

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: P393838

Luminaire Tested: **I3-WL-20L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393838
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-20L830-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1826.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

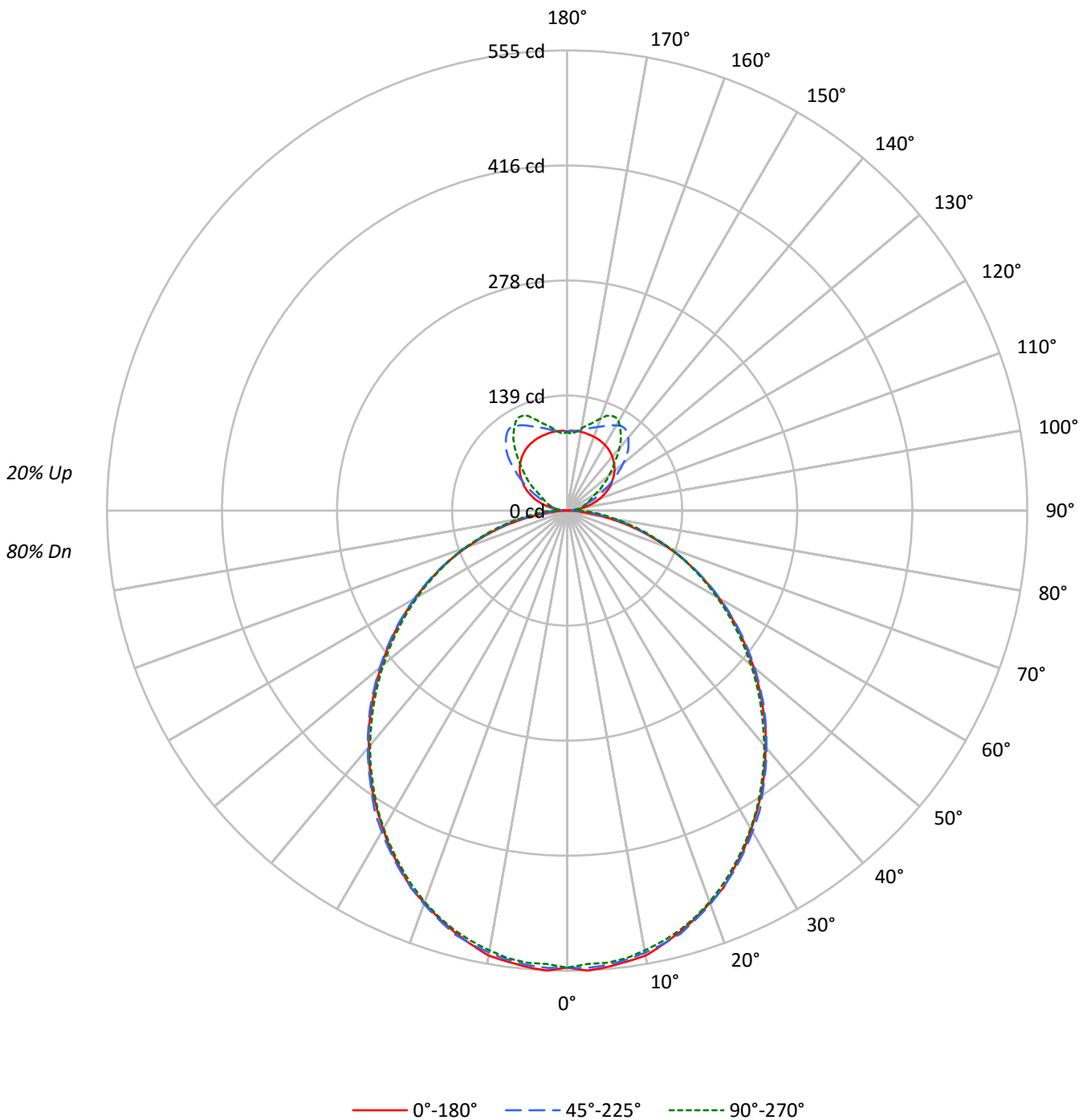
Input Watts (W): 14.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3030	3030	3030
5°	3038	2967	2935
10°	3020	2886	2839
15°	2959	2806	2738
20°	2901	2693	2620
25°	2831	2579	2489
30°	2750	2461	2355
35°	2673	2329	2217
40°	2578	2194	2073
45°	2486	2062	1922
50°	2387	1917	1769
55°	2283	1768	1613
60°	2167	1604	1452
65°	2034	1426	1280
70°	1845	1217	1099
75°	1589	965	883
80°	1214	694	659
85°	632	415	446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	2.9
10°-20°	147.7	8.1
20°-30°	218.7	12.0
30°-40°	255.6	14.0
40°-50°	256.8	14.1
50°-60°	225.7	12.4
60°-70°	169.1	9.3
70°-80°	96.2	5.3
80°-90°	30.4	1.7
90°-100°	11.0	0.6
100°-110°	26.7	1.5
110°-120°	44.3	2.4
120°-130°	62.1	3.4
130°-140°	71.6	3.9
140°-150°	68.4	3.7
150°-160°	51.4	2.8
160°-170°	29.1	1.6
170°-180°	9.2	0.5
0°-30°	418.5	22.9
0°-40°	674.1	36.9
0°-60°	1156.5	63.3
0°-90°	1452.1	79.5
90°-120°	81.9	4.5
90°-150°	284.1	15.6
90°-180°	374.0	20.5
0°-180°	1826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	553	547	550	548	547	52
15°	526	521	528	525	524	148
25°	476	475	478	476	474	219
35°	410	407	412	408	408	256
45°	333	333	336	332	330	257
55°	253	254	255	251	248	226
65°	171	171	172	171	169	169
75°	87	88	90	93	93	92
85°	15	20	27	33	34	19
90°	0	3	8	13	14	1
95°	8	8	8	9	9	9
105°	31	27	20	21	21	33
115°	51	64	39	32	31	51
125°	68	93	70	56	52	60
135°	80	102	104	86	80	62
145°	89	101	121	116	113	55
155°	93	99	113	124	126	43
165°	96	97	103	107	108	27
175°	96	96	96	96	94	9
180°	95	95	95	95	95	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	555.4	554.4	552.1	549.8	549.3	548.8	548.8	548.4	548.4	549.3	552.1
5°	552.6	552.1	549.8	547.4	547.0	547.0	546.5	546.5	546.5	547.4	550.2
7.5°	548.8	547.9	545.6	543.2	542.8	542.8	542.8	542.3	542.8	543.2	546.5
10°	545.1	544.6	542.3	539.5	538.6	538.6	538.1	537.2	537.2	538.1	541.4
12.5°	535.8	535.3	533.0	531.1	531.1	531.6	531.6	532.0	532.0	533.0	535.3
