

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: P395816

Luminaire Tested: **I3-WL-20L92765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395816  
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 (3000K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1600.2 lumens  
Efficiency: N/A  
Efficacy: 95.2 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

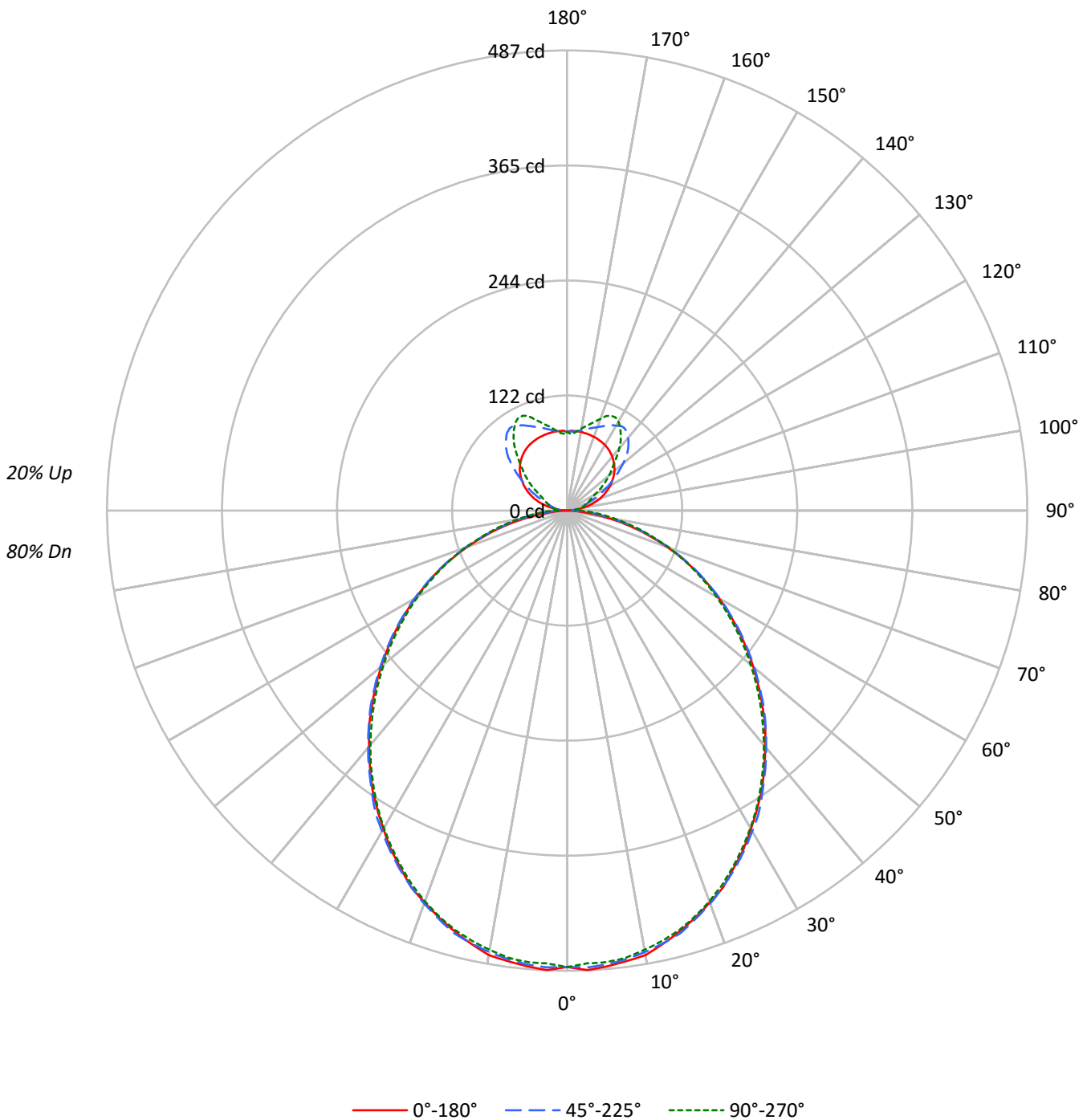
Input Watts (W): 16.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395816

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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°	2655	2655	2655
5°	2662	2600	2572
10°	2646	2529	2488
15°	2593	2459	2399
20°	2542	2361	2296
25°	2481	2260	2181
30°	2410	2156	2064
35°	2343	2041	1943
40°	2259	1923	1817
45°	2179	1807	1684
50°	2092	1680	1551
55°	2001	1550	1414
60°	1899	1405	1273
65°	1783	1249	1122
70°	1617	1066	963
75°	1393	845	773
80°	1063	608	577
85°	556	364	391



