

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: P395809

Luminaire Tested: **I3-WL-20L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395809  
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 (6500K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2051.8 lumens  
Efficiency: N/A  
Efficacy: 115.9 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

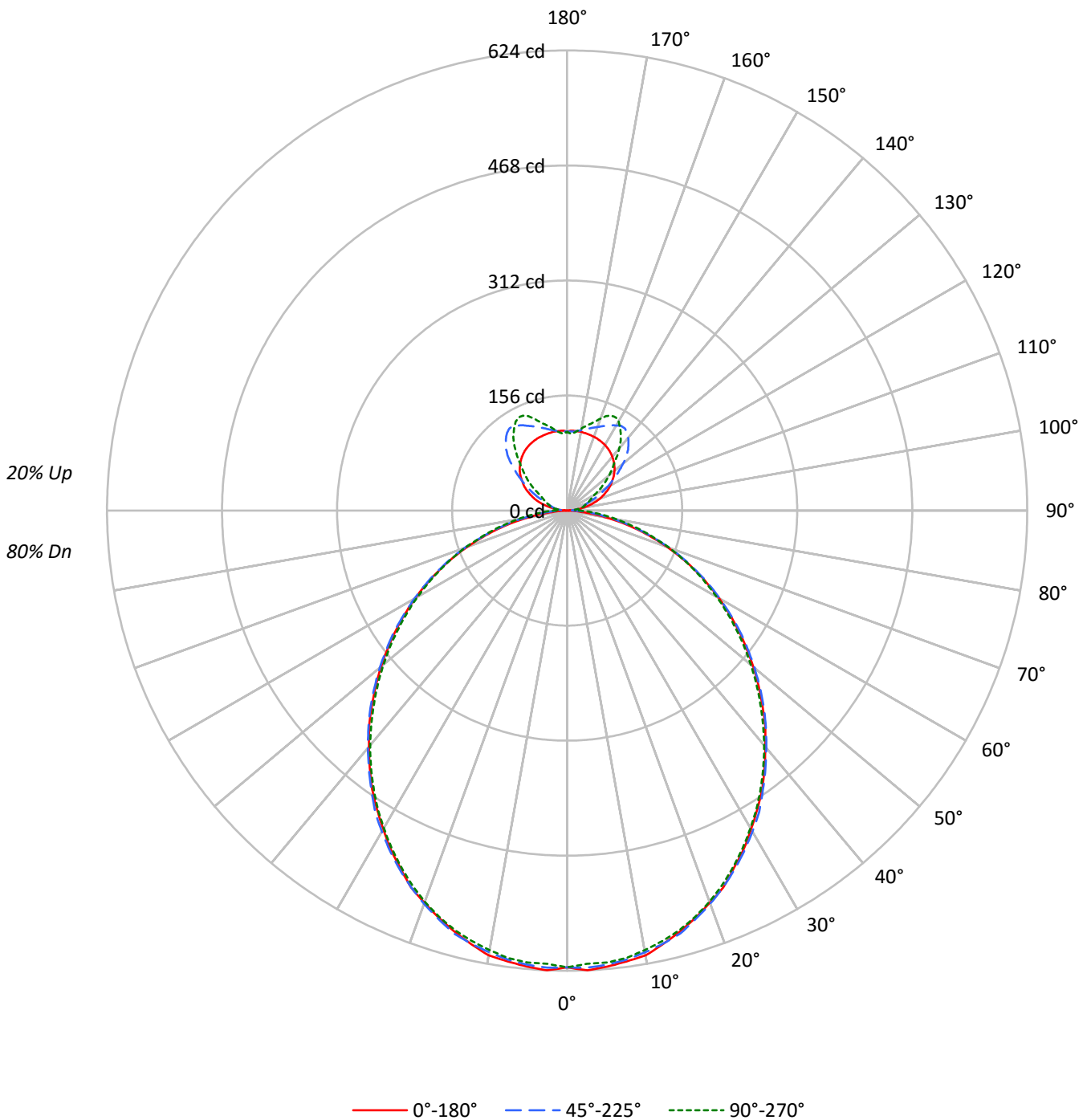
Input Watts (W): 17.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3404	3404	3404
5°	3413	3334	3298
10°	3393	3243	3190
15°	3325	3153	3076
20°	3260	3026	2944
25°	3181	2898	2797
30°	3090	2765	2646
35°	3004	2618	2491
40°	2896	2465	2330
45°	2793	2316	2159
50°	2682	2154	1988
55°	2566	1987	1813
60°	2436	1802	1632
65°	2286	1601	1439
70°	2073	1367	1235
75°	1787	1083	992
80°	1362	780	740
85°	713	467	501



