

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: P395806

Luminaire Tested: **I3-WL-20L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395806  
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-20L82765-1D-UNV-W2A-W-4 (4500K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1994.8 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

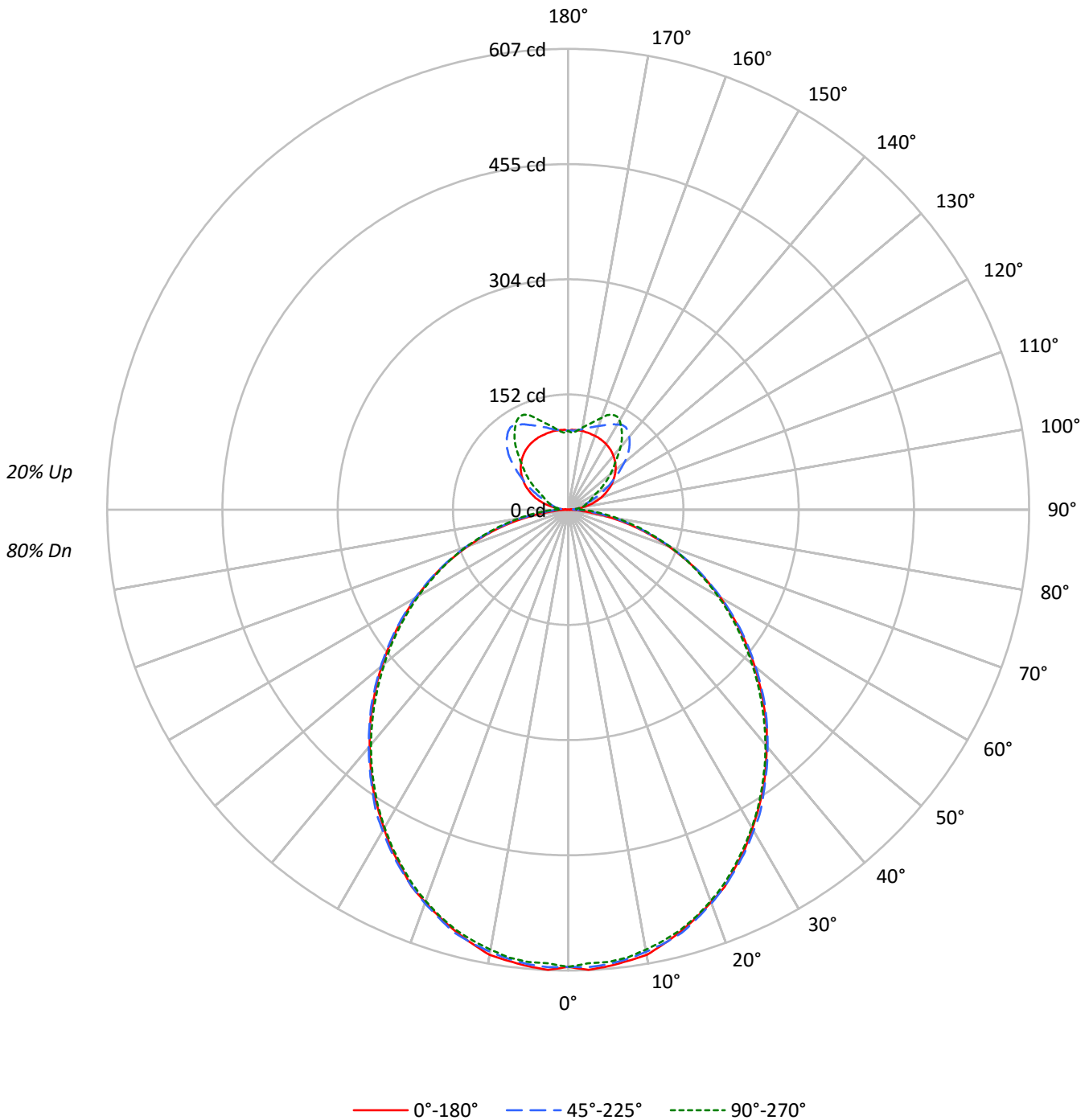
Input Watts (W): 17.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3309	3309	3309
5°	3319	3241	3206
10°	3299	3153	3102
15°	3233	3066	2991
20°	3169	2942	2862
25°	3093	2818	2719
30°	3004	2688	2573
35°	2921	2545	2422
40°	2816	2397	2265
45°	2715	2253	2100
50°	2608	2094	1933
55°	2494	1932	1763
60°	2368	1752	1587
65°	2222	1557	1399
70°	2016	1329	1200
75°	1737	1053	964
80°	1326	759	719
85°	692	453	488



