

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: P395838

Luminaire Tested: **I3-WL-30L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395838
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-30L83050-1D-UNV-W2A-W-4 (4000K)
Description: CORELITE I3, DOWNLIGHT TRAY
3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3008.9 lumens
Efficiency: N/A
Efficacy: 114.0 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

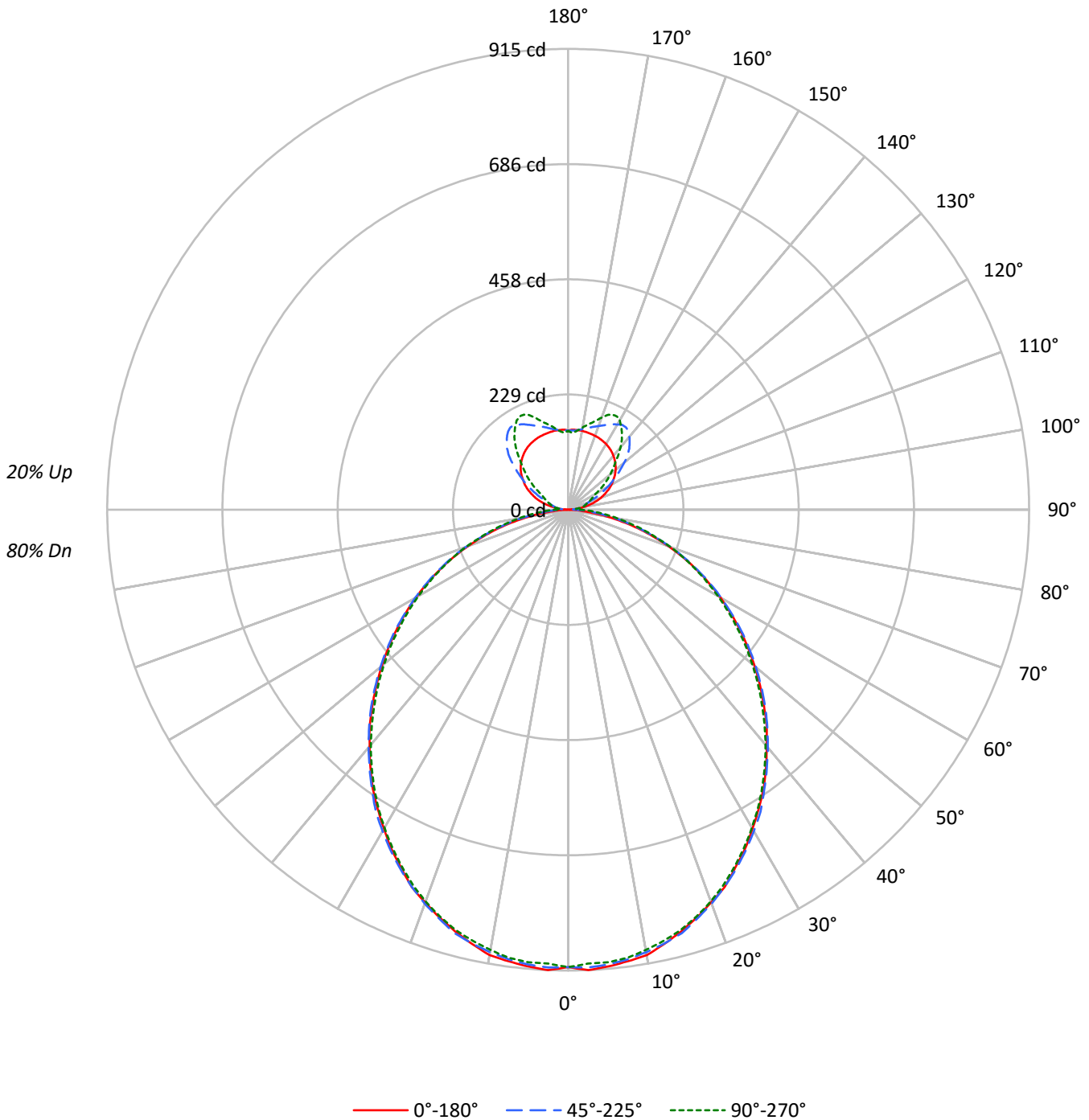
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395838

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395838

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (4000K)

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°	4992	4992	4992
5°	5005	4889	4836
10°	4976	4756	4678
15°	4876	4625	4512
20°	4780	4438	4317
25°	4665	4250	4101
30°	4531	4055	3881
35°	4406	3838	3654
40°	4248	3615	3416
45°	4096	3397	3167
50°	3933	3159	2916
55°	3763	2914	2659
60°	3571	2644	2394
65°	3351	2348	2110
70°	3040	2005	1811
75°	2619	1590	1455
80°	1999	1145	1085
85°	1044	684	736



