

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: P395817

Luminaire Tested: **I3-WL-20L92765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395817  
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 (3500K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1680.7 lumens  
Efficiency: N/A  
Efficacy: 98.9 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

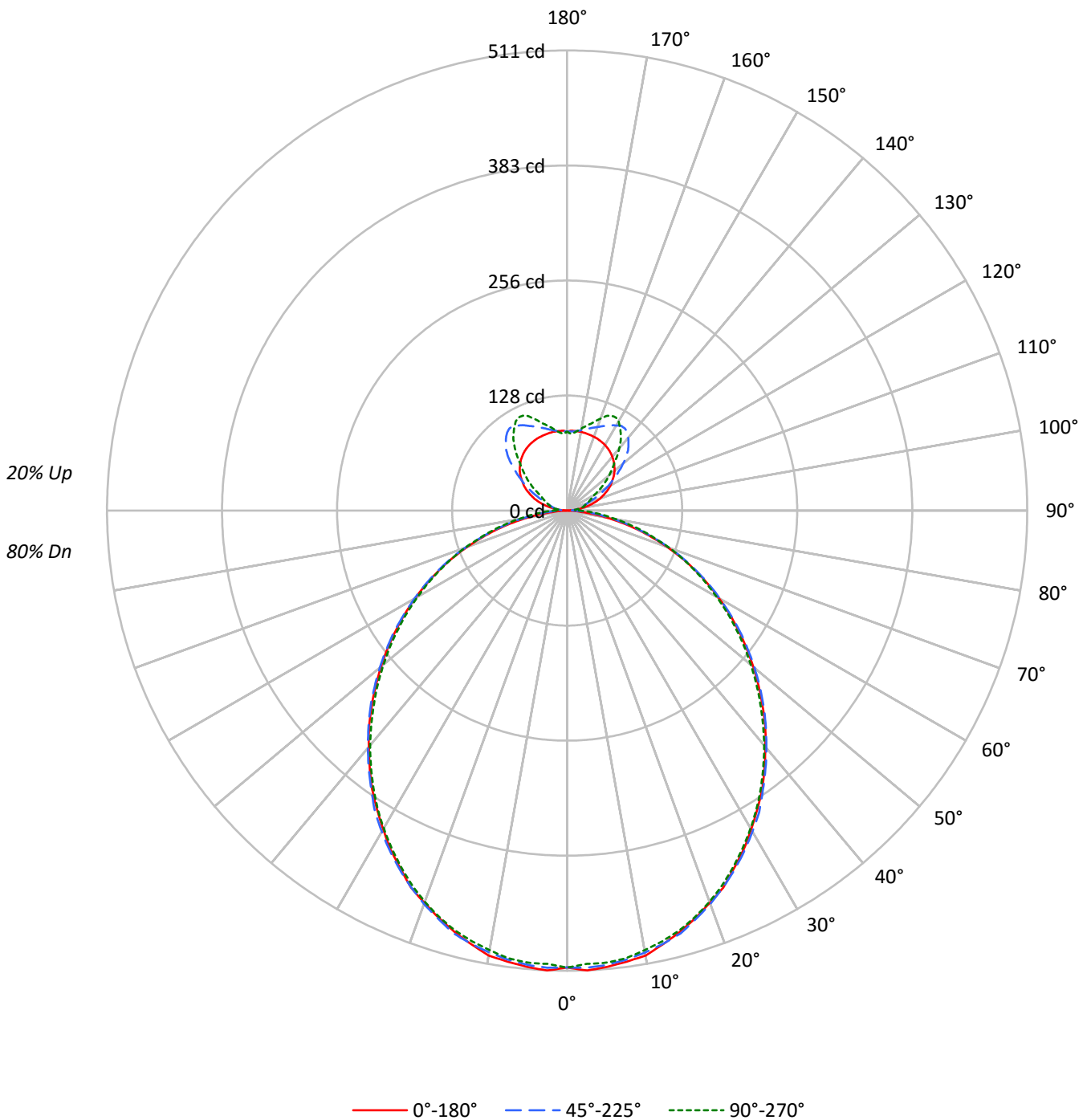
Input Watts (W): 17  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3500K)

### 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°	2788	2788	2788
5°	2796	2731	2701
10°	2779	2657	2613
15°	2724	2583	2520
20°	2670	2479	2411
25°	2606	2374	2291
30°	2531	2265	2168
35°	2461	2144	2041
40°	2373	2019	1909
45°	2288	1898	1769
50°	2197	1764	1628
55°	2101	1627	1485
60°	1995	1476	1337
65°	1872	1312	1179
70°	1698	1120	1012
75°	1462	888	812
80°	1117	639	607
85°	581	383	410