TEST NUMBER: P395806

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	2.9
10°-20°	161.4	8.1
20°-30°	238.9	12.0
30°-40°	279.2	14.0
40°-50°	280.5	14.1
50°-60°	246.5	12.4
60°-70°	184.7	9.3
70°-80°	105.0	5.3
80°-90°	33.2	1.7
90°-100°	12.0	0.6
100°-110°	29.1	1.5
110°-120°	48.4	2.4
120°-130°	67.9	3.4
130°-140°	78.3	3.9
140°-150°	74.7	3.7
150°-160°	56.2	2.8
160°-170°	31.8	1.6
170°-180°	10.1	0.5
0°-30°	457.2	22.9
0°-40°	736.4	36.9
0°-60°	1263.4	63.3
0°-90°	1586.4	79.5
90°-120°	89.5	4.5
90°-150°	310.4	15.6
90°-180°	408.0	20.5
0°-180°	1994.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	604	598	601	599	598	57
15°	575	570	577	573	573	162
25°	520	519	522	520	518	240
35°	448	445	450	446	445	280
45°	364	364	367	363	360	281
55°	276	277	278	275	272	247
65°	186	187	188	186	184	184
75°	95	96	99	102	102	100
85°	16	21	29	36	37	21
90°	0	3	9	14	16	1
95°	9	9	9	10	10	10
105°	34	29	22	23	23	36
115°	56	70	43	35	34	55
125°	74	102	77	62	57	66
135°	88	111	114	94	88	68
145°	97	110	132	127	123	61
155°	102	108	123	136	138	47
165°	104	106	112	117	118	30
175°	105	104	104	104	103	10
180°	104	104	104	104	104	



TEST NUMBER: P395806

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1
2.5°	606.7	605.7	603.1	600.6	600.1	599.6	599.6	599.1	599.1	600.1	603.1
5°	603.7	603.1	600.6	598.1	597.5	597.5	597.0	597.0	597.0	598.1	601.1
7.5°	599.6	598.6	596.0	593.5	593.0	593.0	593.0	592.5	593.0	593.5	597.0
10°	595.5	595.0	592.5	589.4	588.4	588.4	587.9	586.8	586.8	587.9	591.4
12.5°	585.3	584.8	582.3	580.2	580.2	580.7	580.7	581.2	581.2	582.3	584.8
15°	574.6	574.1	571.6	569.5	569.5	569.5	569.0	569.0	569.5	572.6	577.2
17.5°	562.9	562.4	560.4	558.3	558.3	558.3	557.8	557.8	558.3	559.8	564.4
20°	550.2	549.7	547.6	545.6	545.6	545.6	545.1	545.6	545.6	547.6	551.7
22.5°	537.9	536.9	534.4	532.3	531.3	531.3	531.3	530.8	531.8	533.4	537.4
25°	520.1	519.6	518.6	517.1	518.1	518.6	517.6	516.5	516.5	518.6	522.2
27.5°	503.8	502.8	501.3	499.7	498.7	499.2	499.7	500.8	502.3	502.8	505.9
30°	485.0	484.5	482.9	480.9	481.4	481.9	481.9	481.9	482.9	487.5	488.5
32.5°	466.6	466.1	464.6	462.6	463.1	463.6	463.1	463.6	464.6	466.6	471.2
35°	448.3	447.3	445.7	445.2	444.7	444.7	444.7	445.2	445.7	447.3	449.8
37.5°	427.4	426.4	425.4	423.8	424.9	425.9	426.4	425.9	426.4	428.4	429.4
40°	406.5	406.0	405.0	404.0	404.5	405.0	404.5	406.0	407.0	408.0	408.6
42.5°	386.6	385.6	384.6	384.1	384.1	384.6	384.6	385.6	385.6	388.2	387.7
45°	364.2	363.7	363.2	363.2	363.7	363.7	363.7	364.2	364.7	366.3	366.8
47.5°	342.3	341.8	341.8	341.8	341.8	342.3	342.8	344.4	343.3	343.9	344.4
50°	320.4	319.9	319.9	319.9	320.9	320.9	322.0	322.5	323.0	322.0	322.5
52.5°	298.0	297.5	298.5	298.5	299.5	299.5	301.1	299.5	300.6	300.0	300.0
55°	276.1	275.6	276.6	276.1	277.1	277.1	278.1	278.7	278.1	278.1	278.1
57.5°	253.7	253.2	253.7	254.2	254.7	254.7	256.2	256.2	254.7	255.7	255.2
60°	231.3	230.8	231.3	231.8	232.3	232.3	232.8	231.8	232.8	233.3	232.8
62.5°	208.9	208.4	209.4	208.9	209.4	209.9	209.9	211.4	210.9	210.9	210.4
65°	186.4	185.9	185.9	185.9	186.4	187.0	187.5	188.0	188.0	188.5	188.0
67.5°	163.5	163.0	163.5	163.0	163.5	164.0	165.1	165.6	165.6	166.1	165.6
70°	140.1	140.6	140.1	140.6	141.1	141.6	142.1	143.1	143.1	143.1	143.1
72.5°	117.2	116.7	116.7	116.1	117.2	117.7	118.2	119.7	119.7	120.2	120.2
75°	94.8	93.7	94.2	93.7	95.8	96.3	96.3	97.8	98.3	99.3	98.8
77.5°	72.8	72.8	71.8	73.4	73.9	74.9	75.9	76.9	77.4	79.0	79.0
80°	52.0	52.0	51.5	52.5	54.5	55.0	56.5	57.1	58.6	59.6	60.1
82.5°	33.1	33.1	33.1	34.6	36.2	36.7	38.2	39.7	40.8	42.3	42.8
85°	16.3	17.3	17.3	19.4	20.4	21.4	21.9	23.9	25.5	27.5	29.0
87.5°	5.1	5.6	6.1	7.1	9.2	9.7	10.7	12.7	14.3	16.3	17.8
90°	0.5	0.5	1.0	1.5	2.5	3.1	4.1	5.1	6.6	8.2	9.2
92.5°	3.6	3.6	4.1	4.1	4.1	4.1	4.1	4.6	5.1	6.1	6.6
95°	8.7	13.8	8.2	7.6	8.7	8.7	9.2	8.7	8.7	8.7	8.7
97.5°	14.3	25.5	16.8	11.7	11.2	11.7	11.7	12.7	13.2	13.8	13.8
100°	20.9	32.1	29.5	19.4	15.8	15.3	15.3	15.3	15.8	16.3	16.8
102.5°	27.5	36.7	42.3	30.1	22.4	20.4	19.4	18.8	18.3	18.8	18.8
105°	34.1	41.3	52.0	40.8	32.1	29.0	26.0	22.4	21.9	21.9	21.9
107.5°	40.2	45.8	59.1	53.0	41.8	38.7	35.1	29.5	26.0	25.5	25.0
110°	45.8	50.4	64.2	63.2	52.5	47.9	44.8	38.7	33.6	30.1	28.5