TEST NUMBER: P395838

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	2.9
10°-20°	243.4	8.1
20°-30°	360.4	12.0
30°-40°	421.2	14.0
40°-50°	423.1	14.1
50°-60°	371.8	12.4
60°-70°	278.6	9.3
70°-80°	158.5	5.3
80°-90°	50.0	1.7
90°-100°	18.0	0.6
100°-110°	43.9	1.5
110°-120°	73.0	2.4
120°-130°	102.4	3.4
130°-140°	118.1	3.9
140°-150°	112.7	3.7
150°-160°	84.8	2.8
160°-170°	48.0	1.6
170°-180°	15.2	0.5
0°-30°	689.6	22.9
0°-40°	1110.8	36.9
0°-60°	1905.7	63.3
0°-90°	2392.8	79.5
90°-120°	135.0	4.5
90°-150°	468.2	15.6
90°-180°	616.0	20.5
0°-180°	3008.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	910	901	907	904	902	86
15°	867	859	871	864	864	244
25°	784	782	788	784	781	362
35°	676	671	678	673	672	422
45°	549	549	553	547	543	424
55°	416	418	420	414	410	372
65°	281	282	284	281	278	278
75°	143	145	149	154	154	151
85°	25	32	44	54	56	32
90°	1	5	14	21	24	2
95°	13	13	13	15	15	14
105°	52	44	33	35	35	54
115°	84	105	64	52	52	84
125°	111	154	116	93	86	100
135°	132	168	171	142	132	102
145°	146	166	200	191	186	91
155°	154	163	186	205	208	71
165°	158	160	169	176	178	45
175°	159	158	158	158	155	15
180°	157	157	157	157	157	



TEST NUMBER: P395838

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	915.1	913.6	909.8	905.9	905.2	904.4	904.4	903.6	903.6	905.2	909.8
5°	910.5	909.8	905.9	902.1	901.3	901.3	900.5	900.5	900.5	902.1	906.7
7.5°	904.4	902.8	899.0	895.2	894.4	894.4	894.4	893.6	894.4	895.2	900.5
10°	898.2	897.5	893.6	889.0	887.5	887.5	886.7	885.2	885.2	886.7	892.1
12.5°	882.9	882.1	878.3	875.2	875.2	876.0	876.0	876.7	876.7	878.3	882.1
15°	866.7	866.0	862.1	859.1	859.1	859.1	858.3	858.3	859.1	863.7	870.6
17.5°	849.1	848.3	845.2	842.1	842.1	842.1	841.4	841.4	842.1	844.5	851.4
20°	829.9	829.1	826.0	822.9	822.9	822.9	822.2	822.9	822.9	826.0	832.2
22.5°	811.4	809.9	806.0	803.0	801.4	801.4	801.4	800.7	802.2	804.5	810.6
25°	784.5	783.8	782.2	779.9	781.4	782.2	780.7	779.1	779.1	782.2	787.6
27.5°	759.9	758.4	756.1	753.8	752.2	753.0	753.8	755.3	757.6	758.4	763.0
30°	731.5	730.7	728.4	725.4	726.1	726.9	726.9	726.9	728.4	735.3	736.9
32.5°	703.8	703.1	700.8	697.7	698.5	699.2	698.5	699.2	700.8	703.8	710.8
35°	676.2	674.6	672.3	671.6	670.8	670.8	670.8	671.6	672.3	674.6	678.5
37.5°	644.7	643.1	641.6	639.3	640.8	642.4	643.1	642.4	643.1	646.2	647.7
40°	613.2	612.4	610.9	609.3	610.1	610.9	610.1	612.4	613.9	615.5	616.2
42.5°	583.2	581.7	580.1	579.4	579.4	580.1	580.1	581.7	581.7	585.5	584.7
45°	549.4	548.6	547.9	547.9	548.6	548.6	548.6	549.4	550.2	552.5	553.2
47.5°	516.4	515.6	515.6	515.6	515.6	516.4	517.1	519.4	517.9	518.7	519.4
50°	483.3	482.5	482.5	482.5	484.1	484.1	485.6	486.4	487.2	485.6	486.4
52.5°	449.5	448.7	450.3	450.3	451.8	451.8	454.1	451.8	453.3	452.6	452.6
55°	416.5	415.7	417.2	416.5	418.0	418.0	419.5	420.3	419.5	419.5	419.5
57.5°	382.7	381.9	382.7	383.4	384.2	384.2	386.5	386.5	384.2	385.7	385.0
60°	348.8	348.1	348.8	349.6	350.4	350.4	351.2	349.6	351.2	351.9	351.2
62.5°	315.0	314.3	315.8	315.0	315.8	316.6	316.6	318.9	318.1	318.1	317.3
65°	281.2	280.5	280.5	280.5	281.2	282.0	282.8	283.5	283.5	284.3	283.5
67.5°	246.7	245.9	246.7	245.9	246.7	247.4	249.0	249.7	249.7	250.5	249.7
70°	211.3	212.1	211.3	212.1	212.8	213.6	214.4	215.9	215.9	215.9	215.9
72.5°	176.7	176.0	176.0	175.2	176.7	177.5	178.3	180.6	180.6	181.3	181.3
75°	142.9	141.4	142.2	141.4	144.5	145.2	145.2	147.5	148.3	149.8	149.1
77.5°	109.9	109.9	108.3	110.6	111.4	113.0	114.5	116.0	116.8	119.1	119.1
80°	78.4	78.4	77.6	79.1	82.2	83.0	85.3	86.1	88.4	89.9	90.7
82.5°	49.9	49.9	49.9	52.3	54.6	55.3	57.6	59.9	61.5	63.8	64.5
85°	24.6	26.1	26.1	29.2	30.7	32.3	33.0	36.1	38.4	41.5	43.8
87.5°	7.7	8.5	9.2	10.8	13.8	14.6	16.1	19.2	21.5	24.6	26.9
90°	0.8	0.8	1.5	2.3	3.8	4.6	6.1	7.7	10.0	12.3	13.8
92.5°	5.4	5.4	6.1	6.1	6.1	6.1	6.1	6.9	7.7	9.2	10.0
95°	13.1	20.7	12.3	11.5	13.1	13.1	13.8	13.1	13.1	13.1	13.1
97.5°	21.5	38.4	25.4	17.7	16.9	17.7	17.7	19.2	20.0	20.7	20.7
100°	31.5	48.4	44.6	29.2	23.8	23.1	23.1	23.1	23.8	24.6	25.4
102.5°	41.5	55.3	63.8	45.3	33.8	30.7	29.2	28.4	27.7	28.4	28.4
105°	51.5	62.2	78.4	61.5	48.4	43.8	39.2	33.8	33.0	33.0	33.0
107.5°	60.7	69.2	89.1	79.9	63.0	58.4	53.0	44.6	39.2	38.4	37.7
110°	69.2	76.1	96.8	95.3	79.1	72.2	67.6	58.4	50.7	45.3	43.0



