

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: P395807

Luminaire Tested: **I3-WL-20L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395807
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 (5000K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2022.3 lumens
Efficiency: N/A
Efficacy: 116.2 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

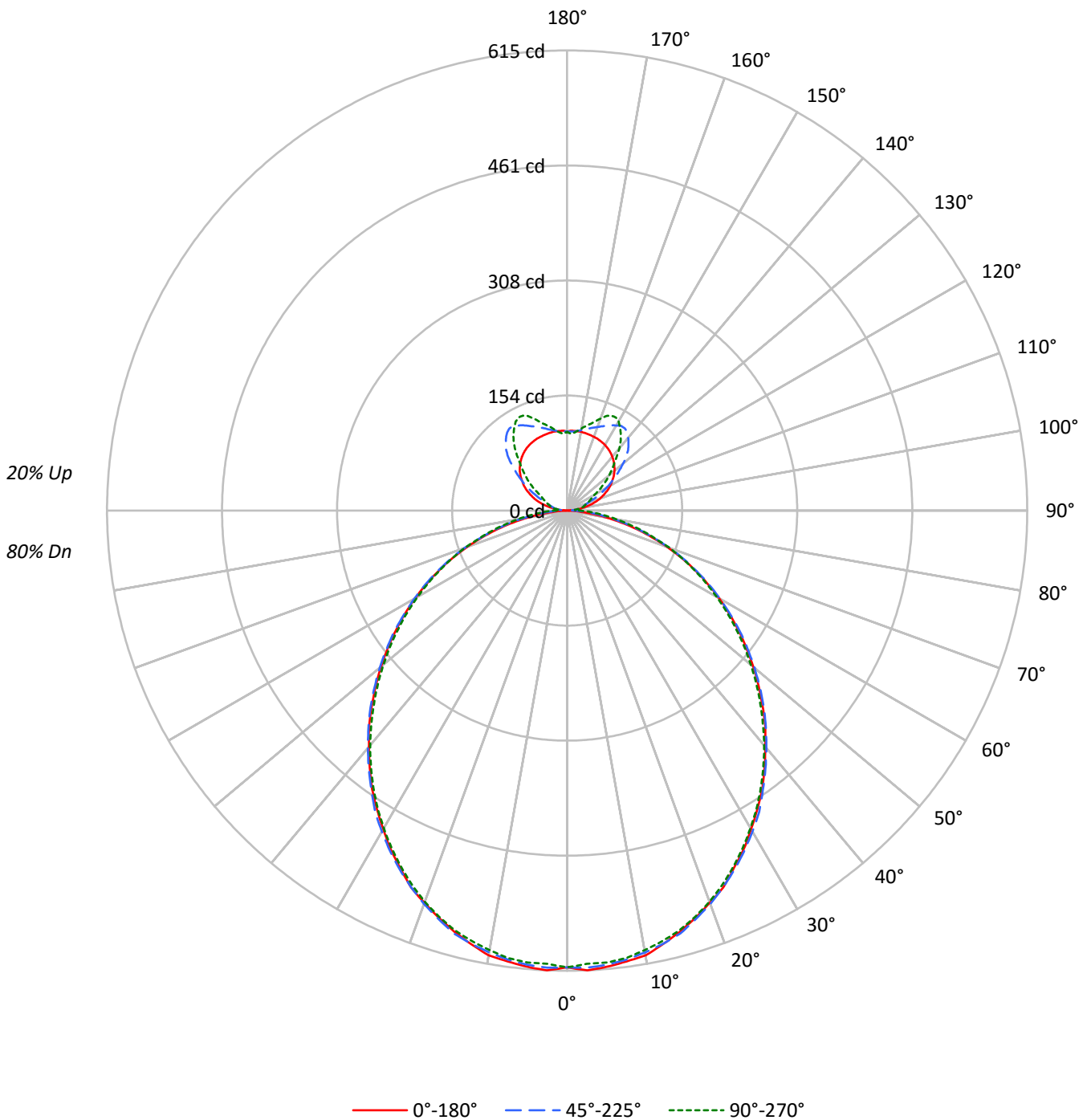
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3355	3355	3355
5°	3364	3286	3250
10°	3344	3197	3144
15°	3277	3108	3032
20°	3213	2983	2901
25°	3136	2856	2757
30°	3045	2725	2609
35°	2961	2580	2456
40°	2855	2430	2296
45°	2753	2283	2128
50°	2643	2123	1960
55°	2529	1959	1787
60°	2401	1776	1608
65°	2253	1579	1418
70°	2043	1348	1217
75°	1761	1068	978
80°	1344	769	729
85°	700	459	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	2.9
10°-20°	163.6	8.1
20°-30°	242.2	12.0
30°-40°	283.1	14.0
40°-50°	284.4	14.1
50°-60°	249.9	12.4
60°-70°	187.3	9.3
70°-80°	106.5	5.3
80°-90°	33.6	1.7
90°-100°	12.1	0.6
100°-110°	29.5	1.5
110°-120°	49.1	2.4
120°-130°	68.8	3.4
130°-140°	79.3	3.9
140°-150°	75.8	3.7
150°-160°	57.0	2.8
160°-170°	32.2	1.6
170°-180°	10.2	0.5
0°-30°	463.5	22.9
0°-40°	746.6	36.9
0°-60°	1280.9	63.3
0°-90°	1608.2	79.5
90°-120°	90.7	4.5
90°-150°	314.7	15.6
90°-180°	414.0	20.5
0°-180°	2022.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	612	606	609	607	606	58
15°	582	577	585	581	580	164
25°	527	526	529	527	525	243
35°	454	451	456	452	451	284
45°	369	369	372	368	365	285
55°	280	281	282	278	275	250
65°	189	190	191	189	187	187
75°	96	98	100	103	103	102
85°	16	22	29	36	38	21
90°	0	3	9	14	16	1
95°	9	9	9	10	10	10
105°	35	29	22	23	24	36
115°	57	71	43	35	35	56
125°	75	103	78	62	58	67
135°	89	113	115	96	89	68
145°	98	112	134	129	125	61
155°	103	110	125	138	140	48
165°	106	107	114	118	120	30
175°	107	106	106	106	104	10
180°	105	105	105	105	105	



TEST NUMBER: P395807

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4
2.5°	615.1	614.0	611.5	608.9	608.4	607.8	607.8	607.3	607.3	608.4	611.5
5°	612.0	611.5	608.9	606.3	605.8	605.8	605.3	605.3	605.3	606.3	609.4
7.5°	607.8	606.8	604.2	601.6	601.1	601.1	601.1	600.6	601.1	601.6	605.3
10°	603.7	603.2	600.6	597.5	596.5	596.5	596.0	594.9	594.9	596.0	599.6
12.5°	593.4	592.9	590.3	588.2	588.2	588.7	588.7	589.3	589.3	590.3	592.9
