

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: P395821

Luminaire Tested: **I3-WL-20L92765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395821  
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-20L92765-1D-UNV-W2A-W-4 (5700K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1851.5 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

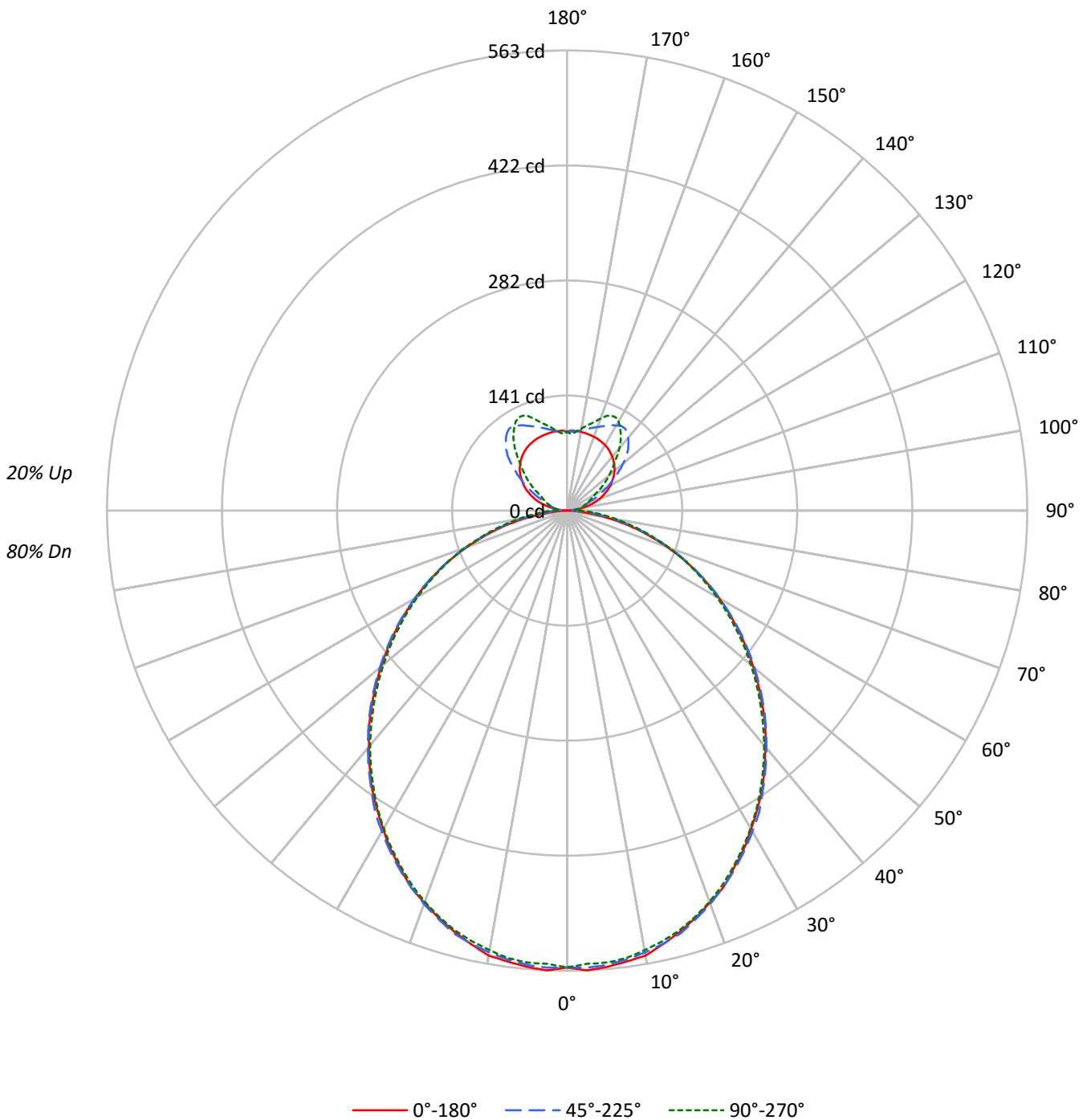
Input Watts (W): 17.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5700K)

### 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°	3072	3072	3072
5°	3080	3008	2976
10°	3062	2926	2879
15°	3000	2846	2776
20°	2941	2731	2656
25°	2870	2615	2524
30°	2788	2495	2388
35°	2711	2362	2248
40°	2614	2225	2102
45°	2521	2090	1949
50°	2420	1944	1794
55°	2315	1793	1636
60°	2198	1627	1473
65°	2063	1446	1298
70°	1870	1234	1115
75°	1611	978	895
80°	1229	704	668
85°	641	422	452



