

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: P395887

Luminaire Tested: **I3-WL-50L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395887
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-50L82765-1D-UNV-W2A-W-4 (6500K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5029.7 lumens
Efficiency: N/A
Efficacy: 95.1 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

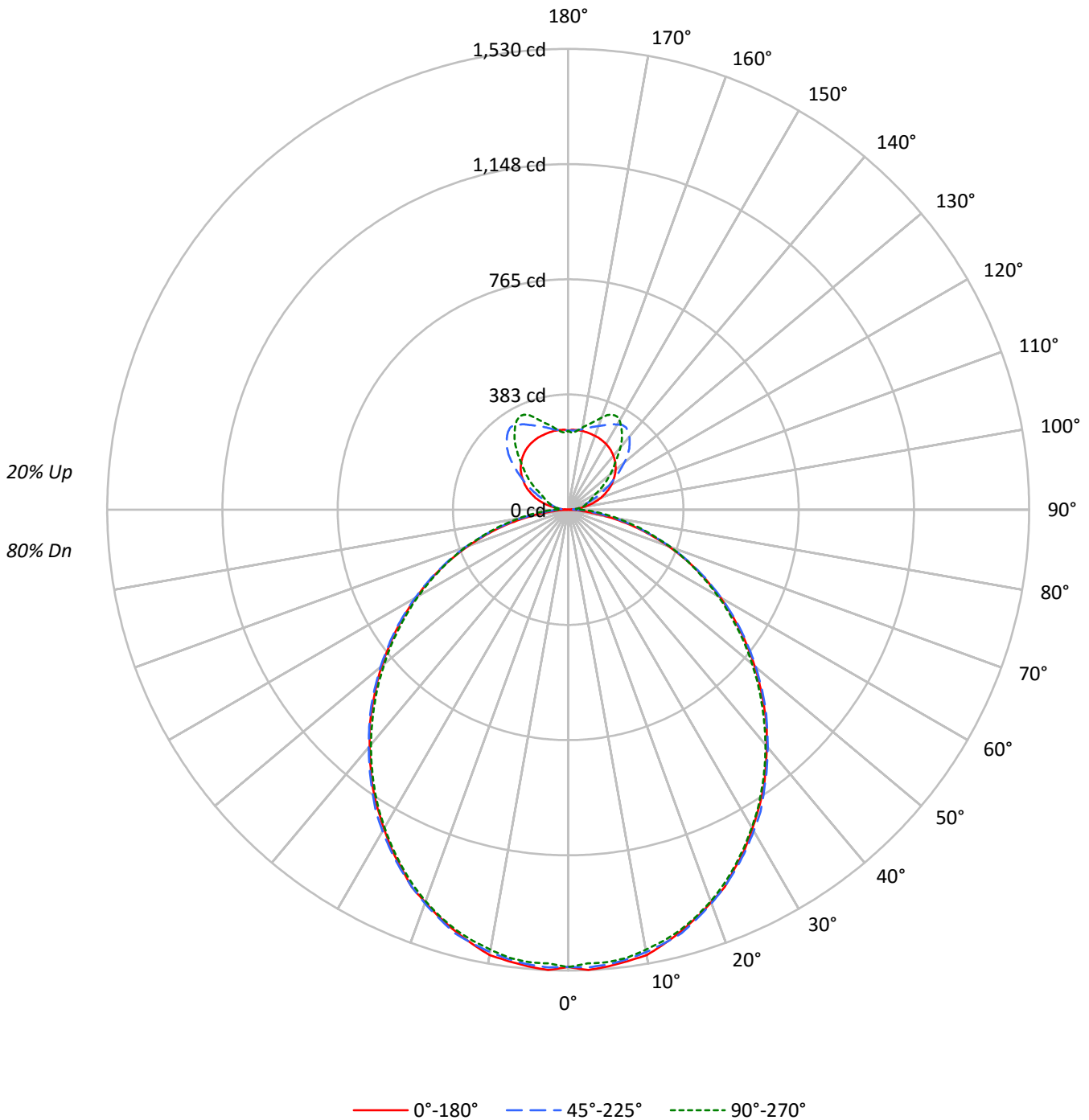
Input Watts (W): 52.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8345	8345	8345
5°	8366	8172	8084
10°	8318	7950	7820
15°	8151	7731	7542
20°	7990	7419	7216
25°	7798	7104	6857
30°	7575	6778	6488
35°	7365	6416	6107
40°	7101	6043	5711
45°	6848	5679	5294
50°	6575	5280	4873
55°	6289	4871	4445
60°	5970	4419	4001
65°	5603	3927	3527
70°	5082	3352	3027
75°	4378	2657	2431
80°	3340	1914	1815
85°	1744	1143	1230



TEST NUMBER: P395887

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	2.9
10°-20°	406.8	8.1
20°-30°	602.4	12.0
30°-40°	704.1	14.0
40°-50°	707.2	14.1
50°-60°	621.6	12.4
60°-70°	465.7	9.3
70°-80°	264.9	5.3
80°-90°	83.6	1.7
90°-100°	30.1	0.6
100°-110°	73.4	1.5
110°-120°	122.0	2.4
120°-130°	171.2	3.4
130°-140°	197.3	3.9
140°-150°	188.4	3.7
150°-160°	141.7	2.8
160°-170°	80.2	1.6
170°-180°	25.4	0.5
0°-30°	1152.7	22.9
0°-40°	1856.8	36.9
0°-60°	3185.6	63.3
0°-90°	3999.8	79.5
90°-120°	225.6	4.5
90°-150°	782.6	15.6
90°-180°	1030.0	20.5
0°-180°	5029.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1522	1507	1516	1510	1508	145
15°	1449	1436	1455	1445	1444	409
25°	1311	1308	1316	1311	1306	604
35°	1130	1121	1134	1125	1123	706
45°	918	917	925	914	908	709
55°	696	699	701	692	685	622
65°	470	471	474	470	465	464
75°	239	243	249	257	257	253
85°	41	54	73	90	94	53
90°	1	8	23	35	40	3
95°	22	22	22	24	26	24
105°	86	73	55	58	59	90
115°	141	176	108	87	86	140
125°	186	257	194	155	144	167
135°	221	280	286	238	221	170
145°	244	277	334	320	311	153
155°	257	272	311	343	348	119
165°	263	267	283	294	298	75
175°	266	263	263	263	260	25
180°	262	262	262	262	262	



TEST NUMBER: P395887