15°	526.0	525.5	523.2	521.3	521.3	521.3	520.9	520.9	521.3	524.1	528.3
17.5°	515.3	514.8	512.9	511.1	511.1	511.1	510.6	510.6	511.1	512.5	516.7
20°	503.6	503.1	501.3	499.4	499.4	499.4	498.9	499.4	499.4	501.3	505.0
22.5°	492.4	491.5	489.1	487.3	486.3	486.3	486.3	485.9	486.8	488.2	491.9
25°	476.1	475.6	474.7	473.3	474.2	474.7	473.8	472.8	472.8	474.7	478.0
27.5°	461.2	460.2	458.8	457.4	456.5	457.0	457.4	458.4	459.8	460.2	463.0
30°	443.9	443.4	442.0	440.2	440.7	441.1	441.1	441.1	442.0	446.2	447.2
32.5°	427.1	426.7	425.3	423.4	423.9	424.3	423.9	424.3	425.3	427.1	431.3
35°	410.3	409.4	408.0	407.5	407.1	407.1	407.1	407.5	408.0	409.4	411.7
37.5°	391.2	390.3	389.4	388.0	388.9	389.8	390.3	389.8	390.3	392.2	393.1
40°	372.1	371.6	370.7	369.8	370.2	370.7	370.2	371.6	372.6	373.5	374.0
42.5°	353.9	353.0	352.1	351.6	351.6	352.1	352.1	353.0	353.0	355.3	354.9
45°	333.4	332.9	332.5	332.5	332.9	332.9	332.9	333.4	333.9	335.3	335.7
47.5°	313.4	312.9	312.9	312.9	312.9	313.4	313.8	315.2	314.3	314.8	315.2
50°	293.3	292.8	292.8	292.8	293.8	293.8	294.7	295.2	295.6	294.7	295.2
52.5°	272.8	272.3	273.3	273.3	274.2	274.2	275.6	274.2	275.1	274.6	274.6
55°	252.7	252.3	253.2	252.7	253.7	253.7	254.6	255.1	254.6	254.6	254.6
57.5°	232.2	231.7	232.2	232.7	233.1	233.1	234.5	234.5	233.1	234.1	233.6
60°	211.7	211.2	211.7	212.2	212.6	212.6	213.1	212.2	213.1	213.6	213.1
62.5°	191.2	190.7	191.6	191.2	191.6	192.1	192.1	193.5	193.0	193.0	192.6
65°	170.7	170.2	170.2	170.2	170.7	171.1	171.6	172.1	172.1	172.5	172.1
67.5°	149.7	149.2	149.7	149.2	149.7	150.1	151.1	151.5	151.5	152.0	151.5
70°	128.2	128.7	128.2	128.7	129.2	129.6	130.1	131.0	131.0	131.0	131.0
72.5°	107.2	106.8	106.8	106.3	107.2	107.7	108.2	109.6	109.6	110.0	110.0
75°	86.7	85.8	86.3	85.8	87.7	88.1	88.1	89.5	90.0	90.9	90.5
77.5°	66.7	66.7	65.7	67.1	67.6	68.5	69.5	70.4	70.9	72.3	72.3
80°	47.6	47.6	47.1	48.0	49.9	50.4	51.8	52.2	53.6	54.6	55.0
82.5°	30.3	30.3	30.3	31.7	33.1	33.6	35.0	36.4	37.3	38.7	39.2
85°	14.9	15.9	15.9	17.7	18.7	19.6	20.1	21.9	23.3	25.2	26.6
87.5°	4.7	5.1	5.6	6.5	8.4	8.9	9.8	11.7	13.1	14.9	16.3
90°	0.5	0.5	0.9	1.4	2.3	2.8	3.7	4.7	6.1	7.5	8.4
92.5°	3.3	3.3	3.7	3.7	3.7	3.7	3.7	4.2	4.7	5.6	6.1
95°	7.9	12.6	7.5	7.0	7.9	7.9	8.4	7.9	7.9	7.9	7.9
97.5°	13.1	23.3	15.4	10.7	10.3	10.7	10.7	11.7	12.1	12.6	12.6
