

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: P395825

Luminaire Tested: **I3-WL-20L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395825  
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 (4000K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1802.4 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

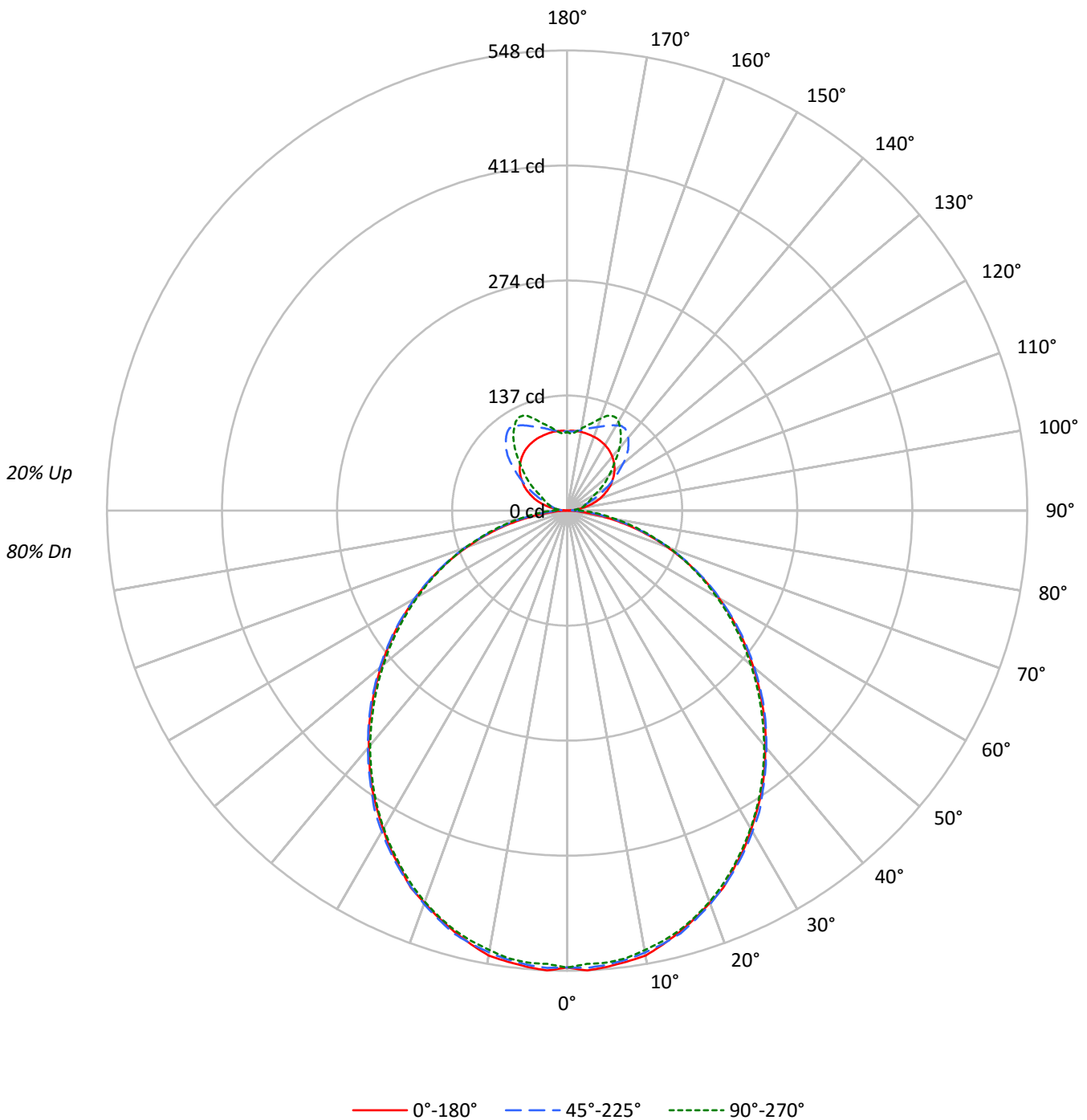
Input Watts (W): 17.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2991	2991	2991
5°	2998	2928	2897
10°	2981	2849	2802
15°	2921	2770	2703
20°	2863	2659	2586
25°	2794	2546	2457
30°	2714	2429	2325
35°	2639	2299	2189
40°	2545	2165	2047
45°	2454	2035	1897
50°	2356	1892	1747
55°	2254	1746	1593
60°	2140	1583	1434
65°	2008	1407	1264
70°	1822	1201	1085
75°	1569	952	872
80°	1196	685	650
85°	624	409	441



