

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: P395803

Luminaire Tested: **I3-WL-20L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395803
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 (3000K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1853.5 lumens
Efficiency: N/A
Efficacy: 109.7 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

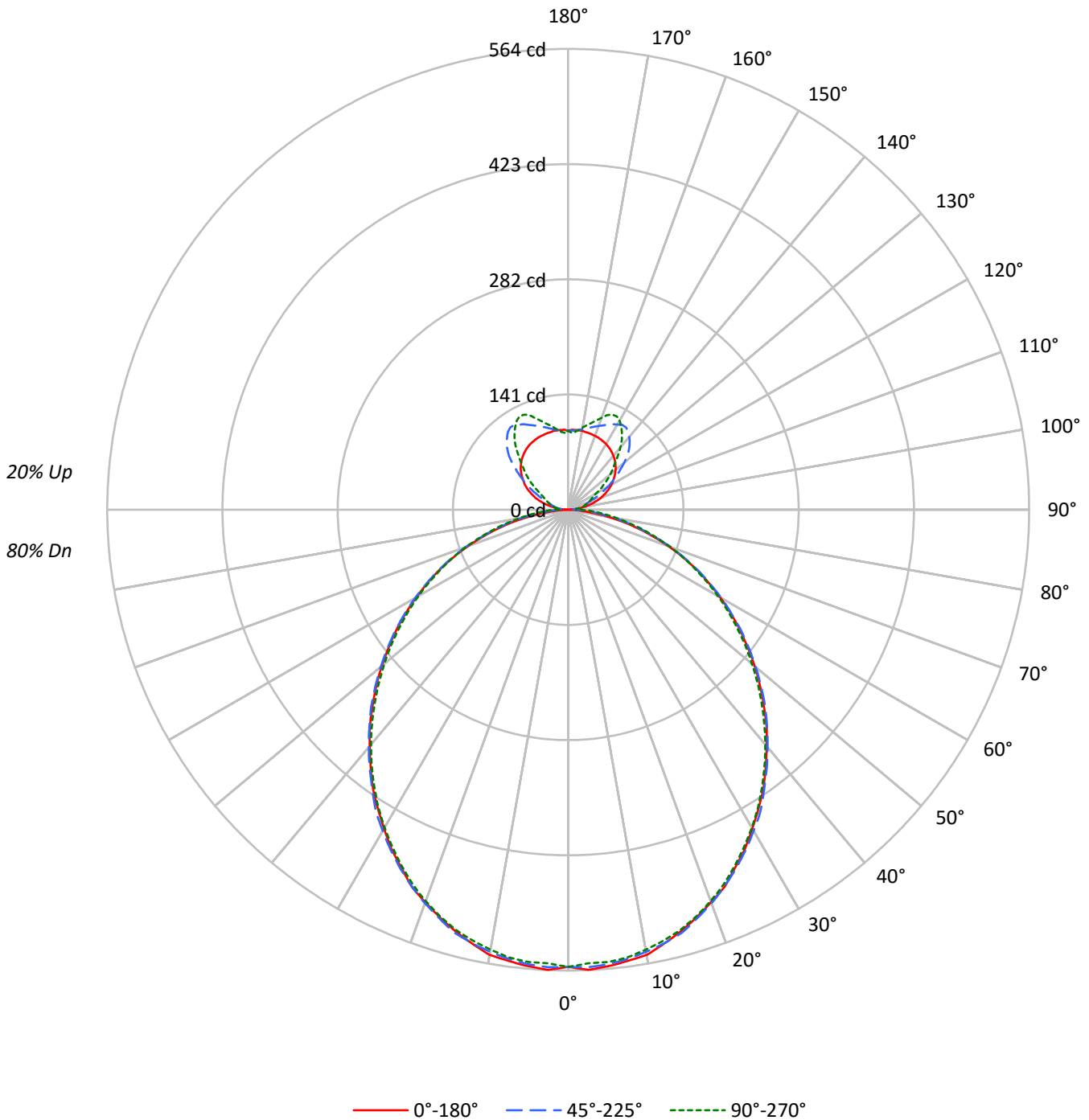
Input Watts (W): 16.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	3075	3075	3075
5°	3083	3011	2979
10°	3065	2930	2882
15°	3004	2849	2779
20°	2945	2734	2659
25°	2874	2618	2527
30°	2791	2498	2391
35°	2714	2364	2251
40°	2617	2227	2104
45°	2523	2093	1951
50°	2423	1946	1796
55°	2317	1795	1638
60°	2200	1628	1475
65°	2064	1447	1299
70°	1873	1235	1116
75°	1613	979	896
80°	1232	706	669
85°	641	422	454