TEST NUMBER: P395838

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	76.8	83.0	102.2	108.3	96.8	88.4	81.4	72.2	63.8	56.9	51.5
115°	84.5	89.9	106.8	119.1	112.2	105.3	97.6	86.1	77.6	70.7	64.5
117.5°	92.2	96.8	111.4	126.8	125.2	120.6	114.5	100.7	90.7	83.8	76.8
120°	99.1	103.7	116.0	132.2	136.8	132.9	129.1	116.8	104.5	96.8	90.7
122.5°	105.3	109.1	120.6	136.8	145.2	144.5	140.6	132.2	119.9	110.6	103.0
125°	111.4	115.3	125.2	139.8	151.4	153.7	152.1	145.2	136.0	125.2	116.0
127.5°	117.6	120.6	129.9	142.9	156.0	160.6	161.4	156.8	149.8	140.6	130.6
130°	122.9	126.0	133.7	145.2	159.1	164.4	167.5	166.7	161.4	155.2	145.2
132.5°	127.6	129.9	137.5	147.5	160.6	166.7	171.3	175.2	171.3	166.7	159.8
135°	132.2	134.5	140.6	149.8	161.4	167.5	173.7	179.8	180.6	176.7	171.3
137.5°	136.0	137.5	143.7	151.4	161.4	167.5	173.7	182.1	186.7	185.2	180.6
140°	139.8	141.4	146.0	153.7	162.1	167.5	172.9	182.9	189.0	191.3	189.0
142.5°	142.9	144.5	148.3	155.2	162.1	166.7	172.1	181.3	189.8	194.4	195.9
145°	146.0	146.8	150.6	156.0	162.1	166.0	170.6	179.8	188.3	195.2	199.8
147.5°	148.3	149.1	151.4	156.8	162.1	165.2	169.0	176.7	185.2	192.9	199.8
150°	150.6	150.6	152.9	156.8	162.1	164.4	167.5	174.4	181.3	189.0	195.2
152.5°	152.1	152.1	154.4	157.5	161.4	163.7	166.7	172.1	178.3	185.2	191.3
155°	153.7	153.7	155.2	157.5	161.4	162.9	165.2	169.8	175.2	180.6	185.9
157.5°	155.2	155.2	156.0	158.3	160.6	162.1	164.4	168.3	172.1	176.7	181.3
160°	156.0	156.0	156.8	158.3	159.8	161.4	162.9	166.0	169.8	172.9	176.7
162.5°	156.8	156.8	157.5	158.3	159.8	160.6	161.4	164.4	166.7	169.8	172.9
165°	157.5	157.5	157.5	158.3	159.1	159.8	160.6	162.1	164.4	166.7	169.0
167.5°	158.3	158.3	158.3	158.3	159.1	159.1	159.8	160.6	162.1	163.7	165.2
170°	159.1	158.3	158.3	159.1	158.3	158.3	159.1	159.8	159.8	161.4	162.1
172.5°	159.1	159.1	158.3	158.3	158.3	158.3	158.3	158.3	158.3	159.1	159.8
175°	159.1	159.1	158.3	158.3	158.3	157.5	157.5	157.5	157.5	157.5	157.5
177.5°	159.1	159.1	158.3	158.3	157.5	157.5	157.5	157.5	157.5	157.5	157.5
180°	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8



