

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: P395811

Luminaire Tested: **I3-WL-20L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395811
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-20L83050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 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: 1963.4 lumens
Efficiency: N/A
Efficacy: 115.5 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

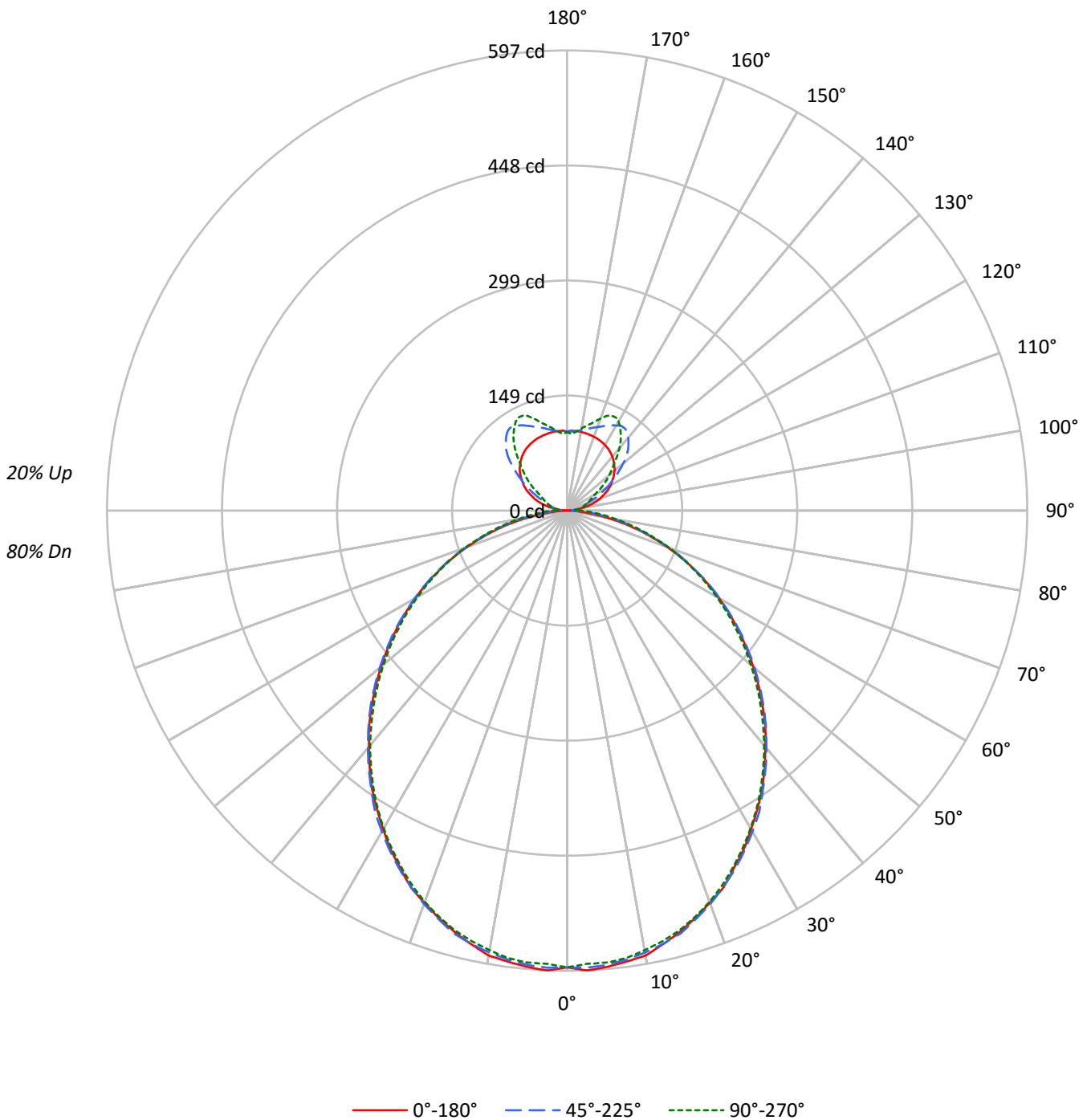
Input Watts (W): 17
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395811

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395811

CATALOG NUMBER: I3-WL-20L83050-1D-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°	3257	3257	3257
5°	3266	3190	3156
10°	3247	3103	3053
15°	3182	3018	2944
20°	3119	2896	2817
25°	3044	2773	2676
30°	2957	2646	2532
35°	2875	2504	2384
40°	2772	2359	2229
45°	2673	2217	2067
50°	2567	2061	1903
55°	2455	1902	1735
60°	2330	1725	1562
65°	2187	1533	1377
70°	1984	1309	1182
75°	1710	1037	949
80°	1303	747	709
85°	679	447	480