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2
2.5°	1529.7	1527.2	1520.8	1514.3	1513.0	1511.8	1511.8	1510.5	1510.5	1513.0	1520.8
5°	1522.0	1520.8	1514.3	1507.9	1506.6	1506.6	1505.3	1505.3	1505.3	1507.9	1515.6
7.5°	1511.8	1509.2	1502.8	1496.4	1495.1	1495.1	1495.1	1493.8	1495.1	1496.4	1505.3
10°	1501.5	1500.2	1493.8	1486.1	1483.5	1483.5	1482.2	1479.7	1479.7	1482.2	1491.2
12.5°	1475.8	1474.5	1468.1	1463.0	1463.0	1464.2	1464.2	1465.5	1465.5	1468.1	1474.5
15°	1448.8	1447.5	1441.1	1436.0	1436.0	1436.0	1434.7	1434.7	1436.0	1443.7	1455.3
17.5°	1419.3	1418.0	1412.9	1407.7	1407.7	1407.7	1406.4	1406.4	1407.7	1411.6	1423.1
20°	1387.2	1385.9	1380.8	1375.6	1375.6	1375.6	1374.3	1375.6	1375.6	1380.8	1391.0
22.5°	1356.3	1353.8	1347.4	1342.2	1339.7	1339.7	1339.7	1338.4	1340.9	1344.8	1355.1
25°	1311.4	1310.1	1307.5	1303.7	1306.3	1307.5	1305.0	1302.4	1302.4	1307.5	1316.5
27.5°	1270.3	1267.7	1263.9	1260.0	1257.4	1258.7	1260.0	1262.6	1266.4	1267.7	1275.4
30°	1222.8	1221.5	1217.6	1212.5	1213.8	1215.1	1215.1	1215.1	1217.6	1229.2	1231.8
32.5°	1176.5	1175.2	1171.4	1166.3	1167.5	1168.8	1167.5	1168.8	1171.4	1176.5	1188.1
35°	1130.3	1127.7	1123.9	1122.6	1121.3	1121.3	1121.3	1122.6	1123.9	1127.7	1134.1
37.5°	1077.6	1075.1	1072.5	1068.6	1071.2	1073.8	1075.1	1073.8	1075.1	1080.2	1082.8
40°	1025.0	1023.7	1021.1	1018.5	1019.8	1021.1	1019.8	1023.7	1026.3	1028.8	1030.1
42.5°	974.9	972.3	969.7	968.5	968.5	969.7	969.7	972.3	972.3	978.7	977.4
45°	918.4	917.1	915.8	915.8	917.1	917.1	917.1	918.4	919.6	923.5	924.8
47.5°	863.1	861.8	861.8	861.8	861.8	863.1	864.4	868.3	865.7	867.0	868.3
50°	807.9	806.6	806.6	806.6	809.2	809.2	811.8	813.0	814.3	811.8	813.0
52.5°	751.4	750.1	752.7	752.7	755.2	755.2	759.1	755.2	757.8	756.5	756.5
55°	696.2	694.9	697.4	696.2	698.7	698.7	701.3	702.6	701.3	701.3	701.3
57.5°	639.6	638.4	639.6	640.9	642.2	642.2	646.1	646.1	642.2	644.8	643.5
60°	583.1	581.8	583.1	584.4	585.7	585.7	587.0	584.4	587.0	588.3	587.0
62.5°	526.6	525.3	527.9	526.6	527.9	529.2	529.2	533.0	531.8	531.8	530.5
