

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: P395808

Luminaire Tested: **I3-WL-20L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395808
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 (5700K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2047.9 lumens
Efficiency: N/A
Efficacy: 117.0 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

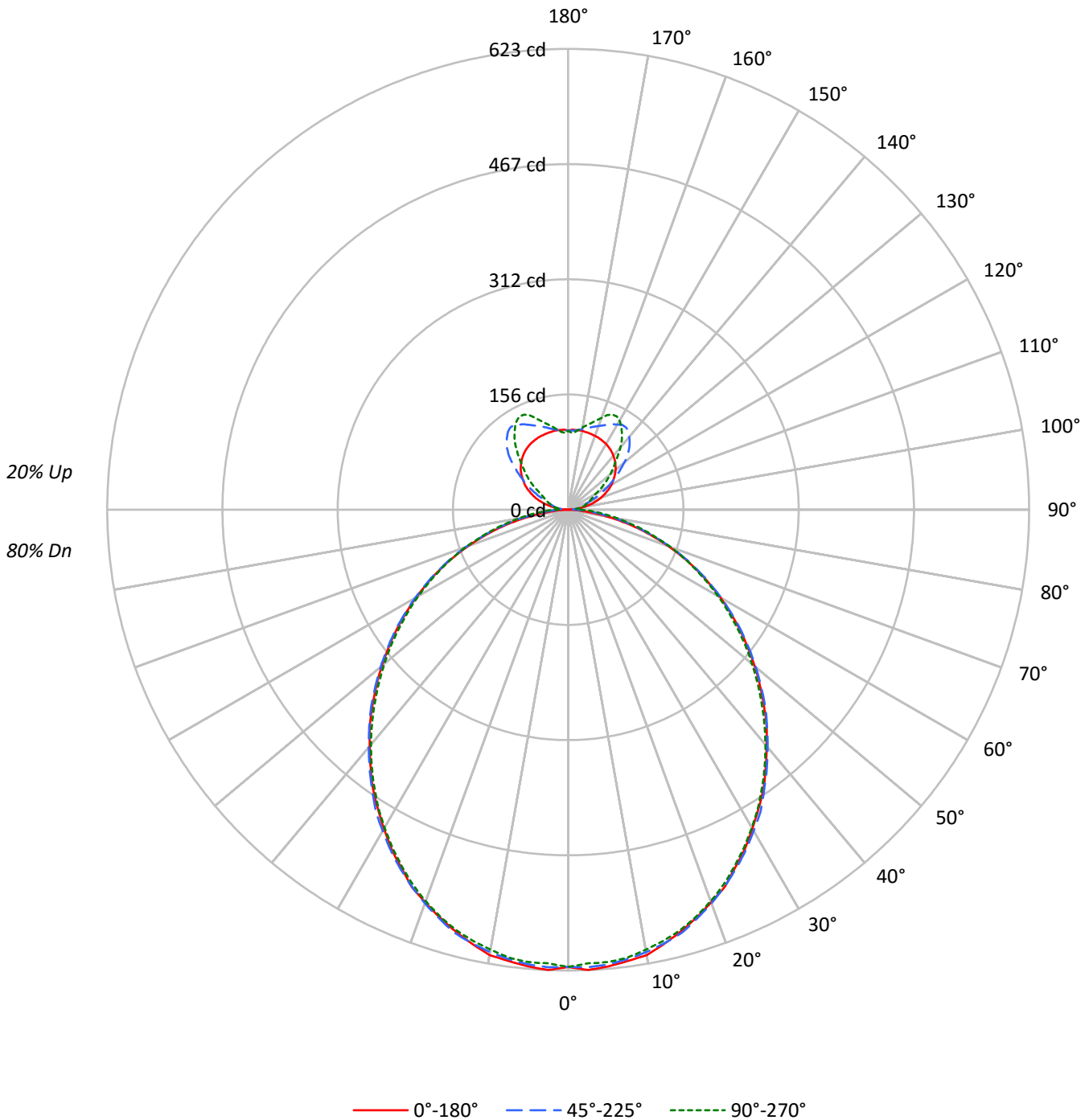
Input Watts (W): 17.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3397	3397	3397
5°	3406	3327	3291
10°	3386	3237	3184
15°	3319	3147	3071
20°	3253	3021	2938
25°	3175	2892	2791
30°	3084	2759	2642
35°	2999	2612	2487
40°	2891	2460	2325
45°	2788	2312	2155
50°	2677	2150	1984
55°	2560	1983	1809
60°	2431	1799	1629
65°	2281	1599	1436
70°	2069	1365	1233
75°	1783	1082	990
80°	1359	779	739
85°	709	465	501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	2.9
10°-20°	165.7	8.1
20°-30°	245.3	12.0
30°-40°	286.7	14.0
40°-50°	287.9	14.1
50°-60°	253.1	12.4
60°-70°	189.6	9.3
70°-80°	107.8	5.3
80°-90°	34.0	1.7
90°-100°	12.3	0.6
100°-110°	29.9	1.5
110°-120°	49.7	2.4
120°-130°	69.7	3.4
130°-140°	80.3	3.9
140°-150°	76.7	3.7
150°-160°	57.7	2.8
160°-170°	32.7	1.6
170°-180°	10.3	0.5
0°-30°	469.3	22.9
0°-40°	756.0	36.9
0°-60°	1297.0	63.3
0°-90°	1628.5	79.5
90°-120°	91.9	4.5
90°-150°	318.6	15.6
90°-180°	419.0	20.5
0°-180°	2047.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	620	613	617	615	614	59
15°	590	585	592	588	588	166
25°	534	532	536	534	532	246
35°	460	456	462	458	457	287
45°	374	373	376	372	370	289
55°	283	284	286	282	279	253
65°	191	192	193	191	189	189
75°	97	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°	99	113	136	130	127	62
155°	105	111	127	140	142	48
165°	107	109	115	120	121	30
175°	108	107	107	107	106	10
180°	107	107	107	107	107	



TEST NUMBER: P395808

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
2.5°	622.8	621.8	619.2	616.6	616.0	615.5	615.5	615.0	615.0	616.0	619.2
5°	619.7	619.2	616.6	613.9	613.4	613.4	612.9	612.9	612.9	613.9	617.1
7.5°	615.5	614.5	611.9	609.2	608.7	608.7	608.7	608.2	608.7	609.2	612.9
10°	611.3	610.8	608.2	605.1	604.0	604.0	603.5	602.4	602.4	603.5	607.2
12.5°	600.9	600.4	597.7	595.6	595.6	596.2	596.2	596.7	596.7	597.7	600.4