TEST NUMBER: P395811

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	2.9
10°-20°	158.8	8.1
20°-30°	235.2	12.0
30°-40°	274.8	14.0
40°-50°	276.1	14.1
50°-60°	242.6	12.4
60°-70°	181.8	9.3
70°-80°	103.4	5.3
80°-90°	32.6	1.7
90°-100°	11.7	0.6
100°-110°	28.7	1.5
110°-120°	47.6	2.4
120°-130°	66.8	3.4
130°-140°	77.0	3.9
140°-150°	73.6	3.7
150°-160°	55.3	2.8
160°-170°	31.3	1.6
170°-180°	9.9	0.5
0°-30°	450.0	22.9
0°-40°	724.8	36.9
0°-60°	1243.6	63.3
0°-90°	1561.4	79.5
90°-120°	88.1	4.5
90°-150°	305.5	15.6
90°-180°	402.0	20.5
0°-180°	1963.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	594	588	592	590	589	56
15°	566	561	568	564	564	159
25°	512	510	514	512	510	236
35°	441	438	443	439	438	275
45°	358	358	361	357	354	277
55°	272	273	274	270	267	243
65°	184	184	185	184	182	181
75°	93	95	97	100	100	99
85°	16	21	29	35	37	21
90°	0	3	9	14	16	1
95°	8	8	8	10	10	9
105°	34	29	22	23	23	35
115°	55	69	42	34	34	55
125°	73	100	76	61	56	65
135°	86	109	112	93	86	66
145°	95	108	130	125	121	60
155°	100	106	121	134	136	46
165°	103	104	110	115	116	29
175°	104	103	103	103	101	10
180°	102	102	102	102	102	



TEST NUMBER: P395811

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6
2.5°	597.2	596.2	593.7	591.1	590.6	590.1	590.1	589.6	589.6	590.6	593.7
5°	594.2	593.7	591.1	588.6	588.1	588.1	587.6	587.6	587.6	588.6	591.6
7.5°	590.1	589.1	586.6	584.1	583.6	583.6	583.6	583.1	583.6	584.1	587.6
10°	586.1	585.6	583.1	580.1	579.1	579.1	578.6	577.6	577.6	578.6	582.1
12.5°	576.1	575.6	573.1	571.1	571.1	571.6	571.6	572.1	572.1	573.1	575.6
15°	565.6	565.1	562.6	560.6	560.6	560.6	560.1	560.1	560.6	563.6	568.1
17.5°	554.0	553.5	551.5	549.5	549.5	549.5	549.0	549.0	549.5	551.0	555.5
20°	541.5	541.0	539.0	537.0	537.0	537.0	536.5	537.0	537.0	539.0	543.0
22.5°	529.5	528.5	526.0	524.0	523.0	523.0	523.0	522.5	523.5	525.0	529.0
25°	511.9	511.4	510.4	508.9	509.9	510.4	509.4	508.4	508.4	510.4	513.9
27.5°	495.9	494.9	493.4	491.9	490.9	491.4	491.9	492.9	494.4	494.9	497.9
30°	477.3	476.8	475.3	473.3	473.8	474.3	474.3	474.3	475.3	479.8	480.8
32.5°	459.3	458.8	457.3	455.3	455.8	456.3	455.8	456.3	457.3	459.3	463.8
35°	441.2	440.2	438.7	438.2	437.7	437.7	437.7	438.2	438.7	440.2	442.7
37.5°	420.7	419.7	418.7	417.2	418.2	419.2	419.7	419.2	419.7	421.7	422.7
40°	400.1	399.6	398.6	397.6	398.1	398.6	398.1	399.6	400.6	401.6	402.1
42.5°	380.6	379.6	378.6	378.1	378.1	378.6	378.6	379.6	379.6	382.1	381.6
45°	358.5	358.0	357.5	357.5	358.0	358.0	358.0	358.5	359.0	360.5	361.0
47.5°	336.9	336.4	336.4	336.4	336.4	336.9	337.4	338.9	337.9	338.4	338.9
50°	315.4	314.9	314.9	314.9	315.9	315.9	316.9	317.4	317.9	316.9	317.4
52.5°	293.3	292.8	293.8	293.8	294.8	294.8	296.3	294.8	295.8	295.3	295.3
55°	271.8	271.3	272.3	271.8	272.8	272.8	273.8	274.3	273.8	273.8	273.8
57.5°	249.7	249.2	249.7	250.2	250.7	250.7	252.2	252.2	250.7	251.7	251.2
60°	227.6	227.1	227.6	228.1	228.6	228.6	229.1	228.1	229.1	229.6	229.1
62.5°	205.6	205.1	206.1	205.6	206.1	206.6	206.6	208.1	207.6	207.6	207.1
65°	183.5	183.0	183.0	183.0	183.5	184.0	184.5	185.0	185.0	185.5	185.0
67.5°	160.9	160.4	160.9	160.4	160.9	161.4	162.5	163.0	163.0	163.5	163.0
70°	137.9	138.4	137.9	138.4	138.9	139.4	139.9	140.9	140.9	140.9	140.9
72.5°	115.3	114.8	114.8	114.3	115.3	115.8	116.3	117.8	117.8	118.3	118.3
75°	93.3	92.3	92.8	92.3	94.3	94.8	94.8	96.3	96.8	97.8	97.3
77.5°	71.7	71.7	70.7	72.2	72.7	73.7	74.7	75.7	76.2	77.7	77.7
80°	51.1	51.1	50.6	51.6	53.6	54.2	55.7	56.2	57.7	58.7	59.2
82.5°	32.6	32.6	32.6	34.1	35.6	36.1	37.6	39.1	40.1	41.6	42.1
85°	16.0	17.0	17.0	19.1	20.1	21.1	21.6	23.6	25.1	27.1	28.6
87.5°	5.0	5.5	6.0	7.0	9.0	9.5	10.5	12.5	14.0	16.0	17.5
90°	0.5	0.5	1.0	1.5	2.5	3.0	4.0	5.0	6.5	8.0	9.0
92.5°	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.5	5.0	6.0	6.5
95°	8.5	13.5	8.0	7.5	8.5	8.5	9.0	8.5	8.5	8.5	8.5
97.5°	14.0	25.1	16.5	11.5	11.0	11.5	11.5	12.5	13.0	13.5	13.5
100°	20.6	31.6	29.1	19.1	15.5	15.0	15.0	15.0	15.5	16.0	16.5
102.5°	27.1	36.1	41.6	29.6	22.1	20.1	19.1	18.6	18.1	18.6	18.6
105°	33.6	40.6	51.1	40.1	31.6	28.6	25.6	22.1	21.6	21.6	21.6
107.5°	39.6	45.1	58.2	52.1	41.1	38.1	34.6	29.1	25.6	25.1	24.6
110°	45.1	49.6	63.2	62.2	51.6	47.1	44.1	38.1	33.1	29.6	28.1



