

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: P395823

Luminaire Tested: **I3-WL-20L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395823
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-20L93050-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1527.5 lumens
Efficiency: N/A
Efficacy: 87.8 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

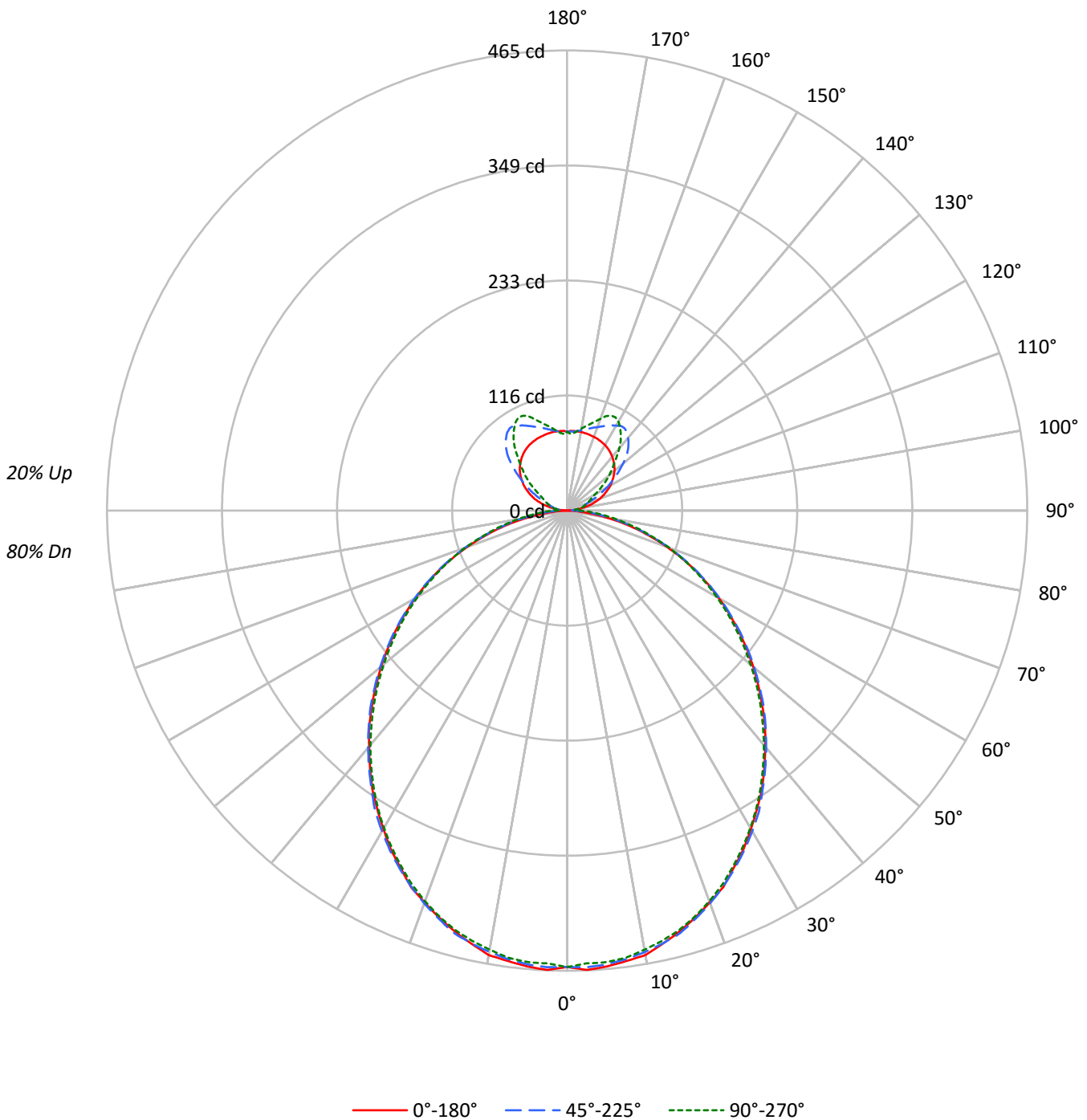
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3000K)

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°	2534	2534	2534
5°	2541	2482	2455
10°	2526	2415	2375
15°	2476	2348	2291
20°	2427	2253	2191
25°	2369	2157	2082
30°	2301	2058	1970
35°	2237	1948	1855
40°	2157	1835	1734
45°	2079	1725	1608
50°	1997	1603	1480
55°	1910	1480	1350
60°	1813	1342	1215
65°	1702	1192	1071
70°	1544	1018	919
75°	1330	807	738
80°	1015	581	551
85°	530	347	374