15°	589.9	589.4	586.8	584.7	584.7	584.7	584.1	584.1	584.7	587.8	592.5
17.5°	577.9	577.3	575.3	573.2	573.2	573.2	572.6	572.6	573.2	574.7	579.4
20°	564.8	564.3	562.2	560.1	560.1	560.1	559.6	560.1	560.1	562.2	566.4
22.5°	552.2	551.2	548.6	546.5	545.4	545.4	545.4	544.9	546.0	547.5	551.7
25°	533.9	533.4	532.4	530.8	531.8	532.4	531.3	530.3	530.3	532.4	536.0
27.5°	517.2	516.2	514.6	513.0	512.0	512.5	513.0	514.1	515.6	516.2	519.3
30°	497.9	497.3	495.8	493.7	494.2	494.7	494.7	494.7	495.8	500.5	501.5
32.5°	479.0	478.5	476.9	474.8	475.4	475.9	475.4	475.9	476.9	479.0	483.7
35°	460.2	459.2	457.6	457.1	456.5	456.5	456.5	457.1	457.6	459.2	461.8
37.5°	438.8	437.7	436.7	435.1	436.1	437.2	437.7	437.2	437.7	439.8	440.9
40°	417.3	416.8	415.7	414.7	415.2	415.7	415.2	416.8	417.8	418.9	419.4
42.5°	396.9	395.9	394.8	394.3	394.3	394.8	394.8	395.9	395.9	398.5	398.0
45°	373.9	373.4	372.9	372.9	373.4	373.4	373.4	373.9	374.4	376.0	376.5
47.5°	351.4	350.9	350.9	350.9	350.9	351.4	351.9	353.5	352.5	353.0	353.5
50°	328.9	328.4	328.4	328.4	329.5	329.5	330.5	331.0	331.6	330.5	331.0
52.5°	305.9	305.4	306.5	306.5	307.5	307.5	309.1	307.5	308.5	308.0	308.0
55°	283.4	282.9	284.0	283.4	284.5	284.5	285.5	286.1	285.5	285.5	285.5
57.5°	260.4	259.9	260.4	261.0	261.5	261.5	263.0	263.0	261.5	262.5	262.0
60°	237.4	236.9	237.4	237.9	238.5	238.5	239.0	237.9	239.0	239.5	239.0
62.5°	214.4	213.9	214.9	214.4	214.9	215.5	215.5	217.0	216.5	216.5	216.0
65°	191.4	190.9	190.9	190.9	191.4	191.9	192.4	193.0	193.0	193.5	193.0
67.5°	167.9	167.3	167.9	167.3	167.9	168.4	169.4	170.0	170.0	170.5	170.0
70°	143.8	144.3	143.8	144.3	144.9	145.4	145.9	147.0	147.0	147.0	147.0
72.5°	120.3	119.8	119.8	119.2	120.3	120.8	121.3	122.9	122.9	123.4	123.4
75°	97.3	96.2	96.7	96.2	98.3	98.8	98.8	100.4	100.9	102.0	101.5
77.5°	74.8	74.8	73.7	75.3	75.8	76.9	77.9	79.0	79.5	81.1	81.1
80°	53.3	53.3	52.8	53.9	56.0	56.5	58.0	58.6	60.1	61.2	61.7
82.5°	34.0	34.0	34.0	35.6	37.1	37.7	39.2	40.8	41.8	43.4	43.9
85°	16.7	17.8	17.8	19.9	20.9	22.0	22.5	24.6	26.1	28.2	29.8
87.5°	5.2	5.8	6.3	7.3	9.4	9.9	11.0	13.1	14.6	16.7	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	7.8	8.9	8.9	9.4	8.9	8.9	8.9	8.9
97.5°	14.6	26.1	17.3	12.0	11.5	12.0	12.0	13.1	13.6	14.1	14.1
100°	21.4	32.9	30.3	19.9	16.2	15.7	15.7	15.7	16.2	16.7	17.3
