

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: P395889

Luminaire Tested: **I3-WL-50L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395889
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 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4813.1 lumens
Efficiency: N/A
Efficacy: 94.9 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

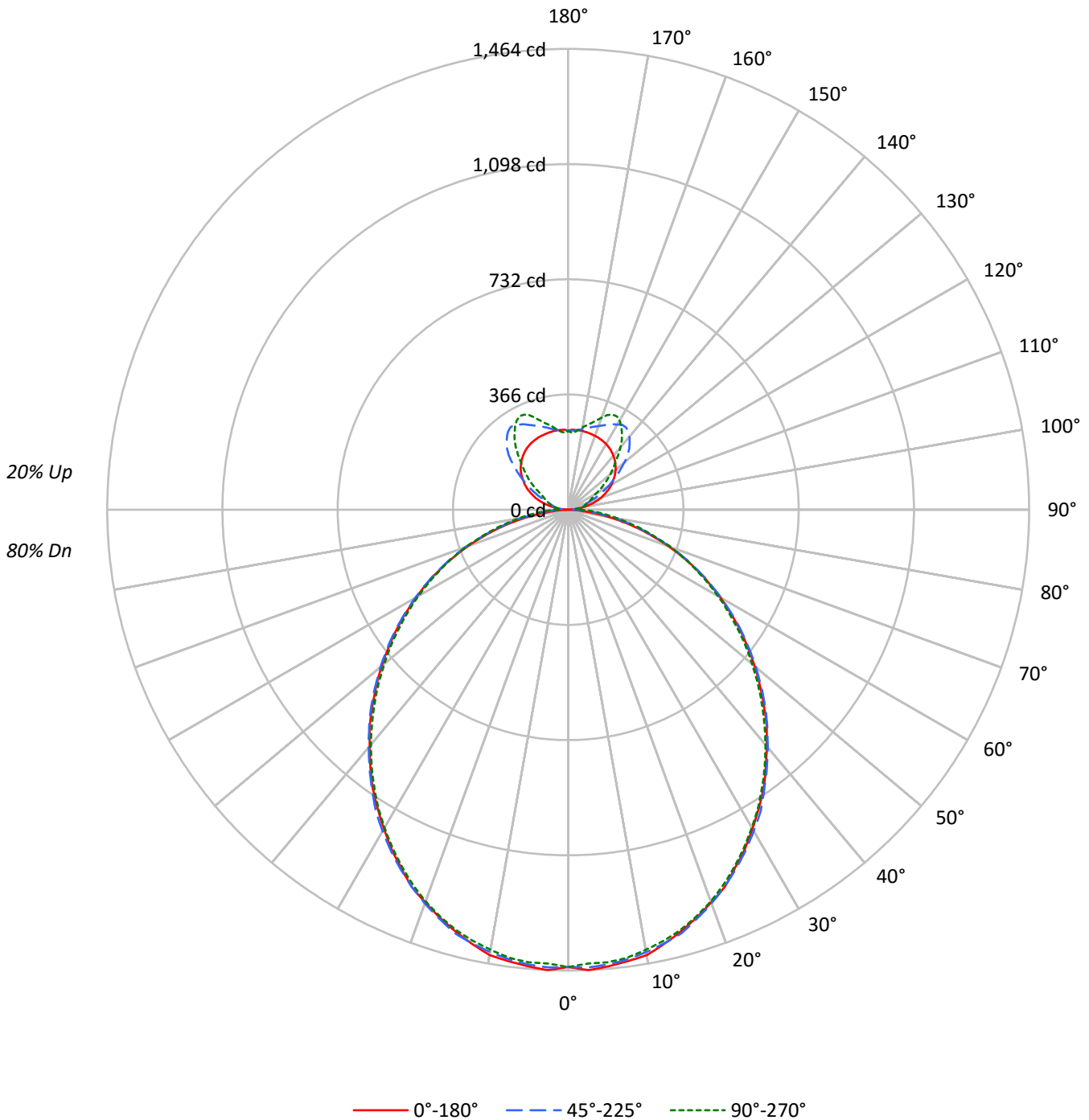
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7985	7985	7985
5°	8006	7821	7736
10°	7959	7608	7483
15°	7800	7398	7217
20°	7646	7099	6905
25°	7462	6798	6561
30°	7248	6486	6208
35°	7047	6140	5844
40°	6795	5783	5465
45°	6552	5435	5066
50°	6292	5052	4663
55°	6018	4662	4253
60°	5713	4228	3829
65°	5362	3757	3374
70°	4863	3208	2897
75°	4189	2542	2326
80°	3198	1830	1737
85°	1667	1095	1176



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CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	2.9
10°-20°	389.3	8.1
20°-30°	576.5	12.0
30°-40°	673.7	14.0
40°-50°	676.8	14.1
50°-60°	594.8	12.4
60°-70°	445.7	9.3
70°-80°	253.5	5.3
80°-90°	80.0	1.7
90°-100°	28.8	0.6
100°-110°	70.3	1.5
110°-120°	116.8	2.4
120°-130°	163.8	3.4
130°-140°	188.8	3.9
140°-150°	180.3	3.7
150°-160°	135.6	2.8
160°-170°	76.7	1.6
170°-180°	24.3	0.5
0°-30°	1103.1	22.9
0°-40°	1776.8	36.9
0°-60°	3048.4	63.3
0°-90°	3827.6	79.5
90°-120°	215.9	4.5
90°-150°	748.9	15.6
90°-180°	986.0	20.5
0°-180°	4813.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1456	1442	1450	1445	1443	138
15°	1386	1374	1393	1383	1382	391
25°	1255	1251	1260	1255	1250	578
35°	1082	1073	1085	1077	1074	675
45°	879	878	885	875	869	678
55°	666	669	671	662	655	595
65°	450	451	454	450	445	444
75°	229	232	238	246	246	242
85°	39	52	70	86	90	51
90°	1	7	22	33	38	3
95°	21	21	21	23	25	23
105°	82	70	53	55	56	86
115°	135	168	103	84	82	134
125°	178	246	186	149	138	159
135°	211	268	274	227	211	163
145°	234	266	320	306	297	146
155°	246	261	297	328	333	114
165°	252	256	270	282	285	71
175°	254	252	252	252	248	24
180°	251	251	251	251	251	



TEST NUMBER: P395889

CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8
2.5°	1463.9	1461.4	1455.3	1449.1	1447.9	1446.7	1446.7	1445.4	1445.4	1447.9	1455.3
5°	1456.5	1455.3	1449.1	1443.0	1441.7	1441.7	1440.5	1440.5	1440.5	1443.0	1450.4
7.5°	1446.7	1444.2	1438.1	1431.9	1430.7	1430.7	1430.7	1429.5	1430.7	1431.9	1440.5
10°	1436.8	1435.6	1429.5	1422.1	1419.6	1419.6	1418.4	1415.9	1415.9	1418.4	1427.0
12.5°	1412.3	1411.0	1404.9	1400.0	1400.0	1401.2	1401.2	1402.4	1402.4	1404.9	1411.0
15°	1386.4	1385.2	1379.1	1374.1	1374.1	1374.1	1372.9	1372.9	1374.1	1381.5	1392.6
17.5°	1358.2	1356.9	1352.0	1347.1	1347.1	1347.1	1345.9	1345.9	1347.1	1350.8	1361.9
20°	1327.4	1326.2	1321.3	1316.4	1316.4	1316.4	1315.2	1316.4	1316.4	1321.3	1331.1
22.5°	1297.9	1295.5	1289.3	1284.4	1282.0	1282.0	1282.0	1280.7	1283.2	1286.9	1296.7
25°	1254.9	1253.7	1251.2	1247.5	1250.0	1251.2	1248.8	1246.3	1246.3	1251.2	1259.8
27.5°	1215.6	1213.1	1209.4	1205.8	1203.3	1204.5	1205.8	1208.2	1211.9	1213.1	1220.5
30°	1170.1	1168.9	1165.2	1160.3	1161.5	1162.7	1162.7	1162.7	1165.2	1176.3	1178.7
32.5°	1125.9	1124.6	1121.0	1116.0	1117.3	1118.5	1117.3	1118.5	1121.0	1125.9	1136.9
35°	1081.6	1079.2	1075.5	1074.2	1073.0	1073.0	1073.0	1074.2	1075.5	1079.2	1085.3
37.5°	1031.2	1028.8	1026.3	1022.6	1025.1	1027.5	1028.8	1027.5	1028.8	1033.7	1036.1
40°	980.8	979.6	977.1	974.7	975.9	977.1	975.9	979.6	982.1	984.5	985.7
42.5°	932.9	930.4	928.0	926.8	926.8	928.0	928.0	930.4	930.4	936.6	935.4
45°	878.8	877.6	876.4	876.4	877.6	877.6	877.6	878.8	880.0	883.7	885.0
47.5°	826.0	824.7	824.7	824.7	824.7	826.0	827.2	830.9	828.4	829.7	830.9
50°	773.1	771.9	771.9	771.9	774.3	774.3	776.8	778.0	779.3	776.8	778.0
52.5°	719.0	717.8	720.3	720.3	722.7	722.7	726.4	722.7	725.2	723.9	723.9
55°	666.2	664.9	667.4	666.2	668.6	668.6	671.1	672.3	671.1	671.1	671.1
57.5°	612.1	610.9	612.1	613.3	614.6	614.6	618.2	618.2	614.6	617.0	615.8
60°	558.0	556.8	558.0	559.2	560.5	560.5	561.7	559.2	561.7	562.9	561.7
62.5°	503.9	502.7	505.2	503.9	505.2	506.4	506.4	510.1	508.9	508.9	507.6
65°	449.9	448.6	448.6	448.6	449.9	451.1	452.3	453.5	453.5	454.8	453.5