TEST NUMBER: P395825

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.4	2.9
10°-20°	145.8	8.1
20°-30°	215.9	12.0
30°-40°	252.3	14.0
40°-50°	253.4	14.1
50°-60°	222.7	12.4
60°-70°	166.9	9.3
70°-80°	94.9	5.3
80°-90°	30.0	1.7
90°-100°	10.8	0.6
100°-110°	26.3	1.5
110°-120°	43.7	2.4
120°-130°	61.4	3.4
130°-140°	70.7	3.9
140°-150°	67.5	3.7
150°-160°	50.8	2.8
160°-170°	28.7	1.6
170°-180°	9.1	0.5
0°-30°	413.1	22.9
0°-40°	665.4	36.9
0°-60°	1141.6	63.3
0°-90°	1433.3	79.5
90°-120°	80.9	4.5
90°-150°	280.5	15.6
90°-180°	369.0	20.5
0°-180°	1802.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	544	544	544	544	544	
5°	545	540	543	541	540	52
15°	519	515	522	518	517	146
25°	470	469	472	470	468	217
35°	405	402	406	403	402	253
45°	329	329	331	328	325	254
55°	250	250	251	248	245	223
65°	168	169	170	168	167	166
75°	86	87	89	92	92	91
85°	15	19	26	32	34	19
90°	0	3	8	12	14	1
95°	8	8	8	9	9	9
105°	31	26	20	21	21	32
115°	51	63	39	31	31	50
125°	67	92	70	56	52	60
135°	79	100	103	85	79	61
145°	88	99	120	115	111	55
155°	92	98	111	123	125	43
165°	94	96	101	105	107	27
175°	95	94	94	94	93	9
180°	94	94	94	94	94	