102.5°	28.2	37.7	43.4	30.9	23.0	20.9	19.9	19.3	18.8	19.3	19.3
105°	35.0	42.4	53.3	41.8	32.9	29.8	26.7	23.0	22.5	22.5	22.5
107.5°	41.3	47.1	60.7	54.4	42.9	39.7	36.1	30.3	26.7	26.1	25.6
110°	47.1	51.8	65.9	64.8	53.9	49.2	46.0	39.7	34.5	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°	52.3	56.5	69.6	73.7	65.9	60.1	55.4	49.2	43.4	38.7	35.0
115°	57.5	61.2	72.7	81.1	76.4	71.6	66.4	58.6	52.8	48.1	43.9
117.5°	62.8	65.9	75.8	86.3	85.2	82.1	77.9	68.5	61.7	57.0	52.3
120°	67.5	70.6	79.0	89.9	93.1	90.5	87.9	79.5	71.1	65.9	61.7
122.5°	71.6	74.3	82.1	93.1	98.8	98.3	95.7	89.9	81.6	75.3	70.1
125°	75.8	78.4	85.2	95.2	103.0	104.6	103.5	98.8	92.6	85.2	79.0
127.5°	80.0	82.1	88.4	97.3	106.2	109.3	109.8	106.7	102.0	95.7	88.9
130°	83.7	85.8	91.0	98.8	108.3	111.9	114.0	113.5	109.8	105.6	98.8
132.5°	86.8	88.4	93.6	100.4	109.3	113.5	116.6	119.2	116.6	113.5	108.8
135°	89.9	91.5	95.7	102.0	109.8	114.0	118.2	122.4	122.9	120.3	116.6
137.5°	92.6	93.6	97.8	103.0	109.8	114.0	118.2	123.9	127.1	126.0	122.9
140°	95.2	96.2	99.4	104.6	110.3	114.0	117.7	124.5	128.6	130.2	128.6
142.5°	97.3	98.3	100.9	105.6	110.3	113.5	117.1	123.4	129.2	132.3	133.4
145°	99.4	99.9	102.5	106.2	110.3	113.0	116.1	122.4	128.1	132.8	136.0
147.5°	100.9	101.5	103.0	106.7	110.3	112.4	115.1	120.3	126.0	131.3	136.0
150°	102.5	102.5	104.1	106.7	110.3	111.9	114.0	118.7	123.4	128.6	132.8
152.5°	103.5	103.5	105.1	107.2	109.8	111.4	113.5	117.1	121.3	126.0	130.2
155°	104.6	104.6	105.6	107.2	109.8	110.9	112.4	115.6	119.2	122.9	126.6
157.5°	105.6	105.6	106.2	107.7	109.3	110.3	111.9	114.5	117.1	120.3	123.4
160°	106.2	106.2	106.7	107.7	108.8	109.8	110.9	113.0	115.6	117.7	120.3
162.5°	106.7	106.7	107.2	107.7	108.8	109.3	109.8	111.9	113.5	115.6	117.7
165°	107.2	107.2	107.2	107.7	108.3	108.8	109.3	110.3	111.9	113.5	115.1
167.5°	107.7	107.7	107.7	107.7	108.3	108.3	108.8	109.3	110.3	111.4	112.4
170°	108.3	107.7	107.7	108.3	107.7	107.7	108.3	108.8	108.8	109.8	110.3
172.5°	108.3	108.3	107.7	107.7	107.7	107.7	107.7	107.7	107.7	108.3	108.8
175°	108.3	108.3	107.7	107.7	107.7	107.2	107.2	107.2	107.2	107.2	107.2
177.5°	108.3	108.3	107.7	107.7	107.2	107.2	107.2	107.2	107.2	107.2	107.2
180°	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1	618.1
2.5°	622.3	619.7	618.7	618.1	617.6	617.1	616.0	615.0	613.9	613.9