TEST NUMBER: P395806

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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	50.9	55.0	67.8	71.8	64.2	58.6	54.0	47.9	42.3	37.7	34.1
115°	56.0	59.6	70.8	79.0	74.4	69.8	64.7	57.1	51.5	46.9	42.8
117.5°	61.1	64.2	73.9	84.1	83.0	80.0	75.9	66.7	60.1	55.5	50.9
120°	65.7	68.8	76.9	87.6	90.7	88.1	85.6	77.4	69.3	64.2	60.1
122.5°	69.8	72.3	80.0	90.7	96.3	95.8	93.2	87.6	79.5	73.4	68.3
125°	73.9	76.4	83.0	92.7	100.4	101.9	100.9	96.3	90.2	83.0	76.9
127.5°	77.9	80.0	86.1	94.8	103.4	106.5	107.0	103.9	99.3	93.2	86.6
130°	81.5	83.5	88.6	96.3	105.4	109.0	111.1	110.5	107.0	102.9	96.3
132.5°	84.6	86.1	91.2	97.8	106.5	110.5	113.6	116.1	113.6	110.5	106.0
135°	87.6	89.1	93.2	99.3	107.0	111.1	115.1	119.2	119.7	117.2	113.6
137.5°	90.2	91.2	95.3	100.4	107.0	111.1	115.1	120.7	123.8	122.8	119.7
140°	92.7	93.7	96.8	101.9	107.5	111.1	114.6	121.2	125.3	126.8	125.3
142.5°	94.8	95.8	98.3	102.9	107.5	110.5	114.1	120.2	125.8	128.9	129.9
145°	96.8	97.3	99.8	103.4	107.5	110.0	113.1	119.2	124.8	129.4	132.4
147.5°	98.3	98.8	100.4	103.9	107.5	109.5	112.1	117.2	122.8	127.9	132.4
150°	99.8	99.8	101.4	103.9	107.5	109.0	111.1	115.6	120.2	125.3	129.4
152.5°	100.9	100.9	102.4	104.4	107.0	108.5	110.5	114.1	118.2	122.8	126.8
155°	101.9	101.9	102.9	104.4	107.0	108.0	109.5	112.6	116.1	119.7	123.3
157.5°	102.9	102.9	103.4	104.9	106.5	107.5	109.0	111.6	114.1	117.2	120.2
160°	103.4	103.4	103.9	104.9	106.0	107.0	108.0	110.0	112.6	114.6	117.2
162.5°	103.9	103.9	104.4	104.9	106.0	106.5	107.0	109.0	110.5	112.6	114.6
165°	104.4	104.4	104.4	104.9	105.4	106.0	106.5	107.5	109.0	110.5	112.1
167.5°	104.9	104.9	104.9	104.9	105.4	105.4	106.0	106.5	107.5	108.5	109.5
170°	105.4	104.9	104.9	105.4	104.9	104.9	105.4	106.0	106.0	107.0	107.5
172.5°	105.4	105.4	104.9	104.9	104.9	104.9	104.9	104.9	104.9	105.4	106.0
175°	105.4	105.4	104.9	104.9	104.9	104.4	104.4	104.4	104.4	104.4	104.4
177.5°	105.4	105.4	104.9	104.9	104.4	104.4	104.4	104.4	104.4	104.4	104.4
180°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9