TEST NUMBER: P395816

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.6	2.9
10°-20°	129.4	8.1
20°-30°	191.7	12.0
30°-40°	224.0	14.0
40°-50°	225.0	14.1
50°-60°	197.8	12.4
60°-70°	148.2	9.3
70°-80°	84.3	5.3
80°-90°	26.6	1.7
90°-100°	9.6	0.6
100°-110°	23.4	1.5
110°-120°	38.8	2.4
120°-130°	54.5	3.4
130°-140°	62.8	3.9
140°-150°	59.9	3.7
150°-160°	45.1	2.8
160°-170°	25.5	1.6
170°-180°	8.1	0.5
0°-30°	366.7	22.9
0°-40°	590.7	36.9
0°-60°	1013.5	63.3
0°-90°	1272.5	79.5
90°-120°	71.8	4.5
90°-150°	249.0	15.6
90°-180°	328.0	20.5
0°-180°	1600.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	484	479	482	481	480	46
15°	461	457	463	460	459	130
25°	417	416	419	417	416	192
35°	360	357	361	358	357	224
45°	292	292	294	291	289	226
55°	222	222	223	220	218	198
65°	150	150	151	150	148	148
75°	76	77	79	82	82	81
85°	13	17	23	29	30	17
90°	0	2	7	11	13	1
95°	7	7	7	8	8	8
105°	27	23	18	18	19	29
115°	45	56	34	28	27	44
125°	59	82	62	49	46	53
135°	70	89	91	76	70	54
145°	78	88	106	102	99	49
155°	82	87	99	109	111	38
165°	84	85	90	94	95	24
175°	85	84	84	84	82	8
180°	83	83	83	83	83	



TEST NUMBER: P395816

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0
2.5°	486.7	485.9	483.8	481.8	481.4	481.0	481.0	480.6	480.6	481.4	483.8
5°	484.2	483.8	481.8	479.7	479.3	479.3	478.9	478.9	478.9	479.7	482.2
7.5°	481.0	480.1	478.1	476.1	475.7	475.7	475.7	475.2	475.7	476.1	478.9
10°	477.7	477.3	475.2	472.8	472.0	472.0	471.6	470.7	470.7	471.6	474.4
12.5°	469.5	469.1	467.1	465.4	465.4	465.8	465.8	466.3	466.3	467.1	469.1
15°	460.9	460.5	458.5	456.9	456.9	456.9	456.4	456.4	456.9	459.3	463.0
17.5°	451.5	451.1	449.5	447.9	447.9	447.9	447.5	447.5	447.9	449.1	452.8
20°	441.3	440.9	439.3	437.7	437.7	437.7	437.2	437.7	437.7	439.3	442.6
22.5°	431.5	430.7	428.7	427.0	426.2	426.2	426.2	425.8	426.6	427.8	431.1
25°	417.2	416.8	416.0	414.8	415.6	416.0	415.2	414.4	414.4	416.0	418.9
27.5°	404.1	403.3	402.1	400.9	400.1	400.5	400.9	401.7	402.9	403.3	405.8
30°	389.0	388.6	387.4	385.8	386.2	386.6	386.6	386.6	387.4	391.1	391.9
32.5°	374.3	373.9	372.7	371.0	371.5	371.9	371.5	371.9	372.7	374.3	378.0
35°	359.6	358.8	357.6	357.1	356.7	356.7	356.7	357.1	357.6	358.8	360.8
37.5°	342.8	342.0	341.2	340.0	340.8	341.6	342.0	341.6	342.0	343.7	344.5
40°	326.1	325.7	324.9	324.0	324.5	324.9	324.5	325.7	326.5	327.3	327.7
42.5°	310.2	309.3	308.5	308.1	308.1	308.5	308.5	309.3	309.3	311.4	311.0
45°	292.2	291.8	291.4	291.4	291.8	291.8	291.8	292.2	292.6	293.8	294.2
47.5°	274.6	274.2	274.2	274.2	274.2	274.6	275.0	276.2	275.4	275.8	276.2
50°	257.0	256.6	256.6	256.6	257.4	257.4	258.3	258.7	259.1	258.3	258.7
52.5°	239.1	238.6	239.5	239.5	240.3	240.3	241.5	240.3	241.1	240.7	240.7
55°	221.5	221.1	221.9	221.5	222.3	222.3	223.1	223.5	223.1	223.1	223.1
57.5°	203.5	203.1	203.5	203.9	204.3	204.3	205.5	205.5	204.3	205.1	204.7
60°	185.5	185.1	185.5	185.9	186.3	186.3	186.7	185.9	186.7	187.2	186.7
62.5°	167.5	167.1	167.9	167.5	167.9	168.4	168.4	169.6	169.2	169.2	168.8
65°	149.6	149.2	149.2	149.2	149.6	150.0	150.4	150.8	150.8	151.2	150.8
67.5°	131.2	130.8	131.2	130.8	131.2	131.6	132.4	132.8	132.8	133.2	132.8
70°	112.4	112.8	112.4	112.8	113.2	113.6	114.0	114.8	114.8	114.8	114.8
72.5°	94.0	93.6	93.6	93.2	94.0	94.4	94.8	96.0	96.0	96.4	96.4
75°	76.0	75.2	75.6	75.2	76.8	77.2	77.2	78.5	78.9	79.7	79.3
77.5°	58.4	58.4	57.6	58.8	59.3	60.1	60.9	61.7	62.1	63.3	63.3
80°	41.7	41.7	41.3	42.1	43.7	44.1	45.4	45.8	47.0	47.8	48.2
82.5°	26.6	26.6	26.6	27.8	29.0	29.4	30.6	31.9	32.7	33.9	34.3
85°	13.1	13.9	13.9	15.5	16.3	17.2	17.6	19.2	20.4	22.1	23.3
87.5°	4.1	4.5	4.9	5.7	7.4	7.8	8.6	10.2	11.4	13.1	14.3
90°	0.4	0.4	0.8	1.2	2.0	2.5	3.3	4.1	5.3	6.5	7.4
92.5°	2.9	2.9	3.3	3.3	3.3	3.3	3.3	3.7	4.1	4.9	5.3
95°	6.9	11.0	6.5	6.1	6.9	6.9	7.4	6.9	6.9	6.9	6.9
97.5°	11.4	20.4	13.5	9.4	9.0	9.4	9.4	10.2	10.6	11.0	11.0
100°	16.8	25.7	23.7	15.5	12.7	12.3	12.3	12.3	12.7	13.1	13.5
102.5°	22.1	29.4	33.9	24.1	18.0	16.3	15.5	15.1	14.7	15.1	15.1
105°	27.4	33.1	41.7	32.7	25.7	23.3	20.8	18.0	17.6	17.6	17.6
107.5°	32.3	36.8	47.4	42.5	33.5	31.1	28.2	23.7	20.8	20.4	20.0
110°	36.8	40.5	51.5	50.7	42.1	38.4	36.0	31.1	27.0	24.1	22.9