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CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (6500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	2.9
10°-20°	166.0	8.1
20°-30°	245.7	12.0
30°-40°	287.2	14.0
40°-50°	288.5	14.1
50°-60°	253.6	12.4
60°-70°	190.0	9.3
70°-80°	108.0	5.3
80°-90°	34.1	1.7
90°-100°	12.3	0.6
100°-110°	30.0	1.5
110°-120°	49.8	2.4
120°-130°	69.8	3.4
130°-140°	80.5	3.9
140°-150°	76.9	3.7
150°-160°	57.8	2.8
160°-170°	32.7	1.6
170°-180°	10.4	0.5
0°-30°	470.2	22.9
0°-40°	757.4	36.9
0°-60°	1299.5	63.3
0°-90°	1631.6	79.5
90°-120°	92.0	4.5
90°-150°	319.2	15.6
90°-180°	420.0	20.5
0°-180°	2051.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	621	615	618	616	615	59
15°	591	586	594	590	589	167
25°	535	533	537	535	533	247
35°	461	457	463	459	458	288
45°	375	374	377	373	370	289
55°	284	285	286	282	279	254
65°	192	192	193	192	190	189
75°	98	99	102	105	105	103
85°	17	22	30	37	38	22
90°	0	3	9	14	16	1
95°	9	9	9	10	10	10
105°	35	30	22	24	24	37
115°	58	72	44	36	35	57
125°	76	105	79	63	59	68
135°	90	114	117	97	90	69
145°	100	113	136	130	127	62
155°	105	111	127	140	142	48
165°	107	109	115	120	122	30
175°	108	107	107	107	106	10
180°	107	107	107	107	107	