TEST NUMBER: P395811

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	50.1	54.2	66.7	70.7	63.2	57.7	53.1	47.1	41.6	37.1	33.6
115°	55.2	58.7	69.7	77.7	73.2	68.7	63.7	56.2	50.6	46.1	42.1
117.5°	60.2	63.2	72.7	82.7	81.7	78.7	74.7	65.7	59.2	54.7	50.1
120°	64.7	67.7	75.7	86.2	89.2	86.7	84.2	76.2	68.2	63.2	59.2
122.5°	68.7	71.2	78.7	89.2	94.8	94.3	91.8	86.2	78.2	72.2	67.2
125°	72.7	75.2	81.7	91.3	98.8	100.3	99.3	94.8	88.7	81.7	75.7
127.5°	76.7	78.7	84.7	93.3	101.8	104.8	105.3	102.3	97.8	91.8	85.2
130°	80.2	82.2	87.2	94.8	103.8	107.3	109.3	108.8	105.3	101.3	94.8
132.5°	83.2	84.7	89.7	96.3	104.8	108.8	111.8	114.3	111.8	108.8	104.3
135°	86.2	87.7	91.8	97.8	105.3	109.3	113.3	117.3	117.8	115.3	111.8
137.5°	88.7	89.7	93.8	98.8	105.3	109.3	113.3	118.8	121.8	120.8	117.8
140°	91.3	92.3	95.3	100.3	105.8	109.3	112.8	119.3	123.3	124.8	123.3
142.5°	93.3	94.3	96.8	101.3	105.8	108.8	112.3	118.3	123.8	126.9	127.9
145°	95.3	95.8	98.3	101.8	105.8	108.3	111.3	117.3	122.8	127.4	130.4
147.5°	96.8	97.3	98.8	102.3	105.8	107.8	110.3	115.3	120.8	125.9	130.4
150°	98.3	98.3	99.8	102.3	105.8	107.3	109.3	113.8	118.3	123.3	127.4
152.5°	99.3	99.3	100.8	102.8	105.3	106.8	108.8	112.3	116.3	120.8	124.8
155°	100.3	100.3	101.3	102.8	105.3	106.3	107.8	110.8	114.3	117.8	121.3
157.5°	101.3	101.3	101.8	103.3	104.8	105.8	107.3	109.8	112.3	115.3	118.3
160°	101.8	101.8	102.3	103.3	104.3	105.3	106.3	108.3	110.8	112.8	115.3
162.5°	102.3	102.3	102.8	103.3	104.3	104.8	105.3	107.3	108.8	110.8	112.8
165°	102.8	102.8	102.8	103.3	103.8	104.3	104.8	105.8	107.3	108.8	110.3
167.5°	103.3	103.3	103.3	103.3	103.8	103.8	104.3	104.8	105.8	106.8	107.8
170°	103.8	103.3	103.3	103.8	103.3	103.3	103.8	104.3	104.3	105.3	105.8
172.5°	103.8	103.8	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.8	104.3
175°	103.8	103.8	103.3	103.3	103.3	102.8	102.8	102.8	102.8	102.8	102.8
177.5°	103.8	103.8	103.3	103.3	102.8	102.8	102.8	102.8	102.8	102.8	102.8
180°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3



