

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: P395812

Luminaire Tested: **I3-WL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395812
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-20L83050-1D-UNV-W2A-W-4 (4000K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2067.5 lumens
Efficiency: N/A
Efficacy: 118.8 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

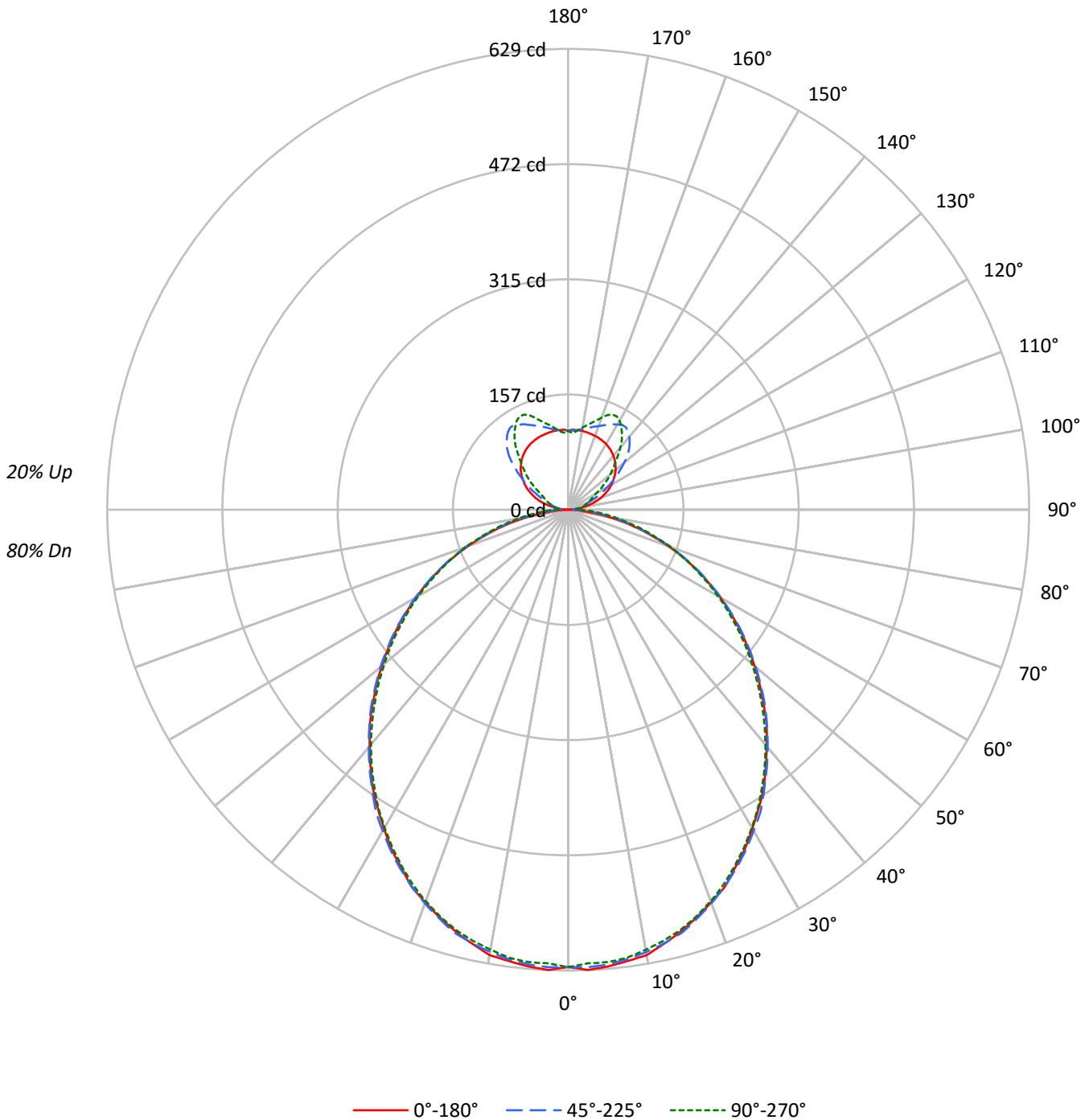
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395812

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395812

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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°	3430	3430	3430
5°	3439	3359	3323
10°	3419	3268	3215
15°	3350	3178	3100
20°	3284	3050	2966
25°	3206	2920	2818
30°	3113	2786	2667
35°	3027	2637	2510
40°	2919	2484	2348
45°	2815	2334	2176
50°	2703	2170	2003
55°	2585	2003	1827
60°	2454	1816	1645
65°	2303	1614	1449
70°	2089	1378	1245
75°	1800	1092	999
80°	1374	786	746
85°	717	470	505



