

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: P395824

Luminaire Tested: **I3-WL-20L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395824
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-20L93050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1668.9 lumens
Efficiency: N/A
Efficacy: 96.5 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

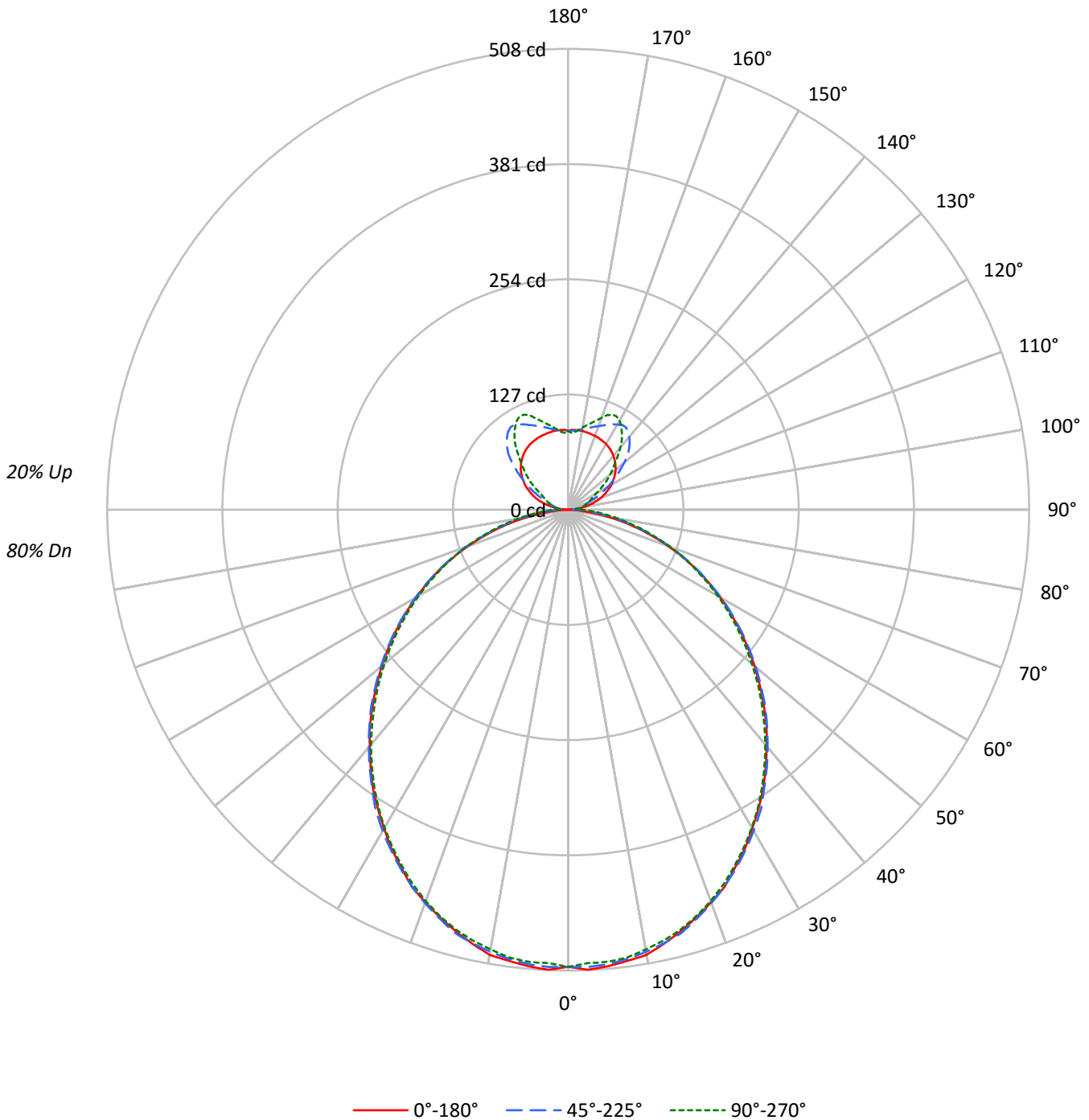
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395824

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395824

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

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°	2769	2769	2769
5°	2776	2712	2682
10°	2760	2638	2595
15°	2705	2565	2502
20°	2651	2462	2394
25°	2587	2357	2275
30°	2513	2249	2153
35°	2443	2129	2026
40°	2356	2005	1895
45°	2272	1885	1757
50°	2182	1752	1617
55°	2087	1616	1475
60°	1981	1466	1328
65°	1859	1303	1170
70°	1686	1113	1005
75°	1453	882	806
80°	1109	635	602
85°	577	380	408



