

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: P395805

Luminaire Tested: **I3-WL-20L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395805
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 (4000K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1959.5 lumens
Efficiency: N/A
Efficacy: 113.9 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

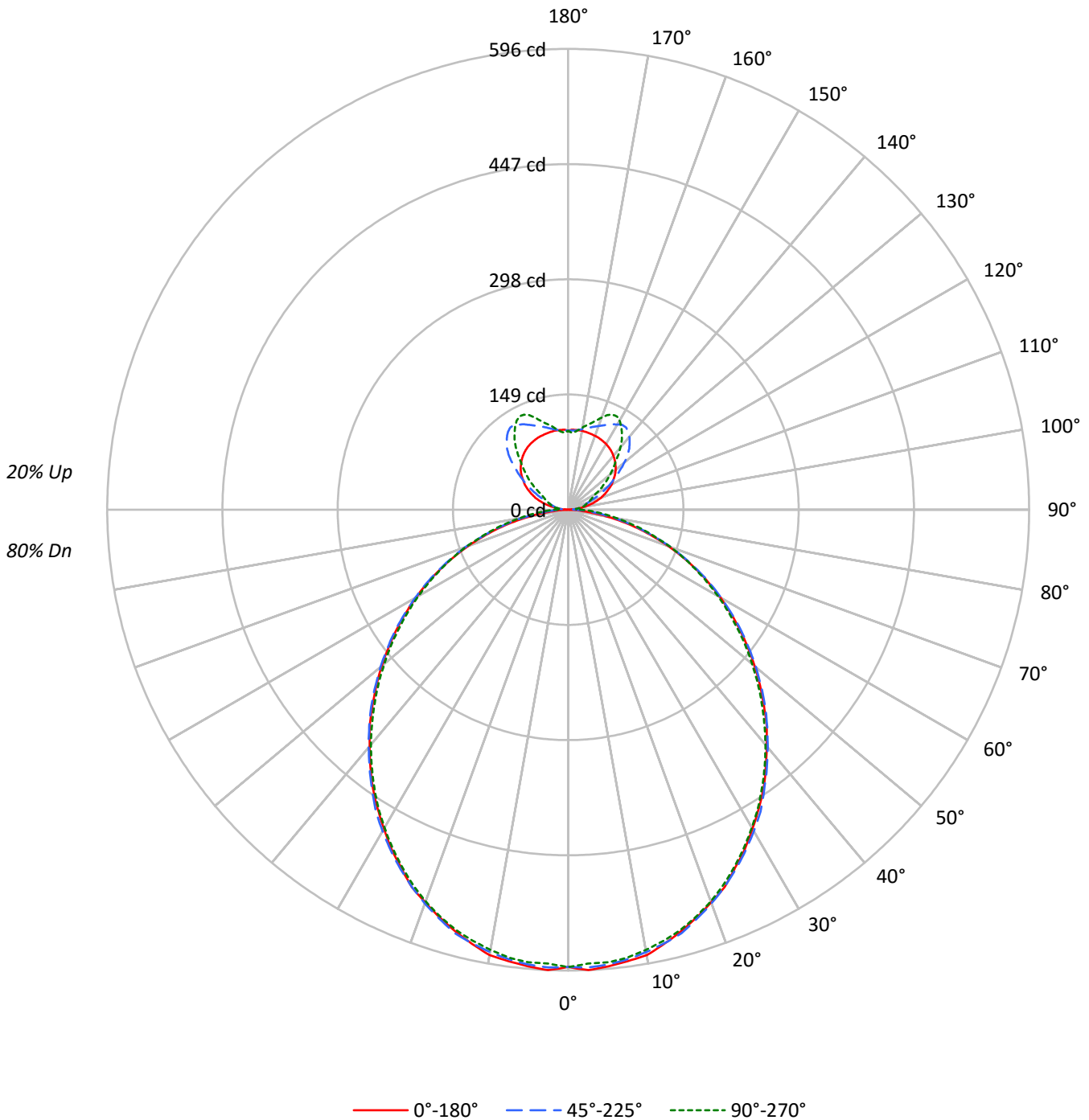
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3251	3251	3251
5°	3260	3184	3150
10°	3241	3098	3047
15°	3175	3011	2938
20°	3113	2890	2811
25°	3038	2768	2671
30°	2951	2641	2528
35°	2869	2499	2379
40°	2766	2354	2225
45°	2668	2213	2063
50°	2561	2057	1898
55°	2450	1898	1731
60°	2326	1722	1559
65°	2182	1529	1374
70°	1980	1306	1179
75°	1706	1035	947
80°	1300	745	707
85°	679	445	479