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CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	2.9
10°-20°	149.9	8.1
20°-30°	222.0	12.0
30°-40°	259.5	14.0
40°-50°	260.6	14.1
50°-60°	229.1	12.4
60°-70°	171.6	9.3
70°-80°	97.6	5.3
80°-90°	30.8	1.7
90°-100°	11.1	0.6
100°-110°	27.1	1.5
110°-120°	45.0	2.4
120°-130°	63.1	3.4
130°-140°	72.7	3.9
140°-150°	69.4	3.7
150°-160°	52.2	2.8
160°-170°	29.6	1.6
170°-180°	9.4	0.5
0°-30°	424.8	22.9
0°-40°	684.2	36.9
0°-60°	1173.9	63.3
0°-90°	1474.0	79.5
90°-120°	83.1	4.5
90°-150°	288.4	15.6
90°-180°	380.0	20.5
0°-180°	1853.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	561	555	558	557	556	53
15°	534	529	536	532	532	151
25°	483	482	485	483	481	223
35°	416	413	418	415	414	260
45°	338	338	341	337	335	261
55°	256	258	258	255	252	229
65°	173	174	175	173	171	171
75°	88	90	92	95	95	93
85°	15	20	27	33	35	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	52
125°	69	95	72	57	53	61
135°	81	103	106	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°	97	97	97	97	97	