TEST NUMBER: P395824

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	2.9
10°-20°	135.0	8.1
20°-30°	199.9	12.0
30°-40°	233.6	14.0
40°-50°	234.7	14.1
50°-60°	206.2	12.4
60°-70°	154.5	9.3
70°-80°	87.9	5.3
80°-90°	27.7	1.7
90°-100°	10.0	0.6
100°-110°	24.4	1.5
110°-120°	40.5	2.4
120°-130°	56.8	3.4
130°-140°	65.5	3.9
140°-150°	62.5	3.7
150°-160°	47.0	2.8
160°-170°	26.6	1.6
170°-180°	8.4	0.5
0°-30°	382.5	22.9
0°-40°	616.1	36.9
0°-60°	1057.0	63.3
0°-90°	1327.2	79.5
90°-120°	74.9	4.5
90°-150°	259.7	15.6
90°-180°	342.0	20.5
0°-180°	1668.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	505	500	503	501	500	48
15°	481	476	483	480	479	136
25°	435	434	437	435	433	201
35°	375	372	376	373	372	234
45°	305	304	307	303	301	235
55°	231	232	233	230	227	206
65°	156	156	157	156	154	154
75°	79	80	83	85	85	84
85°	14	18	24	30	31	18
90°	0	3	8	12	13	1
95°	7	7	7	8	8	8
105°	29	24	18	19	20	30
115°	47	58	36	29	29	46
125°	62	85	64	52	48	55
135°	73	93	95	79	73	56
145°	81	92	111	106	103	51
155°	85	90	103	114	116	39
165°	87	89	94	98	99	25
175°	88	87	87	87	86	8
180°	87	87	87	87	87	



TEST NUMBER: P395824

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	507.6	506.7	504.6	502.5	502.0	501.6	501.6	501.2	501.2	502.0	504.6
5°	505.0	504.6	502.5	500.3	499.9	499.9	499.5	499.5	499.5	500.3	502.9
7.5°	501.6	500.8	498.6	496.5	496.1	496.1	496.1	495.7	496.1	496.5	499.5
10°	498.2	497.8	495.7	493.1	492.2	492.2	491.8	491.0	491.0	491.8	494.8
12.5°	489.7	489.3	487.1	485.4	485.4	485.9	485.9	486.3	486.3	487.1	489.3
15°	480.7	480.3	478.2	476.5	476.5	476.5	476.0	476.0	476.5	479.0	482.9
17.5°	470.9	470.5	468.8	467.1	467.1	467.1	466.7	466.7	467.1	468.4	472.2
20°	460.3	459.9	458.1	456.4	456.4	456.4	456.0	456.4	456.4	458.1	461.6
22.5°	450.1	449.2	447.1	445.4	444.5	444.5	444.5	444.1	444.9	446.2	449.6
25°	435.1	434.7	433.9	432.6	433.4	433.9	433.0	432.2	432.2	433.9	436.8
27.5°	421.5	420.6	419.4	418.1	417.2	417.7	418.1	418.9	420.2	420.6	423.2
30°	405.7	405.3	404.0	402.3	402.7	403.2	403.2	403.2	404.0	407.9	408.7
32.5°	390.4	390.0	388.7	387.0	387.4	387.8	387.4	387.8	388.7	390.4	394.2
35°	375.0	374.2	372.9	372.5	372.1	372.1	372.1	372.5	372.9	374.2	376.3
37.5°	357.6	356.7	355.9	354.6	355.4	356.3	356.7	356.3	356.7	358.4	359.3
40°	340.1	339.7	338.8	338.0	338.4	338.8	338.4	339.7	340.5	341.4	341.8
42.5°	323.5	322.6	321.8	321.3	321.3	321.8	321.8	322.6	322.6	324.8	324.3
45°	304.7	304.3	303.9	303.9	304.3	304.3	304.3	304.7	305.1	306.4	306.9
47.5°	286.4	286.0	286.0	286.0	286.0	286.4	286.8	288.1	287.2	287.7	288.1
50°	268.1	267.6	267.6	267.6	268.5	268.5	269.3	269.8	270.2	269.3	269.8
52.5°	249.3	248.9	249.7	249.7	250.6	250.6	251.9	250.6	251.4	251.0	251.0
55°	231.0	230.6	231.4	231.0	231.8	231.8	232.7	233.1	232.7	232.7	232.7
57.5°	212.2	211.8	212.2	212.7	213.1	213.1	214.4	214.4	213.1	213.9	213.5
60°	193.5	193.1	193.5	193.9	194.3	194.3	194.8	193.9	194.8	195.2	194.8
62.5°	174.7	174.3	175.2	174.7	175.2	175.6	175.6	176.9	176.4	176.4	176.0
65°	156.0	155.6	155.6	155.6	156.0	156.4	156.8	157.3	157.3	157.7	157.3
67.5°	136.8	136.4	136.8	136.4	136.8	137.2	138.1	138.5	138.5	138.9	138.5
70°	117.2	117.6	117.2	117.6	118.1	118.5	118.9	119.8	119.8	119.8	119.8
72.5°	98.0	97.6	97.6	97.2	98.0	98.4	98.9	100.2	100.2	100.6	100.6
75°	79.3	78.4	78.8	78.4	80.1	80.5	80.5	81.8	82.3	83.1	82.7
77.5°	60.9	60.9	60.1	61.4	61.8	62.6	63.5	64.4	64.8	66.1	66.1
80°	43.5	43.5	43.0	43.9	45.6	46.0	47.3	47.7	49.0	49.9	50.3
82.5°	27.7	27.7	27.7	29.0	30.3	30.7	32.0	33.2	34.1	35.4	35.8
85°	13.6	14.5	14.5	16.2	17.0	17.9	18.3	20.0	21.3	23.0	24.3
87.5°	4.3	4.7	5.1	6.0	7.7	8.1	8.9	10.7	11.9	13.6	14.9
90°	0.4	0.4	0.9	1.3	2.1	2.6	3.4	4.3	5.5	6.8	7.7
92.5°	3.0	3.0	3.4	3.4	3.4	3.4	3.4	3.8	4.3	5.1	5.5
95°	7.2	11.5	6.8	6.4	7.2	7.2	7.7	7.2	7.2	7.2	7.2
97.5°	11.9	21.3	14.1	9.8	9.4	9.8	9.8	10.7	11.1	11.5	11.5
100°	17.5	26.8	24.7	16.2	13.2	12.8	12.8	12.8	13.2	13.6	14.1
102.5°	23.0	30.7	35.4	25.1	18.8	17.0	16.2	15.8	15.3	15.8	15.8
105°	28.6	34.5	43.5	34.1	26.8	24.3	21.7	18.8	18.3	18.3	18.3
107.5°	33.7	38.4	49.4	44.3	34.9	32.4	29.4	24.7	21.7	21.3	20.9
110°	38.4	42.2	53.7	52.8	43.9	40.1	37.5	32.4	28.1	25.1	23.9