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CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	2.9
10°-20°	158.5	8.1
20°-30°	234.7	12.0
30°-40°	274.3	14.0
40°-50°	275.5	14.1
50°-60°	242.1	12.4
60°-70°	181.4	9.3
70°-80°	103.2	5.3
80°-90°	32.6	1.7
90°-100°	11.7	0.6
100°-110°	28.6	1.5
110°-120°	47.5	2.4
120°-130°	66.7	3.4
130°-140°	76.9	3.9
140°-150°	73.4	3.7
150°-160°	55.2	2.8
160°-170°	31.2	1.6
170°-180°	9.9	0.5
0°-30°	449.1	22.9
0°-40°	723.4	36.9
0°-60°	1241.0	63.3
0°-90°	1558.2	79.5
90°-120°	87.9	4.5
90°-150°	304.9	15.6
90°-180°	401.0	20.5
0°-180°	1959.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	593	587	590	588	588	56
15°	564	559	567	563	562	159
25°	511	509	513	511	509	235
35°	440	437	442	438	437	275
45°	358	357	360	356	354	276
55°	271	272	273	270	267	242
65°	183	184	185	183	181	181
75°	93	95	97	100	100	99
85°	16	21	28	35	36	21
90°	0	3	9	14	16	1
95°	8	8	8	10	10	9
105°	34	28	22	22	23	35
115°	55	69	42	34	34	54
125°	73	100	76	60	56	65
135°	86	109	112	93	86	66
145°	95	108	130	125	121	59
155°	100	106	121	134	136	46
165°	103	104	110	115	116	29
175°	104	103	103	103	101	10
180°	102	102	102	102	102	



TEST NUMBER: P395805

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5
2.5°	596.0	595.0	592.5	590.0	589.5	589.0	589.0	588.5	588.5	589.5	592.5
5°	593.0	592.5	590.0	587.5	587.0	587.0	586.5	586.5	586.5	587.5	590.5
7.5°	589.0	588.0	585.5	583.0	582.5	582.5	582.5	582.0	582.5	583.0	586.5
10°	585.0	584.5	582.0	579.0	578.0	578.0	577.5	576.5	576.5	577.5	581.0
12.5°	575.0	574.5	571.9	569.9	569.9	570.4	570.4	570.9	570.9	571.9	574.5
15°	564.4	563.9	561.4	559.4	559.4	559.4	558.9	558.9	559.4	562.4	566.9
17.5°	552.9	552.4	550.4	548.4	548.4	548.4	547.9	547.9	548.4	549.9	554.4
20°	540.4	539.9	537.9	535.9	535.9	535.9	535.4	535.9	535.9	537.9	541.9
22.5°	528.4	527.4	524.9	522.9	521.9	521.9	521.9	521.4	522.4	523.9	527.9
25°	510.9	510.4	509.4	507.9	508.9	509.4	508.4	507.4	507.4	509.4	512.9
27.5°	494.9	493.9	492.4	490.9	489.9	490.4	490.9	491.9	493.4	493.9	496.9
30°	476.4	475.9	474.4	472.4	472.9	473.4	473.4	473.4	474.4	478.9	479.9
32.5°	458.4	457.9	456.4	454.4	454.9	455.4	454.9	455.4	456.4	458.4	462.9
35°	440.3	439.3	437.8	437.3	436.8	436.8	436.8	437.3	437.8	439.3	441.8
37.5°	419.8	418.8	417.8	416.3	417.3	418.3	418.8	418.3	418.8	420.8	421.8
40°	399.3	398.8	397.8	396.8	397.3	397.8	397.3	398.8	399.8	400.8	401.3
42.5°	379.8	378.8	377.8	377.3	377.3	377.8	377.8	378.8	378.8	381.3	380.8
45°	357.8	357.3	356.8	356.8	357.3	357.3	357.3	357.8	358.3	359.8	360.3
47.5°	336.3	335.8	335.8	335.8	335.8	336.3	336.8	338.3	337.3	337.8	338.3
50°	314.7	314.2	314.2	314.2	315.2	315.2	316.2	316.7	317.2	316.2	316.7
52.5°	292.7	292.2	293.2	293.2	294.2	294.2	295.7	294.2	295.2	294.7	294.7
55°	271.2	270.7	271.7	271.2	272.2	272.2	273.2	273.7	273.2	273.2	273.2
57.5°	249.2	248.7	249.2	249.7	250.2	250.2	251.7	251.7	250.2	251.2	250.7
60°	227.2	226.7	227.2	227.7	228.2	228.2	228.7	227.7	228.7	229.2	228.7
62.5°	205.2	204.7	205.7	205.2	205.7	206.2	206.2	207.7	207.2	207.2	206.7
65°	183.1	182.6	182.6	182.6	183.1	183.6	184.1	184.6	184.6	185.1	184.6
67.5°	160.6	160.1	160.6	160.1	160.6	161.1	162.1	162.6	162.6	163.1	162.6
70°	137.6	138.1	137.6	138.1	138.6	139.1	139.6	140.6	140.6	140.6	140.6
72.5°	115.1	114.6	114.6	114.1	115.1	115.6	116.1	117.6	117.6	118.1	118.1
75°	93.1	92.1	92.6	92.1	94.1	94.6	94.6	96.1	96.6	97.6	97.1
77.5°	71.6	71.6	70.6	72.1	72.6	73.6	74.6	75.6	76.1	77.6	77.6
80°	51.0	51.0	50.5	51.5	53.5	54.0	55.5	56.0	57.5	58.5	59.0
82.5°	32.5	32.5	32.5	34.0	35.5	36.0	37.5	39.0	40.0	41.5	42.0
85°	16.0	17.0	17.0	19.0	20.0	21.0	21.5	23.5	25.0	27.0	28.5
87.5°	5.0	5.5	6.0	7.0	9.0	9.5	10.5	12.5	14.0	16.0	17.5
90°	0.5	0.5	1.0	1.5	2.5	3.0	4.0	5.0	6.5	8.0	9.0
92.5°	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.5	5.0	6.0	6.5
95°	8.5	13.5	8.0	7.5	8.5	8.5	9.0	8.5	8.5	8.5	8.5
97.5°	14.0	25.0	16.5	11.5	11.0	11.5	11.5	12.5	13.0	13.5	13.5
100°	20.5	31.5	29.0	19.0	15.5	15.0	15.0	15.0	15.5	16.0	16.5
102.5°	27.0	36.0	41.5	29.5	22.0	20.0	19.0	18.5	18.0	18.5	18.5
105°	33.5	40.5	51.0	40.0	31.5	28.5	25.5	22.0	21.5	21.5	21.5
107.5°	39.5	45.0	58.0	52.0	41.0	38.0	34.5	29.0	25.5	25.0	24.5
110°	45.0	49.5	63.0	62.0	51.5	47.0	44.0	38.0	33.0	29.5	28.0