TEST NUMBER: P395812

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	2.9
10°-20°	167.2	8.1
20°-30°	247.6	12.0
30°-40°	289.4	14.0
40°-50°	290.7	14.1
50°-60°	255.5	12.4
60°-70°	191.4	9.3
70°-80°	108.9	5.3
80°-90°	34.4	1.7
90°-100°	12.4	0.6
100°-110°	30.2	1.5
110°-120°	50.2	2.4
120°-130°	70.4	3.4
130°-140°	81.1	3.9
140°-150°	77.5	3.7
150°-160°	58.3	2.8
160°-170°	33.0	1.6
170°-180°	10.4	0.5
0°-30°	473.8	22.9
0°-40°	763.2	36.9
0°-60°	1309.5	63.3
0°-90°	1644.2	79.5
90°-120°	92.7	4.5
90°-150°	321.7	15.6
90°-180°	423.0	20.5
0°-180°	2067.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	626	619	623	621	620	59
15°	596	590	598	594	593	168
25°	539	538	541	539	537	248
35°	465	461	466	462	461	290
45°	378	377	380	376	373	291
55°	286	287	288	285	281	256
65°	193	194	195	193	191	191
75°	98	100	102	106	106	104
85°	17	22	30	37	38	22
90°	0	3	10	14	16	1
95°	9	9	9	10	11	10
105°	35	30	23	24	24	37
115°	58	72	44	36	35	57
125°	77	106	80	64	59	68
135°	91	115	118	98	91	70
145°	100	114	137	132	128	63
155°	106	112	128	141	143	49
165°	108	110	116	121	122	31
175°	109	108	108	108	107	10
180°	108	108	108	108	108	



TEST NUMBER: P395812

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1
2.5°	628.8	627.8	625.1	622.5	621.9	621.4	621.4	620.9	620.9	621.9	625.1
5°	625.6	625.1	622.5	619.8	619.3	619.3	618.8	618.8	618.8	619.8	623.0
7.5°	621.4	620.4	617.7	615.1	614.6	614.6	614.6	614.0	614.6	615.1	618.8
10°	617.2	616.7	614.0	610.9	609.8	609.8	609.3	608.2	608.2	609.3	613.0
12.5°	606.6	606.1	603.5	601.4	601.4	601.9	601.9	602.4	602.4	603.5	606.1
15°	595.5	595.0	592.4	590.3	590.3	590.3	589.7	589.7	590.3	593.4	598.2
17.5°	583.4	582.9	580.8	578.7	578.7	578.7	578.1	578.1	578.7	580.2	585.0
20°	570.2	569.7	567.6	565.5	565.5	565.5	564.9	565.5	565.5	567.6	571.8
22.5°	557.5	556.5	553.8	551.7	550.7	550.7	550.7	550.1	551.2	552.8	557.0
25°	539.1	538.5	537.5	535.9	536.9	537.5	536.4	535.4	535.4	537.5	541.2
27.5°	522.2	521.1	519.5	517.9	516.9	517.4	517.9	519.0	520.6	521.1	524.3
30°	502.6	502.1	500.5	498.4	498.9	499.5	499.5	499.5	500.5	505.3	506.3
32.5°	483.6	483.1	481.5	479.4	479.9	480.5	479.9	480.5	481.5	483.6	488.4
35°	464.6	463.6	462.0	461.4	460.9	460.9	460.9	461.4	462.0	463.6	466.2
37.5°	443.0	441.9	440.9	439.3	440.3	441.4	441.9	441.4	441.9	444.0	445.1
40°	421.3	420.8	419.7	418.7	419.2	419.7	419.2	420.8	421.8	422.9	423.4
42.5°	400.7	399.7	398.6	398.1	398.1	398.6	398.6	399.7	399.7	402.3	401.8
45°	377.5	377.0	376.4	376.4	377.0	377.0	377.0	377.5	378.0	379.6	380.1
47.5°	354.8	354.3	354.3	354.3	354.3	354.8	355.3	356.9	355.9	356.4	356.9
50°	332.1	331.6	331.6	331.6	332.6	332.6	333.7	334.2	334.7	333.7	334.2
52.5°	308.9	308.3	309.4	309.4	310.4	310.4	312.0	310.4	311.5	311.0	311.0
55°	286.2	285.6	286.7	286.2	287.2	287.2	288.3	288.8	288.3	288.3	288.3
57.5°	262.9	262.4	262.9	263.5	264.0	264.0	265.6	265.6	264.0	265.0	264.5
60°	239.7	239.2	239.7	240.2	240.8	240.8	241.3	240.2	241.3	241.8	241.3
62.5°	216.5	215.9	217.0	216.5	217.0	217.5	217.5	219.1	218.6	218.6	218.1
65°	193.2	192.7	192.7	192.7	193.2	193.8	194.3	194.8	194.8	195.3	194.8
67.5°	169.5	169.0	169.5	169.0	169.5	170.0	171.1	171.6	171.6	172.1	171.6
70°	145.2	145.7	145.2	145.7	146.2	146.8	147.3	148.4	148.4	148.4	148.4
72.5°	121.4	120.9	120.9	120.4	121.4	122.0	122.5	124.1	124.1	124.6	124.6
75°	98.2	97.1	97.7	97.1	99.3	99.8	99.8	101.4	101.9	103.0	102.4
77.5°	75.5	75.5	74.4	76.0	76.6	77.6	78.7	79.7	80.3	81.8	81.8
80°	53.9	53.9	53.3	54.4	56.5	57.0	58.6	59.1	60.7	61.8	62.3
82.5°	34.3	34.3	34.3	35.9	37.5	38.0	39.6	41.2	42.2	43.8	44.3
85°	16.9	18.0	18.0	20.1	21.1	22.2	22.7	24.8	26.4	28.5	30.1
87.5°	5.3	5.8	6.3	7.4	9.5	10.0	11.1	13.2	14.8	16.9	18.5
90°	0.5	0.5	1.1	1.6	2.6	3.2	4.2	5.3	6.9	8.4	9.5
92.5°	3.7	3.7	4.2	4.2	4.2	4.2	4.2	4.8	5.3	6.3	6.9
95°	9.0	14.3	8.4	7.9	9.0	9.0	9.5	9.0	9.0	9.0	9.0
97.5°	14.8	26.4	17.4	12.1	11.6	12.1	12.1	13.2	13.7	14.3	14.3
100°	21.6	33.3	30.6	20.1	16.4	15.8	15.8	15.8	16.4	16.9	17.4
102.5°	28.5	38.0	43.8	31.2	23.2	21.1	20.1	19.5	19.0	19.5	19.5
105°	35.4	42.8	53.9	42.2	33.3	30.1	26.9	23.2	22.7	22.7	22.7
107.5°	41.7	47.5	61.2	54.9	43.3	40.1	36.4	30.6	26.9	26.4	25.9
110°	47.5	52.3	66.5	65.5	54.4	49.6	46.5	40.1	34.8	31.2	29.6