65°	470.1	468.8	468.8	468.8	470.1	471.4	472.7	474.0	474.0	475.2	474.0
67.5°	412.3	411.0	412.3	411.0	412.3	413.6	416.2	417.4	417.4	418.7	417.4
70°	353.2	354.5	353.2	354.5	355.8	357.1	358.4	360.9	360.9	360.9	360.9
72.5°	295.4	294.1	294.1	292.8	295.4	296.7	298.0	301.8	301.8	303.1	303.1
75°	238.9	236.3	237.6	236.3	241.5	242.8	242.8	246.6	247.9	250.5	249.2
77.5°	183.7	183.7	181.1	185.0	186.2	188.8	191.4	193.9	195.2	199.1	199.1
80°	131.0	131.0	129.7	132.3	137.4	138.7	142.6	143.9	147.7	150.3	151.6
82.5°	83.5	83.5	83.5	87.3	91.2	92.5	96.3	100.2	102.8	106.6	107.9
85°	41.1	43.7	43.7	48.8	51.4	53.9	55.2	60.4	64.2	69.4	73.2
87.5°	12.8	14.1	15.4	18.0	23.1	24.4	27.0	32.1	36.0	41.1	45.0
90°	1.3	1.3	2.6	3.9	6.4	7.7	10.3	12.8	16.7	20.6	23.1
92.5°	9.0	9.0	10.3	10.3	10.3	10.3	10.3	11.6	12.8	15.4	16.7
95°	21.8	34.7	20.6	19.3	21.8	21.8	23.1	21.8	21.8	21.8	21.8
97.5°	36.0	64.2	42.4	29.5	28.3	29.5	29.5	32.1	33.4	34.7	34.7
100°	52.7	80.9	74.5	48.8	39.8	38.5	38.5	38.5	39.8	41.1	42.4
102.5°	69.4	92.5	106.6	75.8	56.5	51.4	48.8	47.5	46.2	47.5	47.5
105°	86.1	104.0	131.0	102.8	80.9	73.2	65.5	56.5	55.2	55.2	55.2
107.5°	101.5	115.6	149.0	133.6	105.3	97.6	88.6	74.5	65.5	64.2	62.9
110°	115.6	127.2	161.8	159.3	132.3	120.7	113.0	97.6	84.8	75.8	71.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	128.4	138.7	170.8	181.1	161.8	147.7	136.1	120.7	106.6	95.0	86.1
115°	141.3	150.3	178.5	199.1	187.5	176.0	163.1	143.9	129.7	118.2	107.9
117.5°	154.1	161.8	186.2	211.9	209.4	201.7	191.4	168.3	151.6	140.0	128.4
120°	165.7	173.4	193.9	220.9	228.6	222.2	215.8	195.2	174.7	161.8	151.6
122.5°	176.0	182.4	201.7	228.6	242.8	241.5	235.0	220.9	200.4	185.0	172.1
125°	186.2	192.7	209.4	233.8	253.0	256.9	254.3	242.8	227.3	209.4	193.9
127.5°	196.5	201.7	217.1	238.9	260.7	268.4	269.7	262.0	250.5	235.0	218.4
130°	205.5	210.6	223.5	242.8	265.9	274.9	280.0	278.7	269.7	259.5	242.8
132.5°	213.2	217.1	229.9	246.6	268.4	278.7	286.4	292.8	286.4	278.7	267.2
135°	220.9	224.8	235.0	250.5	269.7	280.0	290.3	300.6	301.8	295.4	286.4
137.5°	227.3	229.9	240.2	253.0	269.7	280.0	290.3	304.4	312.1	309.5	301.8