TEST NUMBER: P395823

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	2.9
10°-20°	123.6	8.1
20°-30°	183.0	12.0
30°-40°	213.8	14.0
40°-50°	214.8	14.1
50°-60°	188.8	12.4
60°-70°	141.4	9.3
70°-80°	80.4	5.3
80°-90°	25.4	1.7
90°-100°	9.2	0.6
100°-110°	22.3	1.5
110°-120°	37.1	2.4
120°-130°	52.0	3.4
130°-140°	59.9	3.9
140°-150°	57.2	3.7
150°-160°	43.0	2.8
160°-170°	24.4	1.6
170°-180°	7.7	0.5
0°-30°	350.1	22.9
0°-40°	563.9	36.9
0°-60°	967.5	63.3
0°-90°	1214.8	79.5
90°-120°	68.5	4.5
90°-150°	237.7	15.6
90°-180°	313.0	20.5
0°-180°	1527.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	462	458	460	459	458	44
15°	440	436	442	439	438	124
25°	398	397	400	398	397	184
35°	343	340	344	342	341	214
45°	279	278	281	278	276	215
55°	211	212	213	210	208	189
65°	143	143	144	143	141	141
75°	73	74	76	78	78	77
85°	12	16	22	27	28	16
90°	0	2	7	10	12	1
95°	7	7	7	7	8	7
105°	26	22	17	18	18	27
115°	43	53	33	26	26	42
125°	57	78	59	47	44	51
135°	67	85	87	72	67	52
145°	74	84	101	97	94	46
155°	78	83	94	104	106	36
165°	80	81	86	89	90	23
175°	81	80	80	80	79	8
180°	80	80	80	80	80	



TEST NUMBER: P395823

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1
2.5°	464.6	463.8	461.9	459.9	459.5	459.1	459.1	458.7	458.7	459.5	461.9
5°	462.3	461.9	459.9	458.0	457.6	457.6	457.2	457.2	457.2	458.0	460.3
7.5°	459.1	458.4	456.4	454.4	454.1	454.1	454.1	453.7	454.1	454.4	457.2
10°	456.0	455.6	453.7	451.3	450.5	450.5	450.2	449.4	449.4	450.2	452.9
12.5°	448.2	447.8	445.9	444.3	444.3	444.7	444.7	445.1	445.1	445.9	447.8
15°	440.0	439.6	437.7	436.1	436.1	436.1	435.7	435.7	436.1	438.5	442.0
17.5°	431.0	430.7	429.1	427.5	427.5	427.5	427.1	427.1	427.5	428.7	432.2
20°	421.3	420.9	419.3	417.8	417.8	417.8	417.4	417.8	417.8	419.3	422.5
22.5°	411.9	411.1	409.2	407.6	406.9	406.9	406.9	406.5	407.2	408.4	411.5
25°	398.3	397.9	397.1	395.9	396.7	397.1	396.3	395.5	395.5	397.1	399.8
27.5°	385.8	385.0	383.8	382.7	381.9	382.3	382.7	383.5	384.6	385.0	387.4
30°	371.4	371.0	369.8	368.2	368.6	369.0	369.0	369.0	369.8	373.3	374.1
32.5°	357.3	356.9	355.8	354.2	354.6	355.0	354.6	355.0	355.8	357.3	360.8
35°	343.3	342.5	341.3	340.9	340.5	340.5	340.5	340.9	341.3	342.5	344.4
37.5°	327.3	326.5	325.7	324.6	325.3	326.1	326.5	326.1	326.5	328.1	328.8
40°	311.3	310.9	310.1	309.3	309.7	310.1	309.7	310.9	311.7	312.5	312.8
42.5°	296.1	295.3	294.5	294.1	294.1	294.5	294.5	295.3	295.3	297.2	296.9
45°	278.9	278.5	278.1	278.1	278.5	278.5	278.5	278.9	279.3	280.5	280.9
47.5°	262.1	261.7	261.7	261.7	261.7	262.1	262.5	263.7	262.9	263.3	263.7
50°	245.4	245.0	245.0	245.0	245.8	245.8	246.5	246.9	247.3	246.5	246.9
52.5°	228.2	227.8	228.6	228.6	229.4	229.4	230.5	229.4	230.2	229.8	229.8
55°	211.4	211.0	211.8	211.4	212.2	212.2	213.0	213.4	213.0	213.0	213.0
57.5°	194.3	193.9	194.3	194.7	195.0	195.0	196.2	196.2	195.0	195.8	195.4
60°	177.1	176.7	177.1	177.5	177.9	177.9	178.3	177.5	178.3	178.7	178.3
62.5°	159.9	159.5	160.3	159.9	160.3	160.7	160.7	161.9	161.5	161.5	161.1
65°	142.8	142.4	142.4	142.4	142.8	143.2	143.6	143.9	143.9	144.3	143.9
67.5°	125.2	124.8	125.2	124.8	125.2	125.6	126.4	126.8	126.8	127.2	126.8
70°	107.3	107.7	107.3	107.7	108.1	108.4	108.8	109.6	109.6	109.6	109.6
72.5°	89.7	89.3	89.3	88.9	89.7	90.1	90.5	91.7	91.7	92.1	92.1
75°	72.6	71.8	72.2	71.8	73.3	73.7	73.7	74.9	75.3	76.1	75.7
77.5°	55.8	55.8	55.0	56.2	56.6	57.3	58.1	58.9	59.3	60.5	60.5
80°	39.8	39.8	39.4	40.2	41.7	42.1	43.3	43.7	44.9	45.6	46.0
82.5°	25.4	25.4	25.4	26.5	27.7	28.1	29.3	30.4	31.2	32.4	32.8
85°	12.5	13.3	13.3	14.8	15.6	16.4	16.8	18.3	19.5	21.1	22.2
87.5°	3.9	4.3	4.7	5.5	7.0	7.4	8.2	9.8	10.9	12.5	13.7
90°	0.4	0.4	0.8	1.2	2.0	2.3	3.1	3.9	5.1	6.2	7.0
92.5°	2.7	2.7	3.1	3.1	3.1	3.1	3.1	3.5	3.9	4.7	5.1
95°	6.6	10.5	6.2	5.9	6.6	6.6	7.0	6.6	6.6	6.6	6.6
97.5°	10.9	19.5	12.9	9.0	8.6	9.0	9.0	9.8	10.1	10.5	10.5
100°	16.0	24.6	22.6	14.8	12.1	11.7	11.7	11.7	12.1	12.5	12.9
102.5°	21.1	28.1	32.4	23.0	17.2	15.6	14.8	14.4	14.0	14.4	14.4
105°	26.1	31.6	39.8	31.2	24.6	22.2	19.9	17.2	16.8	16.8	16.8
107.5°	30.8	35.1	45.2	40.6	32.0	29.6	26.9	22.6	19.9	19.5	19.1
110°	35.1	38.6	49.2	48.4	40.2	36.7	34.3	29.6	25.7	23.0	21.8