TEST NUMBER: P395812

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	52.8	57.0	70.2	74.4	66.5	60.7	56.0	49.6	43.8	39.1	35.4
115°	58.1	61.8	73.4	81.8	77.1	72.3	67.1	59.1	53.3	48.6	44.3
117.5°	63.4	66.5	76.6	87.1	86.1	82.9	78.7	69.2	62.3	57.5	52.8
120°	68.1	71.3	79.7	90.8	94.0	91.3	88.7	80.3	71.8	66.5	62.3
122.5°	72.3	75.0	82.9	94.0	99.8	99.3	96.6	90.8	82.4	76.0	70.7
125°	76.6	79.2	86.1	96.1	104.0	105.6	104.5	99.8	93.5	86.1	79.7
127.5°	80.8	82.9	89.2	98.2	107.2	110.3	110.9	107.7	103.0	96.6	89.8
130°	84.5	86.6	91.9	99.8	109.3	113.0	115.1	114.6	110.9	106.6	99.8
132.5°	87.6	89.2	94.5	101.4	110.3	114.6	117.7	120.4	117.7	114.6	109.8
135°	90.8	92.4	96.6	103.0	110.9	115.1	119.3	123.5	124.1	121.4	117.7
137.5°	93.5	94.5	98.7	104.0	110.9	115.1	119.3	125.1	128.3	127.2	124.1
140°	96.1	97.1	100.3	105.6	111.4	115.1	118.8	125.7	129.9	131.5	129.9
142.5°	98.2	99.3	101.9	106.6	111.4	114.6	118.3	124.6	130.4	133.6	134.6
145°	100.3	100.8	103.5	107.2	111.4	114.0	117.2	123.5	129.4	134.1	137.3
147.5°	101.9	102.4	104.0	107.7	111.4	113.5	116.2	121.4	127.2	132.5	137.3
150°	103.5	103.5	105.1	107.7	111.4	113.0	115.1	119.8	124.6	129.9	134.1
152.5°	104.5	104.5	106.1	108.2	110.9	112.5	114.6	118.3	122.5	127.2	131.5
155°	105.6	105.6	106.6	108.2	110.9	111.9	113.5	116.7	120.4	124.1	127.8
157.5°	106.6	106.6	107.2	108.8	110.3	111.4	113.0	115.6	118.3	121.4	124.6
160°	107.2	107.2	107.7	108.8	109.8	110.9	111.9	114.0	116.7	118.8	121.4
162.5°	107.7	107.7	108.2	108.8	109.8	110.3	110.9	113.0	114.6	116.7	118.8
165°	108.2	108.2	108.2	108.8	109.3	109.8	110.3	111.4	113.0	114.6	116.2
167.5°	108.8	108.8	108.8	108.8	109.3	109.3	109.8	110.3	111.4	112.5	113.5
170°	109.3	108.8	108.8	109.3	108.8	108.8	109.3	109.8	109.8	110.9	111.4
172.5°	109.3	109.3	108.8	108.8	108.8	108.8	108.8	108.8	108.8	109.3	109.8
175°	109.3	109.3	108.8	108.8	108.8	108.2	108.2	108.2	108.2	108.2	108.2
177.5°	109.3	109.3	108.8	108.8	108.2	108.2	108.2	108.2	108.2	108.2	108.2
180°	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7



