0	296.0	298.3
145°	222.3	223.4	229.3	237.5	246.8	252.7	259.7	273.7	286.6	297.1	304.2
147.5°	225.8	227.0	230.5	238.7	246.8	251.5	257.4	269.1	281.9	293.6	304.2
150°	229.3	229.3	232.8	238.7	246.8	250.4	255.0	265.6	276.1	287.8	297.1
152.5°	231.6	231.6	235.1	239.8	245.7	249.2	253.9	262.0	271.4	281.9	291.3
155°	234.0	234.0	236.3	239.8	245.7	248.0	251.5	258.5	266.7	274.9	283.1
157.5°	236.3	236.3	237.5	241.0	244.5	246.8	250.4	256.2	262.0	269.1	276.1
160°	237.5	237.5	238.7	241.0	243.3	245.7	248.0	252.7	258.5	263.2	269.1
162.5°	238.7	238.7	239.8	241.0	243.3	244.5	245.7	250.4	253.9	258.5	263.2
165°	239.8	239.8	239.8	241.0	242.2	243.3	244.5	246.8	250.4	253.9	257.4
167.5°	241.0	241.0	241.0	241.0	242.2	242.2	243.3	244.5	246.8	249.2	251.5
170°	242.2	241.0	241.0	242.2	241.0	241.0	242.2	243.3	243.3	245.7	246.8
172.5°	242.2	242.2	241.0	241.0	241.0	241.0	241.0	241.0	241.0	242.2	243.3
175°	242.2	242.2	241.0	241.0	241.0	239.8	239.8	239.8	239.8	239.8	239.8
177.5°	242.2	242.2	241.0	241.0	239.8	239.8	239.8	239.8	239.8	239.8	239.8
180°	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7



TEST NUMBER: P393847

CATALOG NUMBER: I3-WL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8	1382.8
2.5°	1392.1	1386.3	1383.9	1382.8	1381.6	1380.4	1378.1	1375.8	1373.4	1373.4
5°	1386.3	1380.4	1378.1	1376.9	1375.8	1374.6	1373.4	1373.4	1373.4	1373.4
7.5°	1376.9	1371.1	1368.7	1367.6	1367.6	1366.4	1366.4	1366.4	1365.2	1366.4
10°	1362.9	1357.0	1355.9	1354.7	1353.5	1351.2	1351.2	1351.2	1350.0	1351.2
12.5°	1345.3	1339.5	1338.3	1337.2	1336.0	1334.8	1334.8	1333.6	1333.6	1334.8
15°	1327.8	1319.6	1317.3	1317.3	1316.1	1314.9	1316.1	1314.9	1314.9	1314.9
17.5°	1302.1	1298.5	1295.0	1292.7	1291.5	1290.4	1290.4	1289.2	1289.2	1289.2
20°	1268.1	1268.1	1268.1	1262.3	1261.1	1259.9	1259.9	1259.9	1259.9	1259.9
22.5°	1235.4	1229.5	1234.2	1230.7	1228.4	1226.0	1227.2	1227.2	1227.2	1227.2
25°	1199.1	1194.4	1195.6	1196.8	1194.4	1190.9	1190.9	1190.9	1190.9	1189.8
27.5°	1160.5	1157.0	1155.8	1157.0	1159.3	1157.0	1153.5	1150.0	1151.1	1151.1
30°	1118.4	1117.2	1116.1	1113.7	1116.1	1117.2	1111.4	1110.2	1110.2	1110.2
32.5°	1076.3	1075.1	1071.6	1069.3	1070.4	1072.8	1070.4	1068.1	1068.1	1068.1
35°	1034.2	1029.5	1026.0	1024.8	1024.8	1027.1	1026.0	1022.5	1022.5	1022.5
37.5°	985.0	986.2	980.3	979.2	979.2	979.2	981.5	975.7	976.8	975.7
40°	937.1	938.2	934.7	931.2	932.4	930.0	933.6	927.7	927.7	927.7
42.5°	889.1	886.8	887.9	880.9	882.1	882.1	883.2	879.7	878.6	877.4
45°	840.0	837.6	836.5	832.9	832.9	831.8	831.8	827.1	827.1	827.1
47.5°	788.5	787.3	785.0	782.6	782.6	781.5	779.1	778.0	776.8	776.8
50°	739.4	735.8	732.3	733.5	732.3	731.2	728.8	727.7	726.5	725.3
52.5°	686.7	686.7	682.0	682.0	682.0	680.9	678.5	676.2	676.2	675.0
55°	635.2	634.1	630.6	629.4	630.6	629.4	627.0	624.7	624.7	623.5
57.5°	583.8	581.4	580.3	580.3	579.1	579.1	575.6	573.2	574.4	573.2
60°	531.1	531.1	529.9	528.8	528.8	527.6	524.1	524.1	524.1	522.9
62.5°	480.8	480.8	478.5	477.3	478.5	477.3	476.1	475.0	473.8	472.6
65°	428.2	429.3	427.0	428.2	428.2	425.8	425.8	424.7	424.7	423.5
67.5°	379.0	379.0	377.9	377.9	379.0	377.9	377.9	376.7	376.7	375.5
70°	328.7	331.1	329.9	329.9	329.9	328.7	328.7	328.7	327.6	328.7
72.5°	278.4	278.4	278.4	278.4	278.4	279.6	279.6	279.6	279.6	278.4
75°	231.6	232.8	231.6	232.8	234.0	234.0	234.0	234.0	235.1	234.0
77.5°	186.0	187.2	187.2	189.5	189.5	189.5	190.7	190.7	190.7	190.7
80°	142.7	143.9	145.1	147.4	147.4	149.7	150.9	150.9	150.9	150.9
82.5°	102.9	106.5	107.6	111.1	112.3	112.3	114.6	115.8	115.8	115.8
85°	71.4	74.9	77.2	79.6	81.9	81.9	84.2	84.2	85.4	85.4
87.5°	44.5	48.0	50.3	53.8	55.0	56.2	57.3	58.5	59.7	59.7
90°	24.6	26.9	29.2	31.6	31.6	32.8	33.9	35.1	36.3	36.3
92.5°	17.5	18.7	21.1	22.2	22.2	23.4	24.6	24.6	25.7	25.7
95°	19.9	21.1	21.1	22.2	22.2	22.2	23.4	23.4	23.4	23.4
97.5°	30.4	30.4	30.4	29.2	29.2	29.2	29.2	29.2	29.2	29.2
100°	39.8	40.9	40.9	40.9	42.1	42.1	42.1	42.1	40.9	40.9
102.5°	44.5	45.6	46.8	48.0	48.0	48.0	49.1	49.1	49.1	49.1
105°	50.3	50.3	51.5	52.6	52.6	52.6	53.8	53.8	53.8	53.8
107.5°	57.3	57.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
110°	65.5	65.5	65.5	64.3	65.5	64.3	64.3	64.3	64.3	64.3