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CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	39.0	42.1	51.9	55.0	49.2	44.9	41.3	36.7	32.4	28.9	26.1
115°	42.9	45.6	54.2	60.5	57.0	53.4	49.5	43.7	39.4	35.9	32.8
117.5°	46.8	49.2	56.6	64.4	63.6	61.2	58.1	51.1	46.0	42.5	39.0
120°	50.3	52.7	58.9	67.1	69.4	67.5	65.5	59.3	53.1	49.2	46.0
122.5°	53.4	55.4	61.2	69.4	73.7	73.3	71.4	67.1	60.9	56.2	52.3
125°	56.6	58.5	63.6	71.0	76.8	78.0	77.2	73.7	69.0	63.6	58.9
127.5°	59.7	61.2	65.9	72.6	79.2	81.5	81.9	79.6	76.1	71.4	66.3
130°	62.4	64.0	67.9	73.7	80.7	83.5	85.0	84.6	81.9	78.8	73.7
132.5°	64.8	65.9	69.8	74.9	81.5	84.6	87.0	88.9	87.0	84.6	81.1
135°	67.1	68.3	71.4	76.1	81.9	85.0	88.2	91.3	91.7	89.7	87.0
137.5°	69.0	69.8	72.9	76.8	81.9	85.0	88.2	92.5	94.8	94.0	91.7
140°	71.0	71.8	74.1	78.0	82.3	85.0	87.8	92.8	96.0	97.1	96.0
142.5°	72.6	73.3	75.3	78.8	82.3	84.6	87.4	92.1	96.4	98.7	99.5
145°	74.1	74.5	76.5	79.2	82.3	84.3	86.6	91.3	95.6	99.1	101.4
147.5°	75.3	75.7	76.8	79.6	82.3	83.9	85.8	89.7	94.0	97.9	101.4
150°	76.5	76.5	77.6	79.6	82.3	83.5	85.0	88.5	92.1	96.0	99.1
152.5°	77.2	77.2	78.4	80.0	81.9	83.1	84.6	87.4	90.5	94.0	97.1
155°	78.0	78.0	78.8	80.0	81.9	82.7	83.9	86.2	88.9	91.7	94.4
157.5°	78.8	78.8	79.2	80.4	81.5	82.3	83.5	85.4	87.4	89.7	92.1
160°	79.2	79.2	79.6	80.4	81.1	81.9	82.7	84.3	86.2	87.8	89.7
162.5°	79.6	79.6	80.0	80.4	81.1	81.5	81.9	83.5	84.6	86.2	87.8
165°	80.0	80.0	80.0	80.4	80.7	81.1	81.5	82.3	83.5	84.6	85.8
167.5°	80.4	80.4	80.4	80.4	80.7	80.7	81.1	81.5	82.3	83.1	83.9
170°	80.7	80.4	80.4	80.7	80.4	80.4	80.7	81.1	81.1	81.9	82.3
172.5°	80.7	80.7	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.7	81.1
175°	80.7	80.7	80.4	80.4	80.4	80.0	80.0	80.0	80.0	80.0	80.0
177.5°	80.7	80.7	80.4	80.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
180°	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6