TEST NUMBER: P395806

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1	602.1
2.5°	606.2	603.7	602.6	602.1	601.6	601.1	600.1	599.1	598.1	598.1
5°	603.7	601.1	600.1	599.6	599.1	598.6	598.1	598.1	598.1	598.1
7.5°	599.6	597.0	596.0	595.5	595.5	595.0	595.0	595.0	594.5	595.0
10°	593.5	590.9	590.4	589.9	589.4	588.4	588.4	588.4	587.9	588.4
12.5°	585.8	583.3	582.8	582.3	581.8	581.2	581.2	580.7	580.7	581.2
15°	578.2	574.6	573.6	573.6	573.1	572.6	573.1	572.6	572.6	572.6
17.5°	567.0	565.5	563.9	562.9	562.4	561.9	561.9	561.4	561.4	561.4
20°	552.2	552.2	552.2	549.7	549.2	548.6	548.6	548.6	548.6	548.6
22.5°	537.9	535.4	537.4	535.9	534.9	533.9	534.4	534.4	534.4	534.4
25°	522.2	520.1	520.6	521.1	520.1	518.6	518.6	518.6	518.6	518.1
27.5°	505.3	503.8	503.3	503.8	504.8	503.8	502.3	500.8	501.3	501.3
30°	487.0	486.5	486.0	485.0	486.0	486.5	483.9	483.4	483.4	483.4
32.5°	468.7	468.2	466.6	465.6	466.1	467.1	466.1	465.1	465.1	465.1
35°	450.3	448.3	446.8	446.2	446.2	447.3	446.8	445.2	445.2	445.2
37.5°	428.9	429.4	426.9	426.4	426.4	426.4	427.4	424.9	425.4	424.9
40°	408.0	408.6	407.0	405.5	406.0	405.0	406.5	404.0	404.0	404.0
42.5°	387.2	386.1	386.6	383.6	384.1	384.1	384.6	383.1	382.6	382.1
45°	365.8	364.7	364.2	362.7	362.7	362.2	362.2	360.2	360.2	360.2
47.5°	343.3	342.8	341.8	340.8	340.8	340.3	339.3	338.8	338.3	338.3
50°	322.0	320.4	318.9	319.4	318.9	318.4	317.4	316.9	316.3	315.8
52.5°	299.0	299.0	297.0	297.0	297.0	296.5	295.5	294.4	294.4	293.9
55°	276.6	276.1	274.6	274.1	274.6	274.1	273.0	272.0	272.0	271.5
57.5°	254.2	253.2	252.7	252.7	252.2	252.2	250.6	249.6	250.1	249.6
60°	231.3	231.3	230.8	230.3	230.3	229.7	228.2	228.2	228.2	227.7
62.5°	209.4	209.4	208.4	207.8	208.4	207.8	207.3	206.8	206.3	205.8
65°	186.4	187.0	185.9	186.4	186.4	185.4	185.4	184.9	184.9	184.4
67.5°	165.1	165.1	164.5	164.5	165.1	164.5	164.5	164.0	164.0	163.5
70°	143.1	144.2	143.7	143.7	143.7	143.1	143.1	143.1	142.6	143.1
72.5°	121.2	121.2	121.2	121.2	121.2	121.8	121.8	121.8	121.8	121.2
75°	100.9	101.4	100.9	101.4	101.9	101.9	101.9	101.9	102.4	101.9
77.5°	81.0	81.5	81.5	82.5	82.5	82.5	83.0	83.0	83.0	83.0
80°	62.1	62.7	63.2	64.2	64.2	65.2	65.7	65.7	65.7	65.7
82.5°	44.8	46.4	46.9	48.4	48.9	48.9	49.9	50.4	50.4	50.4
85°	31.1	32.6	33.6	34.6	35.7	35.7	36.7	36.7	37.2	37.2
87.5°	19.4	20.9	21.9	23.4	23.9	24.5	25.0	25.5	26.0	26.0
90°	10.7	11.7	12.7	13.8	13.8	14.3	14.8	15.3	15.8	15.8
92.5°	7.6	8.2	9.2	9.7	9.7	10.2	10.7	10.7	11.2	11.2
95°	8.7	9.2	9.2	9.7	9.7	9.7	10.2	10.2	10.2	10.2
97.5°	13.2	13.2	13.2	12.7	12.7	12.7	12.7	12.7	12.7	12.7
100°	17.3	17.8	17.8	17.8	18.3	18.3	18.3	18.3	17.8	17.8
102.5°	19.4	19.9	20.4	20.9	20.9	20.9	21.4	21.4	21.4	21.4
105°	21.9	21.9	22.4	22.9	22.9	22.9	23.4	23.4	23.4	23.4
107.5°	25.0	25.0	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
110°	28.5	28.5	28.5	28.0	28.5	28.0	28.0	28.0	28.0	28.0