TEST NUMBER: P395817

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.9	2.9
10°-20°	135.9	8.1
20°-30°	201.3	12.0
30°-40°	235.3	14.0
40°-50°	236.3	14.1
50°-60°	207.7	12.4
60°-70°	155.6	9.3
70°-80°	88.5	5.3
80°-90°	27.9	1.7
90°-100°	10.1	0.6
100°-110°	24.5	1.5
110°-120°	40.8	2.4
120°-130°	57.2	3.4
130°-140°	65.9	3.9
140°-150°	63.0	3.7
150°-160°	47.4	2.8
160°-170°	26.8	1.6
170°-180°	8.5	0.5
0°-30°	385.2	22.9
0°-40°	620.4	36.9
0°-60°	1064.5	63.3
0°-90°	1336.6	79.5
90°-120°	75.4	4.5
90°-150°	261.5	15.6
90°-180°	344.0	20.5
0°-180°	1680.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	509	503	506	505	504	48
15°	484	480	486	483	482	137
25°	438	437	440	438	436	202
35°	378	375	379	376	375	236
45°	307	306	309	306	303	237
55°	233	234	234	231	229	208
65°	157	158	158	157	155	155
75°	80	81	83	86	86	85
85°	14	18	24	30	31	18
90°	0	3	8	12	13	1
95°	7	7	7	8	9	8
105°	29	24	18	19	20	30
115°	47	59	36	29	29	47
125°	62	86	65	52	48	56
135°	74	94	96	79	74	57
145°	82	93	112	107	104	51
155°	86	91	104	115	116	40
165°	88	89	94	98	100	25
175°	89	88	88	88	87	8
180°	88	88	88	88	88	