TEST NUMBER: P395821

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.8	2.9
10°-20°	149.8	8.1
20°-30°	221.8	12.0
30°-40°	259.2	14.0
40°-50°	260.3	14.1
50°-60°	228.8	12.4
60°-70°	171.4	9.3
70°-80°	97.5	5.3
80°-90°	30.8	1.7
90°-100°	11.1	0.6
100°-110°	27.0	1.5
110°-120°	44.9	2.4
120°-130°	63.0	3.4
130°-140°	72.6	3.9
140°-150°	69.4	3.7
150°-160°	52.2	2.8
160°-170°	29.5	1.6
170°-180°	9.3	0.5
0°-30°	424.3	22.9
0°-40°	683.5	36.9
0°-60°	1172.7	63.3
0°-90°	1472.4	79.5
90°-120°	83.1	4.5
90°-150°	288.1	15.6
90°-180°	379.0	20.5
0°-180°	1851.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	560	555	558	556	555	53
15°	533	529	536	532	531	150
25°	483	481	485	483	481	222
35°	416	413	418	414	413	260
45°	338	338	340	337	334	261
55°	256	257	258	255	252	229
65°	173	174	174	173	171	171
75°	88	89	92	95	95	93
85°	15	20	27	33	34	20
90°	0	3	8	13	15	1
95°	8	8	8	9	10	9
105°	32	27	20	21	22	33
115°	52	65	40	32	32	51
125°	69	95	71	57	53	61
135°	81	103	105	88	81	63
145°	90	102	123	118	114	56
155°	95	100	114	126	128	44
165°	97	98	104	108	110	27
175°	98	97	97	97	96	9
180°	96	96	96	96	96	



TEST NUMBER: P395821

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9
2.5°	563.1	562.2	559.8	557.4	557.0	556.5	556.5	556.0	556.0	557.0	559.8
5°	560.3	559.8	557.4	555.1	554.6	554.6	554.1	554.1	554.1	555.1	557.9
7.5°	556.5	555.6	553.2	550.8	550.4	550.4	550.4	549.9	550.4	550.8	554.1
10°	552.7	552.2	549.9	547.0	546.1	546.1	545.6	544.7	544.7	545.6	548.9
12.5°	543.3	542.8	540.4	538.5	538.5	539.0	539.0	539.5	539.5	540.4	542.8
15°	533.3	532.9	530.5	528.6	528.6	528.6	528.1	528.1	528.6	531.4	535.7
17.5°	522.5	522.0	520.1	518.2	518.2	518.2	517.7	517.7	518.2	519.6	523.9
20°	510.6	510.2	508.3	506.4	506.4	506.4	505.9	506.4	506.4	508.3	512.1
22.5°	499.3	498.3	496.0	494.1	493.1	493.1	493.1	492.7	493.6	495.0	498.8
25°	482.7	482.3	481.3	479.9	480.9	481.3	480.4	479.4	479.4	481.3	484.6
27.5°	467.6	466.7	465.3	463.8	462.9	463.4	463.8	464.8	466.2	466.7	469.5
30°	450.1	449.6	448.2	446.3	446.8	447.3	447.3	447.3	448.2	452.5	453.4
32.5°	433.1	432.6	431.2	429.3	429.8	430.3	429.8	430.3	431.2	433.1	437.4
35°	416.1	415.1	413.7	413.2	412.8	412.8	412.8	413.2	413.7	415.1	417.5
37.5°	396.7	395.7	394.8	393.4	394.3	395.3	395.7	395.3	395.7	397.6	398.6
40°	377.3	376.8	375.9	374.9	375.4	375.9	375.4	376.8	377.8	378.7	379.2
42.5°	358.9	357.9	357.0	356.5	356.5	357.0	357.0	357.9	357.9	360.3	359.8
45°	338.1	337.6	337.1	337.1	337.6	337.6	337.6	338.1	338.5	340.0	340.4
47.5°	317.7	317.3	317.3	317.3	317.3	317.7	318.2	319.6	318.7	319.2	319.6
50°	297.4	296.9	296.9	296.9	297.9	297.9	298.8	299.3	299.8	298.8	299.3
52.5°	276.6	276.1	277.1	277.1	278.0	278.0	279.4	278.0	279.0	278.5	278.5
55°	256.3	255.8	256.7	256.3	257.2	257.2	258.2	258.6	258.2	258.2	258.2
57.5°	235.5	235.0	235.5	235.9	236.4	236.4	237.8	237.8	236.4	237.4	236.9
60°	214.7	214.2	214.7	215.1	215.6	215.6	216.1	215.1	216.1	216.5	216.1
62.5°	193.9	193.4	194.3	193.9	194.3	194.8	194.8	196.2	195.7	195.7	195.3
65°	173.1	172.6	172.6	172.6	173.1	173.5	174.0	174.5	174.5	174.9	174.5
67.5°	151.8	151.3	151.8	151.3	151.8	152.2	153.2	153.7	153.7	154.1	153.7
70°	130.0	130.5	130.0	130.5	131.0	131.4	131.9	132.9	132.9	132.9	132.9
72.5°	108.7	108.3	108.3	107.8	108.7	109.2	109.7	111.1	111.1	111.6	111.6
75°	87.9	87.0	87.5	87.0	88.9	89.4	89.4	90.8	91.3	92.2	91.7
77.5°	67.6	67.6	66.7	68.1	68.6	69.5	70.4	71.4	71.9	73.3	73.3
80°	48.2	48.2	47.8	48.7	50.6	51.1	52.5	53.0	54.4	55.3	55.8
82.5°	30.7	30.7	30.7	32.2	33.6	34.0	35.5	36.9	37.8	39.2	39.7
85°	15.1	16.1	16.1	18.0	18.9	19.9	20.3	22.2	23.6	25.5	27.0
87.5°	4.7	5.2	5.7	6.6	8.5	9.0	9.9	11.8	13.2	15.1	16.5
90°	0.5	0.5	0.9	1.4	2.4	2.8	3.8	4.7	6.1	7.6	8.5
92.5°	3.3	3.3	3.8	3.8	3.8	3.8	3.8	4.3	4.7	5.7	6.1
95°	8.0	12.8	7.6	7.1	8.0	8.0	8.5	8.0	8.0	8.0	8.0
97.5°	13.2	23.6	15.6	10.9	10.4	10.9	10.9	11.8	12.3	12.8	12.8
100°	19.4	29.8	27.4	18.0	14.7	14.2	14.2	14.2	14.7	15.1	15.6
102.5°	25.5	34.0	39.2	27.9	20.8	18.9	18.0	17.5	17.0	17.5	17.5
105°	31.7	38.3	48.2	37.8	29.8	27.0	24.1	20.8	20.3	20.3	20.3
107.5°	37.4	42.6	54.8	49.2	38.8	35.9	32.6	27.4	24.1	23.6	23.2
110°	42.6	46.8	59.6	58.6	48.7	44.4	41.6	35.9	31.2	27.9	26.5