TEST NUMBER: P395812

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1	624.1
2.5°	628.3	625.6	624.6	624.1	623.5	623.0	621.9	620.9	619.8	619.8
5°	625.6	623.0	621.9	621.4	620.9	620.4	619.8	619.8	619.8	619.8
7.5°	621.4	618.8	617.7	617.2	617.2	616.7	616.7	616.7	616.1	616.7
10°	615.1	612.4	611.9	611.4	610.9	609.8	609.8	609.8	609.3	609.8
12.5°	607.2	604.5	604.0	603.5	602.9	602.4	602.4	601.9	601.9	602.4
15°	599.2	595.5	594.5	594.5	594.0	593.4	594.0	593.4	593.4	593.4
17.5°	587.6	586.0	584.5	583.4	582.9	582.3	582.3	581.8	581.8	581.8
20°	572.3	572.3	572.3	569.7	569.2	568.6	568.6	568.6	568.6	568.6
22.5°	557.5	554.9	557.0	555.4	554.4	553.3	553.8	553.8	553.8	553.8
25°	541.2	539.1	539.6	540.1	539.1	537.5	537.5	537.5	537.5	536.9
27.5°	523.7	522.2	521.6	522.2	523.2	522.2	520.6	519.0	519.5	519.5
30°	504.7	504.2	503.7	502.6	503.7	504.2	501.6	501.0	501.0	501.0
32.5°	485.7	485.2	483.6	482.6	483.1	484.1	483.1	482.0	482.0	482.0
35°	466.7	464.6	463.0	462.5	462.5	463.6	463.0	461.4	461.4	461.4
37.5°	444.5	445.1	442.4	441.9	441.9	441.9	443.0	440.3	440.9	440.3
40°	422.9	423.4	421.8	420.3	420.8	419.7	421.3	418.7	418.7	418.7
42.5°	401.3	400.2	400.7	397.6	398.1	398.1	398.6	397.0	396.5	396.0
45°	379.1	378.0	377.5	375.9	375.9	375.4	375.4	373.3	373.3	373.3
47.5°	355.9	355.3	354.3	353.2	353.2	352.7	351.6	351.1	350.6	350.6
50°	333.7	332.1	330.5	331.0	330.5	330.0	328.9	328.4	327.9	327.3
52.5°	309.9	309.9	307.8	307.8	307.8	307.3	306.2	305.2	305.2	304.6
55°	286.7	286.2	284.6	284.0	284.6	284.0	283.0	281.9	281.9	281.4
57.5°	263.5	262.4	261.9	261.9	261.3	261.3	259.8	258.7	259.2	258.7
60°	239.7	239.7	239.2	238.6	238.6	238.1	236.5	236.5	236.5	236.0
62.5°	217.0	217.0	215.9	215.4	215.9	215.4	214.9	214.4	213.8	213.3
65°	193.2	193.8	192.7	193.2	193.2	192.2	192.2	191.7	191.7	191.1
67.5°	171.1	171.1	170.5	170.5	171.1	170.5	170.5	170.0	170.0	169.5
70°	148.4	149.4	148.9	148.9	148.9	148.4	148.4	148.4	147.8	148.4
72.5°	125.7	125.7	125.7	125.7	125.7	126.2	126.2	126.2	126.2	125.7
75°	104.5	105.1	104.5	105.1	105.6	105.6	105.6	105.6	106.1	105.6
77.5°	83.9	84.5	84.5	85.5	85.5	85.5	86.1	86.1	86.1	86.1
80°	64.4	64.9	65.5	66.5	66.5	67.6	68.1	68.1	68.1	68.1
82.5°	46.5	48.0	48.6	50.2	50.7	50.7	51.7	52.3	52.3	52.3
85°	32.2	33.8	34.8	35.9	37.0	37.0	38.0	38.0	38.5	38.5
87.5°	20.1	21.6	22.7	24.3	24.8	25.3	25.9	26.4	26.9	26.9
90°	11.1	12.1	13.2	14.3	14.3	14.8	15.3	15.8	16.4	16.4
92.5°	7.9	8.4	9.5	10.0	10.0	10.6	11.1	11.1	11.6	11.6
95°	9.0	9.5	9.5	10.0	10.0	10.0	10.6	10.6	10.6	10.6
97.5°	13.7	13.7	13.7	13.2	13.2	13.2	13.2	13.2	13.2	13.2
100°	18.0	18.5	18.5	18.5	19.0	19.0	19.0	19.0	18.5	18.5
102.5°	20.1	20.6	21.1	21.6	21.6	21.6	22.2	22.2	22.2	22.2
105°	22.7	22.7	23.2	23.8	23.8	23.8	24.3	24.3	24.3	24.3
107.5°	25.9	25.9	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
110°	29.6	29.6	29.6	29.0	29.6	29.0	29.0	29.0	29.0	29.0