TEST NUMBER: P395824

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	42.6	46.0	56.7	60.1	53.7	49.0	45.2	40.1	35.4	31.5	28.6
115°	46.9	49.9	59.2	66.1	62.2	58.4	54.1	47.7	43.0	39.2	35.8
117.5°	51.1	53.7	61.8	70.3	69.5	66.9	63.5	55.8	50.3	46.5	42.6
120°	55.0	57.5	64.4	73.3	75.9	73.7	71.6	64.8	58.0	53.7	50.3
122.5°	58.4	60.5	66.9	75.9	80.5	80.1	78.0	73.3	66.5	61.4	57.1
125°	61.8	63.9	69.5	77.6	84.0	85.2	84.4	80.5	75.4	69.5	64.4
127.5°	65.2	66.9	72.0	79.3	86.5	89.1	89.5	86.9	83.1	78.0	72.5
130°	68.2	69.9	74.2	80.5	88.2	91.2	92.9	92.5	89.5	86.1	80.5
132.5°	70.7	72.0	76.3	81.8	89.1	92.5	95.0	97.2	95.0	92.5	88.6
135°	73.3	74.6	78.0	83.1	89.5	92.9	96.3	99.7	100.2	98.0	95.0
137.5°	75.4	76.3	79.7	84.0	89.5	92.9	96.3	101.0	103.6	102.7	100.2
140°	77.6	78.4	81.0	85.2	89.9	92.9	95.9	101.4	104.8	106.1	104.8
142.5°	79.3	80.1	82.3	86.1	89.9	92.5	95.5	100.6	105.3	107.8	108.7
145°	81.0	81.4	83.5	86.5	89.9	92.1	94.6	99.7	104.4	108.3	110.8
147.5°	82.3	82.7	84.0	86.9	89.9	91.6	93.8	98.0	102.7	107.0	110.8
150°	83.5	83.5	84.8	86.9	89.9	91.2	92.9	96.7	100.6	104.8	108.3
152.5°	84.4	84.4	85.7	87.4	89.5	90.8	92.5	95.5	98.9	102.7	106.1
155°	85.2	85.2	86.1	87.4	89.5	90.4	91.6	94.2	97.2	100.2	103.1
157.5°	86.1	86.1	86.5	87.8	89.1	89.9	91.2	93.3	95.5	98.0	100.6
160°	86.5	86.5	86.9	87.8	88.6	89.5	90.4	92.1	94.2	95.9	98.0
162.5°	86.9	86.9	87.4	87.8	88.6	89.1	89.5	91.2	92.5	94.2	95.9
165°	87.4	87.4	87.4	87.8	88.2	88.6	89.1	89.9	91.2	92.5	93.8
167.5°	87.8	87.8	87.8	87.8	88.2	88.2	88.6	89.1	89.9	90.8	91.6
170°	88.2	87.8	87.8	88.2	87.8	87.8	88.2	88.6	88.6	89.5	89.9
172.5°	88.2	88.2	87.8	87.8	87.8	87.8	87.8	87.8	87.8	88.2	88.6
175°	88.2	88.2	87.8	87.8	87.8	87.4	87.4	87.4	87.4	87.4	87.4
177.5°	88.2	88.2	87.8	87.8	87.4	87.4	87.4	87.4	87.4	87.4	87.4
180°	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9