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CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	47.3	51.1	62.9	66.7	59.6	54.4	50.1	44.4	39.2	35.0	31.7
115°	52.0	55.3	65.7	73.3	69.0	64.8	60.0	53.0	47.8	43.5	39.7
117.5°	56.7	59.6	68.6	78.0	77.1	74.2	70.4	61.9	55.8	51.5	47.3
120°	61.0	63.8	71.4	81.3	84.2	81.8	79.4	71.9	64.3	59.6	55.8
122.5°	64.8	67.1	74.2	84.2	89.4	88.9	86.5	81.3	73.8	68.1	63.4
125°	68.6	70.9	77.1	86.1	93.1	94.6	93.6	89.4	83.7	77.1	71.4
127.5°	72.3	74.2	79.9	87.9	96.0	98.8	99.3	96.5	92.2	86.5	80.4
130°	75.7	77.5	82.3	89.4	97.9	101.2	103.1	102.6	99.3	95.5	89.4
132.5°	78.5	79.9	84.6	90.8	98.8	102.6	105.4	107.8	105.4	102.6	98.3
135°	81.3	82.7	86.5	92.2	99.3	103.1	106.9	110.6	111.1	108.7	105.4
137.5°	83.7	84.6	88.4	93.1	99.3	103.1	106.9	112.1	114.9	113.9	111.1
140°	86.1	87.0	89.8	94.6	99.8	103.1	106.4	112.5	116.3	117.7	116.3
142.5°	87.9	88.9	91.3	95.5	99.8	102.6	105.9	111.6	116.8	119.6	120.6
145°	89.8	90.3	92.7	96.0	99.8	102.1	105.0	110.6	115.8	120.1	122.9
147.5°	91.3	91.7	93.1	96.5	99.8	101.7	104.0	108.7	113.9	118.7	122.9
150°	92.7	92.7	94.1	96.5	99.8	101.2	103.1	107.3	111.6	116.3	120.1
152.5°	93.6	93.6	95.0	96.9	99.3	100.7	102.6	105.9	109.7	113.9	117.7
155°	94.6	94.6	95.5	96.9	99.3	100.2	101.7	104.5	107.8	111.1	114.4
157.5°	95.5	95.5	96.0	97.4	98.8	99.8	101.2	103.5	105.9	108.7	111.6
160°	96.0	96.0	96.5	97.4	98.3	99.3	100.2	102.1	104.5	106.4	108.7
162.5°	96.5	96.5	96.9	97.4	98.3	98.8	99.3	101.2	102.6	104.5	106.4
165°	96.9	96.9	96.9	97.4	97.9	98.3	98.8	99.8	101.2	102.6	104.0
167.5°	97.4	97.4	97.4	97.4	97.9	97.9	98.3	98.8	99.8	100.7	101.7
170°	97.9	97.4	97.4	97.9	97.4	97.4	97.9	98.3	98.3	99.3	99.8
172.5°	97.9	97.9	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.9	98.3
175°	97.9	97.9	97.4	97.4	97.4	96.9	96.9	96.9	96.9	96.9	96.9
177.5°	97.9	97.9	97.4	97.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9
180°	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5