100°	19.1	29.4	27.0	17.7	14.5	14.0	14.0	14.0	14.5	14.9	15.4
102.5°	25.2	33.6	38.7	27.5	20.5	18.7	17.7	17.3	16.8	17.3	17.3
105°	31.2	37.8	47.6	37.3	29.4	26.6	23.8	20.5	20.1	20.1	20.1
107.5°	36.8	42.0	54.1	48.5	38.2	35.4	32.2	27.0	23.8	23.3	22.8
110°	42.0	46.2	58.8	57.8	48.0	43.8	41.0	35.4	30.8	27.5	26.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	46.6	50.4	62.0	65.7	58.8	53.6	49.4	43.8	38.7	34.5	31.2
115°	51.3	54.6	64.8	72.3	68.1	63.9	59.2	52.2	47.1	42.9	39.2
117.5°	56.0	58.8	67.6	76.9	76.0	73.2	69.5	61.1	55.0	50.8	46.6
120°	60.2	63.0	70.4	80.2	83.0	80.7	78.3	70.9	63.4	58.8	55.0
122.5°	63.9	66.2	73.2	83.0	88.1	87.7	85.3	80.2	72.7	67.1	62.5
125°	67.6	69.9	76.0	84.9	91.9	93.3	92.3	88.1	82.5	76.0	70.4
127.5°	71.3	73.2	78.8	86.7	94.7	97.5	97.9	95.1	90.9	85.3	79.3
130°	74.6	76.5	81.1	88.1	96.5	99.8	101.7	101.2	97.9	94.2	88.1
132.5°	77.4	78.8	83.5	89.5	97.5	101.2	104.0	106.3	104.0	101.2	97.0
135°	80.2	81.6	85.3	90.9	97.9	101.7	105.4	109.1	109.6	107.2	104.0
137.5°	82.5	83.5	87.2	91.9	97.9	101.7	105.4	110.5	113.3	112.4	109.6
140°	84.9	85.8	88.6	93.3	98.4	101.7	104.9	111.0	114.7	116.1	114.7
142.5°	86.7	87.7	90.0	94.2	98.4	101.2	104.5	110.0	115.2	118.0	118.9
145°	88.6	89.1	91.4	94.7	98.4	100.7	103.5	109.1	114.2	118.4	121.2
147.5°	90.0	90.5	91.9	95.1	98.4	100.3	102.6	107.2	112.4	117.0	121.2
150°	91.4	91.4	92.8	95.1	98.4	99.8	101.7	105.8	110.0	114.7	118.4
152.5°	92.3	92.3	93.7	95.6	97.9	99.3	101.2	104.5	108.2	112.4	116.1
155°	93.3	93.3	94.2	95.6	97.9	98.9	100.3	103.1	106.3	109.6	112.8
157.5°	94.2	94.2	94.7	96.1	97.5	98.4	99.8	102.1	104.5	107.2	110.0
160°	94.7	94.7	95.1	96.1	97.0	97.9	98.9	100.7	103.1	104.9	107.2
162.5°	95.1	95.1	95.6	96.1	97.0	97.5	97.9	99.8	101.2	103.1	104.9
165°	95.6	95.6	95.6	96.1	96.5	97.0	97.5	98.4	99.8	101.2	102.6
167.5°	96.1	96.1	96.1	96.1	96.5	96.5	97.0	97.5	98.4	99.3	100.3
170°	96.5	96.1	96.1	96.5	96.1	96.1	96.5	97.0	97.0	97.9	98.4
172.5°	96.5	96.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.5	97.0
175°	96.5	96.5	96.1	96.1	96.1	95.6	95.6	95.6	95.6	95.6	95.6
177.5°	96.5	96.5	96.1	96.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6
180°	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2	551.2
2.5°	554.9	552.6	551.6	551.2	550.7	550.2	549.3	548.4	547.4	547.4