TEST NUMBER: P393847

CATALOG NUMBER: I3-WL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	74.9	73.7	73.7	72.5	72.5	72.5	71.4	71.4	71.4	71.4
115°	90.1	84.2	81.9	79.6	79.6	79.6	78.4	78.4	78.4	78.4
117.5°	108.8	100.6	95.9	91.2	90.1	88.9	86.6	86.6	85.4	85.4
120°	128.7	120.5	113.5	107.6	105.3	104.1	100.6	98.3	95.9	95.9
122.5°	147.4	139.2	132.2	126.3	124.0	121.7	118.2	115.8	113.5	113.5
125°	166.1	157.9	150.9	145.1	141.6	139.2	135.7	133.4	131.0	131.0
127.5°	186.0	175.5	168.5	162.6	159.1	157.9	153.3	150.9	148.6	148.6
130°	208.2	195.4	186.0	179.0	176.6	174.3	170.8	168.5	166.1	166.1
132.5°	230.5	217.6	207.1	197.7	194.2	191.9	187.2	184.8	182.5	182.5
135°	251.5	239.8	229.3	219.9	216.4	212.9	208.2	203.6	201.2	201.2
137.5°	267.9	259.7	250.4	242.2	238.7	235.1	230.5	225.8	222.3	222.3
140°	281.9	274.9	269.1	263.2	259.7	257.4	252.7	249.2	245.7	245.7
142.5°	294.8	289.0	283.1	278.4	277.3	276.1	272.6	269.1	266.7	266.7
145°	306.5	303.0	298.3	292.5	291.3	290.1	286.6	284.3	283.1	283.1
147.5°	310.0	311.2	310.0	306.5	305.3	304.2	301.8	299.5	298.3	298.3
150°	307.7	312.4	314.7	314.7	314.7	314.7	314.7	312.4	311.2	311.2
152.5°	300.7	307.7	312.4	315.9	317.0	318.2	318.2	319.4	318.2	318.2
155°	292.5	299.5	306.5	310.0	312.4	313.5	315.9	317.0	318.2	317.0
157.5°	283.1	289.0	293.6	300.7	303.0	305.3	307.7	310.0	311.2	310.0
160°	274.9	279.6	283.1	287.8	289.0	291.3	293.6	294.8	297.1	296.0
162.5°	266.7	270.2	273.7	276.1	278.4	279.6	281.9	283.1	284.3	283.1
165°	260.9	263.2	264.4	266.7	267.9	269.1	270.2	271.4	271.4	271.4
167.5°	253.9	256.2	257.4	258.5	259.7	260.9	260.9	262.0	262.0	262.0
170°	248.0	249.2	250.4	251.5	251.5	252.7	252.7	252.7	253.9	252.7
172.5°	243.3	243.3	243.3	244.5	244.5	244.5	244.5	244.5	244.5	243.3
175°	241.0	241.0	239.8	239.8	239.8	239.8	239.8	238.7	237.5	236.3
177.5°	239.8	238.7	238.7	237.5	237.5	237.5	236.3	235.1	234.0	232.8
180°	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7

(END OF REPORT)