TEST NUMBER: P395816

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	40.9	44.1	54.3	57.6	51.5	47.0	43.3	38.4	33.9	30.2	27.4
115°	45.0	47.8	56.8	63.3	59.7	56.0	51.9	45.8	41.3	37.6	34.3
117.5°	49.0	51.5	59.3	67.4	66.6	64.2	60.9	53.5	48.2	44.5	40.9
120°	52.7	55.2	61.7	70.3	72.7	70.7	68.7	62.1	55.6	51.5	48.2
122.5°	56.0	58.0	64.2	72.7	77.2	76.8	74.8	70.3	63.7	58.8	54.8
125°	59.3	61.3	66.6	74.4	80.5	81.7	80.9	77.2	72.3	66.6	61.7
127.5°	62.5	64.2	69.1	76.0	83.0	85.4	85.8	83.4	79.7	74.8	69.5
130°	65.4	67.0	71.1	77.2	84.6	87.4	89.1	88.7	85.8	82.5	77.2
132.5°	67.8	69.1	73.1	78.5	85.4	88.7	91.1	93.2	91.1	88.7	85.0
135°	70.3	71.5	74.8	79.7	85.8	89.1	92.4	95.6	96.0	94.0	91.1
137.5°	72.3	73.1	76.4	80.5	85.8	89.1	92.4	96.8	99.3	98.5	96.0
140°	74.4	75.2	77.6	81.7	86.2	89.1	91.9	97.3	100.5	101.8	100.5
142.5°	76.0	76.8	78.9	82.5	86.2	88.7	91.5	96.4	100.9	103.4	104.2
145°	77.6	78.0	80.1	83.0	86.2	88.3	90.7	95.6	100.1	103.8	106.2
147.5°	78.9	79.3	80.5	83.4	86.2	87.9	89.9	94.0	98.5	102.6	106.2
150°	80.1	80.1	81.3	83.4	86.2	87.4	89.1	92.8	96.4	100.5	103.8
152.5°	80.9	80.9	82.1	83.8	85.8	87.0	88.7	91.5	94.8	98.5	101.8
155°	81.7	81.7	82.5	83.8	85.8	86.6	87.9	90.3	93.2	96.0	98.9
157.5°	82.5	82.5	83.0	84.2	85.4	86.2	87.4	89.5	91.5	94.0	96.4
160°	83.0	83.0	83.4	84.2	85.0	85.8	86.6	88.3	90.3	91.9	94.0
162.5°	83.4	83.4	83.8	84.2	85.0	85.4	85.8	87.4	88.7	90.3	91.9
165°	83.8	83.8	83.8	84.2	84.6	85.0	85.4	86.2	87.4	88.7	89.9
167.5°	84.2	84.2	84.2	84.2	84.6	84.6	85.0	85.4	86.2	87.0	87.9
170°	84.6	84.2	84.2	84.6	84.2	84.2	84.6	85.0	85.0	85.8	86.2
172.5°	84.6	84.6	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.6	85.0
175°	84.6	84.6	84.2	84.2	84.2	83.8	83.8	83.8	83.8	83.8	83.8
177.5°	84.6	84.6	84.2	84.2	83.8	83.8	83.8	83.8	83.8	83.8	83.8
180°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4