TEST NUMBER: P395817

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3
2.5°	511.2	510.3	508.2	506.0	505.6	505.2	505.2	504.7	504.7	505.6	508.2
5°	508.6	508.2	506.0	503.9	503.4	503.4	503.0	503.0	503.0	503.9	506.4
7.5°	505.2	504.3	502.2	500.0	499.6	499.6	499.6	499.2	499.6	500.0	503.0
10°	501.7	501.3	499.2	496.6	495.7	495.7	495.3	494.4	494.4	495.3	498.3
12.5°	493.1	492.7	490.6	488.9	488.9	489.3	489.3	489.7	489.7	490.6	492.7
15°	484.1	483.7	481.6	479.8	479.8	479.8	479.4	479.4	479.8	482.4	486.3
17.5°	474.3	473.8	472.1	470.4	470.4	470.4	470.0	470.0	470.4	471.7	475.5
20°	463.5	463.1	461.4	459.7	459.7	459.7	459.2	459.7	459.7	461.4	464.8
22.5°	453.2	452.4	450.2	448.5	447.6	447.6	447.6	447.2	448.1	449.4	452.8
25°	438.2	437.8	436.9	435.6	436.5	436.9	436.1	435.2	435.2	436.9	439.9
27.5°	424.5	423.6	422.3	421.0	420.2	420.6	421.0	421.9	423.2	423.6	426.2
30°	408.6	408.2	406.9	405.2	405.6	406.0	406.0	406.0	406.9	410.7	411.6
32.5°	393.1	392.7	391.4	389.7	390.1	390.6	390.1	390.6	391.4	393.1	397.0
35°	377.7	376.8	375.5	375.1	374.7	374.7	374.7	375.1	375.5	376.8	379.0
37.5°	360.1	359.2	358.4	357.1	357.9	358.8	359.2	358.8	359.2	361.0	361.8
40°	342.5	342.1	341.2	340.4	340.8	341.2	340.8	342.1	342.9	343.8	344.2
42.5°	325.8	324.9	324.0	323.6	323.6	324.0	324.0	324.9	324.9	327.0	326.6
45°	306.9	306.4	306.0	306.0	306.4	306.4	306.4	306.9	307.3	308.6	309.0
47.5°	288.4	288.0	288.0	288.0	288.0	288.4	288.8	290.1	289.3	289.7	290.1
50°	270.0	269.5	269.5	269.5	270.4	270.4	271.3	271.7	272.1	271.3	271.7
52.5°	251.1	250.6	251.5	251.5	252.4	252.4	253.7	252.4	253.2	252.8	252.8
55°	232.6	232.2	233.1	232.6	233.5	233.5	234.3	234.8	234.3	234.3	234.3
57.5°	213.7	213.3	213.7	214.2	214.6	214.6	215.9	215.9	214.6	215.5	215.0
60°	194.9	194.4	194.9	195.3	195.7	195.7	196.1	195.3	196.1	196.6	196.1
62.5°	176.0	175.5	176.4	176.0	176.4	176.8	176.8	178.1	177.7	177.7	177.3
65°	157.1	156.7	156.7	156.7	157.1	157.5	157.9	158.4	158.4	158.8	158.4
67.5°	137.8	137.3	137.8	137.3	137.8	138.2	139.1	139.5	139.5	139.9	139.5
70°	118.0	118.5	118.0	118.5	118.9	119.3	119.7	120.6	120.6	120.6	120.6
72.5°	98.7	98.3	98.3	97.9	98.7	99.1	99.6	100.9	100.9	101.3	101.3
75°	79.8	79.0	79.4	79.0	80.7	81.1	81.1	82.4	82.8	83.7	83.3
77.5°	61.4	61.4	60.5	61.8	62.2	63.1	63.9	64.8	65.2	66.5	66.5
80°	43.8	43.8	43.3	44.2	45.9	46.4	47.6	48.1	49.4	50.2	50.6
82.5°	27.9	27.9	27.9	29.2	30.5	30.9	32.2	33.5	34.3	35.6	36.1
85°	13.7	14.6	14.6	16.3	17.2	18.0	18.5	20.2	21.5	23.2	24.5
87.5°	4.3	4.7	5.2	6.0	7.7	8.2	9.0	10.7	12.0	13.7	15.0
90°	0.4	0.4	0.9	1.3	2.1	2.6	3.4	4.3	5.6	6.9	7.7
92.5°	3.0	3.0	3.4	3.4	3.4	3.4	3.4	3.9	4.3	5.2	5.6
95°	7.3	11.6	6.9	6.4	7.3	7.3	7.7	7.3	7.3	7.3	7.3
97.5°	12.0	21.5	14.2	9.9	9.4	9.9	9.9	10.7	11.2	11.6	11.6
100°	17.6	27.0	24.9	16.3	13.3	12.9	12.9	12.9	13.3	13.7	14.2
102.5°	23.2	30.9	35.6	25.3	18.9	17.2	16.3	15.9	15.5	15.9	15.9
105°	28.8	34.8	43.8	34.3	27.0	24.5	21.9	18.9	18.5	18.5	18.5
107.5°	33.9	38.6	49.8	44.6	35.2	32.6	29.6	24.9	21.9	21.5	21.0
110°	38.6	42.5	54.1	53.2	44.2	40.3	37.8	32.6	28.3	25.3	24.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	42.9	46.4	57.1	60.5	54.1	49.4	45.5	40.3	35.6	31.8	28.8
115°	47.2	50.2	59.7	66.5	62.7	58.8	54.5	48.1	43.3	39.5	36.1
117.5°	51.5	54.1	62.2	70.8	70.0	67.4	63.9	56.2	50.6	46.8	42.9
120°	55.4	57.9	64.8	73.8	76.4	74.3	72.1	65.2	58.4	54.1	50.6
122.5°	58.8	60.9	67.4	76.4	81.1	80.7	78.5	73.8	67.0	61.8	57.5
125°	62.2	64.4	70.0	78.1	84.6	85.8	85.0	81.1	76.0	70.0	64.8
127.5°	65.7	67.4	72.5	79.8	87.1	89.7	90.1	87.6	83.7	78.5	73.0
130°	68.7	70.4	74.7	81.1	88.8	91.8	93.6	93.1	90.1	86.7	81.1
132.5°	71.2	72.5	76.8	82.4	89.7	93.1	95.7	97.9	95.7	93.1	89.3
135°	73.8	75.1	78.5	83.7	90.1	93.6	97.0	100.4	100.9	98.7	95.7
137.5°	76.0	76.8	80.3	84.6	90.1	93.6	97.0	101.7	104.3	103.4	100.9
140°	78.1	79.0	81.5	85.8	90.6	93.6	96.6	102.1	105.6	106.9	105.6