TEST NUMBER: P395825

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1
2.5°	548.2	547.3	545.0	542.7	542.2	541.8	541.8	541.3	541.3	542.2	545.0
5°	545.4	545.0	542.7	540.4	539.9	539.9	539.4	539.4	539.4	540.4	543.1
7.5°	541.8	540.8	538.5	536.2	535.8	535.8	535.8	535.3	535.8	536.2	539.4
10°	538.1	537.6	535.3	532.5	531.6	531.6	531.2	530.2	530.2	531.2	534.4
12.5°	528.9	528.4	526.1	524.3	524.3	524.7	524.7	525.2	525.2	526.1	528.4
15°	519.2	518.7	516.4	514.6	514.6	514.6	514.1	514.1	514.6	517.4	521.5
17.5°	508.6	508.1	506.3	504.5	504.5	504.5	504.0	504.0	504.5	505.8	510.0
20°	497.1	496.6	494.8	493.0	493.0	493.0	492.5	493.0	493.0	494.8	498.5
22.5°	486.1	485.1	482.8	481.0	480.1	480.1	480.1	479.6	480.5	481.9	485.6
25°	469.9	469.5	468.6	467.2	468.1	468.6	467.6	466.7	466.7	468.6	471.8
27.5°	455.2	454.3	452.9	451.5	450.6	451.1	451.5	452.5	453.8	454.3	457.1
30°	438.2	437.7	436.3	434.5	435.0	435.4	435.4	435.4	436.3	440.5	441.4
32.5°	421.6	421.2	419.8	417.9	418.4	418.9	418.4	418.9	419.8	421.6	425.8
35°	405.0	404.1	402.7	402.3	401.8	401.8	401.8	402.3	402.7	404.1	406.4
37.5°	386.2	385.3	384.3	383.0	383.9	384.8	385.3	384.8	385.3	387.1	388.0
40°	367.3	366.8	365.9	365.0	365.5	365.9	365.5	366.8	367.8	368.7	369.1
42.5°	349.4	348.4	347.5	347.1	347.1	347.5	347.5	348.4	348.4	350.7	350.3
45°	329.1	328.6	328.2	328.2	328.6	328.6	328.6	329.1	329.6	330.9	331.4
47.5°	309.3	308.8	308.8	308.8	308.8	309.3	309.8	311.1	310.2	310.7	311.1
50°	289.5	289.1	289.1	289.1	290.0	290.0	290.9	291.4	291.8	290.9	291.4
52.5°	269.3	268.8	269.7	269.7	270.6	270.6	272.0	270.6	271.6	271.1	271.1
55°	249.5	249.0	249.9	249.5	250.4	250.4	251.3	251.8	251.3	251.3	251.3
57.5°	229.2	228.8	229.2	229.7	230.1	230.1	231.5	231.5	230.1	231.1	230.6
60°	209.0	208.5	209.0	209.4	209.9	209.9	210.3	209.4	210.3	210.8	210.3
62.5°	188.7	188.3	189.2	188.7	189.2	189.6	189.6	191.0	190.6	190.6	190.1
65°	168.5	168.0	168.0	168.0	168.5	168.9	169.4	169.8	169.8	170.3	169.8
67.5°	147.8	147.3	147.8	147.3	147.8	148.2	149.1	149.6	149.6	150.1	149.6
70°	126.6	127.0	126.6	127.0	127.5	128.0	128.4	129.3	129.3	129.3	129.3
72.5°	105.9	105.4	105.4	104.9	105.9	106.3	106.8	108.2	108.2	108.6	108.6
75°	85.6	84.7	85.2	84.7	86.5	87.0	87.0	88.4	88.8	89.8	89.3
77.5°	65.8	65.8	64.9	66.3	66.7	67.7	68.6	69.5	70.0	71.3	71.3
80°	46.9	46.9	46.5	47.4	49.3	49.7	51.1	51.6	52.9	53.9	54.3
82.5°	29.9	29.9	29.9	31.3	32.7	33.1	34.5	35.9	36.8	38.2	38.7
85°	14.7	15.6	15.6	17.5	18.4	19.3	19.8	21.6	23.0	24.9	26.2
87.5°	4.6	5.1	5.5	6.4	8.3	8.7	9.7	11.5	12.9	14.7	16.1
90°	0.5	0.5	0.9	1.4	2.3	2.8	3.7	4.6	6.0	7.4	8.3
92.5°	3.2	3.2	3.7	3.7	3.7	3.7	3.7	4.1	4.6	5.5	6.0
95°	7.8	12.4	7.4	6.9	7.8	7.8	8.3	7.8	7.8	7.8	7.8
97.5°	12.9	23.0	15.2	10.6	10.1	10.6	10.6	11.5	12.0	12.4	12.4
100°	18.9	29.0	26.7	17.5	14.3	13.8	13.8	13.8	14.3	14.7	15.2
102.5°	24.9	33.1	38.2	27.2	20.3	18.4	17.5	17.0	16.6	17.0	17.0
105°	30.8	37.3	46.9	36.8	29.0	26.2	23.5	20.3	19.8	19.8	19.8
107.5°	36.4	41.4	53.4	47.9	37.7	35.0	31.8	26.7	23.5	23.0	22.6
110°	41.4	45.6	58.0	57.1	47.4	43.3	40.5	35.0	30.4	27.2	25.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	46.0	49.7	61.2	64.9	58.0	52.9	48.8	43.3	38.2	34.1	30.8
115°	50.6	53.9	64.0	71.3	67.2	63.1	58.5	51.6	46.5	42.3	38.7
117.5°	55.2	58.0	66.7	75.9	75.0	72.3	68.6	60.3	54.3	50.2	46.0
120°	59.4	62.1	69.5	79.2	81.9	79.6	77.3	70.0	62.6	58.0	54.3
122.5°	63.1	65.4	72.3	81.9	87.0	86.5	84.2	79.2	71.8	66.3	61.7
125°	66.7	69.0	75.0	83.8	90.7	92.1	91.1	87.0	81.5	75.0	69.5
127.5°	70.4	72.3	77.8	85.6	93.4	96.2	96.7	93.9	89.8	84.2	78.2
130°	73.6	75.5	80.1	87.0	95.3	98.5	100.3	99.9	96.7	93.0	87.0
132.5°	76.4	77.8	82.4	88.4	96.2	99.9	102.6	104.9	102.6	99.9	95.7
135°	79.2	80.5	84.2	89.8	96.7	100.3	104.0	107.7	108.2	105.9	102.6
137.5°	81.5	82.4	86.1	90.7	96.7	100.3	104.0	109.1	111.8	110.9	108.2
140°	83.8	84.7	87.5	92.1	97.1	100.3	103.6	109.5	113.2	114.6	113.2
142.5°	85.6	86.5	88.8	93.0	97.1	99.9	103.1	108.6	113.7	116.5	117.4
145°	87.5	87.9	90.2	93.4	97.1	99.4	102.2	107.7	112.8	116.9	119.7
147.5°	88.8	89.3	90.7	93.9	97.1	99.0	101.3	105.9	110.9	115.5	119.7
150°	90.2	90.2	91.6	93.9	97.1	98.5	100.3	104.5	108.6	113.2	116.9
152.5°	91.1	91.1	92.5	94.4	96.7	98.0	99.9	103.1	106.8	110.9	114.6
155°	92.1	92.1	93.0	94.4	96.7	97.6	99.0	101.7	104.9	108.2	111.4
157.5°	93.0	93.0	93.4	94.8	96.2	97.1	98.5	100.8	103.1	105.9	108.6
160°	93.4	93.4	93.9	94.8	95.7	96.7	97.6	99.4	101.7	103.6	105.9
162.5°	93.9	93.9	94.4	94.8	95.7	96.2	96.7	98.5	99.9	101.7	103.6
165°	94.4	94.4	94.4	94.8	95.3	95.7	96.2	97.1	98.5	99.9	101.3
167.5°	94.8	94.8	94.8	94.8	95.3	95.3	95.7	96.2	97.1	98.0	99.0
170°	95.3	94.8	94.8	95.3	94.8	94.8	95.3	95.7	95.7	96.7	97.1
172.5°	95.3	95.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.3	95.7
175°	95.3	95.3	94.8	94.8	94.8	94.4	94.4	94.4	94.4	94.4	94.4
177.5°	95.3	95.3	94.8	94.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4
180°	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9