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CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9	558.9
2.5°	562.7	560.3	559.3	558.9	558.4	557.9	557.0	556.0	555.1	555.1
5°	560.3	557.9	557.0	556.5	556.0	555.6	555.1	555.1	555.1	555.1
7.5°	556.5	554.1	553.2	552.7	552.7	552.2	552.2	552.2	551.8	552.2
10°	550.8	548.5	548.0	547.5	547.0	546.1	546.1	546.1	545.6	546.1
12.5°	543.7	541.4	540.9	540.4	540.0	539.5	539.5	539.0	539.0	539.5
15°	536.6	533.3	532.4	532.4	531.9	531.4	531.9	531.4	531.4	531.4
17.5°	526.2	524.8	523.4	522.5	522.0	521.5	521.5	521.0	521.0	521.0
20°	512.5	512.5	512.5	510.2	509.7	509.2	509.2	509.2	509.2	509.2
22.5°	499.3	496.9	498.8	497.4	496.5	495.5	496.0	496.0	496.0	496.0
25°	484.6	482.7	483.2	483.7	482.7	481.3	481.3	481.3	481.3	480.9
27.5°	469.0	467.6	467.1	467.6	468.6	467.6	466.2	464.8	465.3	465.3
30°	452.0	451.5	451.1	450.1	451.1	451.5	449.2	448.7	448.7	448.7
32.5°	435.0	434.5	433.1	432.2	432.6	433.6	432.6	431.7	431.7	431.7
35°	418.0	416.1	414.7	414.2	414.2	415.1	414.7	413.2	413.2	413.2
37.5°	398.1	398.6	396.2	395.7	395.7	395.7	396.7	394.3	394.8	394.3
40°	378.7	379.2	377.8	376.4	376.8	375.9	377.3	374.9	374.9	374.9
42.5°	359.3	358.4	358.9	356.0	356.5	356.5	357.0	355.6	355.1	354.6
45°	339.5	338.5	338.1	336.6	336.6	336.2	336.2	334.3	334.3	334.3
47.5°	318.7	318.2	317.3	316.3	316.3	315.8	314.9	314.4	313.9	313.9
50°	298.8	297.4	296.0	296.5	296.0	295.5	294.6	294.1	293.6	293.1
52.5°	277.5	277.5	275.7	275.7	275.7	275.2	274.2	273.3	273.3	272.8
55°	256.7	256.3	254.8	254.4	254.8	254.4	253.4	252.5	252.5	252.0
57.5°	235.9	235.0	234.5	234.5	234.0	234.0	232.6	231.7	232.2	231.7
60°	214.7	214.7	214.2	213.7	213.7	213.2	211.8	211.8	211.8	211.3
62.5°	194.3	194.3	193.4	192.9	193.4	192.9	192.4	192.0	191.5	191.0
65°	173.1	173.5	172.6	173.1	173.1	172.1	172.1	171.6	171.6	171.2
67.5°	153.2	153.2	152.7	152.7	153.2	152.7	152.7	152.2	152.2	151.8
70°	132.9	133.8	133.3	133.3	133.3	132.9	132.9	132.9	132.4	132.9
72.5°	112.5	112.5	112.5	112.5	112.5	113.0	113.0	113.0	113.0	112.5
75°	93.6	94.1	93.6	94.1	94.6	94.6	94.6	94.6	95.0	94.6
77.5°	75.2	75.7	75.7	76.6	76.6	76.6	77.1	77.1	77.1	77.1
80°	57.7	58.2	58.6	59.6	59.6	60.5	61.0	61.0	61.0	61.0
82.5°	41.6	43.0	43.5	44.9	45.4	45.4	46.3	46.8	46.8	46.8
85°	28.8	30.3	31.2	32.2	33.1	33.1	34.0	34.0	34.5	34.5
87.5°	18.0	19.4	20.3	21.7	22.2	22.7	23.2	23.6	24.1	24.1
90°	9.9	10.9	11.8	12.8	12.8	13.2	13.7	14.2	14.7	14.7
92.5°	7.1	7.6	8.5	9.0	9.0	9.5	9.9	9.9	10.4	10.4
95°	8.0	8.5	8.5	9.0	9.0	9.0	9.5	9.5	9.5	9.5
97.5°	12.3	12.3	12.3	11.8	11.8	11.8	11.8	11.8	11.8	11.8
100°	16.1	16.5	16.5	16.5	17.0	17.0	17.0	17.0	16.5	16.5
102.5°	18.0	18.4	18.9	19.4	19.4	19.4	19.9	19.9	19.9	19.9
105°	20.3	20.3	20.8	21.3	21.3	21.3	21.7	21.7	21.7	21.7
107.5°	23.2	23.2	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
110°	26.5	26.5	26.5	26.0	26.5	26.0	26.0	26.0	26.0	26.0





