

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: P395890

Luminaire Tested: **I3-WL-50L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395890
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 (4000K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5068.2 lumens
Efficiency: N/A
Efficacy: 97.7 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

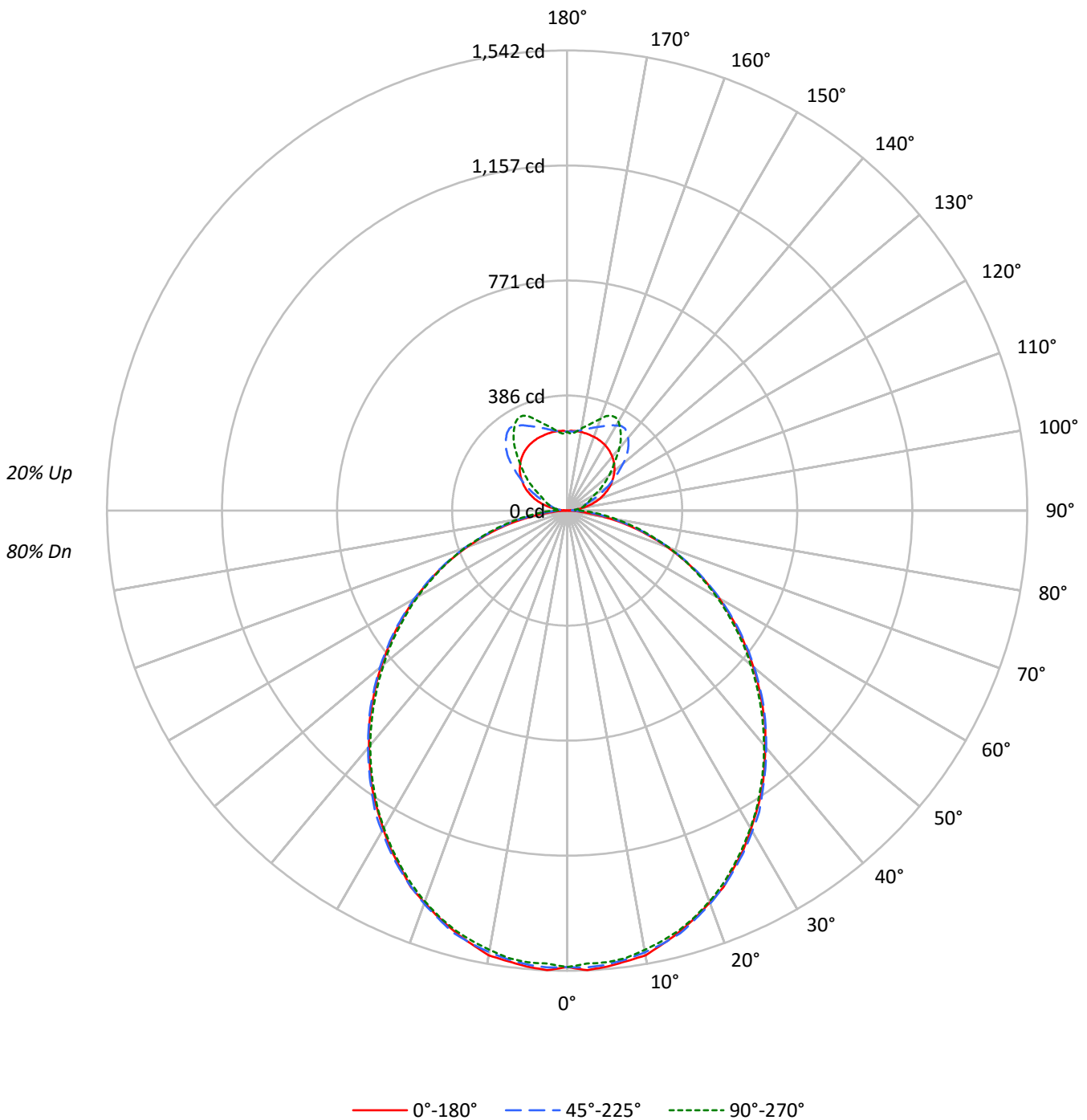
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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°	8408	8408	8408
5°	8431	8235	8146
10°	8382	8011	7880
15°	8214	7790	7599
20°	8051	7476	7271
25°	7858	7158	6909
30°	7632	6830	6537
35°	7421	6465	6154
40°	7155	6090	5754
45°	6900	5723	5334
50°	6625	5321	4911
55°	6337	4909	4478
60°	6016	4453	4032
65°	5646	3956	3553
70°	5121	3378	3051
75°	4411	2677	2450
80°	3366	1928	1829
85°	1757	1153	1239



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CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	2.9
10°-20°	410.0	8.1
20°-30°	607.0	12.0
30°-40°	709.5	14.0
40°-50°	712.6	14.1
50°-60°	626.3	12.4
60°-70°	469.3	9.3
70°-80°	266.9	5.3
80°-90°	84.3	1.7
90°-100°	30.4	0.6
100°-110°	74.0	1.5
110°-120°	123.0	2.4
120°-130°	172.5	3.4
130°-140°	198.8	3.9
140°-150°	189.9	3.7
150°-160°	142.8	2.8
160°-170°	80.8	1.6
170°-180°	25.6	0.5
0°-30°	1161.5	22.9
0°-40°	1871.0	36.9
0°-60°	3210.0	63.3
0°-90°	4030.4	79.5
90°-120°	227.4	4.5
90°-150°	788.6	15.6
90°-180°	1038.0	20.5
0°-180°	5068.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1534	1518	1527	1522	1520	146
15°	1460	1447	1466	1456	1455	412
25°	1321	1318	1327	1321	1316	609
35°	1139	1130	1143	1134	1131	711
45°	925	924	932	922	915	714
55°	702	704	707	698	690	627
65°	474	475	478	474	468	468
75°	241	245	251	259	259	255
85°	41	54	74	91	94	54
90°	1	8	23	35	40	3
95°	22	22	22	25	26	24
105°	87	74	56	58	60	91
115°	142	177	109	88	87	141
125°	188	259	195	157	145	168
135°	223	282	289	239	223	172
145°	246	280	336	322	313	154
155°	259	274	313	346	351	120
165°	265	269	285	296	300	75
175°	268	265	265	265	261	26
180°	264	264	264	264	264	