TEST NUMBER: P395806

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	32.6	32.1	32.1	31.6	31.6	31.6	31.1	31.1	31.1	31.1
115°	39.2	36.7	35.7	34.6	34.6	34.6	34.1	34.1	34.1	34.1
117.5°	47.4	43.8	41.8	39.7	39.2	38.7	37.7	37.7	37.2	37.2
120°	56.0	52.5	49.4	46.9	45.8	45.3	43.8	42.8	41.8	41.8
122.5°	64.2	60.6	57.6	55.0	54.0	53.0	51.5	50.4	49.4	49.4
125°	72.3	68.8	65.7	63.2	61.6	60.6	59.1	58.1	57.1	57.1
127.5°	81.0	76.4	73.4	70.8	69.3	68.8	66.7	65.7	64.7	64.7
130°	90.7	85.1	81.0	77.9	76.9	75.9	74.4	73.4	72.3	72.3
132.5°	100.4	94.8	90.2	86.1	84.6	83.5	81.5	80.5	79.5	79.5
135°	109.5	104.4	99.8	95.8	94.2	92.7	90.7	88.6	87.6	87.6
137.5°	116.7	113.1	109.0	105.4	103.9	102.4	100.4	98.3	96.8	97.3
140°	122.8	119.7	117.2	114.6	113.1	112.1	110.0	108.5	107.0	107.0
142.5°	128.4	125.8	123.3	121.2	120.7	120.2	118.7	117.2	116.1	116.1
145°	133.5	131.9	129.9	127.4	126.8	126.3	124.8	123.8	123.3	123.3
147.5°	135.0	135.5	135.0	133.5	133.0	132.4	131.4	130.4	129.9	129.9
150°	134.0	136.0	137.0	137.0	137.0	137.0	137.0	136.0	135.5	135.5
152.5°	130.9	134.0	136.0	137.5	138.1	138.6	138.6	139.1	138.6	138.6
155°	127.4	130.4	133.5	135.0	136.0	136.5	137.5	138.1	138.6	138.1
157.5°	123.3	125.8	127.9	130.9	131.9	133.0	134.0	135.0	135.5	135.0
160°	119.7	121.8	123.3	125.3	125.8	126.8	127.9	128.4	129.4	128.9
162.5°	116.1	117.7	119.2	120.2	121.2	121.8	122.8	123.3	123.8	123.3
165°	113.6	114.6	115.1	116.1	116.7	117.2	117.7	118.2	118.2	118.2
167.5°	110.5	111.6	112.1	112.6	113.1	113.6	113.6	114.1	114.1	114.1
170°	108.0	108.5	109.0	109.5	109.5	110.0	110.0	110.0	110.5	110.0
172.5°	106.0	106.0	106.0	106.5	106.5	106.5	106.5	106.5	106.5	106.0
175°	104.9	104.9	104.4	104.4	104.4	104.4	104.4	103.9	103.4	102.9
177.5°	104.4	103.9	103.9	103.4	103.4	103.4	102.9	102.4	101.9	101.4
180°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9

(END OF REPORT)