142.5°	79.8	80.7	82.8	86.7	90.6	93.1	96.1	101.3	106.0	108.6	109.4
145°	81.5	82.0	84.1	87.1	90.6	92.7	95.3	100.4	105.2	109.0	111.6
147.5°	82.8	83.3	84.6	87.6	90.6	92.3	94.4	98.7	103.4	107.7	111.6
150°	84.1	84.1	85.4	87.6	90.6	91.8	93.6	97.4	101.3	105.6	109.0
152.5°	85.0	85.0	86.3	88.0	90.1	91.4	93.1	96.1	99.6	103.4	106.9
155°	85.8	85.8	86.7	88.0	90.1	91.0	92.3	94.9	97.9	100.9	103.9
157.5°	86.7	86.7	87.1	88.4	89.7	90.6	91.8	94.0	96.1	98.7	101.3
160°	87.1	87.1	87.6	88.4	89.3	90.1	91.0	92.7	94.9	96.6	98.7
162.5°	87.6	87.6	88.0	88.4	89.3	89.7	90.1	91.8	93.1	94.9	96.6
165°	88.0	88.0	88.0	88.4	88.8	89.3	89.7	90.6	91.8	93.1	94.4
167.5°	88.4	88.4	88.4	88.4	88.8	88.8	89.3	89.7	90.6	91.4	92.3
170°	88.8	88.4	88.4	88.8	88.4	88.4	88.8	89.3	89.3	90.1	90.6
172.5°	88.8	88.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.8	89.3
175°	88.8	88.8	88.4	88.4	88.4	88.0	88.0	88.0	88.0	88.0	88.0
177.5°	88.8	88.8	88.4	88.4	88.0	88.0	88.0	88.0	88.0	88.0	88.0
180°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3	507.3
2.5°	510.7	508.6	507.7	507.3	506.9	506.4	505.6	504.7	503.9	503.9
5°	508.6	506.4	505.6	505.2	504.7	504.3	503.9	503.9	503.9	503.9
7.5°	505.2	503.0	502.2	501.7	501.7	501.3	501.3	501.3	500.9	501.3
10°	500.0	497.9	497.4	497.0	496.6	495.7	495.7	495.7	495.3	495.7
12.5°	493.6	491.4	491.0	490.6	490.1	489.7	489.7	489.3	489.3	489.7
15°	487.1	484.1	483.3	483.3	482.8	482.4	482.8	482.4	482.4	482.4
17.5°	477.7	476.4	475.1	474.3	473.8	473.4	473.4	473.0	473.0	473.0
20°	465.2	465.2	465.2	463.1	462.7	462.2	462.2	462.2	462.2	462.2
22.5°	453.2	451.1	452.8	451.5	450.7	449.8	450.2	450.2	450.2	450.2
25°	439.9	438.2	438.6	439.1	438.2	436.9	436.9	436.9	436.9	436.5
27.5°	425.8	424.5	424.0	424.5	425.3	424.5	423.2	421.9	422.3	422.3
30°	410.3	409.9	409.5	408.6	409.5	409.9	407.7	407.3	407.3	407.3
32.5°	394.9	394.4	393.1	392.3	392.7	393.6	392.7	391.9	391.9	391.9
35°	379.4	377.7	376.4	376.0	376.0	376.8	376.4	375.1	375.1	375.1
37.5°	361.4	361.8	359.7	359.2	359.2	359.2	360.1	357.9	358.4	357.9
40°	343.8	344.2	342.9	341.6	342.1	341.2	342.5	340.4	340.4	340.4
42.5°	326.2	325.3	325.8	323.2	323.6	323.6	324.0	322.8	322.3	321.9
45°	308.2	307.3	306.9	305.6	305.6	305.2	305.2	303.4	303.4	303.4
47.5°	289.3	288.8	288.0	287.1	287.1	286.7	285.8	285.4	285.0	285.0
50°	271.3	270.0	268.7	269.1	268.7	268.2	267.4	267.0	266.5	266.1
52.5°	251.9	251.9	250.2	250.2	250.2	249.8	248.9	248.1	248.1	247.6
55°	233.1	232.6	231.3	230.9	231.3	230.9	230.0	229.2	229.2	228.8
57.5°	214.2	213.3	212.9	212.9	212.5	212.5	211.2	210.3	210.7	210.3
60°	194.9	194.9	194.4	194.0	194.0	193.6	192.3	192.3	192.3	191.8
62.5°	176.4	176.4	175.5	175.1	175.5	175.1	174.7	174.3	173.8	173.4
65°	157.1	157.5	156.7	157.1	157.1	156.2	156.2	155.8	155.8	155.4
67.5°	139.1	139.1	138.6	138.6	139.1	138.6	138.6	138.2	138.2	137.8
70°	120.6	121.5	121.0	121.0	121.0	120.6	120.6	120.6	120.2	120.6
72.5°	102.1	102.1	102.1	102.1	102.1	102.6	102.6	102.6	102.6	102.1
75°	85.0	85.4	85.0	85.4	85.8	85.8	85.8	85.8	86.3	85.8
77.5°	68.2	68.7	68.7	69.5	69.5	69.5	70.0	70.0	70.0	70.0
80°	52.4	52.8	53.2	54.1	54.1	54.9	55.4	55.4	55.4	55.4
82.5°	37.8	39.1	39.5	40.8	41.2	41.2	42.1	42.5	42.5	42.5
85°	26.2	27.5	28.3	29.2	30.0	30.0	30.9	30.9	31.3	31.3
87.5°	16.3	17.6	18.5	19.7	20.2	20.6	21.0	21.5	21.9	21.9
90°	9.0	9.9	10.7	11.6	11.6	12.0	12.4	12.9	13.3	13.3
92.5°	6.4	6.9	7.7	8.2	8.2	8.6	9.0	9.0	9.4	9.4
95°	7.3	7.7	7.7	8.2	8.2	8.2	8.6	8.6	8.6	8.6
97.5°	11.2	11.2	11.2	10.7	10.7	10.7	10.7	10.7	10.7	10.7
100°	14.6	15.0	15.0	15.0	15.5	15.5	15.5	15.5	15.0	15.0
102.5°	16.3	16.7	17.2	17.6	17.6	17.6	18.0	18.0	18.0	18.0
105°	18.5	18.5	18.9	19.3	19.3	19.3	19.7	19.7	19.7	19.7
107.5°	21.0	21.0	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
110°	24.0	24.0	24.0	23.6	24.0	23.6	23.6	23.6	23.6	23.6