TEST NUMBER: P395811

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6
2.5°	596.7	594.2	593.2	592.6	592.1	591.6	590.6	589.6	588.6	588.6
5°	594.2	591.6	590.6	590.1	589.6	589.1	588.6	588.6	588.6	588.6
7.5°	590.1	587.6	586.6	586.1	586.1	585.6	585.6	585.6	585.1	585.6
10°	584.1	581.6	581.1	580.6	580.1	579.1	579.1	579.1	578.6	579.1
12.5°	576.6	574.1	573.6	573.1	572.6	572.1	572.1	571.6	571.6	572.1
15°	569.1	565.6	564.6	564.6	564.1	563.6	564.1	563.6	563.6	563.6
17.5°	558.1	556.5	555.0	554.0	553.5	553.0	553.0	552.5	552.5	552.5
20°	543.5	543.5	543.5	541.0	540.5	540.0	540.0	540.0	540.0	540.0
22.5°	529.5	527.0	529.0	527.5	526.5	525.5	526.0	526.0	526.0	526.0
25°	513.9	511.9	512.4	512.9	511.9	510.4	510.4	510.4	510.4	509.9
27.5°	497.4	495.9	495.4	495.9	496.9	495.9	494.4	492.9	493.4	493.4
30°	479.3	478.8	478.3	477.3	478.3	478.8	476.3	475.8	475.8	475.8
32.5°	461.3	460.8	459.3	458.3	458.8	459.8	458.8	457.8	457.8	457.8
35°	443.2	441.2	439.7	439.2	439.2	440.2	439.7	438.2	438.2	438.2
37.5°	422.2	422.7	420.2	419.7	419.7	419.7	420.7	418.2	418.7	418.2
40°	401.6	402.1	400.6	399.1	399.6	398.6	400.1	397.6	397.6	397.6
42.5°	381.1	380.1	380.6	377.6	378.1	378.1	378.6	377.0	376.5	376.0
45°	360.0	359.0	358.5	357.0	357.0	356.5	356.5	354.5	354.5	354.5
47.5°	337.9	337.4	336.4	335.4	335.4	334.9	333.9	333.4	332.9	332.9
50°	316.9	315.4	313.9	314.4	313.9	313.4	312.4	311.9	311.4	310.9
52.5°	294.3	294.3	292.3	292.3	292.3	291.8	290.8	289.8	289.8	289.3
55°	272.3	271.8	270.3	269.8	270.3	269.8	268.7	267.7	267.7	267.2
57.5°	250.2	249.2	248.7	248.7	248.2	248.2	246.7	245.7	246.2	245.7
60°	227.6	227.6	227.1	226.6	226.6	226.1	224.6	224.6	224.6	224.1
62.5°	206.1	206.1	205.1	204.6	205.1	204.6	204.1	203.6	203.1	202.6
65°	183.5	184.0	183.0	183.5	183.5	182.5	182.5	182.0	182.0	181.5
67.5°	162.5	162.5	162.0	162.0	162.5	162.0	162.0	161.4	161.4	160.9
70°	140.9	141.9	141.4	141.4	141.4	140.9	140.9	140.9	140.4	140.9
72.5°	119.3	119.3	119.3	119.3	119.3	119.8	119.8	119.8	119.8	119.3
75°	99.3	99.8	99.3	99.8	100.3	100.3	100.3	100.3	100.8	100.3
77.5°	79.7	80.2	80.2	81.2	81.2	81.2	81.7	81.7	81.7	81.7
80°	61.2	61.7	62.2	63.2	63.2	64.2	64.7	64.7	64.7	64.7
82.5°	44.1	45.6	46.1	47.6	48.1	48.1	49.1	49.6	49.6	49.6
85°	30.6	32.1	33.1	34.1	35.1	35.1	36.1	36.1	36.6	36.6
87.5°	19.1	20.6	21.6	23.1	23.6	24.1	24.6	25.1	25.6	25.6
90°	10.5	11.5	12.5	13.5	13.5	14.0	14.5	15.0	15.5	15.5
92.5°	7.5	8.0	9.0	9.5	9.5	10.0	10.5	10.5	11.0	11.0
95°	8.5	9.0	9.0	9.5	9.5	9.5	10.0	10.0	10.0	10.0
97.5°	13.0	13.0	13.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5
100°	17.0	17.5	17.5	17.5	18.1	18.1	18.1	18.1	17.5	17.5
102.5°	19.1	19.6	20.1	20.6	20.6	20.6	21.1	21.1	21.1	21.1
105°	21.6	21.6	22.1	22.6	22.6	22.6	23.1	23.1	23.1	23.1
107.5°	24.6	24.6	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
110°	28.1	28.1	28.1	27.6	28.1	27.6	27.6	27.6	27.6	27.6