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CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	50.0	54.0	66.6	70.6	63.0	57.5	53.0	47.0	41.5	37.0	33.5
115°	55.0	58.5	69.6	77.6	73.1	68.6	63.5	56.0	50.5	46.0	42.0
117.5°	60.0	63.0	72.6	82.6	81.6	78.6	74.6	65.6	59.0	54.5	50.0
120°	64.6	67.6	75.6	86.1	89.1	86.6	84.1	76.1	68.1	63.0	59.0
122.5°	68.6	71.1	78.6	89.1	94.6	94.1	91.6	86.1	78.1	72.1	67.1
125°	72.6	75.1	81.6	91.1	98.6	100.1	99.1	94.6	88.6	81.6	75.6
127.5°	76.6	78.6	84.6	93.1	101.6	104.6	105.1	102.1	97.6	91.6	85.1
130°	80.1	82.1	87.1	94.6	103.6	107.1	109.1	108.6	105.1	101.1	94.6
132.5°	83.1	84.6	89.6	96.1	104.6	108.6	111.6	114.1	111.6	108.6	104.1
135°	86.1	87.6	91.6	97.6	105.1	109.1	113.1	117.1	117.6	115.1	111.6
137.5°	88.6	89.6	93.6	98.6	105.1	109.1	113.1	118.6	121.6	120.6	117.6
140°	91.1	92.1	95.1	100.1	105.6	109.1	112.6	119.1	123.1	124.6	123.1
142.5°	93.1	94.1	96.6	101.1	105.6	108.6	112.1	118.1	123.6	126.6	127.6
145°	95.1	95.6	98.1	101.6	105.6	108.1	111.1	117.1	122.6	127.1	130.1
147.5°	96.6	97.1	98.6	102.1	105.6	107.6	110.1	115.1	120.6	125.6	130.1
150°	98.1	98.1	99.6	102.1	105.6	107.1	109.1	113.6	118.1	123.1	127.1
152.5°	99.1	99.1	100.6	102.6	105.1	106.6	108.6	112.1	116.1	120.6	124.6
155°	100.1	100.1	101.1	102.6	105.1	106.1	107.6	110.6	114.1	117.6	121.1
157.5°	101.1	101.1	101.6	103.1	104.6	105.6	107.1	109.6	112.1	115.1	118.1
160°	101.6	101.6	102.1	103.1	104.1	105.1	106.1	108.1	110.6	112.6	115.1
162.5°	102.1	102.1	102.6	103.1	104.1	104.6	105.1	107.1	108.6	110.6	112.6
165°	102.6	102.6	102.6	103.1	103.6	104.1	104.6	105.6	107.1	108.6	110.1
167.5°	103.1	103.1	103.1	103.1	103.6	103.6	104.1	104.6	105.6	106.6	107.6
170°	103.6	103.1	103.1	103.6	103.1	103.1	103.6	104.1	104.1	105.1	105.6
172.5°	103.6	103.6	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.6	104.1
175°	103.6	103.6	103.1	103.1	103.1	102.6	102.6	102.6	102.6	102.6	102.6
177.5°	103.6	103.6	103.1	103.1	102.6	102.6	102.6	102.6	102.6	102.6	102.6
180°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1