TEST NUMBER: P395824

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8	503.8
2.5°	507.2	505.0	504.2	503.8	503.3	502.9	502.0	501.2	500.3	500.3
5°	505.0	502.9	502.0	501.6	501.2	500.8	500.3	500.3	500.3	500.3
7.5°	501.6	499.5	498.6	498.2	498.2	497.8	497.8	497.8	497.4	497.8
10°	496.5	494.4	493.9	493.5	493.1	492.2	492.2	492.2	491.8	492.2
12.5°	490.1	488.0	487.6	487.1	486.7	486.3	486.3	485.9	485.9	486.3
15°	483.7	480.7	479.9	479.9	479.5	479.0	479.5	479.0	479.0	479.0
17.5°	474.3	473.1	471.8	470.9	470.5	470.1	470.1	469.7	469.7	469.7
20°	462.0	462.0	462.0	459.9	459.4	459.0	459.0	459.0	459.0	459.0
22.5°	450.1	447.9	449.6	448.3	447.5	446.6	447.1	447.1	447.1	447.1
25°	436.8	435.1	435.6	436.0	435.1	433.9	433.9	433.9	433.9	433.4
27.5°	422.8	421.5	421.1	421.5	422.3	421.5	420.2	418.9	419.4	419.4
30°	407.4	407.0	406.6	405.7	406.6	407.0	404.9	404.5	404.5	404.5
32.5°	392.1	391.7	390.4	389.5	390.0	390.8	390.0	389.1	389.1	389.1
35°	376.7	375.0	373.8	373.3	373.3	374.2	373.8	372.5	372.5	372.5
37.5°	358.8	359.3	357.1	356.7	356.7	356.7	357.6	355.4	355.9	355.4
40°	341.4	341.8	340.5	339.2	339.7	338.8	340.1	338.0	338.0	338.0
42.5°	323.9	323.0	323.5	320.9	321.3	321.3	321.8	320.5	320.1	319.6
45°	306.0	305.1	304.7	303.4	303.4	303.0	303.0	301.3	301.3	301.3
47.5°	287.2	286.8	286.0	285.1	285.1	284.7	283.8	283.4	283.0	283.0
50°	269.3	268.1	266.8	267.2	266.8	266.4	265.5	265.1	264.7	264.2
52.5°	250.2	250.2	248.5	248.5	248.5	248.0	247.2	246.3	246.3	245.9
55°	231.4	231.0	229.7	229.3	229.7	229.3	228.4	227.6	227.6	227.2
57.5°	212.7	211.8	211.4	211.4	211.0	211.0	209.7	208.8	209.3	208.8
60°	193.5	193.5	193.1	192.6	192.6	192.2	190.9	190.9	190.9	190.5
62.5°	175.2	175.2	174.3	173.9	174.3	173.9	173.5	173.0	172.6	172.2
65°	156.0	156.4	155.6	156.0	156.0	155.1	155.1	154.7	154.7	154.3
67.5°	138.1	138.1	137.7	137.7	138.1	137.7	137.7	137.2	137.2	136.8
70°	119.8	120.6	120.2	120.2	120.2	119.8	119.8	119.8	119.3	119.8
72.5°	101.4	101.4	101.4	101.4	101.4	101.9	101.9	101.9	101.9	101.4
75°	84.4	84.8	84.4	84.8	85.2	85.2	85.2	85.2	85.7	85.2
77.5°	67.8	68.2	68.2	69.0	69.0	69.0	69.5	69.5	69.5	69.5
80°	52.0	52.4	52.8	53.7	53.7	54.6	55.0	55.0	55.0	55.0
82.5°	37.5	38.8	39.2	40.5	40.9	40.9	41.8	42.2	42.2	42.2
85°	26.0	27.3	28.1	29.0	29.8	29.8	30.7	30.7	31.1	31.1
87.5°	16.2	17.5	18.3	19.6	20.0	20.5	20.9	21.3	21.7	21.7
90°	8.9	9.8	10.7	11.5	11.5	11.9	12.4	12.8	13.2	13.2
92.5°	6.4	6.8	7.7	8.1	8.1	8.5	8.9	8.9	9.4	9.4
95°	7.2	7.7	7.7	8.1	8.1	8.1	8.5	8.5	8.5	8.5
97.5°	11.1	11.1	11.1	10.7	10.7	10.7	10.7	10.7	10.7	10.7
100°	14.5	14.9	14.9	14.9	15.3	15.3	15.3	15.3	14.9	14.9
102.5°	16.2	16.6	17.0	17.5	17.5	17.5	17.9	17.9	17.9	17.9
105°	18.3	18.3	18.8	19.2	19.2	19.2	19.6	19.6	19.6	19.6
107.5°	20.9	20.9	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
110°	23.9	23.9	23.9	23.4	23.9	23.4	23.4	23.4	23.4	23.4