TEST NUMBER: P395890

CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8
2.5°	1541.5	1538.9	1532.4	1525.9	1524.6	1523.3	1523.3	1522.0	1522.0	1524.6	1532.4
5°	1533.7	1532.4	1525.9	1519.5	1518.2	1518.2	1516.9	1516.9	1516.9	1519.5	1527.2
7.5°	1523.3	1520.7	1514.3	1507.8	1506.5	1506.5	1506.5	1505.2	1506.5	1507.8	1516.9
10°	1513.0	1511.7	1505.2	1497.5	1494.9	1494.9	1493.6	1491.0	1491.0	1493.6	1502.6
12.5°	1487.1	1485.8	1479.3	1474.2	1474.2	1475.5	1475.5	1476.7	1476.7	1479.3	1485.8
15°	1459.9	1458.6	1452.2	1447.0	1447.0	1447.0	1445.7	1445.7	1447.0	1454.7	1466.4
17.5°	1430.2	1428.9	1423.7	1418.5	1418.5	1418.5	1417.2	1417.2	1418.5	1422.4	1434.0
20°	1397.8	1396.5	1391.3	1386.1	1386.1	1386.1	1384.9	1386.1	1386.1	1391.3	1401.7
22.5°	1366.7	1364.1	1357.7	1352.5	1349.9	1349.9	1349.9	1348.6	1351.2	1355.1	1365.4
25°	1321.4	1320.1	1317.6	1313.7	1316.3	1317.6	1315.0	1312.4	1312.4	1317.6	1326.6
27.5°	1280.0	1277.4	1273.5	1269.7	1267.1	1268.4	1269.7	1272.3	1276.1	1277.4	1285.2
30°	1232.1	1230.8	1227.0	1221.8	1223.1	1224.4	1224.4	1224.4	1227.0	1238.6	1241.2
32.5°	1185.5	1184.2	1180.4	1175.2	1176.5	1177.8	1176.5	1177.8	1180.4	1185.5	1197.2
35°	1138.9	1136.4	1132.5	1131.2	1129.9	1129.9	1129.9	1131.2	1132.5	1136.4	1142.8
37.5°	1085.9	1083.3	1080.7	1076.8	1079.4	1082.0	1083.3	1082.0	1083.3	1088.5	1091.1
40°	1032.8	1031.5	1028.9	1026.3	1027.6	1028.9	1027.6	1031.5	1034.1	1036.7	1038.0
42.5°	982.3	979.8	977.2	975.9	975.9	977.2	977.2	979.8	979.8	986.2	984.9
45°	925.4	924.1	922.8	922.8	924.1	924.1	924.1	925.4	926.7	930.6	931.9
47.5°	869.7	868.4	868.4	868.4	868.4	869.7	871.0	874.9	872.3	873.6	874.9
50°	814.1	812.8	812.8	812.8	815.4	815.4	818.0	819.3	820.6	818.0	819.3
52.5°	757.1	755.8	758.4	758.4	761.0	761.0	764.9	761.0	763.6	762.3	762.3
55°	701.5	700.2	702.8	701.5	704.1	704.1	706.7	708.0	706.7	706.7	706.7
57.5°	644.5	643.2	644.5	645.8	647.1	647.1	651.0	651.0	647.1	649.7	648.4
60°	587.6	586.3	587.6	588.9	590.2	590.2	591.5	588.9	591.5	592.8	591.5
62.5°	530.6	529.4	531.9	530.6	531.9	533.2	533.2	537.1	535.8	535.8	534.5