TEST NUMBER: P395816

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0
2.5°	486.3	484.2	483.4	483.0	482.6	482.2	481.4	480.6	479.7	479.7
5°	484.2	482.2	481.4	481.0	480.6	480.1	479.7	479.7	479.7	479.7
7.5°	481.0	478.9	478.1	477.7	477.7	477.3	477.3	477.3	476.9	477.3
10°	476.1	474.0	473.6	473.2	472.8	472.0	472.0	472.0	471.6	472.0
12.5°	469.9	467.9	467.5	467.1	466.7	466.3	466.3	465.8	465.8	466.3
15°	463.8	460.9	460.1	460.1	459.7	459.3	459.7	459.3	459.3	459.3
17.5°	454.8	453.6	452.4	451.5	451.1	450.7	450.7	450.3	450.3	450.3
20°	443.0	443.0	443.0	440.9	440.5	440.1	440.1	440.1	440.1	440.1
22.5°	431.5	429.5	431.1	429.9	429.1	428.3	428.7	428.7	428.7	428.7
25°	418.9	417.2	417.6	418.0	417.2	416.0	416.0	416.0	416.0	415.6
27.5°	405.4	404.1	403.7	404.1	405.0	404.1	402.9	401.7	402.1	402.1
30°	390.7	390.2	389.8	389.0	389.8	390.2	388.2	387.8	387.8	387.8
32.5°	375.9	375.5	374.3	373.5	373.9	374.7	373.9	373.1	373.1	373.1
35°	361.2	359.6	358.4	358.0	358.0	358.8	358.4	357.1	357.1	357.1
37.5°	344.1	344.5	342.4	342.0	342.0	342.0	342.8	340.8	341.2	340.8
40°	327.3	327.7	326.5	325.3	325.7	324.9	326.1	324.0	324.0	324.0
42.5°	310.6	309.7	310.2	307.7	308.1	308.1	308.5	307.3	306.9	306.5
45°	293.4	292.6	292.2	290.9	290.9	290.5	290.5	288.9	288.9	288.9
47.5°	275.4	275.0	274.2	273.4	273.4	273.0	272.2	271.7	271.3	271.3
50°	258.3	257.0	255.8	256.2	255.8	255.4	254.6	254.2	253.8	253.4
52.5°	239.9	239.9	238.2	238.2	238.2	237.8	237.0	236.2	236.2	235.8
55°	221.9	221.5	220.3	219.8	220.3	219.8	219.0	218.2	218.2	217.8
57.5°	203.9	203.1	202.7	202.7	202.3	202.3	201.0	200.2	200.6	200.2
60°	185.5	185.5	185.1	184.7	184.7	184.3	183.1	183.1	183.1	182.7
62.5°	167.9	167.9	167.1	166.7	167.1	166.7	166.3	165.9	165.5	165.1
65°	149.6	150.0	149.2	149.6	149.6	148.7	148.7	148.3	148.3	147.9
67.5°	132.4	132.4	132.0	132.0	132.4	132.0	132.0	131.6	131.6	131.2
70°	114.8	115.6	115.2	115.2	115.2	114.8	114.8	114.8	114.4	114.8
72.5°	97.3	97.3	97.3	97.3	97.3	97.7	97.7	97.7	97.7	97.3
75°	80.9	81.3	80.9	81.3	81.7	81.7	81.7	81.7	82.1	81.7
77.5°	65.0	65.4	65.4	66.2	66.2	66.2	66.6	66.6	66.6	66.6
80°	49.9	50.3	50.7	51.5	51.5	52.3	52.7	52.7	52.7	52.7
82.5°	36.0	37.2	37.6	38.8	39.2	39.2	40.0	40.5	40.5	40.5
85°	24.9	26.2	27.0	27.8	28.6	28.6	29.4	29.4	29.8	29.8
87.5°	15.5	16.8	17.6	18.8	19.2	19.6	20.0	20.4	20.8	20.8
90°	8.6	9.4	10.2	11.0	11.0	11.4	11.9	12.3	12.7	12.7
92.5°	6.1	6.5	7.4	7.8	7.8	8.2	8.6	8.6	9.0	9.0
95°	6.9	7.4	7.4	7.8	7.8	7.8	8.2	8.2	8.2	8.2
97.5°	10.6	10.6	10.6	10.2	10.2	10.2	10.2	10.2	10.2	10.2
100°	13.9	14.3	14.3	14.3	14.7	14.7	14.7	14.7	14.3	14.3
102.5°	15.5	15.9	16.3	16.8	16.8	16.8	17.2	17.2	17.2	17.2
105°	17.6	17.6	18.0	18.4	18.4	18.4	18.8	18.8	18.8	18.8
107.5°	20.0	20.0	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
110°	22.9	22.9	22.9	22.5	22.9	22.5	22.5	22.5	22.5	22.5





