

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: P395827

Luminaire Tested: **I3-WL-20L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395827  
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 (5000K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1833.8 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

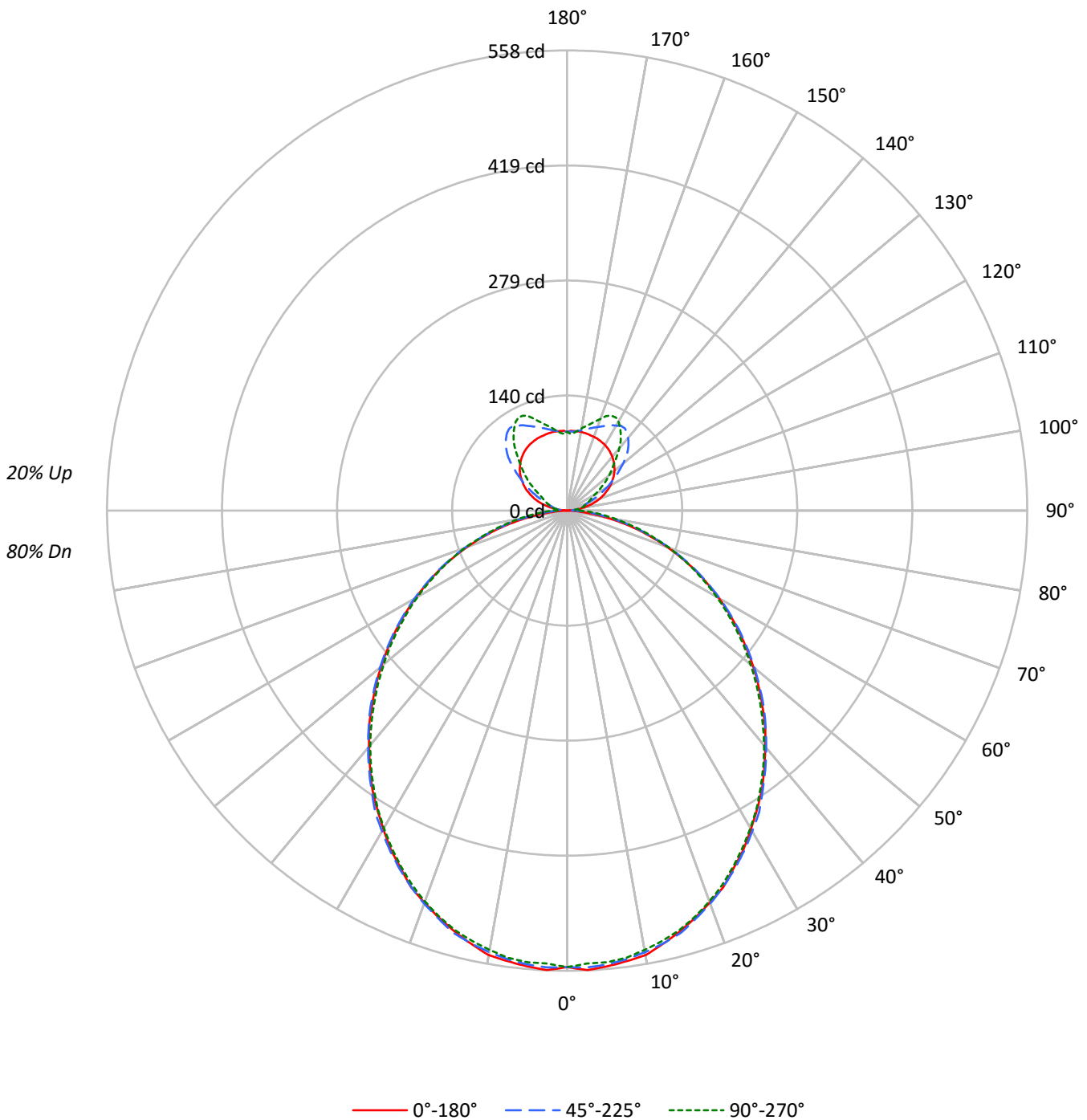
Input Watts (W): 17.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3042	3042	3042
5°	3050	2980	2948
10°	3032	2899	2851
15°	2972	2819	2750
20°	2913	2705	2631
25°	2843	2590	2500
30°	2762	2471	2365
35°	2685	2339	2227
40°	2589	2204	2082
45°	2496	2071	1930
50°	2398	1925	1777
55°	2293	1776	1620
60°	2177	1611	1459
65°	2043	1431	1286
70°	1853	1222	1104
75°	1596	969	887
80°	1219	698	661
85°	636	417	448