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CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5	591.5
2.5°	595.5	593.0	592.0	591.5	591.0	590.5	589.5	588.5	587.5	587.5
5°	593.0	590.5	589.5	589.0	588.5	588.0	587.5	587.5	587.5	587.5
7.5°	589.0	586.5	585.5	585.0	585.0	584.5	584.5	584.5	584.0	584.5
10°	583.0	580.5	580.0	579.5	579.0	578.0	578.0	578.0	577.5	578.0
12.5°	575.5	572.9	572.4	571.9	571.4	570.9	570.9	570.4	570.4	570.9
15°	567.9	564.4	563.4	563.4	562.9	562.4	562.9	562.4	562.4	562.4
17.5°	556.9	555.4	553.9	552.9	552.4	551.9	551.9	551.4	551.4	551.4
20°	542.4	542.4	542.4	539.9	539.4	538.9	538.9	538.9	538.9	538.9
22.5°	528.4	525.9	527.9	526.4	525.4	524.4	524.9	524.9	524.9	524.9
25°	512.9	510.9	511.4	511.9	510.9	509.4	509.4	509.4	509.4	508.9
27.5°	496.4	494.9	494.4	494.9	495.9	494.9	493.4	491.9	492.4	492.4
30°	478.4	477.9	477.4	476.4	477.4	477.9	475.4	474.9	474.9	474.9
32.5°	460.4	459.9	458.4	457.4	457.9	458.9	457.9	456.9	456.9	456.9
35°	442.3	440.3	438.8	438.3	438.3	439.3	438.8	437.3	437.3	437.3
37.5°	421.3	421.8	419.3	418.8	418.8	418.8	419.8	417.3	417.8	417.3
40°	400.8	401.3	399.8	398.3	398.8	397.8	399.3	396.8	396.8	396.8
42.5°	380.3	379.3	379.8	376.8	377.3	377.3	377.8	376.3	375.8	375.3
45°	359.3	358.3	357.8	356.3	356.3	355.8	355.8	353.8	353.8	353.8
47.5°	337.3	336.8	335.8	334.8	334.8	334.3	333.3	332.8	332.3	332.3
50°	316.2	314.7	313.2	313.7	313.2	312.7	311.7	311.2	310.7	310.2
52.5°	293.7	293.7	291.7	291.7	291.7	291.2	290.2	289.2	289.2	288.7
55°	271.7	271.2	269.7	269.2	269.7	269.2	268.2	267.2	267.2	266.7
57.5°	249.7	248.7	248.2	248.2	247.7	247.7	246.2	245.2	245.7	245.2
60°	227.2	227.2	226.7	226.2	226.2	225.7	224.2	224.2	224.2	223.7
62.5°	205.7	205.7	204.7	204.2	204.7	204.2	203.7	203.2	202.7	202.2
65°	183.1	183.6	182.6	183.1	183.1	182.1	182.1	181.6	181.6	181.1
67.5°	162.1	162.1	161.6	161.6	162.1	161.6	161.6	161.1	161.1	160.6
70°	140.6	141.6	141.1	141.1	141.1	140.6	140.6	140.6	140.1	140.6
72.5°	119.1	119.1	119.1	119.1	119.1	119.6	119.6	119.6	119.6	119.1
75°	99.1	99.6	99.1	99.6	100.1	100.1	100.1	100.1	100.6	100.1
77.5°	79.6	80.1	80.1	81.1	81.1	81.1	81.6	81.6	81.6	81.6
80°	61.0	61.5	62.0	63.0	63.0	64.1	64.6	64.6	64.6	64.6
82.5°	44.0	45.5	46.0	47.5	48.0	48.0	49.0	49.5	49.5	49.5
85°	30.5	32.0	33.0	34.0	35.0	35.0	36.0	36.0	36.5	36.5
87.5°	19.0	20.5	21.5	23.0	23.5	24.0	24.5	25.0	25.5	25.5
90°	10.5	11.5	12.5	13.5	13.5	14.0	14.5	15.0	15.5	15.5
92.5°	7.5	8.0	9.0	9.5	9.5	10.0	10.5	10.5	11.0	11.0
95°	8.5	9.0	9.0	9.5	9.5	9.5	10.0	10.0	10.0	10.0
97.5°	13.0	13.0	13.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5
100°	17.0	17.5	17.5	17.5	18.0	18.0	18.0	18.0	17.5	17.5
102.5°	19.0	19.5	20.0	20.5	20.5	20.5	21.0	21.0	21.0	21.0
105°	21.5	21.5	22.0	22.5	22.5	22.5	23.0	23.0	23.0	23.0
107.5°	24.5	24.5	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
110°	28.0	28.0	28.0	27.5	28.0	27.5	27.5	27.5	27.5	27.5