15°	582.5	582.0	579.4	577.4	577.4	577.4	576.9	576.9	577.4	580.5	585.1
17.5°	570.7	570.1	568.1	566.0	566.0	566.0	565.5	565.5	566.0	567.6	572.2
20°	557.8	557.2	555.2	553.1	553.1	553.1	552.6	553.1	553.1	555.2	559.3
22.5°	545.4	544.3	541.7	539.7	538.6	538.6	538.6	538.1	539.2	540.7	544.8
25°	527.3	526.8	525.7	524.2	525.2	525.7	524.7	523.7	523.7	525.7	529.3
27.5°	510.8	509.7	508.2	506.6	505.6	506.1	506.6	507.7	509.2	509.7	512.8
30°	491.6	491.1	489.6	487.5	488.0	488.5	488.5	488.5	489.6	494.2	495.3
32.5°	473.1	472.5	471.0	468.9	469.4	470.0	469.4	470.0	471.0	473.1	477.7
35°	454.5	453.4	451.9	451.4	450.8	450.8	450.8	451.4	451.9	453.4	456.0
37.5°	433.3	432.3	431.2	429.7	430.7	431.7	432.3	431.7	432.3	434.3	435.4
40°	412.1	411.6	410.6	409.5	410.1	410.6	410.1	411.6	412.6	413.7	414.2
42.5°	392.0	390.9	389.9	389.4	389.4	389.9	389.9	390.9	390.9	393.5	393.0
45°	369.3	368.7	368.2	368.2	368.7	368.7	368.7	369.3	369.8	371.3	371.8
47.5°	347.0	346.5	346.5	346.5	346.5	347.0	347.6	349.1	348.1	348.6	349.1
50°	324.8	324.3	324.3	324.3	325.4	325.4	326.4	326.9	327.4	326.4	326.9
52.5°	302.1	301.6	302.6	302.6	303.7	303.7	305.2	303.7	304.7	304.2	304.2
55°	279.9	279.4	280.4	279.9	280.9	280.9	282.0	282.5	282.0	282.0	282.0
57.5°	257.2	256.7	257.2	257.7	258.2	258.2	259.8	259.8	258.2	259.3	258.7
60°	234.5	233.9	234.5	235.0	235.5	235.5	236.0	235.0	236.0	236.5	236.0
62.5°	211.7	211.2	212.3	211.7	212.3	212.8	212.8	214.3	213.8	213.8	213.3
65°	189.0	188.5	188.5	188.5	189.0	189.5	190.0	190.6	190.6	191.1	190.6
67.5°	165.8	165.3	165.8	165.3	165.8	166.3	167.3	167.8	167.8	168.4	167.8
70°	142.0	142.5	142.0	142.5	143.1	143.6	144.1	145.1	145.1	145.1	145.1
72.5°	118.8	118.3	118.3	117.7	118.8	119.3	119.8	121.4	121.4	121.9	121.9
75°	96.1	95.0	95.5	95.0	97.1	97.6	97.6	99.2	99.7	100.7	100.2
77.5°	73.9	73.9	72.8	74.4	74.9	75.9	76.9	78.0	78.5	80.0	80.0
80°	52.7	52.7	52.2	53.2	55.3	55.8	57.3	57.8	59.4	60.4	60.9
82.5°	33.6	33.6	33.6	35.1	36.7	37.2	38.7	40.3	41.3	42.9	43.4
85°	16.5	17.6	17.6	19.6	20.7	21.7	22.2	24.3	25.8	27.9	29.4
87.5°	5.2	5.7	6.2	7.2	9.3	9.8	10.8	12.9	14.5	16.5	18.1
90°	0.5	0.5	1.0	1.5	2.6	3.1	4.1	5.2	6.7	8.3	9.3
92.5°	3.6	3.6	4.1	4.1	4.1	4.1	4.1	4.6	5.2	6.2	6.7
95°	8.8	13.9	8.3	7.7	8.8	8.8	9.3	8.8	8.8	8.8	8.8
97.5°	14.5	25.8	17.0	11.9	11.4	11.9	11.9	12.9	13.4	13.9	13.9