TEST NUMBER: P395827

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	2.9
10°-20°	148.3	8.1
20°-30°	219.6	12.0
30°-40°	256.7	14.0
40°-50°	257.9	14.1
50°-60°	226.6	12.4
60°-70°	169.8	9.3
70°-80°	96.6	5.3
80°-90°	30.5	1.7
90°-100°	11.0	0.6
100°-110°	26.8	1.5
110°-120°	44.5	2.4
120°-130°	62.4	3.4
130°-140°	71.9	3.9
140°-150°	68.7	3.7
150°-160°	51.7	2.8
160°-170°	29.2	1.6
170°-180°	9.3	0.5
0°-30°	420.3	22.9
0°-40°	677.0	36.9
0°-60°	1161.5	63.3
0°-90°	1458.3	79.5
90°-120°	82.3	4.5
90°-150°	285.3	15.6
90°-180°	375.0	20.4
0°-180°	1833.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	555	549	553	551	550	53
15°	528	524	531	527	526	149
25°	478	477	480	478	476	220
35°	412	409	414	410	409	257
45°	335	334	337	333	331	258
55°	254	255	256	252	250	227
65°	171	172	173	171	170	169
75°	87	88	91	94	94	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	22	33
115°	52	64	39	32	31	51
125°	68	94	71	57	52	61
135°	80	102	104	87	80	62
145°	89	101	122	117	113	56
155°	94	99	113	125	127	43
165°	96	97	103	107	109	27
175°	97	96	96	96	95	9
180°	96	96	96	96	96	



TEST NUMBER: P395827

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	557.7	556.8	554.5	552.1	551.7	551.2	551.2	550.7	550.7	551.7	554.5
5°	554.9	554.5	552.1	549.8	549.3	549.3	548.9	548.9	548.9	549.8	552.6
7.5°	551.2	550.3	547.9	545.6	545.1	545.1	545.1	544.6	545.1	545.6	548.9
10°	547.4	547.0	544.6	541.8	540.9	540.9	540.4	539.5	539.5	540.4	543.7
12.5°	538.1	537.6	535.3	533.4	533.4	533.9	533.9	534.3	534.3	535.3	537.6
15°	528.2	527.8	525.4	523.6	523.6	523.6	523.1	523.1	523.6	526.4	530.6
17.5°	517.5	517.0	515.1	513.3	513.3	513.3	512.8	512.8	513.3	514.7	518.9
20°	505.8	505.3	503.4	501.6	501.6	501.6	501.1	501.6	501.6	503.4	507.2
22.5°	494.5	493.6	491.2	489.4	488.4	488.4	488.4	488.0	488.9	490.3	494.1
25°	478.1	477.7	476.7	475.3	476.3	476.7	475.8	474.9	474.9	476.7	480.0
27.5°	463.2	462.2	460.8	459.4	458.5	458.9	459.4	460.3	461.7	462.2	465.0
30°	445.8	445.4	444.0	442.1	442.5	443.0	443.0	443.0	444.0	448.2	449.1
32.5°	429.0	428.5	427.1	425.2	425.7	426.2	425.7	426.2	427.1	429.0	433.2
35°	412.1	411.2	409.8	409.3	408.8	408.8	408.8	409.3	409.8	411.2	413.5
37.5°	392.9	392.0	391.0	389.6	390.6	391.5	392.0	391.5	392.0	393.8	394.8
40°	373.7	373.2	372.3	371.4	371.8	372.3	371.8	373.2	374.2	375.1	375.6
42.5°	355.4	354.5	353.6	353.1	353.1	353.6	353.6	354.5	354.5	356.8	356.4
45°	334.8	334.4	333.9	333.9	334.4	334.4	334.4	334.8	335.3	336.7	337.2
47.5°	314.7	314.2	314.2	314.2	314.2	314.7	315.2	316.6	315.6	316.1	316.6
50°	294.6	294.1	294.1	294.1	295.0	295.0	296.0	296.4	296.9	296.0	296.4
52.5°	274.0	273.5	274.4	274.4	275.4	275.4	276.8	275.4	276.3	275.8	275.8
55°	253.8	253.4	254.3	253.8	254.8	254.8	255.7	256.2	255.7	255.7	255.7
57.5°	233.2	232.7	233.2	233.7	234.2	234.2	235.6	235.6	234.2	235.1	234.6
60°	212.6	212.1	212.6	213.1	213.5	213.5	214.0	213.1	214.0	214.5	214.0
62.5°	192.0	191.5	192.5	192.0	192.5	192.9	192.9	194.3	193.9	193.9	193.4
65°	171.4	170.9	170.9	170.9	171.4	171.9	172.3	172.8	172.8	173.3	172.8
67.5°	150.3	149.9	150.3	149.9	150.3	150.8	151.7	152.2	152.2	152.7	152.2
70°	128.8	129.3	128.8	129.3	129.7	130.2	130.7	131.6	131.6	131.6	131.6
72.5°	107.7	107.2	107.2	106.8	107.7	108.2	108.6	110.1	110.1	110.5	110.5
75°	87.1	86.2	86.6	86.2	88.0	88.5	88.5	89.9	90.4	91.3	90.9
77.5°	67.0	67.0	66.0	67.4	67.9	68.8	69.8	70.7	71.2	72.6	72.6
80°	47.8	47.8	47.3	48.2	50.1	50.6	52.0	52.4	53.9	54.8	55.3
82.5°	30.4	30.4	30.4	31.8	33.2	33.7	35.1	36.5	37.5	38.9	39.3
85°	15.0	15.9	15.9	17.8	18.7	19.7	20.1	22.0	23.4	25.3	26.7
87.5°	4.7	5.2	5.6	6.6	8.4	8.9	9.8	11.7	13.1	15.0	16.4
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°	8.0	12.6	7.5	7.0	8.0	8.0	8.4	8.0	8.0	8.0	8.0
97.5°	13.1	23.4	15.5	10.8	10.3	10.8	10.8	11.7	12.2	12.6	12.6
100°	19.2	29.5	27.2	17.8	14.5	14.0	14.0	14.0	14.5	15.0	15.5
102.5°	25.3	33.7	38.9	27.6	20.6	18.7	17.8	17.3	16.9	17.3	17.3
105°	31.4	37.9	47.8	37.5	29.5	26.7	23.9	20.6	20.1	20.1	20.1
107.5°	37.0	42.1	54.3	48.7	38.4	35.6	32.3	27.2	23.9	23.4	22.9
110°	42.1	46.4	59.0	58.1	48.2	44.0	41.2	35.6	30.9	27.6	26.2