TEST NUMBER: P395811

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	32.1	31.6	31.6	31.1	31.1	31.1	30.6	30.6	30.6	30.6
115°	38.6	36.1	35.1	34.1	34.1	34.1	33.6	33.6	33.6	33.6
117.5°	46.6	43.1	41.1	39.1	38.6	38.1	37.1	37.1	36.6	36.6
120°	55.2	51.6	48.6	46.1	45.1	44.6	43.1	42.1	41.1	41.1
122.5°	63.2	59.7	56.7	54.2	53.1	52.1	50.6	49.6	48.6	48.6
125°	71.2	67.7	64.7	62.2	60.7	59.7	58.2	57.2	56.2	56.2
127.5°	79.7	75.2	72.2	69.7	68.2	67.7	65.7	64.7	63.7	63.7
130°	89.2	83.7	79.7	76.7	75.7	74.7	73.2	72.2	71.2	71.2
132.5°	98.8	93.3	88.7	84.7	83.2	82.2	80.2	79.2	78.2	78.2
135°	107.8	102.8	98.3	94.3	92.8	91.3	89.2	87.2	86.2	86.2
137.5°	114.8	111.3	107.3	103.8	102.3	100.8	98.8	96.8	95.3	95.8
140°	120.8	117.8	115.3	112.8	111.3	110.3	108.3	106.8	105.3	105.3
142.5°	126.4	123.8	121.3	119.3	118.8	118.3	116.8	115.3	114.3	114.3
145°	131.4	129.9	127.9	125.3	124.8	124.3	122.8	121.8	121.3	121.3
147.5°	132.9	133.4	132.9	131.4	130.9	130.4	129.4	128.4	127.9	127.9
150°	131.9	133.9	134.9	134.9	134.9	134.9	134.9	133.9	133.4	133.4
152.5°	128.9	131.9	133.9	135.4	135.9	136.4	136.4	136.9	136.4	136.4
155°	125.3	128.4	131.4	132.9	133.9	134.4	135.4	135.9	136.4	135.9
157.5°	121.3	123.8	125.9	128.9	129.9	130.9	131.9	132.9	133.4	132.9
160°	117.8	119.8	121.3	123.3	123.8	124.8	125.9	126.4	127.4	126.9
162.5°	114.3	115.8	117.3	118.3	119.3	119.8	120.8	121.3	121.8	121.3
165°	111.8	112.8	113.3	114.3	114.8	115.3	115.8	116.3	116.3	116.3
167.5°	108.8	109.8	110.3	110.8	111.3	111.8	111.8	112.3	112.3	112.3
170°	106.3	106.8	107.3	107.8	107.8	108.3	108.3	108.3	108.8	108.3
172.5°	104.3	104.3	104.3	104.8	104.8	104.8	104.8	104.8	104.8	104.3
175°	103.3	103.3	102.8	102.8	102.8	102.8	102.8	102.3	101.8	101.3
177.5°	102.8	102.3	102.3	101.8	101.8	101.8	101.3	100.8	100.3	99.8
180°	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3	102.3

(END OF REPORT)