TEST NUMBER: P395821

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	30.3	29.8	29.8	29.3	29.3	29.3	28.8	28.8	28.8	28.8
115°	36.4	34.0	33.1	32.2	32.2	32.2	31.7	31.7	31.7	31.7
117.5°	44.0	40.7	38.8	36.9	36.4	35.9	35.0	35.0	34.5	34.5
120°	52.0	48.7	45.9	43.5	42.6	42.1	40.7	39.7	38.8	38.8
122.5°	59.6	56.3	53.4	51.1	50.1	49.2	47.8	46.8	45.9	45.9
125°	67.1	63.8	61.0	58.6	57.2	56.3	54.8	53.9	53.0	53.0
127.5°	75.2	70.9	68.1	65.7	64.3	63.8	61.9	61.0	60.0	60.0
130°	84.2	79.0	75.2	72.3	71.4	70.4	69.0	68.1	67.1	67.1
132.5°	93.1	87.9	83.7	79.9	78.5	77.5	75.7	74.7	73.8	73.8
135°	101.7	96.9	92.7	88.9	87.5	86.1	84.2	82.3	81.3	81.3
137.5°	108.3	105.0	101.2	97.9	96.5	95.0	93.1	91.3	89.8	90.3
140°	113.9	111.1	108.7	106.4	105.0	104.0	102.1	100.7	99.3	99.3
142.5°	119.1	116.8	114.4	112.5	112.1	111.6	110.2	108.7	107.8	107.8
145°	123.9	122.5	120.6	118.2	117.7	117.3	115.8	114.9	114.4	114.4
147.5°	125.3	125.8	125.3	123.9	123.4	122.9	122.0	121.0	120.6	120.6
150°	124.4	126.2	127.2	127.2	127.2	127.2	127.2	126.2	125.8	125.8
152.5°	121.5	124.4	126.2	127.7	128.1	128.6	128.6	129.1	128.6	128.6
155°	118.2	121.0	123.9	125.3	126.2	126.7	127.7	128.1	128.6	128.1
157.5°	114.4	116.8	118.7	121.5	122.5	123.4	124.4	125.3	125.8	125.3
160°	111.1	113.0	114.4	116.3	116.8	117.7	118.7	119.1	120.1	119.6
162.5°	107.8	109.2	110.6	111.6	112.5	113.0	113.9	114.4	114.9	114.4
165°	105.4	106.4	106.9	107.8	108.3	108.7	109.2	109.7	109.7	109.7
167.5°	102.6	103.5	104.0	104.5	105.0	105.4	105.4	105.9	105.9	105.9
170°	100.2	100.7	101.2	101.7	101.7	102.1	102.1	102.1	102.6	102.1
172.5°	98.3	98.3	98.3	98.8	98.8	98.8	98.8	98.8	98.8	98.3
175°	97.4	97.4	96.9	96.9	96.9	96.9	96.9	96.5	96.0	95.5
177.5°	96.9	96.5	96.5	96.0	96.0	96.0	95.5	95.0	94.6	94.1
180°	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5

(END OF REPORT)