TEST NUMBER: P395827

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	46.8	50.6	62.3	66.0	59.0	53.9	49.6	44.0	38.9	34.7	31.4
115°	51.5	54.8	65.1	72.6	68.4	64.2	59.5	52.4	47.3	43.1	39.3
117.5°	56.2	59.0	67.9	77.3	76.3	73.5	69.8	61.3	55.3	51.0	46.8
120°	60.4	63.2	70.7	80.5	83.4	81.0	78.7	71.2	63.7	59.0	55.3
122.5°	64.2	66.5	73.5	83.4	88.5	88.0	85.7	80.5	73.1	67.4	62.8
125°	67.9	70.2	76.3	85.2	92.3	93.7	92.7	88.5	82.9	76.3	70.7
127.5°	71.7	73.5	79.1	87.1	95.1	97.9	98.3	95.5	91.3	85.7	79.6
130°	74.9	76.8	81.5	88.5	96.9	100.2	102.1	101.6	98.3	94.6	88.5
132.5°	77.7	79.1	83.8	89.9	97.9	101.6	104.4	106.8	104.4	101.6	97.4
135°	80.5	82.0	85.7	91.3	98.3	102.1	105.8	109.6	110.1	107.7	104.4
137.5°	82.9	83.8	87.6	92.3	98.3	102.1	105.8	111.0	113.8	112.9	110.1
140°	85.2	86.2	89.0	93.7	98.8	102.1	105.4	111.5	115.2	116.6	115.2
142.5°	87.1	88.0	90.4	94.6	98.8	101.6	104.9	110.5	115.7	118.5	119.4
145°	89.0	89.4	91.8	95.1	98.8	101.2	104.0	109.6	114.7	118.9	121.8
147.5°	90.4	90.9	92.3	95.5	98.8	100.7	103.0	107.7	112.9	117.5	121.8
150°	91.8	91.8	93.2	95.5	98.8	100.2	102.1	106.3	110.5	115.2	118.9
152.5°	92.7	92.7	94.1	96.0	98.3	99.7	101.6	104.9	108.6	112.9	116.6
155°	93.7	93.7	94.6	96.0	98.3	99.3	100.7	103.5	106.8	110.1	113.3
157.5°	94.6	94.6	95.1	96.5	97.9	98.8	100.2	102.6	104.9	107.7	110.5
160°	95.1	95.1	95.5	96.5	97.4	98.3	99.3	101.2	103.5	105.4	107.7
162.5°	95.5	95.5	96.0	96.5	97.4	97.9	98.3	100.2	101.6	103.5	105.4
165°	96.0	96.0	96.0	96.5	96.9	97.4	97.9	98.8	100.2	101.6	103.0
167.5°	96.5	96.5	96.5	96.5	96.9	96.9	97.4	97.9	98.8	99.7	100.7
170°	96.9	96.5	96.5	96.9	96.5	96.5	96.9	97.4	97.4	98.3	98.8
172.5°	96.9	96.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.9	97.4
175°	96.9	96.9	96.5	96.5	96.5	96.0	96.0	96.0	96.0	96.0	96.0
177.5°	96.9	96.9	96.5	96.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0
180°	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5