140°	233.8	236.3	244.0	256.9	271.0	280.0	289.0	305.7	316.0	319.8	316.0
142.5°	238.9	241.5	247.9	259.5	271.0	278.7	287.7	303.1	317.3	325.0	327.5
145°	244.0	245.3	251.7	260.7	271.0	277.4	285.1	300.6	314.7	326.2	333.9
147.5°	247.9	249.2	253.0	262.0	271.0	276.2	282.6	295.4	309.5	322.4	333.9
150°	251.7	251.7	255.6	262.0	271.0	274.9	280.0	291.6	303.1	316.0	326.2
152.5°	254.3	254.3	258.2	263.3	269.7	273.6	278.7	287.7	298.0	309.5	319.8
155°	256.9	256.9	259.5	263.3	269.7	272.3	276.2	283.9	292.8	301.8	310.8
157.5°	259.5	259.5	260.7	264.6	268.4	271.0	274.9	281.3	287.7	295.4	303.1
160°	260.7	260.7	262.0	264.6	267.2	269.7	272.3	277.4	283.9	289.0	295.4
162.5°	262.0	262.0	263.3	264.6	267.2	268.4	269.7	274.9	278.7	283.9	289.0
165°	263.3	263.3	263.3	264.6	265.9	267.2	268.4	271.0	274.9	278.7	282.6
167.5°	264.6	264.6	264.6	264.6	265.9	265.9	267.2	268.4	271.0	273.6	276.2
170°	265.9	264.6	264.6	265.9	264.6	264.6	265.9	267.2	267.2	269.7	271.0
172.5°	265.9	265.9	264.6	264.6	264.6	264.6	264.6	264.6	264.6	265.9	267.2
175°	265.9	265.9	264.6	264.6	264.6	263.3	263.3	263.3	263.3	263.3	263.3
177.5°	265.9	265.9	264.6	264.6	263.3	263.3	263.3	263.3	263.3	263.3	263.3
180°	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2
2.5°	1528.5	1522.0	1519.5	1518.2	1516.9	1515.6	1513.0	1510.5	1507.9	1507.9
5°	1522.0	1515.6	1513.0	1511.8	1510.5	1509.2	1507.9	1507.9	1507.9	1507.9
7.5°	1511.8	1505.3	1502.8	1501.5	1501.5	1500.2	1500.2	1500.2	1498.9	1500.2
10°	1496.4	1489.9	1488.6	1487.4	1486.1	1483.5	1483.5	1483.5	1482.2	1483.5
12.5°	1477.1	1470.7	1469.4	1468.1	1466.8	1465.5	1465.5	1464.2	1464.2	1465.5
15°	1457.8	1448.8	1446.3	1446.3	1445.0	1443.7	1445.0	1443.7	1443.7	1443.7
17.5°	1429.6	1425.7	1421.9	1419.3	1418.0	1416.7	1416.7	1415.4	1415.4	1415.4
20°	1392.3	1392.3	1392.3	1385.9	1384.6	1383.3	1383.3	1383.3	1383.3	1383.3
22.5°	1356.3	1349.9	1355.1	1351.2	1348.6	1346.1	1347.4	1347.4	1347.4	1347.4
25°	1316.5	1311.4	1312.7	1314.0	1311.4	1307.5	1307.5	1307.5	1307.5	1306.3
27.5°	1274.1	1270.3	1269.0	1270.3	1272.9	1270.3	1266.4	1262.6	1263.9	1263.9