5°	619.7	617.1	616.0	615.5	615.0	614.5	613.9	613.9	613.9	613.9
7.5°	615.5	612.9	611.9	611.3	611.3	610.8	610.8	610.8	610.3	610.8
10°	609.2	606.6	606.1	605.6	605.1	604.0	604.0	604.0	603.5	604.0
12.5°	601.4	598.8	598.3	597.7	597.2	596.7	596.7	596.2	596.2	596.7
15°	593.6	589.9	588.8	588.8	588.3	587.8	588.3	587.8	587.8	587.8
17.5°	582.0	580.5	578.9	577.9	577.3	576.8	576.8	576.3	576.3	576.3
20°	566.9	566.9	566.9	564.3	563.7	563.2	563.2	563.2	563.2	563.2
22.5°	552.2	549.6	551.7	550.1	549.1	548.1	548.6	548.6	548.6	548.6
25°	536.0	533.9	534.5	535.0	533.9	532.4	532.4	532.4	532.4	531.8
27.5°	518.8	517.2	516.7	517.2	518.2	517.2	515.6	514.1	514.6	514.6
30°	499.9	499.4	498.9	497.9	498.9	499.4	496.8	496.3	496.3	496.3
32.5°	481.1	480.6	479.0	478.0	478.5	479.5	478.5	477.5	477.5	477.5
35°	462.3	460.2	458.6	458.1	458.1	459.2	458.6	457.1	457.1	457.1
37.5°	440.3	440.9	438.2	437.7	437.7	437.7	438.8	436.1	436.7	436.1
40°	418.9	419.4	417.8	416.3	416.8	415.7	417.3	414.7	414.7	414.7
42.5°	397.4	396.4	396.9	393.8	394.3	394.3	394.8	393.3	392.7	392.2
45°	375.5	374.4	373.9	372.3	372.3	371.8	371.8	369.7	369.7	369.7
47.5°	352.5	351.9	350.9	349.9	349.9	349.3	348.3	347.8	347.2	347.2
50°	330.5	328.9	327.4	327.9	327.4	326.8	325.8	325.3	324.8	324.2
52.5°	307.0	307.0	304.9	304.9	304.9	304.4	303.3	302.3	302.3	301.7
55°	284.0	283.4	281.9	281.3	281.9	281.3	280.3	279.3	279.3	278.7
57.5°	261.0	259.9	259.4	259.4	258.9	258.9	257.3	256.2	256.8	256.2
60°	237.4	237.4	236.9	236.4	236.4	235.9	234.3	234.3	234.3	233.8
62.5°	214.9	214.9	213.9	213.4	213.9	213.4	212.8	212.3	211.8	211.3
65°	191.4	191.9	190.9	191.4	191.4	190.4	190.4	189.8	189.8	189.3
67.5°	169.4	169.4	168.9	168.9	169.4	168.9	168.9	168.4	168.4	167.9
70°	147.0	148.0	147.5	147.5	147.5	147.0	147.0	147.0	146.4	147.0
72.5°	124.5	124.5	124.5	124.5	124.5	125.0	125.0	125.0	125.0	124.5
75°	103.5	104.1	103.5	104.1	104.6	104.6	104.6	104.6	105.1	104.6
77.5°	83.1	83.7	83.7	84.7	84.7	84.7	85.2	85.2	85.2	85.2
80°	63.8	64.3	64.8	65.9	65.9	66.9	67.5	67.5	67.5	67.5
82.5°	46.0	47.6	48.1	49.7	50.2	50.2	51.2	51.8	51.8	51.8
85°	31.9	33.5	34.5	35.6	36.6	36.6	37.7	37.7	38.2	38.2
87.5°	19.9	21.4	22.5	24.1	24.6	25.1	25.6	26.1	26.7	26.7
90°	11.0	12.0	13.1	14.1	14.1	14.6	15.2	15.7	16.2	16.2