TEST NUMBER: P395827

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5	553.5
2.5°	557.3	554.9	554.0	553.5	553.1	552.6	551.7	550.7	549.8	549.8
5°	554.9	552.6	551.7	551.2	550.7	550.3	549.8	549.8	549.8	549.8
7.5°	551.2	548.9	547.9	547.4	547.4	547.0	547.0	547.0	546.5	547.0
10°	545.6	543.2	542.8	542.3	541.8	540.9	540.9	540.9	540.4	540.9
12.5°	538.5	536.2	535.7	535.3	534.8	534.3	534.3	533.9	533.9	534.3
15°	531.5	528.2	527.3	527.3	526.8	526.4	526.8	526.4	526.4	526.4
17.5°	521.2	519.8	518.4	517.5	517.0	516.5	516.5	516.1	516.1	516.1
20°	507.6	507.6	507.6	505.3	504.8	504.4	504.4	504.4	504.4	504.4
22.5°	494.5	492.2	494.1	492.7	491.7	490.8	491.2	491.2	491.2	491.2
25°	480.0	478.1	478.6	479.1	478.1	476.7	476.7	476.7	476.7	476.3
27.5°	464.6	463.2	462.7	463.2	464.1	463.2	461.7	460.3	460.8	460.8
30°	447.7	447.2	446.8	445.8	446.8	447.2	444.9	444.4	444.4	444.4
32.5°	430.8	430.4	429.0	428.0	428.5	429.4	428.5	427.6	427.6	427.6
35°	414.0	412.1	410.7	410.2	410.2	411.2	410.7	409.3	409.3	409.3
37.5°	394.3	394.8	392.4	392.0	392.0	392.0	392.9	390.6	391.0	390.6
40°	375.1	375.6	374.2	372.8	373.2	372.3	373.7	371.4	371.4	371.4
42.5°	355.9	355.0	355.4	352.6	353.1	353.1	353.6	352.2	351.7	351.2
45°	336.2	335.3	334.8	333.4	333.4	333.0	333.0	331.1	331.1	331.1
47.5°	315.6	315.2	314.2	313.3	313.3	312.8	311.9	311.4	311.0	311.0
50°	296.0	294.6	293.2	293.6	293.2	292.7	291.8	291.3	290.8	290.3
52.5°	274.9	274.9	273.0	273.0	273.0	272.6	271.6	270.7	270.7	270.2
55°	254.3	253.8	252.4	251.9	252.4	251.9	251.0	250.1	250.1	249.6
57.5°	233.7	232.7	232.3	232.3	231.8	231.8	230.4	229.5	229.9	229.5
60°	212.6	212.6	212.1	211.7	211.7	211.2	209.8	209.8	209.8	209.3
62.5°	192.5	192.5	191.5	191.1	191.5	191.1	190.6	190.1	189.7	189.2
65°	171.4	171.9	170.9	171.4	171.4	170.5	170.5	170.0	170.0	169.5
67.5°	151.7	151.7	151.3	151.3	151.7	151.3	151.3	150.8	150.8	150.3
70°	131.6	132.5	132.1	132.1	132.1	131.6	131.6	131.6	131.1	131.6
72.5°	111.5	111.5	111.5	111.5	111.5	111.9	111.9	111.9	111.9	111.5
75°	92.7	93.2	92.7	93.2	93.7	93.7	93.7	93.7	94.1	93.7
77.5°	74.5	74.9	74.9	75.9	75.9	75.9	76.3	76.3	76.3	76.3
80°	57.1	57.6	58.1	59.0	59.0	59.9	60.4	60.4	60.4	60.4
82.5°	41.2	42.6	43.1	44.5	45.0	45.0	45.9	46.4	46.4	46.4
85°	28.6	30.0	30.9	31.8	32.8	32.8	33.7	33.7	34.2	34.2
87.5°	17.8	19.2	20.1	21.5	22.0	22.5	22.9	23.4	23.9	23.9
90°	9.8	10.8	11.7	12.6	12.6	13.1	13.6	14.0	14.5	14.5
92.5°	7.0	7.5	8.4	8.9	8.9	9.4	9.8	9.8	10.3	10.3
95°	8.0	8.4	8.4	8.9	8.9	8.9	9.4	9.4	9.4	9.4
97.5°	12.2	12.2	12.2	11.7	11.7	11.7	11.7	11.7	11.7	11.7
100°	15.9	16.4	16.4	16.4	16.9	16.9	16.9	16.9	16.4	16.4
102.5°	17.8	18.3	18.7	19.2	19.2	19.2	19.7	19.7	19.7	19.7
105°	20.1	20.1	20.6	21.1	21.1	21.1	21.5	21.5	21.5	21.5
107.5°	22.9	22.9	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
110°	26.2	26.2	26.2	25.8	26.2	25.8	25.8	25.8	25.8	25.8