100°	21.2	32.5	30.0	19.6	16.0	15.5	15.5	15.5	16.0	16.5	17.0
102.5°	27.9	37.2	42.9	30.5	22.7	20.7	19.6	19.1	18.6	19.1	19.1
105°	34.6	41.8	52.7	41.3	32.5	29.4	26.3	22.7	22.2	22.2	22.2
107.5°	40.8	46.5	59.9	53.7	42.3	39.2	35.6	30.0	26.3	25.8	25.3
110°	46.5	51.1	65.1	64.0	53.2	48.5	45.4	39.2	34.1	30.5	28.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	51.6	55.8	68.7	72.8	65.1	59.4	54.7	48.5	42.9	38.2	34.6
115°	56.8	60.4	71.8	80.0	75.4	70.8	65.6	57.8	52.2	47.5	43.4
117.5°	62.0	65.1	74.9	85.2	84.2	81.1	76.9	67.7	60.9	56.3	51.6
120°	66.6	69.7	78.0	88.8	91.9	89.3	86.8	78.5	70.2	65.1	60.9
122.5°	70.8	73.3	81.1	91.9	97.6	97.1	94.5	88.8	80.6	74.4	69.2
125°	74.9	77.5	84.2	94.0	101.7	103.3	102.3	97.6	91.4	84.2	78.0
127.5°	79.0	81.1	87.3	96.1	104.8	107.9	108.5	105.4	100.7	94.5	87.8
130°	82.6	84.7	89.9	97.6	106.9	110.5	112.6	112.1	108.5	104.3	97.6
132.5°	85.7	87.3	92.4	99.2	107.9	112.1	115.2	117.7	115.2	112.1	107.4
135°	88.8	90.4	94.5	100.7	108.5	112.6	116.7	120.8	121.4	118.8	115.2
137.5°	91.4	92.4	96.6	101.7	108.5	112.6	116.7	122.4	125.5	124.5	121.4
140°	94.0	95.0	98.1	103.3	109.0	112.6	116.2	122.9	127.0	128.6	127.0
142.5°	96.1	97.1	99.7	104.3	109.0	112.1	115.7	121.9	127.6	130.7	131.7
145°	98.1	98.6	101.2	104.8	109.0	111.6	114.6	120.8	126.5	131.2	134.3
147.5°	99.7	100.2	101.7	105.4	109.0	111.0	113.6	118.8	124.5	129.6	134.3
150°	101.2	101.2	102.8	105.4	109.0	110.5	112.6	117.2	121.9	127.0	131.2
152.5°	102.3	102.3	103.8	105.9	108.5	110.0	112.1	115.7	119.8	124.5	128.6
155°	103.3	103.3	104.3	105.9	108.5	109.5	111.0	114.1	117.7	121.4	125.0
157.5°	104.3	104.3	104.8	106.4	107.9	109.0	110.5	113.1	115.7	118.8	121.9
160°	104.8	104.8	105.4	106.4	107.4	108.5	109.5	111.6	114.1	116.2	118.8
162.5°	105.4	105.4	105.9	106.4	107.4	107.9	108.5	110.5	112.1	114.1	116.2
165°	105.9	105.9	105.9	106.4	106.9	107.4	107.9	109.0	110.5	112.1	113.6
167.5°	106.4	106.4	106.4	106.4	106.9	106.9	107.4	107.9	109.0	110.0	111.0
170°	106.9	106.4	106.4	106.9	106.4	106.4	106.9	107.4	107.4	108.5	109.0
172.5°	106.9	106.9	106.4	106.4	106.4	106.4	106.4	106.4	106.4	106.9	107.4
175°	106.9	106.9	106.4	106.4	106.4	105.9	105.9	105.9	105.9	105.9	105.9
177.5°	106.9	106.9	106.4	106.4	105.9	105.9	105.9	105.9	105.9	105.9	105.9
180°	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4	610.4