TEST NUMBER: P395816

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	26.2	25.7	25.7	25.3	25.3	25.3	24.9	24.9	24.9	24.9
115°	31.5	29.4	28.6	27.8	27.8	27.8	27.4	27.4	27.4	27.4
117.5°	38.0	35.1	33.5	31.9	31.5	31.1	30.2	30.2	29.8	29.8
120°	45.0	42.1	39.6	37.6	36.8	36.4	35.1	34.3	33.5	33.5
122.5°	51.5	48.6	46.2	44.1	43.3	42.5	41.3	40.5	39.6	39.6
125°	58.0	55.2	52.7	50.7	49.4	48.6	47.4	46.6	45.8	45.8
127.5°	65.0	61.3	58.8	56.8	55.6	55.2	53.5	52.7	51.9	51.9
130°	72.7	68.2	65.0	62.5	61.7	60.9	59.7	58.8	58.0	58.0
132.5°	80.5	76.0	72.3	69.1	67.8	67.0	65.4	64.6	63.7	63.7
135°	87.9	83.8	80.1	76.8	75.6	74.4	72.7	71.1	70.3	70.3
137.5°	93.6	90.7	87.4	84.6	83.4	82.1	80.5	78.9	77.6	78.0
140°	98.5	96.0	94.0	91.9	90.7	89.9	88.3	87.0	85.8	85.8
142.5°	103.0	100.9	98.9	97.3	96.8	96.4	95.2	94.0	93.2	93.2
145°	107.1	105.8	104.2	102.2	101.8	101.3	100.1	99.3	98.9	98.9
147.5°	108.3	108.7	108.3	107.1	106.7	106.2	105.4	104.6	104.2	104.2
150°	107.5	109.1	109.9	109.9	109.9	109.9	109.9	109.1	108.7	108.7
152.5°	105.0	107.5	109.1	110.3	110.7	111.1	111.1	111.6	111.1	111.1
155°	102.2	104.6	107.1	108.3	109.1	109.5	110.3	110.7	111.1	110.7
157.5°	98.9	100.9	102.6	105.0	105.8	106.7	107.5	108.3	108.7	108.3
160°	96.0	97.7	98.9	100.5	100.9	101.8	102.6	103.0	103.8	103.4
162.5°	93.2	94.4	95.6	96.4	97.3	97.7	98.5	98.9	99.3	98.9
165°	91.1	91.9	92.4	93.2	93.6	94.0	94.4	94.8	94.8	94.8
167.5°	88.7	89.5	89.9	90.3	90.7	91.1	91.1	91.5	91.5	91.5
170°	86.6	87.0	87.4	87.9	87.9	88.3	88.3	88.3	88.7	88.3
172.5°	85.0	85.0	85.0	85.4	85.4	85.4	85.4	85.4	85.4	85.0
175°	84.2	84.2	83.8	83.8	83.8	83.8	83.8	83.4	83.0	82.5
177.5°	83.8	83.4	83.4	83.0	83.0	83.0	82.5	82.1	81.7	81.3
180°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4

(END OF REPORT)