

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: P393840

Luminaire Tested: **I3-WL-20L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-20L840-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

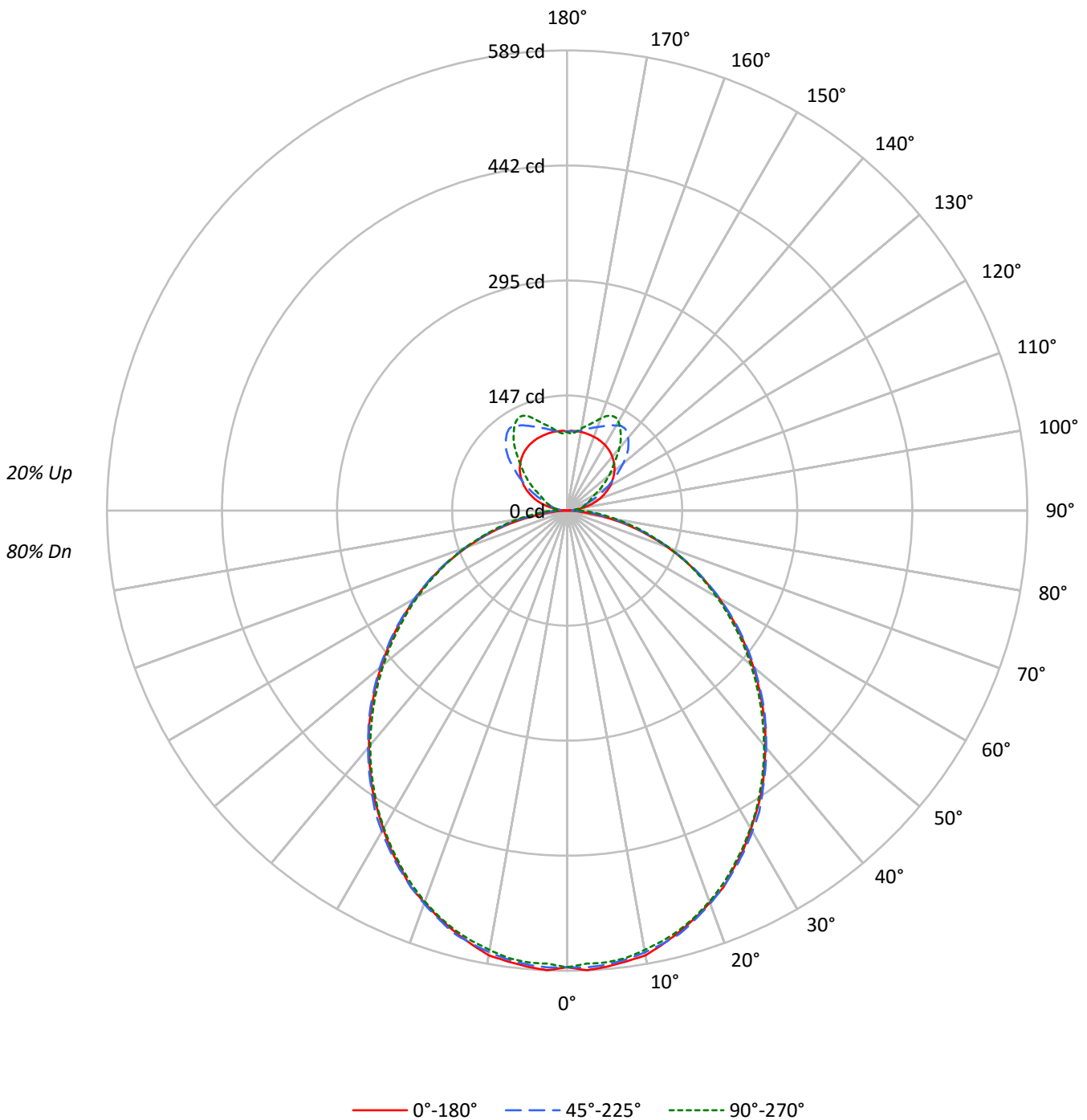
Lumens per Lamp: N/A
Luminaire Lumens: 1936.2 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 14.9
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°	3212	3212	3212
5°	3221	3146	3112
10°	3202	3060	3011
15°	3138	2976	2903
20°	3076	2856	2778
25°	3002	2735	2639
30°	2916	2609	2497
35°	2835	2470	2351
40°	2734	2326	2198
45°	2636	2186	2038
50°	2531	2033	1876
55°	2421	1875	1711
60°	2299	1701	1540
65°	2157	1511	1358
70°	1957	1290	1165
75°	1686	1022	936
80°	1285	736	699
85°	670	440	473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	2.9
10°-20°	156.6	8.1
20°-30°	231.9	12.0
30°-40°	271.0	14.0
40°-50°	272.3	14.1
50°-60°	239.3	12.4
60°-70°	179.3	9.3
70°-80°	102.0	5.3
80°-90°	32.2	1.7
90°-100°	11.6	0.6
100°-110°	28.3	1.5
110°-120°	47.0	2.4
120°-130°	65.9	3.4
130°-140°	76.0	3.9
140°-150°	72.5	3.7
150°-160°	54.6	2.8
160°-170°	30.9	1.6
170°-180°	9.8	0.5
0°-30°	443.7	22.9
0°-40°	714.8	36.9
0°-60°	1226.3	63.3
0°-90°	1539.7	79.5
90°-120°	86.9	4.5
90°-150°	301.2	15.6
90°-180°	396.0	20.5
0°-180°	1936.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	584	584	584	584	584	
5°	586	580	583	582	580	56
15°	558	553	560	556	556	157
25°	505	503	507	505	503	233
35°	435	432	437	433	432	272
45°	354	353	356	352	350	273
55°	268	269	270	266	264	240
65°	181	182	182	181	179	179
75°	92	93	96	99	99	97
85°	16	21	28	35	36	21
90°	0	3	9	13	15	1
95°	8	8	8	9	10	9
105°	33	28	21	22	23	35
115°	54	68	42	34	33	54
125°	72	99	75	60	55	64
135°	85	108	110	92	85	66
145°	94	107	129	123	120	59
155°	99	105	120	132	134	46
165°	101	103	109	113	115	29
175°	102	101	101	101	100	10
180°	101	101	101	101	101	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4
2.5°	588.9	587.9	585.4	582.9	582.5	582.0	582.0	581.5	581.5	582.5	585.4
5°	585.9	585.4	582.9	580.5	580.0	580.0	579.5	579.5	579.5	580.5	583.4
7.5°	582.0	581.0	578.5	576.0	575.5	575.5	575.5	575.0	575.5	576.0	579.5
10°	578.0	577.5	575.0	572.1	571.1	571.1	570.6	569.6	569.6	570.6	574.0
12.5°	568.1	567.6	565.1	563.2	563.2	563.7	563.7	564.2	564.2	565.1	567.6