TEST NUMBER: P395824

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	27.3	26.8	26.8	26.4	26.4	26.4	26.0	26.0	26.0	26.0
115°	32.8	30.7	29.8	29.0	29.0	29.0	28.6	28.6	28.6	28.6
117.5°	39.6	36.7	34.9	33.2	32.8	32.4	31.5	31.5	31.1	31.1
120°	46.9	43.9	41.3	39.2	38.4	37.9	36.7	35.8	34.9	34.9
122.5°	53.7	50.7	48.2	46.0	45.2	44.3	43.0	42.2	41.3	41.3
125°	60.5	57.5	55.0	52.8	51.6	50.7	49.4	48.6	47.7	47.7
127.5°	67.8	63.9	61.4	59.2	58.0	57.5	55.8	55.0	54.1	54.1
130°	75.9	71.2	67.8	65.2	64.4	63.5	62.2	61.4	60.5	60.5
132.5°	84.0	79.3	75.4	72.0	70.7	69.9	68.2	67.3	66.5	66.5
135°	91.6	87.4	83.5	80.1	78.8	77.6	75.9	74.2	73.3	73.3
137.5°	97.6	94.6	91.2	88.2	86.9	85.7	84.0	82.3	81.0	81.4
140°	102.7	100.2	98.0	95.9	94.6	93.8	92.1	90.8	89.5	89.5
142.5°	107.4	105.3	103.1	101.4	101.0	100.6	99.3	98.0	97.2	97.2
145°	111.7	110.4	108.7	106.5	106.1	105.7	104.4	103.6	103.1	103.1
147.5°	112.9	113.4	112.9	111.7	111.2	110.8	110.0	109.1	108.7	108.7
150°	112.1	113.8	114.6	114.6	114.6	114.6	114.6	113.8	113.4	113.4
152.5°	109.5	112.1	113.8	115.1	115.5	115.9	115.9	116.3	115.9	115.9
155°	106.5	109.1	111.7	112.9	113.8	114.2	115.1	115.5	115.9	115.5
157.5°	103.1	105.3	107.0	109.5	110.4	111.2	112.1	112.9	113.4	112.9
160°	100.2	101.9	103.1	104.8	105.3	106.1	107.0	107.4	108.3	107.8
162.5°	97.2	98.4	99.7	100.6	101.4	101.9	102.7	103.1	103.6	103.1
165°	95.0	95.9	96.3	97.2	97.6	98.0	98.4	98.9	98.9	98.9
167.5°	92.5	93.3	93.8	94.2	94.6	95.0	95.0	95.5	95.5	95.5
170°	90.4	90.8	91.2	91.6	91.6	92.1	92.1	92.1	92.5	92.1
172.5°	88.6	88.6	88.6	89.1	89.1	89.1	89.1	89.1	89.1	88.6
175°	87.8	87.8	87.4	87.4	87.4	87.4	87.4	86.9	86.5	86.1
177.5°	87.4	86.9	86.9	86.5	86.5	86.5	86.1	85.7	85.2	84.8
180°	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9

(END OF REPORT)