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CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1	544.1
2.5°	547.7	545.4	544.5	544.1	543.6	543.1	542.2	541.3	540.4	540.4
5°	545.4	543.1	542.2	541.8	541.3	540.8	540.4	540.4	540.4	540.4
7.5°	541.8	539.4	538.5	538.1	538.1	537.6	537.6	537.6	537.1	537.6
10°	536.2	533.9	533.5	533.0	532.5	531.6	531.6	531.6	531.2	531.6
12.5°	529.3	527.0	526.6	526.1	525.6	525.2	525.2	524.7	524.7	525.2
15°	522.4	519.2	518.3	518.3	517.8	517.4	517.8	517.4	517.4	517.4
17.5°	512.3	510.9	509.5	508.6	508.1	507.7	507.7	507.2	507.2	507.2
20°	498.9	498.9	498.9	496.6	496.2	495.7	495.7	495.7	495.7	495.7
22.5°	486.1	483.8	485.6	484.2	483.3	482.4	482.8	482.8	482.8	482.8
25°	471.8	469.9	470.4	470.9	469.9	468.6	468.6	468.6	468.6	468.1
27.5°	456.6	455.2	454.8	455.2	456.1	455.2	453.8	452.5	452.9	452.9
30°	440.0	439.6	439.1	438.2	439.1	439.6	437.3	436.8	436.8	436.8
32.5°	423.5	423.0	421.6	420.7	421.2	422.1	421.2	420.2	420.2	420.2
35°	406.9	405.0	403.7	403.2	403.2	404.1	403.7	402.3	402.3	402.3
37.5°	387.6	388.0	385.7	385.3	385.3	385.3	386.2	383.9	384.3	383.9
40°	368.7	369.1	367.8	366.4	366.8	365.9	367.3	365.0	365.0	365.0
42.5°	349.8	348.9	349.4	346.6	347.1	347.1	347.5	346.1	345.7	345.2
45°	330.5	329.6	329.1	327.7	327.7	327.3	327.3	325.4	325.4	325.4
47.5°	310.2	309.8	308.8	307.9	307.9	307.5	306.5	306.1	305.6	305.6
50°	290.9	289.5	288.1	288.6	288.1	287.7	286.8	286.3	285.8	285.4
52.5°	270.2	270.2	268.3	268.3	268.3	267.9	267.0	266.0	266.0	265.6
55°	249.9	249.5	248.1	247.6	248.1	247.6	246.7	245.8	245.8	245.3
57.5°	229.7	228.8	228.3	228.3	227.8	227.8	226.5	225.5	226.0	225.5
60°	209.0	209.0	208.5	208.0	208.0	207.6	206.2	206.2	206.2	205.7
62.5°	189.2	189.2	188.3	187.8	188.3	187.8	187.3	186.9	186.4	186.0
65°	168.5	168.9	168.0	168.5	168.5	167.5	167.5	167.1	167.1	166.6
67.5°	149.1	149.1	148.7	148.7	149.1	148.7	148.7	148.2	148.2	147.8
70°	129.3	130.3	129.8	129.8	129.8	129.3	129.3	129.3	128.9	129.3
72.5°	109.5	109.5	109.5	109.5	109.5	110.0	110.0	110.0	110.0	109.5
75°	91.1	91.6	91.1	91.6	92.1	92.1	92.1	92.1	92.5	92.1
77.5°	73.2	73.6	73.6	74.6	74.6	74.6	75.0	75.0	75.0	75.0
80°	56.2	56.6	57.1	58.0	58.0	58.9	59.4	59.4	59.4	59.4
82.5°	40.5	41.9	42.3	43.7	44.2	44.2	45.1	45.6	45.6	45.6
85°	28.1	29.5	30.4	31.3	32.2	32.2	33.1	33.1	33.6	33.6
87.5°	17.5	18.9	19.8	21.2	21.6	22.1	22.6	23.0	23.5	23.5
90°	9.7	10.6	11.5	12.4	12.4	12.9	13.3	13.8	14.3	14.3
92.5°	6.9	7.4	8.3	8.7	8.7	9.2	9.7	9.7	10.1	10.1
95°	7.8	8.3	8.3	8.7	8.7	8.7	9.2	9.2	9.2	9.2
97.5°	12.0	12.0	12.0	11.5	11.5	11.5	11.5	11.5	11.5	11.5
100°	15.6	16.1	16.1	16.1	16.6	16.6	16.6	16.6	16.1	16.1
102.5°	17.5	18.0	18.4	18.9	18.9	18.9	19.3	19.3	19.3	19.3
105°	19.8	19.8	20.3	20.7	20.7	20.7	21.2	21.2	21.2	21.2
107.5°	22.6	22.6	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
110°	25.8	25.8	25.8	25.3	25.8	25.3	25.3	25.3	25.3	25.3