30°	1227.9	1226.6	1225.3	1222.8	1225.3	1226.6	1220.2	1218.9	1218.9	1218.9
32.5°	1181.7	1180.4	1176.5	1174.0	1175.2	1177.8	1175.2	1172.7	1172.7	1172.7
35°	1135.4	1130.3	1126.4	1125.2	1125.2	1127.7	1126.4	1122.6	1122.6	1122.6
37.5°	1081.5	1082.8	1076.3	1075.1	1075.1	1075.1	1077.6	1071.2	1072.5	1071.2
40°	1028.8	1030.1	1026.3	1022.4	1023.7	1021.1	1025.0	1018.5	1018.5	1018.5
42.5°	976.2	973.6	974.9	967.2	968.5	968.5	969.7	965.9	964.6	963.3
45°	922.2	919.6	918.4	914.5	914.5	913.2	913.2	908.1	908.1	908.1
47.5°	865.7	864.4	861.8	859.3	859.3	858.0	855.4	854.1	852.9	852.9
50°	811.8	807.9	804.0	805.3	804.0	802.8	800.2	798.9	797.6	796.3
52.5°	754.0	754.0	748.8	748.8	748.8	747.5	745.0	742.4	742.4	741.1
55°	697.4	696.2	692.3	691.0	692.3	691.0	688.5	685.9	685.9	684.6
57.5°	640.9	638.4	637.1	637.1	635.8	635.8	631.9	629.4	630.7	629.4
60°	583.1	583.1	581.8	580.6	580.6	579.3	575.4	575.4	575.4	574.1
62.5°	527.9	527.9	525.3	524.0	525.3	524.0	522.8	521.5	520.2	518.9
65°	470.1	471.4	468.8	470.1	470.1	467.5	467.5	466.2	466.2	465.0
67.5°	416.2	416.2	414.9	414.9	416.2	414.9	414.9	413.6	413.6	412.3
70°	360.9	363.5	362.2	362.2	362.2	360.9	360.9	360.9	359.6	360.9
72.5°	305.7	305.7	305.7	305.7	305.7	307.0	307.0	307.0	307.0	305.7
75°	254.3	255.6	254.3	255.6	256.9	256.9	256.9	256.9	258.2	256.9
77.5°	204.2	205.5	205.5	208.1	208.1	208.1	209.4	209.4	209.4	209.4
80°	156.7	158.0	159.3	161.8	161.8	164.4	165.7	165.7	165.7	165.7
82.5°	113.0	116.9	118.2	122.0	123.3	123.3	125.9	127.2	127.2	127.2
85°	78.3	82.2	84.8	87.3	89.9	89.9	92.5	92.5	93.8	93.8
87.5°	48.8	52.7	55.2	59.1	60.4	61.7	62.9	64.2	65.5	65.5
90°	27.0	29.5	32.1	34.7	34.7	36.0	37.2	38.5	39.8	39.8
92.5°	19.3	20.6	23.1	24.4	24.4	25.7	27.0	27.0	28.3	28.3
95°	21.8	23.1	23.1	24.4	24.4	24.4	25.7	25.7	25.7	25.7
97.5°	33.4	33.4	33.4	32.1	32.1	32.1	32.1	32.1	32.1	32.1
100°	43.7	45.0	45.0	45.0	46.2	46.2	46.2	46.2	45.0	45.0
102.5°	48.8	50.1	51.4	52.7	52.7	52.7	53.9	53.9	53.9	53.9
105°	55.2	55.2	56.5	57.8	57.8	57.8	59.1	59.1	59.1	59.1