5°	552.6	550.2	549.3	548.8	548.4	547.9	547.4	547.4	547.4	547.4
7.5°	548.8	546.5	545.6	545.1	545.1	544.6	544.6	544.6	544.2	544.6
10°	543.2	540.9	540.4	540.0	539.5	538.6	538.6	538.6	538.1	538.6
12.5°	536.2	533.9	533.4	533.0	532.5	532.0	532.0	531.6	531.6	532.0
15°	529.2	526.0	525.1	525.1	524.6	524.1	524.6	524.1	524.1	524.1
17.5°	519.0	517.6	516.2	515.3	514.8	514.3	514.3	513.9	513.9	513.9
20°	505.5	505.5	505.5	503.1	502.7	502.2	502.2	502.2	502.2	502.2
22.5°	492.4	490.1	491.9	490.5	489.6	488.7	489.1	489.1	489.1	489.1
25°	478.0	476.1	476.6	477.0	476.1	474.7	474.7	474.7	474.7	474.2
27.5°	462.6	461.2	460.7	461.2	462.1	461.2	459.8	458.4	458.8	458.8
30°	445.8	445.3	444.8	443.9	444.8	445.3	443.0	442.5	442.5	442.5
32.5°	429.0	428.5	427.1	426.2	426.7	427.6	426.7	425.7	425.7	425.7
35°	412.2	410.3	408.9	408.5	408.5	409.4	408.9	407.5	407.5	407.5
37.5°	392.6	393.1	390.8	390.3	390.3	390.3	391.2	388.9	389.4	388.9
40°	373.5	374.0	372.6	371.2	371.6	370.7	372.1	369.8	369.8	369.8
42.5°	354.4	353.5	353.9	351.1	351.6	351.6	352.1	350.7	350.2	349.7
45°	334.8	333.9	333.4	332.0	332.0	331.5	331.5	329.7	329.7	329.7
47.5°	314.3	313.8	312.9	312.0	312.0	311.5	310.6	310.1	309.6	309.6
50°	294.7	293.3	291.9	292.4	291.9	291.4	290.5	290.0	289.6	289.1
52.5°	273.7	273.7	271.9	271.9	271.9	271.4	270.5	269.5	269.5	269.1
55°	253.2	252.7	251.3	250.9	251.3	250.9	249.9	249.0	249.0	248.5
57.5°	232.7	231.7	231.3	231.3	230.8	230.8	229.4	228.5	229.0	228.5
60°	211.7	211.7	211.2	210.8	210.8	210.3	208.9	208.9	208.9	208.4
62.5°	191.6	191.6	190.7	190.2	190.7	190.2	189.8	189.3	188.9	188.4
65°	170.7	171.1	170.2	170.7	170.7	169.7	169.7	169.3	169.3	168.8
67.5°	151.1	151.1	150.6	150.6	151.1	150.6	150.6	150.1	150.1	149.7
70°	131.0	132.0	131.5	131.5	131.5	131.0	131.0	131.0	130.6	131.0
72.5°	111.0	111.0	111.0	111.0	111.0	111.4	111.4	111.4	111.4	111.0
75°	92.3	92.8	92.3	92.8	93.3	93.3	93.3	93.3	93.7	93.3
77.5°	74.1	74.6	74.6	75.5	75.5	75.5	76.0	76.0	76.0	76.0
80°	56.9	57.4	57.8	58.8	58.8	59.7	60.2	60.2	60.2	60.2
82.5°	41.0	42.4	42.9	44.3	44.8	44.8	45.7	46.2	46.2	46.2
85°	28.4	29.8	30.8	31.7	32.6	32.6	33.6	33.6	34.0	34.0
87.5°	17.7	19.1	20.1	21.4	21.9	22.4	22.8	23.3	23.8	23.8
90°	9.8	10.7	11.7	12.6	12.6	13.1	13.5	14.0	14.5	14.5