65°	473.7	472.4	472.4	472.4	473.7	475.0	476.3	477.6	477.6	478.9	477.6
67.5°	415.5	414.2	415.5	414.2	415.5	416.8	419.3	420.6	420.6	421.9	420.6
70°	355.9	357.2	355.9	357.2	358.5	359.8	361.1	363.7	363.7	363.7	363.7
72.5°	297.7	296.4	296.4	295.1	297.7	299.0	300.3	304.1	304.1	305.4	305.4
75°	240.7	238.1	239.4	238.1	243.3	244.6	244.6	248.5	249.8	252.4	251.1
77.5°	185.1	185.1	182.5	186.4	187.7	190.3	192.8	195.4	196.7	200.6	200.6
80°	132.0	132.0	130.7	133.3	138.5	139.8	143.7	145.0	148.8	151.4	152.7
82.5°	84.1	84.1	84.1	88.0	91.9	93.2	97.1	101.0	103.5	107.4	108.7
85°	41.4	44.0	44.0	49.2	51.8	54.4	55.7	60.8	64.7	69.9	73.8
87.5°	12.9	14.2	15.5	18.1	23.3	24.6	27.2	32.4	36.2	41.4	45.3
90°	1.3	1.3	2.6	3.9	6.5	7.8	10.4	12.9	16.8	20.7	23.3
92.5°	9.1	9.1	10.4	10.4	10.4	10.4	10.4	11.6	12.9	15.5	16.8
95°	22.0	34.9	20.7	19.4	22.0	22.0	23.3	22.0	22.0	22.0	22.0
97.5°	36.2	64.7	42.7	29.8	28.5	29.8	29.8	32.4	33.7	34.9	34.9
100°	53.1	81.5	75.1	49.2	40.1	38.8	38.8	38.8	40.1	41.4	42.7
102.5°	69.9	93.2	107.4	76.4	56.9	51.8	49.2	47.9	46.6	47.9	47.9
105°	86.7	104.8	132.0	103.5	81.5	73.8	66.0	56.9	55.7	55.7	55.7
107.5°	102.2	116.5	150.1	134.6	106.1	98.4	89.3	75.1	66.0	64.7	63.4
110°	116.5	128.1	163.1	160.5	133.3	121.7	113.9	98.4	85.4	76.4	72.5



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CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	129.4	139.8	172.1	182.5	163.1	148.8	137.2	121.7	107.4	95.8	86.7
115°	142.4	151.4	179.9	200.6	189.0	177.3	164.4	145.0	130.7	119.1	108.7
117.5°	155.3	163.1	187.7	213.6	211.0	203.2	192.8	169.5	152.7	141.1	129.4
120°	167.0	174.7	195.4	222.6	230.4	223.9	217.4	196.7	176.0	163.1	152.7
122.5°	177.3	183.8	203.2	230.4	244.6	243.3	236.8	222.6	201.9	186.4	173.4
125°	187.7	194.1	211.0	235.6	255.0	258.9	256.3	244.6	229.1	211.0	195.4
127.5°	198.0	203.2	218.7	240.7	262.7	270.5	271.8	264.0	252.4	236.8	220.0
130°	207.1	212.3	225.2	244.6	267.9	277.0	282.1	280.9	271.8	261.4	244.6
132.5°	214.8	218.7	231.7	248.5	270.5	280.9	288.6	295.1	288.6	280.9	269.2
135°	222.6	226.5	236.8	252.4	271.8	282.1	292.5	302.9	304.1	297.7	288.6