15°	557.7	557.2	554.8	552.8	552.8	552.8	552.3	552.3	552.8	555.8	560.2
17.5°	546.4	545.9	543.9	541.9	541.9	541.9	541.4	541.4	541.9	543.4	547.8
20°	534.0	533.5	531.5	529.5	529.5	529.5	529.1	529.5	529.5	531.5	535.5
22.5°	522.1	521.1	518.7	516.7	515.7	515.7	515.7	515.2	516.2	517.7	521.6
25°	504.8	504.3	503.3	501.9	502.8	503.3	502.4	501.4	501.4	503.3	506.8
27.5°	489.0	488.0	486.5	485.0	484.1	484.6	485.0	486.0	487.5	488.0	491.0
30°	470.7	470.2	468.7	466.8	467.2	467.7	467.7	467.7	468.7	473.2	474.2
32.5°	452.9	452.4	450.9	449.0	449.4	449.9	449.4	449.9	450.9	452.9	457.4
35°	435.1	434.1	432.6	432.1	431.6	431.6	431.6	432.1	432.6	434.1	436.6
37.5°	414.8	413.8	412.9	411.4	412.4	413.4	413.8	413.4	413.8	415.8	416.8
40°	394.6	394.1	393.1	392.1	392.6	393.1	392.6	394.1	395.1	396.0	396.5
42.5°	375.3	374.3	373.3	372.8	372.8	373.3	373.3	374.3	374.3	376.8	376.3
45°	353.5	353.0	352.5	352.5	353.0	353.0	353.0	353.5	354.0	355.5	356.0
47.5°	332.3	331.8	331.8	331.8	331.8	332.3	332.8	334.2	333.3	333.7	334.2
50°	311.0	310.5	310.5	310.5	311.5	311.5	312.5	313.0	313.5	312.5	313.0
52.5°	289.2	288.8	289.7	289.7	290.7	290.7	292.2	290.7	291.7	291.2	291.2
55°	268.0	267.5	268.5	268.0	269.0	269.0	270.0	270.5	270.0	270.0	270.0
57.5°	246.2	245.7	246.2	246.7	247.2	247.2	248.7	248.7	247.2	248.2	247.7
60°	224.5	224.0	224.5	225.0	225.5	225.5	226.0	225.0	226.0	226.5	226.0
62.5°	202.7	202.2	203.2	202.7	203.2	203.7	203.7	205.2	204.7	204.7	204.2
65°	181.0	180.5	180.5	180.5	181.0	181.5	182.0	182.4	182.4	182.9	182.4
67.5°	158.7	158.2	158.7	158.2	158.7	159.2	160.2	160.7	160.7	161.2	160.7
70°	136.0	136.5	136.0	136.5	137.0	137.5	137.9	138.9	138.9	138.9	138.9
72.5°	113.7	113.2	113.2	112.7	113.7	114.2	114.7	116.2	116.2	116.7	116.7
75°	92.0	91.0	91.5	91.0	93.0	93.4	93.4	94.9	95.4	96.4	95.9
77.5°	70.7	70.7	69.7	71.2	71.7	72.7	73.7	74.7	75.2	76.6	76.6
80°	50.4	50.4	49.9	50.9	52.9	53.4	54.9	55.4	56.9	57.8	58.3
82.5°	32.1	32.1	32.1	33.6	35.1	35.6	37.1	38.6	39.6	41.0	41.5
85°	15.8	16.8	16.8	18.8	19.8	20.8	21.3	23.2	24.7	26.7	28.2
87.5°	4.9	5.4	5.9	6.9	8.9	9.4	10.4	12.4	13.8	15.8	17.3
90°	0.5	0.5	1.0	1.5	2.5	3.0	4.0	4.9	6.4	7.9	8.9
92.5°	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.4	4.9	5.9	6.4
95°	8.4	13.3	7.9	7.4	8.4	8.4	8.9	8.4	8.4	8.4	8.4
97.5°	13.8	24.7	16.3	11.4	10.9	11.4	11.4	12.4	12.9	13.3	13.3