2.5°	614.6	612.0	610.9	610.4	609.9	609.4	608.4	607.3	606.3	606.3
5°	612.0	609.4	608.4	607.8	607.3	606.8	606.3	606.3	606.3	606.3
7.5°	607.8	605.3	604.2	603.7	603.7	603.2	603.2	603.2	602.7	603.2
10°	601.6	599.1	598.6	598.0	597.5	596.5	596.5	596.5	596.0	596.5
12.5°	593.9	591.3	590.8	590.3	589.8	589.3	589.3	588.7	588.7	589.3
15°	586.2	582.5	581.5	581.5	581.0	580.5	581.0	580.5	580.5	580.5
17.5°	574.8	573.2	571.7	570.7	570.1	569.6	569.6	569.1	569.1	569.1
20°	559.8	559.8	559.8	557.2	556.7	556.2	556.2	556.2	556.2	556.2
22.5°	545.4	542.8	544.8	543.3	542.3	541.2	541.7	541.7	541.7	541.7
25°	529.3	527.3	527.8	528.3	527.3	525.7	525.7	525.7	525.7	525.2
27.5°	512.3	510.8	510.2	510.8	511.8	510.8	509.2	507.7	508.2	508.2
30°	493.7	493.2	492.7	491.6	492.7	493.2	490.6	490.1	490.1	490.1
32.5°	475.1	474.6	473.1	472.0	472.5	473.6	472.5	471.5	471.5	471.5
35°	456.5	454.5	452.9	452.4	452.4	453.4	452.9	451.4	451.4	451.4
37.5°	434.8	435.4	432.8	432.3	432.3	432.3	433.3	430.7	431.2	430.7
40°	413.7	414.2	412.6	411.1	411.6	410.6	412.1	409.5	409.5	409.5
42.5°	392.5	391.5	392.0	388.9	389.4	389.4	389.9	388.4	387.8	387.3
45°	370.8	369.8	369.3	367.7	367.7	367.2	367.2	365.1	365.1	365.1
47.5°	348.1	347.6	346.5	345.5	345.5	345.0	343.9	343.4	342.9	342.9
50°	326.4	324.8	323.3	323.8	323.3	322.8	321.7	321.2	320.7	320.2
52.5°	303.1	303.1	301.1	301.1	301.1	300.6	299.5	298.5	298.5	298.0
55°	280.4	279.9	278.4	277.8	278.4	277.8	276.8	275.8	275.8	275.3
57.5°	257.7	256.7	256.2	256.2	255.6	255.6	254.1	253.1	253.6	253.1
60°	234.5	234.5	233.9	233.4	233.4	232.9	231.4	231.4	231.4	230.8
62.5°	212.3	212.3	211.2	210.7	211.2	210.7	210.2	209.7	209.2	208.6
65°	189.0	189.5	188.5	189.0	189.0	188.0	188.0	187.5	187.5	187.0
67.5°	167.3	167.3	166.8	166.8	167.3	166.8	166.8	166.3	166.3	165.8
70°	145.1	146.2	145.6	145.6	145.6	145.1	145.1	145.1	144.6	145.1
72.5°	122.9	122.9	122.9	122.9	122.9	123.4	123.4	123.4	123.4	122.9
75°	102.3	102.8	102.3	102.8	103.3	103.3	103.3	103.3	103.8	103.3
77.5°	82.1	82.6	82.6	83.7	83.7	83.7	84.2	84.2	84.2	84.2
80°	63.0	63.5	64.0	65.1	65.1	66.1	66.6	66.6	66.6	66.6
82.5°	45.4	47.0	47.5	49.1	49.6	49.6	50.6	51.1	51.1	51.1
85°	31.5	33.1	34.1	35.1	36.2	36.2	37.2	37.2	37.7	37.7
87.5°	19.6	21.2	22.2	23.8	24.3	24.8	25.3	25.8	26.3	26.3
90°	10.8	11.9	12.9	13.9	13.9	14.5	15.0	15.5	16.0	16.0