137.5°	229.1	231.7	242.0	255.0	271.8	282.1	292.5	306.7	314.5	311.9	304.1
140°	235.6	238.1	245.9	258.9	273.1	282.1	291.2	308.0	318.4	322.3	318.4
142.5°	240.7	243.3	249.8	261.4	273.1	280.9	289.9	305.4	319.7	327.4	330.0
145°	245.9	247.2	253.7	262.7	273.1	279.6	287.3	302.9	317.1	328.7	336.5
147.5°	249.8	251.1	255.0	264.0	273.1	278.3	284.7	297.7	311.9	324.9	336.5
150°	253.7	253.7	257.6	264.0	273.1	277.0	282.1	293.8	305.4	318.4	328.7
152.5°	256.3	256.3	260.1	265.3	271.8	275.7	280.9	289.9	300.3	311.9	322.3
155°	258.9	258.9	261.4	265.3	271.8	274.4	278.3	286.0	295.1	304.1	313.2
157.5°	261.4	261.4	262.7	266.6	270.5	273.1	277.0	283.4	289.9	297.7	305.4
160°	262.7	262.7	264.0	266.6	269.2	271.8	274.4	279.6	286.0	291.2	297.7
162.5°	264.0	264.0	265.3	266.6	269.2	270.5	271.8	277.0	280.9	286.0	291.2
165°	265.3	265.3	265.3	266.6	267.9	269.2	270.5	273.1	277.0	280.9	284.7
167.5°	266.6	266.6	266.6	266.6	267.9	267.9	269.2	270.5	273.1	275.7	278.3
170°	267.9	266.6	266.6	267.9	266.6	266.6	267.9	269.2	269.2	271.8	273.1
172.5°	267.9	267.9	266.6	266.6	266.6	266.6	266.6	266.6	266.6	267.9	269.2
175°	267.9	267.9	266.6	266.6	266.6	265.3	265.3	265.3	265.3	265.3	265.3
177.5°	267.9	267.9	266.6	266.6	265.3	265.3	265.3	265.3	265.3	265.3	265.3
180°	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8
2.5°	1540.2	1533.7	1531.1	1529.8	1528.5	1527.2	1524.6	1522.0	1519.5	1519.5
5°	1533.7	1527.2	1524.6	1523.3	1522.0	1520.7	1519.5	1519.5	1519.5	1519.5
7.5°	1523.3	1516.9	1514.3	1513.0	1513.0	1511.7	1511.7	1511.7	1510.4	1511.7
10°	1507.8	1501.3	1500.0	1498.7	1497.5	1494.9	1494.9	1494.9	1493.6	1494.9
12.5°	1488.4	1481.9	1480.6	1479.3	1478.0	1476.7	1476.7	1475.5	1475.5	1476.7
15°	1469.0	1459.9	1457.3	1457.3	1456.0	1454.7	1456.0	1454.7	1454.7	1454.7
17.5°	1440.5	1436.6	1432.7	1430.2	1428.9	1427.6	1427.6	1426.3	1426.3	1426.3
20°	1403.0	1403.0	1403.0	1396.5	1395.2	1393.9	1393.9	1393.9	1393.9	1393.9
22.5°	1366.7	1360.3	1365.4	1361.6	1359.0	1356.4	1357.7	1357.7	1357.7	1357.7
25°	1326.6	1321.4	1322.7	1324.0	1321.4	1317.6	1317.6	1317.6	1317.6	1316.3