100°	20.3	31.1	28.7	18.8	15.3	14.8	14.8	14.8	15.3	15.8	16.3
102.5°	26.7	35.6	41.0	29.2	21.8	19.8	18.8	18.3	17.8	18.3	18.3
105°	33.1	40.0	50.4	39.6	31.1	28.2	25.2	21.8	21.3	21.3	21.3
107.5°	39.1	44.5	57.4	51.4	40.5	37.6	34.1	28.7	25.2	24.7	24.2
110°	44.5	48.9	62.3	61.3	50.9	46.5	43.5	37.6	32.6	29.2	27.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	49.4	53.4	65.8	69.7	62.3	56.9	52.4	46.5	41.0	36.6	33.1
115°	54.4	57.8	68.7	76.6	72.2	67.7	62.8	55.4	49.9	45.5	41.5
117.5°	59.3	62.3	71.7	81.6	80.6	77.6	73.7	64.8	58.3	53.9	49.4
120°	63.8	66.7	74.7	85.0	88.0	85.5	83.1	75.2	67.2	62.3	58.3
122.5°	67.7	70.2	77.6	88.0	93.4	93.0	90.5	85.0	77.1	71.2	66.3
125°	71.7	74.2	80.6	90.0	97.4	98.9	97.9	93.4	87.5	80.6	74.7
127.5°	75.6	77.6	83.6	92.0	100.4	103.3	103.8	100.9	96.4	90.5	84.1
130°	79.1	81.1	86.0	93.4	102.3	105.8	107.8	107.3	103.8	99.9	93.4
132.5°	82.1	83.6	88.5	94.9	103.3	107.3	110.3	112.7	110.3	107.3	102.8
135°	85.0	86.5	90.5	96.4	103.8	107.8	111.7	115.7	116.2	113.7	110.3
137.5°	87.5	88.5	92.5	97.4	103.8	107.8	111.7	117.2	120.1	119.2	116.2
140°	90.0	91.0	93.9	98.9	104.3	107.8	111.2	117.7	121.6	123.1	121.6
142.5°	92.0	93.0	95.4	99.9	104.3	107.3	110.8	116.7	122.1	125.1	126.1
145°	93.9	94.4	96.9	100.4	104.3	106.8	109.8	115.7	121.1	125.6	128.6
147.5°	95.4	95.9	97.4	100.9	104.3	106.3	108.8	113.7	119.2	124.1	128.6
150°	96.9	96.9	98.4	100.9	104.3	105.8	107.8	112.2	116.7	121.6	125.6
152.5°	97.9	97.9	99.4	101.4	103.8	105.3	107.3	110.8	114.7	119.2	123.1
155°	98.9	98.9	99.9	101.4	103.8	104.8	106.3	109.3	112.7	116.2	119.7
157.5°	99.9	99.9	100.4	101.9	103.3	104.3	105.8	108.3	110.8	113.7	116.7
160°	100.4	100.4	100.9	101.9	102.8	103.8	104.8	106.8	109.3	111.2	113.7
162.5°	100.9	100.9	101.4	101.9	102.8	103.3	103.8	105.8	107.3	109.3	111.2
165°	101.4	101.4	101.4	101.9	102.3	102.8	103.3	104.3	105.8	107.3	108.8
167.5°	101.9	101.9	101.9	101.9	102.3	102.3	102.8	103.3	104.3	105.3	106.3
170°	102.3	101.9	101.9	102.3	101.9	101.9	102.3	102.8	102.8	103.8	104.3
172.5°	102.3	102.3	101.9	101.9	101.9	101.9	101.9	101.9	101.9	102.3	102.8
175°	102.3	102.3	101.9	101.9	101.9	101.4	101.4	101.4	101.4	101.4	101.4
177.5°	102.3	102.3	101.9	101.9	101.4	101.4	101.4	101.4	101.4	101.4	101.4
180°	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4