TEST NUMBER: P395809

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
2.5°	624.0	623.0	620.4	617.7	617.2	616.7	616.7	616.2	616.2	617.2	620.4
5°	620.9	620.4	617.7	615.1	614.6	614.6	614.1	614.1	614.1	615.1	618.3
7.5°	616.7	615.7	613.0	610.4	609.9	609.9	609.9	609.4	609.9	610.4	614.1
10°	612.5	612.0	609.4	606.2	605.2	605.2	604.6	603.6	603.6	604.6	608.3
12.5°	602.0	601.5	598.9	596.8	596.8	597.3	597.3	597.8	597.8	598.9	601.5
15°	591.0	590.5	587.9	585.8	585.8	585.8	585.3	585.3	585.8	588.9	593.6
17.5°	579.0	578.4	576.4	574.3	574.3	574.3	573.7	573.7	574.3	575.8	580.5
20°	565.9	565.4	563.3	561.2	561.2	561.2	560.6	561.2	561.2	563.3	567.4
22.5°	553.3	552.3	549.6	547.5	546.5	546.5	546.5	546.0	547.0	548.6	552.8
25°	535.0	534.4	533.4	531.8	532.9	533.4	532.3	531.3	531.3	533.4	537.1
27.5°	518.2	517.1	515.6	514.0	513.0	513.5	514.0	515.1	516.6	517.1	520.3
30°	498.8	498.3	496.7	494.6	495.1	495.7	495.7	495.7	496.7	501.4	502.5
32.5°	479.9	479.4	477.8	475.8	476.3	476.8	476.3	476.8	477.8	479.9	484.7
35°	461.1	460.0	458.5	457.9	457.4	457.4	457.4	457.9	458.5	460.0	462.7
37.5°	439.6	438.6	437.5	435.9	437.0	438.0	438.6	438.0	438.6	440.6	441.7
40°	418.1	417.6	416.5	415.5	416.0	416.5	416.0	417.6	418.6	419.7	420.2
42.5°	397.7	396.6	395.6	395.1	395.1	395.6	395.6	396.6	396.6	399.3	398.7
45°	374.6	374.1	373.6	373.6	374.1	374.1	374.1	374.6	375.2	376.7	377.2
47.5°	352.1	351.6	351.6	351.6	351.6	352.1	352.6	354.2	353.1	353.7	354.2
50°	329.6	329.0	329.0	329.0	330.1	330.1	331.1	331.7	332.2	331.1	331.7
52.5°	306.5	306.0	307.0	307.0	308.1	308.1	309.7	308.1	309.1	308.6	308.6
55°	284.0	283.5	284.5	284.0	285.0	285.0	286.1	286.6	286.1	286.1	286.1
57.5°	260.9	260.4	260.9	261.5	262.0	262.0	263.6	263.6	262.0	263.0	262.5
60°	237.9	237.4	237.9	238.4	238.9	238.9	239.4	238.4	239.4	240.0	239.4
62.5°	214.8	214.3	215.3	214.8	215.3	215.9	215.9	217.4	216.9	216.9	216.4
65°	191.8	191.2	191.2	191.2	191.8	192.3	192.8	193.3	193.3	193.9	193.3
67.5°	168.2	167.7	168.2	167.7	168.2	168.7	169.8	170.3	170.3	170.8	170.3
70°	144.1	144.6	144.1	144.6	145.1	145.7	146.2	147.2	147.2	147.2	147.2
72.5°	120.5	120.0	120.0	119.5	120.5	121.0	121.6	123.1	123.1	123.7	123.7
75°	97.5	96.4	96.9	96.4	98.5	99.0	99.0	100.6	101.1	102.2	101.6
77.5°	74.9	74.9	73.9	75.4	76.0	77.0	78.1	79.1	79.6	81.2	81.2
80°	53.4	53.4	52.9	54.0	56.1	56.6	58.2	58.7	60.3	61.3	61.8
82.5°	34.1	34.1	34.1	35.6	37.2	37.7	39.3	40.9	41.9	43.5	44.0
85°	16.8	17.8	17.8	19.9	21.0	22.0	22.5	24.6	26.2	28.3	29.9
87.5°	5.2	5.8	6.3	7.3	9.4	10.0	11.0	13.1	14.7	16.8	18.3
90°	0.5	0.5	1.0	1.6	2.6	3.1	4.2	5.2	6.8	8.4	9.4
92.5°	3.7	3.7	4.2	4.2	4.2	4.2	4.2	4.7	5.2	6.3	6.8
95°	8.9	14.1	8.4	7.9	8.9	8.9	9.4	8.9	8.9	8.9	8.9
97.5°	14.7	26.2	17.3	12.1	11.5	12.1	12.1	13.1	13.6	14.1	14.1
100°	21.5	33.0	30.4	19.9	16.2	15.7	15.7	15.7	16.2	16.8	17.3
102.5°	28.3	37.7	43.5	30.9	23.1	21.0	19.9	19.4	18.9	19.4	19.4
105°	35.1	42.4	53.4	41.9	33.0	29.9	26.7	23.1	22.5	22.5	22.5
107.5°	41.4	47.2	60.8	54.5	43.0	39.8	36.2	30.4	26.7	26.2	25.7
110°	47.2	51.9	66.0	65.0	54.0	49.3	46.1	39.8	34.6	30.9	29.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	52.4	56.6	69.7	73.9	66.0	60.3	55.5	49.3	43.5	38.8	35.1
115°	57.6	61.3	72.8	81.2	76.5	71.8	66.5	58.7	52.9	48.2	44.0
117.5°	62.9	66.0	76.0	86.5	85.4	82.3	78.1	68.6	61.8	57.1	52.4
120°	67.6	70.7	79.1	90.1	93.3	90.6	88.0	79.6	71.3	66.0	61.8
122.5°	71.8	74.4	82.3	93.3	99.0	98.5	95.9	90.1	81.7	75.4	70.2
125°	76.0	78.6	85.4	95.4	103.2	104.8	103.7	99.0	92.7	85.4	79.1
127.5°	80.2	82.3	88.5	97.5	106.4	109.5	110.0	106.9	102.2	95.9	89.1
130°	83.8	85.9	91.2	99.0	108.5	112.1	114.2	113.7	110.0	105.8	99.0
132.5°	87.0	88.5	93.8	100.6	109.5	113.7	116.8	119.5	116.8	113.7	109.0
135°	90.1	91.7	95.9	102.2	110.0	114.2	118.4	122.6	123.1	120.5	116.8
137.5°	92.7	93.8	98.0	103.2	110.0	114.2	118.4	124.2	127.3	126.3	123.1
140°	95.4	96.4	99.6	104.8	110.6	114.2	117.9	124.7	128.9	130.5	128.9