TEST NUMBER: P395803

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	559.5	559.5	559.5	559.5	559.5	559.5	559.5	559.5	559.5	559.5	559.5
2.5°	563.7	562.8	560.4	558.0	557.6	557.1	557.1	556.6	556.6	557.6	560.4
5°	560.9	560.4	558.0	555.7	555.2	555.2	554.7	554.7	554.7	555.7	558.5
7.5°	557.1	556.1	553.8	551.4	550.9	550.9	550.9	550.5	550.9	551.4	554.7
10°	553.3	552.8	550.5	547.6	546.7	546.7	546.2	545.3	545.3	546.2	549.5
12.5°	543.8	543.4	541.0	539.1	539.1	539.6	539.6	540.1	540.1	541.0	543.4
15°	533.9	533.4	531.1	529.2	529.2	529.2	528.7	528.7	529.2	532.0	536.3
17.5°	523.0	522.5	520.6	518.8	518.8	518.8	518.3	518.3	518.8	520.2	524.4
20°	511.2	510.7	508.8	506.9	506.9	506.9	506.4	506.9	506.9	508.8	512.6
22.5°	499.8	498.9	496.5	494.6	493.7	493.7	493.7	493.2	494.1	495.6	499.3
25°	483.3	482.8	481.8	480.4	481.4	481.8	480.9	479.9	479.9	481.8	485.1
27.5°	468.1	467.2	465.7	464.3	463.4	463.9	464.3	465.3	466.7	467.2	470.0
30°	450.6	450.1	448.7	446.8	447.3	447.8	447.8	447.8	448.7	453.0	453.9
32.5°	433.6	433.1	431.7	429.8	430.2	430.7	430.2	430.7	431.7	433.6	437.8
35°	416.5	415.6	414.2	413.7	413.2	413.2	413.2	413.7	414.2	415.6	417.9
37.5°	397.1	396.2	395.2	393.8	394.7	395.7	396.2	395.7	396.2	398.1	399.0
40°	377.7	377.2	376.3	375.3	375.8	376.3	375.8	377.2	378.2	379.1	379.6
42.5°	359.2	358.3	357.4	356.9	356.9	357.4	357.4	358.3	358.3	360.7	360.2
45°	338.4	337.9	337.5	337.5	337.9	337.9	337.9	338.4	338.9	340.3	340.8
47.5°	318.1	317.6	317.6	317.6	317.6	318.1	318.5	320.0	319.0	319.5	320.0
50°	297.7	297.2	297.2	297.2	298.2	298.2	299.1	299.6	300.1	299.1	299.6
52.5°	276.9	276.4	277.4	277.4	278.3	278.3	279.7	278.3	279.3	278.8	278.8
55°	256.5	256.1	257.0	256.5	257.5	257.5	258.4	258.9	258.4	258.4	258.4
57.5°	235.7	235.2	235.7	236.2	236.7	236.7	238.1	238.1	236.7	237.6	237.1
60°	214.9	214.4	214.9	215.4	215.8	215.8	216.3	215.4	216.3	216.8	216.3
62.5°	194.1	193.6	194.5	194.1	194.5	195.0	195.0	196.4	196.0	196.0	195.5
65°	173.2	172.8	172.8	172.8	173.2	173.7	174.2	174.7	174.7	175.1	174.7
67.5°	151.9	151.5	151.9	151.5	151.9	152.4	153.4	153.8	153.8	154.3	153.8
70°	130.2	130.6	130.2	130.6	131.1	131.6	132.1	133.0	133.0	133.0	133.0
72.5°	108.9	108.4	108.4	107.9	108.9	109.3	109.8	111.2	111.2	111.7	111.7
75°	88.0	87.1	87.6	87.1	89.0	89.5	89.5	90.9	91.4	92.3	91.8
77.5°	67.7	67.7	66.7	68.2	68.6	69.6	70.5	71.5	71.9	73.4	73.4
80°	48.3	48.3	47.8	48.8	50.6	51.1	52.5	53.0	54.4	55.4	55.9
82.5°	30.8	30.8	30.8	32.2	33.6	34.1	35.5	36.9	37.9	39.3	39.8
85°	15.1	16.1	16.1	18.0	18.9	19.9	20.4	22.2	23.7	25.6	27.0
87.5°	4.7	5.2	5.7	6.6	8.5	9.0	9.9	11.8	13.3	15.1	16.6
90°	0.5	0.5	0.9	1.4	2.4	2.8	3.8	4.7	6.2	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	6.2
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°	13.3	23.7	15.6	10.9	10.4	10.9	10.9	11.8	12.3	12.8	12.8
100°	19.4	29.8	27.5	18.0	14.7	14.2	14.2	14.2	14.7	15.1	15.6
102.5°	25.6	34.1	39.3	27.9	20.8	18.9	18.0	17.5	17.0	17.5	17.5
105°	31.7	38.3	48.3	37.9	29.8	27.0	24.1	20.8	20.4	20.4	20.4
107.5°	37.4	42.6	54.9	49.2	38.8	36.0	32.7	27.5	24.1	23.7	23.2
110°	42.6	46.9	59.6	58.7	48.8	44.5	41.7	36.0	31.2	27.9	26.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	47.3	51.1	63.0	66.7	59.6	54.4	50.2	44.5	39.3	35.0	31.7
115°	52.1	55.4	65.8	73.4	69.1	64.8	60.1	53.0	47.8	43.5	39.8
117.5°	56.8	59.6	68.6	78.1	77.2	74.3	70.5	62.0	55.9	51.6	47.3
120°	61.1	63.9	71.5	81.4	84.3	81.9	79.5	71.9	64.4	59.6	55.9
122.5°	64.8	67.2	74.3	84.3	89.5	89.0	86.6	81.4	73.8	68.2	63.4
125°	68.6	71.0	77.2	86.1	93.2	94.7	93.7	89.5	83.8	77.2	71.5
127.5°	72.4	74.3	80.0	88.0	96.1	98.9	99.4	96.6	92.3	86.6	80.5
130°	75.7	77.6	82.4	89.5	98.0	101.3	103.2	102.7	99.4	95.6	89.5
132.5°	78.6	80.0	84.7	90.9	98.9	102.7	105.5	107.9	105.5	102.7	98.4
135°	81.4	82.8	86.6	92.3	99.4	103.2	107.0	110.8	111.2	108.9	105.5
137.5°	83.8	84.7	88.5	93.2	99.4	103.2	107.0	112.2	115.0	114.1	111.2