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CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1
2.5°	464.2	462.3	461.5	461.1	460.7	460.3	459.5	458.7	458.0	458.0
5°	462.3	460.3	459.5	459.1	458.7	458.4	458.0	458.0	458.0	458.0
7.5°	459.1	457.2	456.4	456.0	456.0	455.6	455.6	455.6	455.2	455.6
10°	454.4	452.5	452.1	451.7	451.3	450.5	450.5	450.5	450.2	450.5
12.5°	448.6	446.6	446.3	445.9	445.5	445.1	445.1	444.7	444.7	445.1
15°	442.7	440.0	439.2	439.2	438.8	438.5	438.8	438.5	438.5	438.5
17.5°	434.2	433.0	431.8	431.0	430.7	430.3	430.3	429.9	429.9	429.9
20°	422.9	422.9	422.9	420.9	420.5	420.1	420.1	420.1	420.1	420.1
22.5°	411.9	410.0	411.5	410.4	409.6	408.8	409.2	409.2	409.2	409.2
25°	399.8	398.3	398.7	399.1	398.3	397.1	397.1	397.1	397.1	396.7
27.5°	387.0	385.8	385.4	385.8	386.6	385.8	384.6	383.5	383.8	383.8
30°	372.9	372.5	372.1	371.4	372.1	372.5	370.6	370.2	370.2	370.2
32.5°	358.9	358.5	357.3	356.5	356.9	357.7	356.9	356.1	356.1	356.1
35°	344.8	343.3	342.1	341.7	341.7	342.5	342.1	340.9	340.9	340.9
37.5°	328.5	328.8	326.9	326.5	326.5	326.5	327.3	325.3	325.7	325.3
40°	312.5	312.8	311.7	310.5	310.9	310.1	311.3	309.3	309.3	309.3
42.5°	296.5	295.7	296.1	293.7	294.1	294.1	294.5	293.3	293.0	292.6
45°	280.1	279.3	278.9	277.7	277.7	277.4	277.4	275.8	275.8	275.8
47.5°	262.9	262.5	261.7	261.0	261.0	260.6	259.8	259.4	259.0	259.0
50°	246.5	245.4	244.2	244.6	244.2	243.8	243.0	242.6	242.2	241.9
52.5°	229.0	229.0	227.4	227.4	227.4	227.0	226.2	225.5	225.5	225.1
55°	211.8	211.4	210.3	209.9	210.3	209.9	209.1	208.3	208.3	207.9
57.5°	194.7	193.9	193.5	193.5	193.1	193.1	191.9	191.1	191.5	191.1
60°	177.1	177.1	176.7	176.3	176.3	175.9	174.8	174.8	174.8	174.4
62.5°	160.3	160.3	159.5	159.2	159.5	159.2	158.8	158.4	158.0	157.6
65°	142.8	143.2	142.4	142.8	142.8	142.0	142.0	141.6	141.6	141.2
67.5°	126.4	126.4	126.0	126.0	126.4	126.0	126.0	125.6	125.6	125.2
70°	109.6	110.4	110.0	110.0	110.0	109.6	109.6	109.6	109.2	109.6
72.5°	92.8	92.8	92.8	92.8	92.8	93.2	93.2	93.2	93.2	92.8
75°	77.2	77.6	77.2	77.6	78.0	78.0	78.0	78.0	78.4	78.0
77.5°	62.0	62.4	62.4	63.2	63.2	63.2	63.6	63.6	63.6	63.6
80°	47.6	48.0	48.4	49.2	49.2	49.9	50.3	50.3	50.3	50.3
82.5°	34.3	35.5	35.9	37.1	37.4	37.4	38.2	38.6	38.6	38.6
85°	23.8	25.0	25.7	26.5	27.3	27.3	28.1	28.1	28.5	28.5
87.5°	14.8	16.0	16.8	17.9	18.3	18.7	19.1	19.5	19.9	19.9
90°	8.2	9.0	9.8	10.5	10.5	10.9	11.3	11.7	12.1	12.1
92.5°	5.9	6.2	7.0	7.4	7.4	7.8	8.2	8.2	8.6	8.6
95°	6.6	7.0	7.0	7.4	7.4	7.4	7.8	7.8	7.8	7.8
97.5°	10.1	10.1	10.1	9.8	9.8	9.8	9.8	9.8	9.8	9.8
100°	13.3	13.7	13.7	13.7	14.0	14.0	14.0	14.0	13.7	13.7
102.5°	14.8	15.2	15.6	16.0	16.0	16.0	16.4	16.4	16.4	16.4
105°	16.8	16.8	17.2	17.6	17.6	17.6	17.9	17.9	17.9	17.9
107.5°	19.1	19.1	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
110°	21.8	21.8	21.8	21.5	21.8	21.5	21.5	21.5	21.5	21.5