67.5°	394.5	393.3	394.5	393.3	394.5	395.8	398.2	399.5	399.5	400.7	399.5
70°	338.0	339.2	338.0	339.2	340.5	341.7	342.9	345.4	345.4	345.4	345.4
72.5°	282.7	281.5	281.5	280.2	282.7	283.9	285.2	288.8	288.8	290.1	290.1
75°	228.6	226.2	227.4	226.2	231.1	232.3	232.3	236.0	237.2	239.7	238.4
77.5°	175.8	175.8	173.3	177.0	178.2	180.7	183.1	185.6	186.8	190.5	190.5
80°	125.4	125.4	124.1	126.6	131.5	132.7	136.4	137.7	141.3	143.8	145.0
82.5°	79.9	79.9	79.9	83.6	87.3	88.5	92.2	95.9	98.3	102.0	103.2
85°	39.3	41.8	41.8	46.7	49.2	51.6	52.9	57.8	61.5	66.4	70.1
87.5°	12.3	13.5	14.7	17.2	22.1	23.4	25.8	30.7	34.4	39.3	43.0
90°	1.2	1.2	2.5	3.7	6.1	7.4	9.8	12.3	16.0	19.7	22.1
92.5°	8.6	8.6	9.8	9.8	9.8	9.8	9.8	11.1	12.3	14.7	16.0
95°	20.9	33.2	19.7	18.4	20.9	20.9	22.1	20.9	20.9	20.9	20.9
97.5°	34.4	61.5	40.6	28.3	27.0	28.3	28.3	30.7	32.0	33.2	33.2
100°	50.4	77.4	71.3	46.7	38.1	36.9	36.9	36.9	38.1	39.3	40.6
102.5°	66.4	88.5	102.0	72.5	54.1	49.2	46.7	45.5	44.2	45.5	45.5
105°	82.4	99.6	125.4	98.3	77.4	70.1	62.7	54.1	52.9	52.9	52.9
107.5°	97.1	110.6	142.6	127.8	100.8	93.4	84.8	71.3	62.7	61.5	60.2
110°	110.6	121.7	154.9	152.4	126.6	115.5	108.2	93.4	81.1	72.5	68.8



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CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	122.9	132.7	163.5	173.3	154.9	141.3	130.3	115.5	102.0	91.0	82.4
115°	135.2	143.8	170.8	190.5	179.5	168.4	156.1	137.7	124.1	113.1	103.2
117.5°	147.5	154.9	178.2	202.8	200.3	193.0	183.1	161.0	145.0	134.0	122.9
120°	158.6	165.9	185.6	211.4	218.8	212.6	206.5	186.8	167.2	154.9	145.0
122.5°	168.4	174.5	193.0	218.8	232.3	231.1	224.9	211.4	191.7	177.0	164.7
125°	178.2	184.4	200.3	223.7	242.1	245.8	243.4	232.3	217.6	200.3	185.6
127.5°	188.1	193.0	207.7	228.6	249.5	256.9	258.1	250.7	239.7	224.9	208.9
130°	196.7	201.6	213.9	232.3	254.4	263.0	267.9	266.7	258.1	248.3	232.3
132.5°	204.0	207.7	220.0	236.0	256.9	266.7	274.1	280.2	274.1	266.7	255.7
135°	211.4	215.1	224.9	239.7	258.1	267.9	277.8	287.6	288.8	282.7	274.1
137.5°	217.6	220.0	229.8	242.1	258.1	267.9	277.8	291.3	298.7	296.2	288.8