142.5°	97.5	98.5	101.1	105.8	110.6	113.7	117.4	123.7	129.4	132.6	133.6
145°	99.6	100.1	102.7	106.4	110.6	113.2	116.3	122.6	128.4	133.1	136.2
147.5°	101.1	101.6	103.2	106.9	110.6	112.7	115.3	120.5	126.3	131.5	136.2
150°	102.7	102.7	104.3	106.9	110.6	112.1	114.2	118.9	123.7	128.9	133.1
152.5°	103.7	103.7	105.3	107.4	110.0	111.6	113.7	117.4	121.6	126.3	130.5
155°	104.8	104.8	105.8	107.4	110.0	111.1	112.7	115.8	119.5	123.1	126.8
157.5°	105.8	105.8	106.4	107.9	109.5	110.6	112.1	114.7	117.4	120.5	123.7
160°	106.4	106.4	106.9	107.9	109.0	110.0	111.1	113.2	115.8	117.9	120.5
162.5°	106.9	106.9	107.4	107.9	109.0	109.5	110.0	112.1	113.7	115.8	117.9
165°	107.4	107.4	107.4	107.9	108.5	109.0	109.5	110.6	112.1	113.7	115.3
167.5°	107.9	107.9	107.9	107.9	108.5	108.5	109.0	109.5	110.6	111.6	112.7
170°	108.5	107.9	107.9	108.5	107.9	107.9	108.5	109.0	109.0	110.0	110.6
172.5°	108.5	108.5	107.9	107.9	107.9	107.9	107.9	107.9	107.9	108.5	109.0
175°	108.5	108.5	107.9	107.9	107.9	107.4	107.4	107.4	107.4	107.4	107.4
177.5°	108.5	108.5	107.9	107.9	107.4	107.4	107.4	107.4	107.4	107.4	107.4
180°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3	619.3
2.5°	623.5	620.9	619.8	619.3	618.8	618.3	617.2	616.2	615.1	615.1
5°	620.9	618.3	617.2	616.7	616.2	615.7	615.1	615.1	615.1	615.1
7.5°	616.7	614.1	613.0	612.5	612.5	612.0	612.0	612.0	611.5	612.0
10°	610.4	607.8	607.3	606.7	606.2	605.2	605.2	605.2	604.6	605.2
12.5°	602.6	599.9	599.4	598.9	598.4	597.8	597.8	597.3	597.3	597.8
15°	594.7	591.0	590.0	590.0	589.5	588.9	589.5	588.9	588.9	588.9
17.5°	583.2	581.6	580.0	579.0	578.4	577.9	577.9	577.4	577.4	577.4
20°	568.0	568.0	568.0	565.4	564.8	564.3	564.3	564.3	564.3	564.3
22.5°	553.3	550.7	552.8	551.2	550.2	549.1	549.6	549.6	549.6	549.6
25°	537.1	535.0	535.5	536.0	535.0	533.4	533.4	533.4	533.4	532.9
27.5°	519.8	518.2	517.7	518.2	519.2	518.2	516.6	515.1	515.6	515.6
30°	500.9	500.4	499.9	498.8	499.9	500.4	497.8	497.2	497.2	497.2
32.5°	482.0	481.5	479.9	478.9	479.4	480.5	479.4	478.4	478.4	478.4
35°	463.2	461.1	459.5	459.0	459.0	460.0	459.5	457.9	457.9	457.9
37.5°	441.2	441.7	439.1	438.6	438.6	438.6	439.6	437.0	437.5	437.0
40°	419.7	420.2	418.6	417.1	417.6	416.5	418.1	415.5	415.5	415.5
42.5°	398.2	397.2	397.7	394.5	395.1	395.1	395.6	394.0	393.5	393.0
45°	376.2	375.2	374.6	373.1	373.1	372.5	372.5	370.4	370.4	370.4
47.5°	353.1	352.6	351.6	350.5	350.5	350.0	349.0	348.4	347.9	347.9
50°	331.1	329.6	328.0	328.5	328.0	327.5	326.4	325.9	325.4	324.9
52.5°	307.6	307.6	305.5	305.5	305.5	304.9	303.9	302.8	302.8	302.3
55°	284.5	284.0	282.4	281.9	282.4	281.9	280.8	279.8	279.8	279.3
57.5°	261.5	260.4	259.9	259.9	259.4	259.4	257.8	256.7	257.3	256.7
60°	237.9	237.9	237.4	236.8	236.8	236.3	234.7	234.7	234.7	234.2
62.5°	215.3	215.3	214.3	213.8	214.3	213.8	213.3	212.7	212.2	211.7
65°	191.8	192.3	191.2	191.8	191.8	190.7	190.7	190.2	190.2	189.7
67.5°	169.8	169.8	169.2	169.2	169.8	169.2	169.2	168.7	168.7	168.2
70°	147.2	148.3	147.8	147.8	147.8	147.2	147.2	147.2	146.7	147.2
72.5°	124.7	124.7	124.7	124.7	124.7	125.2	125.2	125.2	125.2	124.7
75°	103.7	104.3	103.7	104.3	104.8	104.8	104.8	104.8	105.3	104.8
77.5°	83.3	83.8	83.8	84.9	84.9	84.9	85.4	85.4	85.4	85.4
80°	63.9	64.4	65.0	66.0	66.0	67.1	67.6	67.6	67.6	67.6
82.5°	46.1	47.7	48.2	49.8	50.3	50.3	51.3	51.9	51.9	51.9
85°	32.0	33.5	34.6	35.6	36.7	36.7	37.7	37.7	38.2	38.2
87.5°	19.9	21.5	22.5	24.1	24.6	25.1	25.7	26.2	26.7	26.7
90°	11.0	12.1	13.1	14.1	14.1	14.7	15.2	15.7	16.2	16.2
92.5°	7.9	8.4	9.4	10.0	10.0	10.5	11.0	11.0	11.5	11.5
95°	8.9	9.4	9.4	10.0	10.0	10.0	10.5	10.5	10.5	10.5
97.5°	13.6	13.6	13.6	13.1	13.1	13.1	13.1	13.1	13.1	13.1
100°	17.8	18.3	18.3	18.3	18.9	18.9	18.9	18.9	18.3	18.3
102.5°	19.9	20.4	21.0	21.5	21.5	21.5	22.0	22.0	22.0	22.0
105°	22.5	22.5	23.1	23.6	23.6	23.6	24.1	24.1	24.1	24.1
107.5°	25.7	25.7	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
110°	29.3	29.3	29.3	28.8	29.3	28.8	28.8	28.8	28.8	28.8