TEST NUMBER: P395825

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	29.5	29.0	29.0	28.5	28.5	28.5	28.1	28.1	28.1	28.1
115°	35.4	33.1	32.2	31.3	31.3	31.3	30.8	30.8	30.8	30.8
117.5°	42.8	39.6	37.7	35.9	35.4	35.0	34.1	34.1	33.6	33.6
120°	50.6	47.4	44.6	42.3	41.4	41.0	39.6	38.7	37.7	37.7
122.5°	58.0	54.8	52.0	49.7	48.8	47.9	46.5	45.6	44.6	44.6
125°	65.4	62.1	59.4	57.1	55.7	54.8	53.4	52.5	51.6	51.6
127.5°	73.2	69.0	66.3	64.0	62.6	62.1	60.3	59.4	58.5	58.5
130°	81.9	76.9	73.2	70.4	69.5	68.6	67.2	66.3	65.4	65.4
132.5°	90.7	85.6	81.5	77.8	76.4	75.5	73.6	72.7	71.8	71.8
135°	99.0	94.4	90.2	86.5	85.2	83.8	81.9	80.1	79.2	79.2
137.5°	105.4	102.2	98.5	95.3	93.9	92.5	90.7	88.8	87.5	87.9
140°	110.9	108.2	105.9	103.6	102.2	101.3	99.4	98.0	96.7	96.7
142.5°	116.0	113.7	111.4	109.5	109.1	108.6	107.2	105.9	104.9	104.9
145°	120.6	119.2	117.4	115.1	114.6	114.1	112.8	111.8	111.4	111.4
147.5°	122.0	122.4	122.0	120.6	120.1	119.7	118.8	117.8	117.4	117.4
150°	121.1	122.9	123.8	123.8	123.8	123.8	123.8	122.9	122.4	122.4
152.5°	118.3	121.1	122.9	124.3	124.7	125.2	125.2	125.7	125.2	125.2
155°	115.1	117.8	120.6	122.0	122.9	123.4	124.3	124.7	125.2	124.7
157.5°	111.4	113.7	115.5	118.3	119.2	120.1	121.1	122.0	122.4	122.0
160°	108.2	110.0	111.4	113.2	113.7	114.6	115.5	116.0	116.9	116.5
162.5°	104.9	106.3	107.7	108.6	109.5	110.0	110.9	111.4	111.8	111.4
165°	102.6	103.6	104.0	104.9	105.4	105.9	106.3	106.8	106.8	106.8
167.5°	99.9	100.8	101.3	101.7	102.2	102.6	102.6	103.1	103.1	103.1
170°	97.6	98.0	98.5	99.0	99.0	99.4	99.4	99.4	99.9	99.4
172.5°	95.7	95.7	95.7	96.2	96.2	96.2	96.2	96.2	96.2	95.7
175°	94.8	94.8	94.4	94.4	94.4	94.4	94.4	93.9	93.4	93.0
177.5°	94.4	93.9	93.9	93.4	93.4	93.4	93.0	92.5	92.1	91.6
180°	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9

(END OF REPORT)