TEST NUMBER: P395827

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	30.0	29.5	29.5	29.0	29.0	29.0	28.6	28.6	28.6	28.6
115°	36.1	33.7	32.8	31.8	31.8	31.8	31.4	31.4	31.4	31.4
117.5°	43.6	40.3	38.4	36.5	36.1	35.6	34.7	34.7	34.2	34.2
120°	51.5	48.2	45.4	43.1	42.1	41.7	40.3	39.3	38.4	38.4
122.5°	59.0	55.7	52.9	50.6	49.6	48.7	47.3	46.4	45.4	45.4
125°	66.5	63.2	60.4	58.1	56.7	55.7	54.3	53.4	52.4	52.4
127.5°	74.5	70.2	67.4	65.1	63.7	63.2	61.3	60.4	59.5	59.5
130°	83.4	78.2	74.5	71.7	70.7	69.8	68.4	67.4	66.5	66.5
132.5°	92.3	87.1	82.9	79.1	77.7	76.8	74.9	74.0	73.1	73.1
135°	100.7	96.0	91.8	88.0	86.6	85.2	83.4	81.5	80.5	80.5
137.5°	107.2	104.0	100.2	96.9	95.5	94.1	92.3	90.4	89.0	89.4
140°	112.9	110.1	107.7	105.4	104.0	103.0	101.2	99.7	98.3	98.3
142.5°	118.0	115.7	113.3	111.5	111.0	110.5	109.1	107.7	106.8	106.8
145°	122.7	121.3	119.4	117.1	116.6	116.1	114.7	113.8	113.3	113.3
147.5°	124.1	124.6	124.1	122.7	122.2	121.8	120.8	119.9	119.4	119.4
150°	123.2	125.0	126.0	126.0	126.0	126.0	126.0	125.0	124.6	124.6
152.5°	120.4	123.2	125.0	126.4	126.9	127.4	127.4	127.8	127.4	127.4
155°	117.1	119.9	122.7	124.1	125.0	125.5	126.4	126.9	127.4	126.9
157.5°	113.3	115.7	117.5	120.4	121.3	122.2	123.2	124.1	124.6	124.1
160°	110.1	111.9	113.3	115.2	115.7	116.6	117.5	118.0	118.9	118.5
162.5°	106.8	108.2	109.6	110.5	111.5	111.9	112.9	113.3	113.8	113.3
165°	104.4	105.4	105.8	106.8	107.2	107.7	108.2	108.6	108.6	108.6
167.5°	101.6	102.6	103.0	103.5	104.0	104.4	104.4	104.9	104.9	104.9
170°	99.3	99.7	100.2	100.7	100.7	101.2	101.2	101.2	101.6	101.2
172.5°	97.4	97.4	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.4
175°	96.5	96.5	96.0	96.0	96.0	96.0	96.0	95.5	95.1	94.6
177.5°	96.0	95.5	95.5	95.1	95.1	95.1	94.6	94.1	93.7	93.2
180°	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5

(END OF REPORT)