92.5°	7.8	8.4	9.4	9.9	9.9	10.5	11.0	11.0	11.5	11.5
95°	8.9	9.4	9.4	9.9	9.9	9.9	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	18.8	18.8	18.8	18.8	18.3	18.3
102.5°	19.9	20.4	20.9	21.4	21.4	21.4	22.0	22.0	22.0	22.0
105°	22.5	22.5	23.0	23.5	23.5	23.5	24.1	24.1	24.1	24.1
107.5°	25.6	25.6	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
110°	29.3	29.3	29.3	28.8	29.3	28.8	28.8	28.8	28.8	28.8



TEST NUMBER: P395808

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	33.5	32.9	32.9	32.4	32.4	32.4	31.9	31.9	31.9	31.9
115°	40.3	37.7	36.6	35.6	35.6	35.6	35.0	35.0	35.0	35.0
117.5°	48.6	45.0	42.9	40.8	40.3	39.7	38.7	38.7	38.2	38.2
120°	57.5	53.9	50.7	48.1	47.1	46.5	45.0	43.9	42.9	42.9
122.5°	65.9	62.2	59.1	56.5	55.4	54.4	52.8	51.8	50.7	50.7
125°	74.3	70.6	67.5	64.8	63.3	62.2	60.7	59.6	58.6	58.6
127.5°	83.1	78.4	75.3	72.7	71.1	70.6	68.5	67.5	66.4	66.4
130°	93.1	87.3	83.1	80.0	79.0	77.9	76.4	75.3	74.3	74.3
132.5°	103.0	97.3	92.6	88.4	86.8	85.8	83.7	82.6	81.6	81.6
135°	112.4	107.2	102.5	98.3	96.7	95.2	93.1	91.0	89.9	89.9
137.5°	119.8	116.1	111.9	108.3	106.7	105.1	103.0	100.9	99.4	99.9
140°	126.0	122.9	120.3	117.7	116.1	115.1	113.0	111.4	109.8	109.8
142.5°	131.8	129.2	126.6	124.5	123.9	123.4	121.8	120.3	119.2	119.2
145°	137.0	135.4	133.4	130.7	130.2	129.7	128.1	127.1	126.6	126.6
147.5°	138.6	139.1	138.6	137.0	136.5	136.0	134.9	133.9	133.4	133.4
150°	137.5	139.6	140.7	140.7	140.7	140.7	140.7	139.6	139.1	139.1
152.5°	134.4	137.5	139.6	141.2	141.7	142.2	142.2	142.8	142.2	142.2
155°	130.7	133.9	137.0	138.6	139.6	140.2	141.2	141.7	142.2	141.7
157.5°	126.6	129.2	131.3	134.4	135.4	136.5	137.5	138.6	139.1	138.6
160°	122.9	125.0	126.6	128.6	129.2	130.2	131.3	131.8	132.8	132.3
162.5°	119.2	120.8	122.4	123.4	124.5	125.0	126.0	126.6	127.1	126.6
165°	116.6	117.7	118.2	119.2	119.8	120.3	120.8	121.3	121.3	121.3
167.5°	113.5	114.5	115.1	115.6	116.1	116.6	116.6	117.1	117.1	117.1
170°	110.9	111.4	111.9	112.4	112.4	113.0	113.0	113.0	113.5	113.0
172.5°	108.8	108.8	108.8	109.3	109.3	109.3	109.3	109.3	109.3	108.8
175°	107.7	107.7	107.2	107.2	107.2	107.2	107.2	106.7	106.2	105.6
177.5°	107.2	106.7	106.7	106.2	106.2	106.2	105.6	105.1	104.6	104.1
180°	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7	106.7

(END OF REPORT)