92.5°	7.7	8.3	9.3	9.8	9.8	10.3	10.8	10.8	11.4	11.4
95°	8.8	9.3	9.3	9.8	9.8	9.8	10.3	10.3	10.3	10.3
97.5°	13.4	13.4	13.4	12.9	12.9	12.9	12.9	12.9	12.9	12.9
100°	17.6	18.1	18.1	18.1	18.6	18.6	18.6	18.6	18.1	18.1
102.5°	19.6	20.1	20.7	21.2	21.2	21.2	21.7	21.7	21.7	21.7
105°	22.2	22.2	22.7	23.2	23.2	23.2	23.8	23.8	23.8	23.8
107.5°	25.3	25.3	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
110°	28.9	28.9	28.9	28.4	28.9	28.4	28.4	28.4	28.4	28.4



TEST NUMBER: P395807

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	33.1	32.5	32.5	32.0	32.0	32.0	31.5	31.5	31.5	31.5
115°	39.8	37.2	36.2	35.1	35.1	35.1	34.6	34.6	34.6	34.6
117.5°	48.0	44.4	42.3	40.3	39.8	39.2	38.2	38.2	37.7	37.7
120°	56.8	53.2	50.1	47.5	46.5	46.0	44.4	43.4	42.3	42.3
122.5°	65.1	61.5	58.4	55.8	54.7	53.7	52.2	51.1	50.1	50.1
125°	73.3	69.7	66.6	64.0	62.5	61.5	59.9	58.9	57.8	57.8
127.5°	82.1	77.5	74.4	71.8	70.2	69.7	67.7	66.6	65.6	65.6
130°	91.9	86.2	82.1	79.0	78.0	76.9	75.4	74.4	73.3	73.3
132.5°	101.7	96.1	91.4	87.3	85.7	84.7	82.6	81.6	80.6	80.6
135°	111.0	105.9	101.2	97.1	95.5	94.0	91.9	89.9	88.8	88.8
137.5°	118.3	114.6	110.5	106.9	105.4	103.8	101.7	99.7	98.1	98.6
140°	124.5	121.4	118.8	116.2	114.6	113.6	111.6	110.0	108.5	108.5
142.5°	130.1	127.6	125.0	122.9	122.4	121.9	120.3	118.8	117.7	117.7
145°	135.3	133.8	131.7	129.1	128.6	128.1	126.5	125.5	125.0	125.0
147.5°	136.9	137.4	136.9	135.3	134.8	134.3	133.2	132.2	131.7	131.7
150°	135.8	137.9	138.9	138.9	138.9	138.9	138.9	137.9	137.4	137.4
152.5°	132.7	135.8	137.9	139.4	140.0	140.5	140.5	141.0	140.5	140.5
155°	129.1	132.2	135.3	136.9	137.9	138.4	139.4	140.0	140.5	140.0
157.5°	125.0	127.6	129.6	132.7	133.8	134.8	135.8	136.9	137.4	136.9
160°	121.4	123.4	125.0	127.0	127.6	128.6	129.6	130.1	131.2	130.7
162.5°	117.7	119.3	120.8	121.9	122.9	123.4	124.5	125.0	125.5	125.0
165°	115.2	116.2	116.7	117.7	118.3	118.8	119.3	119.8	119.8	119.8
167.5°	112.1	113.1	113.6	114.1	114.6	115.2	115.2	115.7	115.7	115.7
170°	109.5	110.0	110.5	111.0	111.0	111.6	111.6	111.6	112.1	111.6
172.5°	107.4	107.4	107.4	107.9	107.9	107.9	107.9	107.9	107.9	107.4
175°	106.4	106.4	105.9	105.9	105.9	105.9	105.9	105.4	104.8	104.3
177.5°	105.9	105.4	105.4	104.8	104.8	104.8	104.3	103.8	103.3	102.8
180°	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4

(END OF REPORT)