140°	223.7	226.2	233.5	245.8	259.3	267.9	276.6	292.5	302.4	306.0	302.4
142.5°	228.6	231.1	237.2	248.3	259.3	266.7	275.3	290.1	303.6	311.0	313.4
145°	233.5	234.8	240.9	249.5	259.3	265.5	272.9	287.6	301.1	312.2	319.6
147.5°	237.2	238.4	242.1	250.7	259.3	264.3	270.4	282.7	296.2	308.5	319.6
150°	240.9	240.9	244.6	250.7	259.3	263.0	267.9	279.0	290.1	302.4	312.2
152.5°	243.4	243.4	247.1	252.0	258.1	261.8	266.7	275.3	285.2	296.2	306.0
155°	245.8	245.8	248.3	252.0	258.1	260.6	264.3	271.6	280.2	288.8	297.4
157.5°	248.3	248.3	249.5	253.2	256.9	259.3	263.0	269.2	275.3	282.7	290.1
160°	249.5	249.5	250.7	253.2	255.7	258.1	260.6	265.5	271.6	276.6	282.7
162.5°	250.7	250.7	252.0	253.2	255.7	256.9	258.1	263.0	266.7	271.6	276.6
165°	252.0	252.0	252.0	253.2	254.4	255.7	256.9	259.3	263.0	266.7	270.4
167.5°	253.2	253.2	253.2	253.2	254.4	254.4	255.7	256.9	259.3	261.8	264.3
170°	254.4	253.2	253.2	254.4	253.2	253.2	254.4	255.7	255.7	258.1	259.3
172.5°	254.4	254.4	253.2	253.2	253.2	253.2	253.2	253.2	253.2	254.4	255.7
175°	254.4	254.4	253.2	253.2	253.2	252.0	252.0	252.0	252.0	252.0	252.0
177.5°	254.4	254.4	253.2	253.2	252.0	252.0	252.0	252.0	252.0	252.0	252.0
180°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8	1452.8
2.5°	1462.6	1456.5	1454.0	1452.8	1451.6	1450.4	1447.9	1445.4	1443.0	1443.0
5°	1456.5	1450.4	1447.9	1446.7	1445.4	1444.2	1443.0	1443.0	1443.0	1443.0
7.5°	1446.7	1440.5	1438.1	1436.8	1436.8	1435.6	1435.6	1435.6	1434.4	1435.6
10°	1431.9	1425.8	1424.5	1423.3	1422.1	1419.6	1419.6	1419.6	1418.4	1419.6
12.5°	1413.5	1407.3	1406.1	1404.9	1403.6	1402.4	1402.4	1401.2	1401.2	1402.4
15°	1395.0	1386.4	1384.0	1384.0	1382.8	1381.5	1382.8	1381.5	1381.5	1381.5
17.5°	1368.0	1364.3	1360.6	1358.2	1356.9	1355.7	1355.7	1354.5	1354.5	1354.5
20°	1332.4	1332.4	1332.4	1326.2	1325.0	1323.8	1323.8	1323.8	1323.8	1323.8
22.5°	1297.9	1291.8	1296.7	1293.0	1290.6	1288.1	1289.3	1289.3	1289.3	1289.3
25°	1259.8	1254.9	1256.2	1257.4	1254.9	1251.2	1251.2	1251.2	1251.2	1250.0