TEST NUMBER: P395805

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	32.0	31.5	31.5	31.0	31.0	31.0	30.5	30.5	30.5	30.5
115°	38.5	36.0	35.0	34.0	34.0	34.0	33.5	33.5	33.5	33.5
117.5°	46.5	43.0	41.0	39.0	38.5	38.0	37.0	37.0	36.5	36.5
120°	55.0	51.5	48.5	46.0	45.0	44.5	43.0	42.0	41.0	41.0
122.5°	63.0	59.5	56.5	54.0	53.0	52.0	50.5	49.5	48.5	48.5
125°	71.1	67.6	64.6	62.0	60.5	59.5	58.0	57.0	56.0	56.0
127.5°	79.6	75.1	72.1	69.6	68.1	67.6	65.6	64.6	63.5	63.5
130°	89.1	83.6	79.6	76.6	75.6	74.6	73.1	72.1	71.1	71.1
132.5°	98.6	93.1	88.6	84.6	83.1	82.1	80.1	79.1	78.1	78.1
135°	107.6	102.6	98.1	94.1	92.6	91.1	89.1	87.1	86.1	86.1
137.5°	114.6	111.1	107.1	103.6	102.1	100.6	98.6	96.6	95.1	95.6
140°	120.6	117.6	115.1	112.6	111.1	110.1	108.1	106.6	105.1	105.1
142.5°	126.1	123.6	121.1	119.1	118.6	118.1	116.6	115.1	114.1	114.1
145°	131.1	129.6	127.6	125.1	124.6	124.1	122.6	121.6	121.1	121.1
147.5°	132.6	133.1	132.6	131.1	130.6	130.1	129.1	128.1	127.6	127.6
150°	131.6	133.6	134.6	134.6	134.6	134.6	134.6	133.6	133.1	133.1
152.5°	128.6	131.6	133.6	135.1	135.6	136.1	136.1	136.6	136.1	136.1
155°	125.1	128.1	131.1	132.6	133.6	134.1	135.1	135.6	136.1	135.6
157.5°	121.1	123.6	125.6	128.6	129.6	130.6	131.6	132.6	133.1	132.6
160°	117.6	119.6	121.1	123.1	123.6	124.6	125.6	126.1	127.1	126.6
162.5°	114.1	115.6	117.1	118.1	119.1	119.6	120.6	121.1	121.6	121.1
165°	111.6	112.6	113.1	114.1	114.6	115.1	115.6	116.1	116.1	116.1
167.5°	108.6	109.6	110.1	110.6	111.1	111.6	111.6	112.1	112.1	112.1
170°	106.1	106.6	107.1	107.6	107.6	108.1	108.1	108.1	108.6	108.1
172.5°	104.1	104.1	104.1	104.6	104.6	104.6	104.6	104.6	104.6	104.1
175°	103.1	103.1	102.6	102.6	102.6	102.6	102.6	102.1	101.6	101.1
177.5°	102.6	102.1	102.1	101.6	101.6	101.6	101.1	100.6	100.1	99.6
180°	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1

(END OF REPORT)