TEST NUMBER: P395838

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	914.4	910.5	909.0	908.2	907.5	906.7	905.2	903.6	902.1	902.1
5°	910.5	906.7	905.2	904.4	903.6	902.8	902.1	902.1	902.1	902.1
7.5°	904.4	900.5	899.0	898.2	898.2	897.5	897.5	897.5	896.7	897.5
10°	895.2	891.3	890.6	889.8	889.0	887.5	887.5	887.5	886.7	887.5
12.5°	883.6	879.8	879.0	878.3	877.5	876.7	876.7	876.0	876.0	876.7
15°	872.1	866.7	865.2	865.2	864.4	863.7	864.4	863.7	863.7	863.7
17.5°	855.2	852.9	850.6	849.1	848.3	847.5	847.5	846.8	846.8	846.8
20°	832.9	832.9	832.9	829.1	828.3	827.5	827.5	827.5	827.5	827.5
22.5°	811.4	807.6	810.6	808.3	806.8	805.3	806.0	806.0	806.0	806.0
25°	787.6	784.5	785.3	786.1	784.5	782.2	782.2	782.2	782.2	781.4
27.5°	762.2	759.9	759.2	759.9	761.5	759.9	757.6	755.3	756.1	756.1
30°	734.6	733.8	733.0	731.5	733.0	733.8	730.0	729.2	729.2	729.2
32.5°	706.9	706.1	703.8	702.3	703.1	704.6	703.1	701.5	701.5	701.5
35°	679.3	676.2	673.9	673.1	673.1	674.6	673.9	671.6	671.6	671.6
37.5°	647.0	647.7	643.9	643.1	643.1	643.1	644.7	640.8	641.6	640.8
40°	615.5	616.2	613.9	611.6	612.4	610.9	613.2	609.3	609.3	609.3
42.5°	584.0	582.4	583.2	578.6	579.4	579.4	580.1	577.8	577.1	576.3
45°	551.7	550.2	549.4	547.1	547.1	546.3	546.3	543.2	543.2	543.2
47.5°	517.9	517.1	515.6	514.0	514.0	513.3	511.7	511.0	510.2	510.2
50°	485.6	483.3	481.0	481.8	481.0	480.2	478.7	477.9	477.2	476.4
52.5°	451.0	451.0	448.0	448.0	448.0	447.2	445.7	444.1	444.1	443.4
55°	417.2	416.5	414.2	413.4	414.2	413.4	411.9	410.3	410.3	409.5
57.5°	383.4	381.9	381.1	381.1	380.3	380.3	378.0	376.5	377.3	376.5
60°	348.8	348.8	348.1	347.3	347.3	346.5	344.2	344.2	344.2	343.5
62.5°	315.8	315.8	314.3	313.5	314.3	313.5	312.7	312.0	311.2	310.4
65°	281.2	282.0	280.5	281.2	281.2	279.7	279.7	278.9	278.9	278.2
67.5°	249.0	249.0	248.2	248.2	249.0	248.2	248.2	247.4	247.4	246.7
70°	215.9	217.5	216.7	216.7	216.7	215.9	215.9	215.9	215.1	215.9
72.5°	182.9	182.9	182.9	182.9	182.9	183.6	183.6	183.6	183.6	182.9
75°	152.1	152.9	152.1	152.9	153.7	153.7	153.7	153.7	154.4	153.7
77.5°	122.2	122.9	122.9	124.5	124.5	124.5	125.2	125.2	125.2	125.2
80°	93.7	94.5	95.3	96.8	96.8	98.4	99.1	99.1	99.1	99.1
82.5°	67.6	69.9	70.7	73.0	73.8	73.8	75.3	76.1	76.1	76.1
85°	46.9	49.2	50.7	52.3	53.8	53.8	55.3	55.3	56.1	56.1
87.5°	29.2	31.5	33.0	35.3	36.1	36.9	37.7	38.4	39.2	39.2
90°	16.1	17.7	19.2	20.7	20.7	21.5	22.3	23.1	23.8	23.8
92.5°	11.5	12.3	13.8	14.6	14.6	15.4	16.1	16.1	16.9	16.9
95°	13.1	13.8	13.8	14.6	14.6	14.6	15.4	15.4	15.4	15.4
97.5°	20.0	20.0	20.0	19.2	19.2	19.2	19.2	19.2	19.2	19.2
100°	26.1	26.9	26.9	26.9	27.7	27.7	27.7	27.7	26.9	26.9
102.5°	29.2	30.0	30.7	31.5	31.5	31.5	32.3	32.3	32.3	32.3
105°	33.0	33.0	33.8	34.6	34.6	34.6	35.3	35.3	35.3	35.3
107.5°	37.7	37.7	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
110°	43.0	43.0	43.0	42.3	43.0	42.3	42.3	42.3	42.3	42.3