27.5°	1219.3	1215.6	1214.4	1215.6	1218.1	1215.6	1211.9	1208.2	1209.4	1209.4
30°	1175.0	1173.8	1172.6	1170.1	1172.6	1173.8	1167.7	1166.4	1166.4	1166.4
32.5°	1130.8	1129.6	1125.9	1123.4	1124.6	1127.1	1124.6	1122.2	1122.2	1122.2
35°	1086.5	1081.6	1077.9	1076.7	1076.7	1079.2	1077.9	1074.2	1074.2	1074.2
37.5°	1034.9	1036.1	1030.0	1028.8	1028.8	1028.8	1031.2	1025.1	1026.3	1025.1
40°	984.5	985.7	982.1	978.4	979.6	977.1	980.8	974.7	974.7	974.7
42.5°	934.1	931.7	932.9	925.5	926.8	926.8	928.0	924.3	923.1	921.8
45°	882.5	880.0	878.8	875.1	875.1	873.9	873.9	869.0	869.0	869.0
47.5°	828.4	827.2	824.7	822.3	822.3	821.0	818.6	817.4	816.1	816.1
50°	776.8	773.1	769.4	770.7	769.4	768.2	765.7	764.5	763.3	762.0
52.5°	721.5	721.5	716.6	716.6	716.6	715.3	712.9	710.4	710.4	709.2
55°	667.4	666.2	662.5	661.3	662.5	661.3	658.8	656.3	656.3	655.1
57.5°	613.3	610.9	609.6	609.6	608.4	608.4	604.7	602.3	603.5	602.3
60°	558.0	558.0	556.8	555.6	555.6	554.3	550.6	550.6	550.6	549.4
62.5°	505.2	505.2	502.7	501.5	502.7	501.5	500.2	499.0	497.8	496.6
65°	449.9	451.1	448.6	449.9	449.9	447.4	447.4	446.2	446.2	444.9
67.5°	398.2	398.2	397.0	397.0	398.2	397.0	397.0	395.8	395.8	394.5
70°	345.4	347.8	346.6	346.6	346.6	345.4	345.4	345.4	344.2	345.4
72.5°	292.5	292.5	292.5	292.5	292.5	293.8	293.8	293.8	293.8	292.5
75°	243.4	244.6	243.4	244.6	245.8	245.8	245.8	245.8	247.1	245.8
77.5°	195.4	196.7	196.7	199.1	199.1	199.1	200.3	200.3	200.3	200.3
80°	150.0	151.2	152.4	154.9	154.9	157.3	158.6	158.6	158.6	158.6
82.5°	108.2	111.8	113.1	116.8	118.0	118.0	120.5	121.7	121.7	121.7
85°	75.0	78.7	81.1	83.6	86.0	86.0	88.5	88.5	89.7	89.7
87.5°	46.7	50.4	52.9	56.5	57.8	59.0	60.2	61.5	62.7	62.7
90°	25.8	28.3	30.7	33.2	33.2	34.4	35.6	36.9	38.1	38.1
92.5°	18.4	19.7	22.1	23.4	23.4	24.6	25.8	25.8	27.0	27.0
95°	20.9	22.1	22.1	23.4	23.4	23.4	24.6	24.6	24.6	24.6
97.5°	32.0	32.0	32.0	30.7	30.7	30.7	30.7	30.7	30.7	30.7
100°	41.8	43.0	43.0	43.0	44.2	44.2	44.2	44.2	43.0	43.0
102.5°	46.7	47.9	49.2	50.4	50.4	50.4	51.6	51.6	51.6	51.6
105°	52.9	52.9	54.1	55.3	55.3	55.3	56.5	56.5	56.5	56.5