107.5°	62.9	62.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
110°	71.9	71.9	71.9	70.6	71.9	70.6	70.6	70.6	70.6	70.6



TEST NUMBER: P395887

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	82.2	80.9	80.9	79.6	79.6	79.6	78.3	78.3	78.3	78.3
115°	98.9	92.5	89.9	87.3	87.3	87.3	86.1	86.1	86.1	86.1
117.5°	119.5	110.5	105.3	100.2	98.9	97.6	95.0	95.0	93.8	93.8
120°	141.3	132.3	124.6	118.2	115.6	114.3	110.5	107.9	105.3	105.3
122.5°	161.8	152.8	145.1	138.7	136.1	133.6	129.7	127.2	124.6	124.6
125°	182.4	173.4	165.7	159.3	155.4	152.8	149.0	146.4	143.9	143.9
127.5°	204.2	192.7	185.0	178.5	174.7	173.4	168.3	165.7	163.1	163.1
130°	228.6	214.5	204.2	196.5	193.9	191.4	187.5	185.0	182.4	182.4
132.5°	253.0	238.9	227.3	217.1	213.2	210.6	205.5	202.9	200.4	200.4
135°	276.2	263.3	251.7	241.5	237.6	233.8	228.6	223.5	220.9	220.9
137.5°	294.1	285.1	274.9	265.9	262.0	258.2	253.0	247.9	244.0	245.3
140°	309.5	301.8	295.4	289.0	285.1	282.6	277.4	273.6	269.7	269.7
142.5°	323.7	317.3	310.8	305.7	304.4	303.1	299.3	295.4	292.8	292.8
145°	336.5	332.7	327.5	321.1	319.8	318.5	314.7	312.1	310.8	310.8
147.5°	340.4	341.7	340.4	336.5	335.2	333.9	331.4	328.8	327.5	327.5
150°	337.8	342.9	345.5	345.5	345.5	345.5	345.5	342.9	341.7	341.7
152.5°	330.1	337.8	342.9	346.8	348.1	349.4	349.4	350.6	349.4	349.4
155°	321.1	328.8	336.5	340.4	342.9	344.2	346.8	348.1	349.4	348.1
157.5°	310.8	317.3	322.4	330.1	332.7	335.2	337.8	340.4	341.7	340.4
160°	301.8	307.0	310.8	316.0	317.3	319.8	322.4	323.7	326.2	325.0
162.5°	292.8	296.7	300.6	303.1	305.7	307.0	309.5	310.8	312.1	310.8
165°	286.4	289.0	290.3	292.8	294.1	295.4	296.7	298.0	298.0	298.0
167.5°	278.7	281.3	282.6	283.9	285.1	286.4	286.4	287.7	287.7	287.7
170°	272.3	273.6	274.9	276.2	276.2	277.4	277.4	277.4	278.7	277.4
172.5°	267.2	267.2	267.2	268.4	268.4	268.4	268.4	268.4	268.4	267.2
175°	264.6	264.6	263.3	263.3	263.3	263.3	263.3	262.0	260.7	259.5
177.5°	263.3	262.0	262.0	260.7	260.7	260.7	259.5	258.2	256.9	255.6
180°	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0	262.0

(END OF REPORT)