92.5°	7.0	7.5	8.4	8.9	8.9	9.3	9.8	9.8	10.3	10.3
95°	7.9	8.4	8.4	8.9	8.9	8.9	9.3	9.3	9.3	9.3
97.5°	12.1	12.1	12.1	11.7	11.7	11.7	11.7	11.7	11.7	11.7
100°	15.9	16.3	16.3	16.3	16.8	16.8	16.8	16.8	16.3	16.3
102.5°	17.7	18.2	18.7	19.1	19.1	19.1	19.6	19.6	19.6	19.6
105°	20.1	20.1	20.5	21.0	21.0	21.0	21.4	21.4	21.4	21.4
107.5°	22.8	22.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
110°	26.1	26.1	26.1	25.6	26.1	25.6	25.6	25.6	25.6	25.6



TEST NUMBER: P393838

CATALOG NUMBER: I3-WL-20L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	29.8	29.4	29.4	28.9	28.9	28.9	28.4	28.4	28.4	28.4
115°	35.9	33.6	32.6	31.7	31.7	31.7	31.2	31.2	31.2	31.2
117.5°	43.4	40.1	38.2	36.4	35.9	35.4	34.5	34.5	34.0	34.0
120°	51.3	48.0	45.2	42.9	42.0	41.5	40.1	39.2	38.2	38.2
122.5°	58.8	55.5	52.7	50.4	49.4	48.5	47.1	46.2	45.2	45.2
125°	66.2	63.0	60.2	57.8	56.4	55.5	54.1	53.2	52.2	52.2
127.5°	74.1	69.9	67.1	64.8	63.4	63.0	61.1	60.2	59.2	59.2
130°	83.0	77.9	74.1	71.3	70.4	69.5	68.1	67.1	66.2	66.2
132.5°	91.9	86.7	82.5	78.8	77.4	76.5	74.6	73.7	72.7	72.7
135°	100.3	95.6	91.4	87.7	86.3	84.9	83.0	81.1	80.2	80.2
137.5°	106.8	103.5	99.8	96.5	95.1	93.7	91.9	90.0	88.6	89.1
140°	112.4	109.6	107.2	104.9	103.5	102.6	100.7	99.3	97.9	97.9
142.5°	117.5	115.2	112.8	111.0	110.5	110.0	108.6	107.2	106.3	106.3
145°	122.2	120.8	118.9	116.6	116.1	115.6	114.2	113.3	112.8	112.8
147.5°	123.6	124.0	123.6	122.2	121.7	121.2	120.3	119.4	118.9	118.9
150°	122.6	124.5	125.4	125.4	125.4	125.4	125.4	124.5	124.0	124.0
152.5°	119.8	122.6	124.5	125.9	126.4	126.8	126.8	127.3	126.8	126.8
155°	116.6	119.4	122.2	123.6	124.5	125.0	125.9	126.4	126.8	126.4
157.5°	112.8	115.2	117.0	119.8	120.8	121.7	122.6	123.6	124.0	123.6
160°	109.6	111.4	112.8	114.7	115.2	116.1	117.0	117.5	118.4	118.0
162.5°	106.3	107.7	109.1	110.0	111.0	111.4	112.4	112.8	113.3	112.8
165°	104.0	104.9	105.4	106.3	106.8	107.2	107.7	108.2	108.2	108.2
167.5°	101.2	102.1	102.6	103.1	103.5	104.0	104.0	104.5	104.5	104.5
170°	98.9	99.3	99.8	100.3	100.3	100.7	100.7	100.7	101.2	100.7
172.5°	97.0	97.0	97.0	97.5	97.5	97.5	97.5	97.5	97.5	97.0
175°	96.1	96.1	95.6	95.6	95.6	95.6	95.6	95.1	94.7	94.2
177.5°	95.6	95.1	95.1	94.7	94.7	94.7	94.2	93.7	93.3	92.8
180°	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1

(END OF REPORT)