TEST NUMBER: P395838

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	49.2	48.4	48.4	47.6	47.6	47.6	46.9	46.9	46.9	46.9
115°	59.2	55.3	53.8	52.3	52.3	52.3	51.5	51.5	51.5	51.5
117.5°	71.5	66.1	63.0	59.9	59.2	58.4	56.9	56.9	56.1	56.1
120°	84.5	79.1	74.5	70.7	69.2	68.4	66.1	64.5	63.0	63.0
122.5°	96.8	91.4	86.8	83.0	81.4	79.9	77.6	76.1	74.5	74.5
125°	109.1	103.7	99.1	95.3	93.0	91.4	89.1	87.6	86.1	86.1
127.5°	122.2	115.3	110.6	106.8	104.5	103.7	100.7	99.1	97.6	97.6
130°	136.8	128.3	122.2	117.6	116.0	114.5	112.2	110.6	109.1	109.1
132.5°	151.4	142.9	136.0	129.9	127.6	126.0	122.9	121.4	119.9	119.9
135°	165.2	157.5	150.6	144.5	142.2	139.8	136.8	133.7	132.2	132.2
137.5°	176.0	170.6	164.4	159.1	156.8	154.4	151.4	148.3	146.0	146.8
140°	185.2	180.6	176.7	172.9	170.6	169.0	166.0	163.7	161.4	161.4
142.5°	193.6	189.8	185.9	182.9	182.1	181.3	179.0	176.7	175.2	175.2
145°	201.3	199.0	195.9	192.1	191.3	190.6	188.3	186.7	185.9	185.9
147.5°	203.6	204.4	203.6	201.3	200.5	199.8	198.2	196.7	195.9	195.9
150°	202.1	205.2	206.7	206.7	206.7	206.7	206.7	205.2	204.4	204.4
152.5°	197.5	202.1	205.2	207.5	208.2	209.0	209.0	209.8	209.0	209.0
155°	192.1	196.7	201.3	203.6	205.2	205.9	207.5	208.2	209.0	208.2
157.5°	185.9	189.8	192.9	197.5	199.0	200.5	202.1	203.6	204.4	203.6
160°	180.6	183.6	185.9	189.0	189.8	191.3	192.9	193.6	195.2	194.4
162.5°	175.2	177.5	179.8	181.3	182.9	183.6	185.2	185.9	186.7	185.9
165°	171.3	172.9	173.7	175.2	176.0	176.7	177.5	178.3	178.3	178.3
167.5°	166.7	168.3	169.0	169.8	170.6	171.3	171.3	172.1	172.1	172.1
170°	162.9	163.7	164.4	165.2	165.2	166.0	166.0	166.0	166.7	166.0
172.5°	159.8	159.8	159.8	160.6	160.6	160.6	160.6	160.6	160.6	159.8
175°	158.3	158.3	157.5	157.5	157.5	157.5	157.5	156.8	156.0	155.2
177.5°	157.5	156.8	156.8	156.0	156.0	156.0	155.2	154.4	153.7	152.9
180°	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8

(END OF REPORT)