TEST NUMBER: P395817

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	27.5	27.0	27.0	26.6	26.6	26.6	26.2	26.2	26.2	26.2
115°	33.0	30.9	30.0	29.2	29.2	29.2	28.8	28.8	28.8	28.8
117.5°	39.9	36.9	35.2	33.5	33.0	32.6	31.8	31.8	31.3	31.3
120°	47.2	44.2	41.6	39.5	38.6	38.2	36.9	36.1	35.2	35.2
122.5°	54.1	51.1	48.5	46.4	45.5	44.6	43.3	42.5	41.6	41.6
125°	60.9	57.9	55.4	53.2	51.9	51.1	49.8	48.9	48.1	48.1
127.5°	68.2	64.4	61.8	59.7	58.4	57.9	56.2	55.4	54.5	54.5
130°	76.4	71.7	68.2	65.7	64.8	63.9	62.7	61.8	60.9	60.9
132.5°	84.6	79.8	76.0	72.5	71.2	70.4	68.7	67.8	67.0	67.0
135°	92.3	88.0	84.1	80.7	79.4	78.1	76.4	74.7	73.8	73.8
137.5°	98.3	95.3	91.8	88.8	87.6	86.3	84.6	82.8	81.5	82.0
140°	103.4	100.9	98.7	96.6	95.3	94.4	92.7	91.4	90.1	90.1
142.5°	108.2	106.0	103.9	102.1	101.7	101.3	100.0	98.7	97.9	97.9
145°	112.4	111.2	109.4	107.3	106.9	106.4	105.2	104.3	103.9	103.9
147.5°	113.7	114.2	113.7	112.4	112.0	111.6	110.7	109.9	109.4	109.4
150°	112.9	114.6	115.5	115.5	115.5	115.5	115.5	114.6	114.2	114.2
152.5°	110.3	112.9	114.6	115.9	116.3	116.7	116.7	117.2	116.7	116.7
155°	107.3	109.9	112.4	113.7	114.6	115.0	115.9	116.3	116.7	116.3
157.5°	103.9	106.0	107.7	110.3	111.2	112.0	112.9	113.7	114.2	113.7
160°	100.9	102.6	103.9	105.6	106.0	106.9	107.7	108.2	109.0	108.6
162.5°	97.9	99.1	100.4	101.3	102.1	102.6	103.4	103.9	104.3	103.9
165°	95.7	96.6	97.0	97.9	98.3	98.7	99.1	99.6	99.6	99.6
167.5°	93.1	94.0	94.4	94.9	95.3	95.7	95.7	96.1	96.1	96.1
170°	91.0	91.4	91.8	92.3	92.3	92.7	92.7	92.7	93.1	92.7
172.5°	89.3	89.3	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.3
175°	88.4	88.4	88.0	88.0	88.0	88.0	88.0	87.6	87.1	86.7
177.5°	88.0	87.6	87.6	87.1	87.1	87.1	86.7	86.3	85.8	85.4
180°	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6

(END OF REPORT)