TEST NUMBER: P395823

CATALOG NUMBER: I3-WL-20L93050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	25.0	24.6	24.6	24.2	24.2	24.2	23.8	23.8	23.8	23.8
115°	30.0	28.1	27.3	26.5	26.5	26.5	26.1	26.1	26.1	26.1
117.5°	36.3	33.5	32.0	30.4	30.0	29.6	28.9	28.9	28.5	28.5
120°	42.9	40.2	37.8	35.9	35.1	34.7	33.5	32.8	32.0	32.0
122.5°	49.2	46.4	44.1	42.1	41.3	40.6	39.4	38.6	37.8	37.8
125°	55.4	52.7	50.3	48.4	47.2	46.4	45.2	44.5	43.7	43.7
127.5°	62.0	58.5	56.2	54.2	53.1	52.7	51.1	50.3	49.5	49.5
130°	69.4	65.1	62.0	59.7	58.9	58.1	57.0	56.2	55.4	55.4
132.5°	76.8	72.6	69.0	65.9	64.8	64.0	62.4	61.6	60.9	60.9
135°	83.9	80.0	76.5	73.3	72.2	71.0	69.4	67.9	67.1	67.1
137.5°	89.3	86.6	83.5	80.7	79.6	78.4	76.8	75.3	74.1	74.5
140°	94.0	91.7	89.7	87.8	86.6	85.8	84.3	83.1	81.9	81.9
142.5°	98.3	96.4	94.4	92.8	92.5	92.1	90.9	89.7	88.9	88.9
145°	102.2	101.0	99.5	97.5	97.1	96.7	95.6	94.8	94.4	94.4
147.5°	103.4	103.8	103.4	102.2	101.8	101.4	100.6	99.9	99.5	99.5
150°	102.6	104.2	104.9	104.9	104.9	104.9	104.9	104.2	103.8	103.8
152.5°	100.3	102.6	104.2	105.3	105.7	106.1	106.1	106.5	106.1	106.1
155°	97.5	99.9	102.2	103.4	104.2	104.5	105.3	105.7	106.1	105.7
157.5°	94.4	96.4	97.9	100.3	101.0	101.8	102.6	103.4	103.8	103.4
160°	91.7	93.2	94.4	96.0	96.4	97.1	97.9	98.3	99.1	98.7
162.5°	88.9	90.1	91.3	92.1	92.8	93.2	94.0	94.4	94.8	94.4
165°	87.0	87.8	88.2	88.9	89.3	89.7	90.1	90.5	90.5	90.5
167.5°	84.6	85.4	85.8	86.2	86.6	87.0	87.0	87.4	87.4	87.4
170°	82.7	83.1	83.5	83.9	83.9	84.3	84.3	84.3	84.6	84.3
172.5°	81.1	81.1	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.1
175°	80.4	80.4	80.0	80.0	80.0	80.0	80.0	79.6	79.2	78.8
177.5°	80.0	79.6	79.6	79.2	79.2	79.2	78.8	78.4	78.0	77.6
180°	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6

(END OF REPORT)