2.5°	588.4	585.9	584.9	584.4	583.9	583.4	582.5	581.5	580.5	580.5
5°	585.9	583.4	582.5	582.0	581.5	581.0	580.5	580.5	580.5	580.5
7.5°	582.0	579.5	578.5	578.0	578.0	577.5	577.5	577.5	577.0	577.5
10°	576.0	573.6	573.1	572.6	572.1	571.1	571.1	571.1	570.6	571.1
12.5°	568.6	566.1	565.6	565.1	564.7	564.2	564.2	563.7	563.7	564.2
15°	561.2	557.7	556.7	556.7	556.2	555.8	556.2	555.8	555.8	555.8
17.5°	550.3	548.8	547.3	546.4	545.9	545.4	545.4	544.9	544.9	544.9
20°	536.0	536.0	536.0	533.5	533.0	532.5	532.5	532.5	532.5	532.5
22.5°	522.1	519.7	521.6	520.2	519.2	518.2	518.7	518.7	518.7	518.7
25°	506.8	504.8	505.3	505.8	504.8	503.3	503.3	503.3	503.3	502.8
27.5°	490.5	489.0	488.5	489.0	490.0	489.0	487.5	486.0	486.5	486.5
30°	472.7	472.2	471.7	470.7	471.7	472.2	469.7	469.2	469.2	469.2
32.5°	454.9	454.4	452.9	451.9	452.4	453.4	452.4	451.4	451.4	451.4
35°	437.1	435.1	433.6	433.1	433.1	434.1	433.6	432.1	432.1	432.1
37.5°	416.3	416.8	414.3	413.8	413.8	413.8	414.8	412.4	412.9	412.4
40°	396.0	396.5	395.1	393.6	394.1	393.1	394.6	392.1	392.1	392.1
42.5°	375.8	374.8	375.3	372.3	372.8	372.8	373.3	371.8	371.3	370.8
45°	355.0	354.0	353.5	352.0	352.0	351.5	351.5	349.6	349.6	349.6
47.5°	333.3	332.8	331.8	330.8	330.8	330.3	329.3	328.8	328.3	328.3
50°	312.5	311.0	309.5	310.0	309.5	309.0	308.0	307.5	307.0	306.6
52.5°	290.2	290.2	288.3	288.3	288.3	287.8	286.8	285.8	285.8	285.3
55°	268.5	268.0	266.5	266.0	266.5	266.0	265.0	264.0	264.0	263.5
57.5°	246.7	245.7	245.2	245.2	244.7	244.7	243.3	242.3	242.8	242.3
60°	224.5	224.5	224.0	223.5	223.5	223.0	221.5	221.5	221.5	221.0
62.5°	203.2	203.2	202.2	201.7	202.2	201.7	201.2	200.7	200.2	199.8
65°	181.0	181.5	180.5	181.0	181.0	180.0	180.0	179.5	179.5	179.0
67.5°	160.2	160.2	159.7	159.7	160.2	159.7	159.7	159.2	159.2	158.7
70°	138.9	139.9	139.4	139.4	139.4	138.9	138.9	138.9	138.4	138.9
72.5°	117.7	117.7	117.7	117.7	117.7	118.2	118.2	118.2	118.2	117.7
75°	97.9	98.4	97.9	98.4	98.9	98.9	98.9	98.9	99.4	98.9
77.5°	78.6	79.1	79.1	80.1	80.1	80.1	80.6	80.6	80.6	80.6
80°	60.3	60.8	61.3	62.3	62.3	63.3	63.8	63.8	63.8	63.8
82.5°	43.5	45.0	45.5	47.0	47.5	47.5	48.5	48.9	48.9	48.9
85°	30.2	31.6	32.6	33.6	34.6	34.6	35.6	35.6	36.1	36.1
87.5°	18.8	20.3	21.3	22.7	23.2	23.7	24.2	24.7	25.2	25.2
90°	10.4	11.4	12.4	13.3	13.3	13.8	14.3	14.8	15.3	15.3