140°	86.1	87.1	89.9	94.7	99.9	103.2	106.5	112.6	116.4	117.9	116.4
142.5°	88.0	89.0	91.4	95.6	99.9	102.7	106.0	111.7	116.9	119.7	120.7
145°	89.9	90.4	92.8	96.1	99.9	102.2	105.1	110.8	116.0	120.2	123.1
147.5°	91.4	91.8	93.2	96.6	99.9	101.8	104.1	108.9	114.1	118.8	123.1
150°	92.8	92.8	94.2	96.6	99.9	101.3	103.2	107.4	111.7	116.4	120.2
152.5°	93.7	93.7	95.1	97.0	99.4	100.8	102.7	106.0	109.8	114.1	117.9
155°	94.7	94.7	95.6	97.0	99.4	100.3	101.8	104.6	107.9	111.2	114.5
157.5°	95.6	95.6	96.1	97.5	98.9	99.9	101.3	103.7	106.0	108.9	111.7
160°	96.1	96.1	96.6	97.5	98.4	99.4	100.3	102.2	104.6	106.5	108.9
162.5°	96.6	96.6	97.0	97.5	98.4	98.9	99.4	101.3	102.7	104.6	106.5
165°	97.0	97.0	97.0	97.5	98.0	98.4	98.9	99.9	101.3	102.7	104.1
167.5°	97.5	97.5	97.5	97.5	98.0	98.0	98.4	98.9	99.9	100.8	101.8
170°	98.0	97.5	97.5	98.0	97.5	97.5	98.0	98.4	98.4	99.4	99.9
172.5°	98.0	98.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5	98.0	98.4
175°	98.0	98.0	97.5	97.5	97.5	97.0	97.0	97.0	97.0	97.0	97.0
177.5°	98.0	98.0	97.5	97.5	97.0	97.0	97.0	97.0	97.0	97.0	97.0
180°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	559.5	559.5	559.5	559.5	559.5	559.5	559.5	559.5	559.5	559.5
2.5°	563.2	560.9	559.9	559.5	559.0	558.5	557.6	556.6	555.7	555.7
5°	560.9	558.5	557.6	557.1	556.6	556.1	555.7	555.7	555.7	555.7
7.5°	557.1	554.7	553.8	553.3	553.3	552.8	552.8	552.8	552.4	552.8
10°	551.4	549.0	548.6	548.1	547.6	546.7	546.7	546.7	546.2	546.7
12.5°	544.3	541.9	541.5	541.0	540.5	540.1	540.1	539.6	539.6	540.1
15°	537.2	533.9	533.0	533.0	532.5	532.0	532.5	532.0	532.0	532.0
17.5°	526.8	525.4	524.0	523.0	522.5	522.1	522.1	521.6	521.6	521.6
20°	513.1	513.1	513.1	510.7	510.2	509.8	509.8	509.8	509.8	509.8
22.5°	499.8	497.5	499.3	497.9	497.0	496.0	496.5	496.5	496.5	496.5
25°	485.1	483.3	483.7	484.2	483.3	481.8	481.8	481.8	481.8	481.4
27.5°	469.5	468.1	467.6	468.1	469.1	468.1	466.7	465.3	465.7	465.7
30°	452.5	452.0	451.5	450.6	451.5	452.0	449.7	449.2	449.2	449.2
32.5°	435.5	435.0	433.6	432.6	433.1	434.0	433.1	432.1	432.1	432.1
35°	418.4	416.5	415.1	414.6	414.6	415.6	415.1	413.7	413.7	413.7
37.5°	398.5	399.0	396.6	396.2	396.2	396.2	397.1	394.7	395.2	394.7
40°	379.1	379.6	378.2	376.8	377.2	376.3	377.7	375.3	375.3	375.3
42.5°	359.7	358.8	359.2	356.4	356.9	356.9	357.4	355.9	355.5	355.0
45°	339.8	338.9	338.4	337.0	337.0	336.5	336.5	334.6	334.6	334.6
47.5°	319.0	318.5	317.6	316.6	316.6	316.2	315.2	314.8	314.3	314.3
50°	299.1	297.7	296.3	296.8	296.3	295.8	294.9	294.4	293.9	293.5
52.5°	277.8	277.8	275.9	275.9	275.9	275.5	274.5	273.6	273.6	273.1
55°	257.0	256.5	255.1	254.6	255.1	254.6	253.7	252.8	252.8	252.3
57.5°	236.2	235.2	234.8	234.8	234.3	234.3	232.9	231.9	232.4	231.9
60°	214.9	214.9	214.4	213.9	213.9	213.5	212.0	212.0	212.0	211.6
62.5°	194.5	194.5	193.6	193.1	193.6	193.1	192.6	192.2	191.7	191.2
65°	173.2	173.7	172.8	173.2	173.2	172.3	172.3	171.8	171.8	171.3
67.5°	153.4	153.4	152.9	152.9	153.4	152.9	152.9	152.4	152.4	151.9
70°	133.0	133.9	133.5	133.5	133.5	133.0	133.0	133.0	132.5	133.0
72.5°	112.6	112.6	112.6	112.6	112.6	113.1	113.1	113.1	113.1	112.6
75°	93.7	94.2	93.7	94.2	94.7	94.7	94.7	94.7	95.1	94.7
77.5°	75.3	75.7	75.7	76.7	76.7	76.7	77.2	77.2	77.2	77.2
80°	57.7	58.2	58.7	59.6	59.6	60.6	61.1	61.1	61.1	61.1
82.5°	41.7	43.1	43.5	45.0	45.4	45.4	46.4	46.9	46.9	46.9
85°	28.9	30.3	31.2	32.2	33.1	33.1	34.1	34.1	34.6	34.6
87.5°	18.0	19.4	20.4	21.8	22.2	22.7	23.2	23.7	24.1	24.1
90°	9.9	10.9	11.8	12.8	12.8	13.3	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	16.6	16.6	16.6	17.0	17.0	17.0	17.0	16.6	16.6
102.5°	18.0	18.5	18.9	19.4	19.4	19.4	19.9	19.9	19.9	19.9
105°	20.4	20.4	20.8	21.3	21.3	21.3	21.8	21.8	21.8	21.8
107.5°	23.2	23.2	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
110°	26.5	26.5	26.5	26.0	26.5	26.0	26.0	26.0	26.0	26.0