TEST NUMBER: P395812

CATALOG NUMBER: I3-WL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	33.8	33.3	33.3	32.7	32.7	32.7	32.2	32.2	32.2	32.2
115°	40.7	38.0	37.0	35.9	35.9	35.9	35.4	35.4	35.4	35.4
117.5°	49.1	45.4	43.3	41.2	40.7	40.1	39.1	39.1	38.5	38.5
120°	58.1	54.4	51.2	48.6	47.5	47.0	45.4	44.3	43.3	43.3
122.5°	66.5	62.8	59.7	57.0	56.0	54.9	53.3	52.3	51.2	51.2
125°	75.0	71.3	68.1	65.5	63.9	62.8	61.2	60.2	59.1	59.1
127.5°	83.9	79.2	76.0	73.4	71.8	71.3	69.2	68.1	67.1	67.1
130°	94.0	88.2	83.9	80.8	79.7	78.7	77.1	76.0	75.0	75.0
132.5°	104.0	98.2	93.5	89.2	87.6	86.6	84.5	83.4	82.4	82.4
135°	113.5	108.2	103.5	99.3	97.7	96.1	94.0	91.9	90.8	90.8
137.5°	120.9	117.2	113.0	109.3	107.7	106.1	104.0	101.9	100.3	100.8
140°	127.2	124.1	121.4	118.8	117.2	116.2	114.0	112.5	110.9	110.9
142.5°	133.0	130.4	127.8	125.7	125.1	124.6	123.0	121.4	120.4	120.4
145°	138.3	136.7	134.6	132.0	131.5	130.9	129.4	128.3	127.8	127.8
147.5°	139.9	140.4	139.9	138.3	137.8	137.3	136.2	135.2	134.6	134.6
150°	138.9	141.0	142.0	142.0	142.0	142.0	142.0	141.0	140.4	140.4
152.5°	135.7	138.9	141.0	142.6	143.1	143.6	143.6	144.1	143.6	143.6
155°	132.0	135.2	138.3	139.9	141.0	141.5	142.6	143.1	143.6	143.1
157.5°	127.8	130.4	132.5	135.7	136.7	137.8	138.9	139.9	140.4	139.9
160°	124.1	126.2	127.8	129.9	130.4	131.5	132.5	133.0	134.1	133.6
162.5°	120.4	122.0	123.5	124.6	125.7	126.2	127.2	127.8	128.3	127.8
165°	117.7	118.8	119.3	120.4	120.9	121.4	122.0	122.5	122.5	122.5
167.5°	114.6	115.6	116.2	116.7	117.2	117.7	117.7	118.3	118.3	118.3
170°	111.9	112.5	113.0	113.5	113.5	114.0	114.0	114.0	114.6	114.0
172.5°	109.8	109.8	109.8	110.3	110.3	110.3	110.3	110.3	110.3	109.8
175°	108.8	108.8	108.2	108.2	108.2	108.2	108.2	107.7	107.2	106.6
177.5°	108.2	107.7	107.7	107.2	107.2	107.2	106.6	106.1	105.6	105.1
180°	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7

(END OF REPORT)