27.5°	1283.9	1280.0	1278.7	1280.0	1282.6	1280.0	1276.1	1272.3	1273.5	1273.5
30°	1237.3	1236.0	1234.7	1232.1	1234.7	1236.0	1229.5	1228.2	1228.2	1228.2
32.5°	1190.7	1189.4	1185.5	1182.9	1184.2	1186.8	1184.2	1181.7	1181.7	1181.7
35°	1144.1	1138.9	1135.1	1133.8	1133.8	1136.4	1135.1	1131.2	1131.2	1131.2
37.5°	1089.8	1091.1	1084.6	1083.3	1083.3	1083.3	1085.9	1079.4	1080.7	1079.4
40°	1036.7	1038.0	1034.1	1030.2	1031.5	1028.9	1032.8	1026.3	1026.3	1026.3
42.5°	983.6	981.0	982.3	974.6	975.9	975.9	977.2	973.3	972.0	970.7
45°	929.3	926.7	925.4	921.5	921.5	920.2	920.2	915.0	915.0	915.0
47.5°	872.3	871.0	868.4	865.9	865.9	864.6	862.0	860.7	859.4	859.4
50°	818.0	814.1	810.2	811.5	810.2	808.9	806.3	805.0	803.7	802.4
52.5°	759.7	759.7	754.6	754.6	754.6	753.3	750.7	748.1	748.1	746.8
55°	702.8	701.5	697.6	696.3	697.6	696.3	693.7	691.1	691.1	689.8
57.5°	645.8	643.2	642.0	642.0	640.7	640.7	636.8	634.2	635.5	634.2
60°	587.6	587.6	586.3	585.0	585.0	583.7	579.8	579.8	579.8	578.5
62.5°	531.9	531.9	529.4	528.1	529.4	528.1	526.8	525.5	524.2	522.9
65°	473.7	475.0	472.4	473.7	473.7	471.1	471.1	469.8	469.8	468.5
67.5°	419.3	419.3	418.0	418.0	419.3	418.0	418.0	416.8	416.8	415.5
70°	363.7	366.3	365.0	365.0	365.0	363.7	363.7	363.7	362.4	363.7
72.5°	308.0	308.0	308.0	308.0	308.0	309.3	309.3	309.3	309.3	308.0
75°	256.3	257.6	256.3	257.6	258.9	258.9	258.9	258.9	260.1	258.9
77.5°	205.8	207.1	207.1	209.7	209.7	209.7	211.0	211.0	211.0	211.0
80°	157.9	159.2	160.5	163.1	163.1	165.7	167.0	167.0	167.0	167.0
82.5°	113.9	117.8	119.1	123.0	124.2	124.2	126.8	128.1	128.1	128.1
85°	78.9	82.8	85.4	88.0	90.6	90.6	93.2	93.2	94.5	94.5
87.5°	49.2	53.1	55.7	59.5	60.8	62.1	63.4	64.7	66.0	66.0
90°	27.2	29.8	32.4	34.9	34.9	36.2	37.5	38.8	40.1	40.1
92.5°	19.4	20.7	23.3	24.6	24.6	25.9	27.2	27.2	28.5	28.5
95°	22.0	23.3	23.3	24.6	24.6	24.6	25.9	25.9	25.9	25.9
97.5°	33.7	33.7	33.7	32.4	32.4	32.4	32.4	32.4	32.4	32.4
100°	44.0	45.3	45.3	45.3	46.6	46.6	46.6	46.6	45.3	45.3
102.5°	49.2	50.5	51.8	53.1	53.1	53.1	54.4	54.4	54.4	54.4
105°	55.7	55.7	56.9	58.2	58.2	58.2	59.5	59.5	59.5	59.5