TEST NUMBER: P395803

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (3000K)

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	28.9	28.9	28.9	28.9
115°	36.4	34.1	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	36.0	35.0	35.0	34.6	34.6
120°	52.1	48.8	45.9	43.5	42.6	42.1	40.7	39.8	38.8	38.8
122.5°	59.6	56.3	53.5	51.1	50.2	49.2	47.8	46.9	45.9	45.9
125°	67.2	63.9	61.1	58.7	57.3	56.3	54.9	54.0	53.0	53.0
127.5°	75.3	71.0	68.2	65.8	64.4	63.9	62.0	61.1	60.1	60.1
130°	84.3	79.0	75.3	72.4	71.5	70.5	69.1	68.2	67.2	67.2
132.5°	93.2	88.0	83.8	80.0	78.6	77.6	75.7	74.8	73.8	73.8
135°	101.8	97.0	92.8	89.0	87.6	86.1	84.3	82.4	81.4	81.4
137.5°	108.4	105.1	101.3	98.0	96.6	95.1	93.2	91.4	89.9	90.4
140°	114.1	111.2	108.9	106.5	105.1	104.1	102.2	100.8	99.4	99.4
142.5°	119.3	116.9	114.5	112.6	112.2	111.7	110.3	108.9	107.9	107.9
145°	124.0	122.6	120.7	118.3	117.9	117.4	116.0	115.0	114.5	114.5
147.5°	125.4	125.9	125.4	124.0	123.5	123.1	122.1	121.2	120.7	120.7
150°	124.5	126.4	127.3	127.3	127.3	127.3	127.3	126.4	125.9	125.9
152.5°	121.6	124.5	126.4	127.8	128.3	128.7	128.7	129.2	128.7	128.7
155°	118.3	121.2	124.0	125.4	126.4	126.8	127.8	128.3	128.7	128.3
157.5°	114.5	116.9	118.8	121.6	122.6	123.5	124.5	125.4	125.9	125.4
160°	111.2	113.1	114.5	116.4	116.9	117.9	118.8	119.3	120.2	119.7
162.5°	107.9	109.3	110.8	111.7	112.6	113.1	114.1	114.5	115.0	114.5
165°	105.5	106.5	107.0	107.9	108.4	108.9	109.3	109.8	109.8	109.8
167.5°	102.7	103.7	104.1	104.6	105.1	105.5	105.5	106.0	106.0	106.0
170°	100.3	100.8	101.3	101.8	101.8	102.2	102.2	102.2	102.7	102.2
172.5°	98.4	98.4	98.4	98.9	98.9	98.9	98.9	98.9	98.9	98.4
175°	97.5	97.5	97.0	97.0	97.0	97.0	97.0	96.6	96.1	95.6
177.5°	97.0	96.6	96.6	96.1	96.1	96.1	95.6	95.1	94.7	94.2
180°	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6

(END OF REPORT)