107.5°	60.2	60.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
110°	68.8	68.8	68.8	67.6	68.8	67.6	67.6	67.6	67.6	67.6



TEST NUMBER: P395889

CATALOG NUMBER: I3-WL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	78.7	77.4	77.4	76.2	76.2	76.2	75.0	75.0	75.0	75.0
115°	94.6	88.5	86.0	83.6	83.6	83.6	82.4	82.4	82.4	82.4
117.5°	114.3	105.7	100.8	95.9	94.6	93.4	91.0	91.0	89.7	89.7
120°	135.2	126.6	119.2	113.1	110.6	109.4	105.7	103.2	100.8	100.8
122.5°	154.9	146.3	138.9	132.7	130.3	127.8	124.1	121.7	119.2	119.2
125°	174.5	165.9	158.6	152.4	148.7	146.3	142.6	140.1	137.7	137.7
127.5°	195.4	184.4	177.0	170.8	167.2	165.9	161.0	158.6	156.1	156.1
130°	218.8	205.3	195.4	188.1	185.6	183.1	179.5	177.0	174.5	174.5
132.5°	242.1	228.6	217.6	207.7	204.0	201.6	196.7	194.2	191.7	191.7
135°	264.3	252.0	240.9	231.1	227.4	223.7	218.8	213.9	211.4	211.4
137.5°	281.5	272.9	263.0	254.4	250.7	247.1	242.1	237.2	233.5	234.8
140°	296.2	288.8	282.7	276.6	272.9	270.4	265.5	261.8	258.1	258.1
142.5°	309.7	303.6	297.4	292.5	291.3	290.1	286.4	282.7	280.2	280.2
145°	322.0	318.3	313.4	307.3	306.0	304.8	301.1	298.7	297.4	297.4
147.5°	325.7	326.9	325.7	322.0	320.8	319.6	317.1	314.7	313.4	313.4
150°	323.3	328.2	330.6	330.6	330.6	330.6	330.6	328.2	326.9	326.9
152.5°	315.9	323.3	328.2	331.9	333.1	334.3	334.3	335.5	334.3	334.3
155°	307.3	314.7	322.0	325.7	328.2	329.4	331.9	333.1	334.3	333.1
157.5°	297.4	303.6	308.5	315.9	318.3	320.8	323.3	325.7	326.9	325.7
160°	288.8	293.8	297.4	302.4	303.6	306.0	308.5	309.7	312.2	311.0
162.5°	280.2	283.9	287.6	290.1	292.5	293.8	296.2	297.4	298.7	297.4
165°	274.1	276.6	277.8	280.2	281.5	282.7	283.9	285.2	285.2	285.2
167.5°	266.7	269.2	270.4	271.6	272.9	274.1	274.1	275.3	275.3	275.3
170°	260.6	261.8	263.0	264.3	264.3	265.5	265.5	265.5	266.7	265.5
172.5°	255.7	255.7	255.7	256.9	256.9	256.9	256.9	256.9	256.9	255.7
175°	253.2	253.2	252.0	252.0	252.0	252.0	252.0	250.7	249.5	248.3
177.5°	252.0	250.7	250.7	249.5	249.5	249.5	248.3	247.1	245.8	244.6
180°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7

(END OF REPORT)