92.5°	7.4	7.9	8.9	9.4	9.4	9.9	10.4	10.4	10.9	10.9
95°	8.4	8.9	8.9	9.4	9.4	9.4	9.9	9.9	9.9	9.9
97.5°	12.9	12.9	12.9	12.4	12.4	12.4	12.4	12.4	12.4	12.4
100°	16.8	17.3	17.3	17.3	17.8	17.8	17.8	17.8	17.3	17.3
102.5°	18.8	19.3	19.8	20.3	20.3	20.3	20.8	20.8	20.8	20.8
105°	21.3	21.3	21.8	22.2	22.2	22.2	22.7	22.7	22.7	22.7
107.5°	24.2	24.2	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
110°	27.7	27.7	27.7	27.2	27.7	27.2	27.2	27.2	27.2	27.2



TEST NUMBER: P393840

CATALOG NUMBER: I3-WL-20L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	31.6	31.1	31.1	30.7	30.7	30.7	30.2	30.2	30.2	30.2
115°	38.1	35.6	34.6	33.6	33.6	33.6	33.1	33.1	33.1	33.1
117.5°	46.0	42.5	40.5	38.6	38.1	37.6	36.6	36.6	36.1	36.1
120°	54.4	50.9	48.0	45.5	44.5	44.0	42.5	41.5	40.5	40.5
122.5°	62.3	58.8	55.9	53.4	52.4	51.4	49.9	48.9	48.0	48.0
125°	70.2	66.7	63.8	61.3	59.8	58.8	57.4	56.4	55.4	55.4
127.5°	78.6	74.2	71.2	68.7	67.2	66.7	64.8	63.8	62.8	62.8
130°	88.0	82.6	78.6	75.6	74.7	73.7	72.2	71.2	70.2	70.2
132.5°	97.4	92.0	87.5	83.6	82.1	81.1	79.1	78.1	77.1	77.1
135°	106.3	101.4	96.9	93.0	91.5	90.0	88.0	86.0	85.0	85.0
137.5°	113.2	109.8	105.8	102.3	100.9	99.4	97.4	95.4	93.9	94.4
140°	119.2	116.2	113.7	111.2	109.8	108.8	106.8	105.3	103.8	103.8
142.5°	124.6	122.1	119.7	117.7	117.2	116.7	115.2	113.7	112.7	112.7
145°	129.5	128.1	126.1	123.6	123.1	122.6	121.1	120.1	119.7	119.7
147.5°	131.0	131.5	131.0	129.5	129.0	128.6	127.6	126.6	126.1	126.1
150°	130.0	132.0	133.0	133.0	133.0	133.0	133.0	132.0	131.5	131.5
152.5°	127.1	130.0	132.0	133.5	134.0	134.5	134.5	135.0	134.5	134.5
155°	123.6	126.6	129.5	131.0	132.0	132.5	133.5	134.0	134.5	134.0
157.5°	119.7	122.1	124.1	127.1	128.1	129.0	130.0	131.0	131.5	131.0
160°	116.2	118.2	119.7	121.6	122.1	123.1	124.1	124.6	125.6	125.1
162.5°	112.7	114.2	115.7	116.7	117.7	118.2	119.2	119.7	120.1	119.7
165°	110.3	111.2	111.7	112.7	113.2	113.7	114.2	114.7	114.7	114.7
167.5°	107.3	108.3	108.8	109.3	109.8	110.3	110.3	110.8	110.8	110.8
170°	104.8	105.3	105.8	106.3	106.3	106.8	106.8	106.8	107.3	106.8
172.5°	102.8	102.8	102.8	103.3	103.3	103.3	103.3	103.3	103.3	102.8
175°	101.9	101.9	101.4	101.4	101.4	101.4	101.4	100.9	100.4	99.9
177.5°	101.4	100.9	100.9	100.4	100.4	100.4	99.9	99.4	98.9	98.4
180°	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9

(END OF REPORT)