107.5°	63.4	63.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
110°	72.5	72.5	72.5	71.2	72.5	71.2	71.2	71.2	71.2	71.2



TEST NUMBER: P395890

CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	82.8	81.5	81.5	80.2	80.2	80.2	78.9	78.9	78.9	78.9
115°	99.7	93.2	90.6	88.0	88.0	88.0	86.7	86.7	86.7	86.7
117.5°	120.4	111.3	106.1	101.0	99.7	98.4	95.8	95.8	94.5	94.5
120°	142.4	133.3	125.5	119.1	116.5	115.2	111.3	108.7	106.1	106.1
122.5°	163.1	154.0	146.3	139.8	137.2	134.6	130.7	128.1	125.5	125.5
125°	183.8	174.7	167.0	160.5	156.6	154.0	150.1	147.5	145.0	145.0
127.5°	205.8	194.1	186.4	179.9	176.0	174.7	169.5	167.0	164.4	164.4
130°	230.4	216.1	205.8	198.0	195.4	192.8	189.0	186.4	183.8	183.8
132.5°	255.0	240.7	229.1	218.7	214.8	212.3	207.1	204.5	201.9	201.9
135°	278.3	265.3	253.7	243.3	239.4	235.6	230.4	225.2	222.6	222.6
137.5°	296.4	287.3	277.0	267.9	264.0	260.1	255.0	249.8	245.9	247.2
140°	311.9	304.1	297.7	291.2	287.3	284.7	279.6	275.7	271.8	271.8
142.5°	326.2	319.7	313.2	308.0	306.7	305.4	301.6	297.7	295.1	295.1
145°	339.1	335.2	330.0	323.6	322.3	321.0	317.1	314.5	313.2	313.2
147.5°	343.0	344.3	343.0	339.1	337.8	336.5	333.9	331.3	330.0	330.0
150°	340.4	345.6	348.2	348.2	348.2	348.2	348.2	345.6	344.3	344.3
152.5°	332.6	340.4	345.6	349.4	350.7	352.0	352.0	353.3	352.0	352.0
155°	323.6	331.3	339.1	343.0	345.6	346.9	349.4	350.7	352.0	350.7
157.5°	313.2	319.7	324.9	332.6	335.2	337.8	340.4	343.0	344.3	343.0
160°	304.1	309.3	313.2	318.4	319.7	322.3	324.9	326.2	328.7	327.4
162.5°	295.1	299.0	302.9	305.4	308.0	309.3	311.9	313.2	314.5	313.2
165°	288.6	291.2	292.5	295.1	296.4	297.7	299.0	300.3	300.3	300.3
167.5°	280.9	283.4	284.7	286.0	287.3	288.6	288.6	289.9	289.9	289.9
170°	274.4	275.7	277.0	278.3	278.3	279.6	279.6	279.6	280.9	279.6
172.5°	269.2	269.2	269.2	270.5	270.5	270.5	270.5	270.5	270.5	269.2
175°	266.6	266.6	265.3	265.3	265.3	265.3	265.3	264.0	262.7	261.4
177.5°	265.3	264.0	264.0	262.7	262.7	262.7	261.4	260.1	258.9	257.6
180°	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0

(END OF REPORT)