TEST NUMBER: P395809

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	33.5	33.0	33.0	32.5	32.5	32.5	32.0	32.0	32.0	32.0
115°	40.3	37.7	36.7	35.6	35.6	35.6	35.1	35.1	35.1	35.1
117.5°	48.7	45.1	43.0	40.9	40.3	39.8	38.8	38.8	38.2	38.2
120°	57.6	54.0	50.8	48.2	47.2	46.6	45.1	44.0	43.0	43.0
122.5°	66.0	62.4	59.2	56.6	55.5	54.5	52.9	51.9	50.8	50.8
125°	74.4	70.7	67.6	65.0	63.4	62.4	60.8	59.7	58.7	58.7
127.5°	83.3	78.6	75.4	72.8	71.3	70.7	68.6	67.6	66.5	66.5
130°	93.3	87.5	83.3	80.2	79.1	78.1	76.5	75.4	74.4	74.4
132.5°	103.2	97.5	92.7	88.5	87.0	85.9	83.8	82.8	81.7	81.7
135°	112.7	107.4	102.7	98.5	96.9	95.4	93.3	91.2	90.1	90.1
137.5°	120.0	116.3	112.1	108.5	106.9	105.3	103.2	101.1	99.6	100.1
140°	126.3	123.1	120.5	117.9	116.3	115.3	113.2	111.6	110.0	110.0
142.5°	132.0	129.4	126.8	124.7	124.2	123.7	122.1	120.5	119.5	119.5
145°	137.3	135.7	133.6	131.0	130.5	129.9	128.4	127.3	126.8	126.8
147.5°	138.8	139.4	138.8	137.3	136.8	136.2	135.2	134.1	133.6	133.6
150°	137.8	139.9	140.9	140.9	140.9	140.9	140.9	139.9	139.4	139.4
152.5°	134.7	137.8	139.9	141.5	142.0	142.5	142.5	143.0	142.5	142.5
155°	131.0	134.1	137.3	138.8	139.9	140.4	141.5	142.0	142.5	142.0
157.5°	126.8	129.4	131.5	134.7	135.7	136.8	137.8	138.8	139.4	138.8
160°	123.1	125.2	126.8	128.9	129.4	130.5	131.5	132.0	133.1	132.6
162.5°	119.5	121.0	122.6	123.7	124.7	125.2	126.3	126.8	127.3	126.8
165°	116.8	117.9	118.4	119.5	120.0	120.5	121.0	121.6	121.6	121.6
167.5°	113.7	114.7	115.3	115.8	116.3	116.8	116.8	117.4	117.4	117.4
170°	111.1	111.6	112.1	112.7	112.7	113.2	113.2	113.2	113.7	113.2
172.5°	109.0	109.0	109.0	109.5	109.5	109.5	109.5	109.5	109.5	109.0
175°	107.9	107.9	107.4	107.4	107.4	107.4	107.4	106.9	106.4	105.8
177.5°	107.4	106.9	106.9	106.4	106.4	106.4	105.8	105.3	104.8	104.3
180°	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9

(END OF REPORT)