

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: P395836

Luminaire Tested: **I3-WL-30L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395836  
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 (3000K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2703.2 lumens  
Efficiency: N/A  
Efficacy: 105.2 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

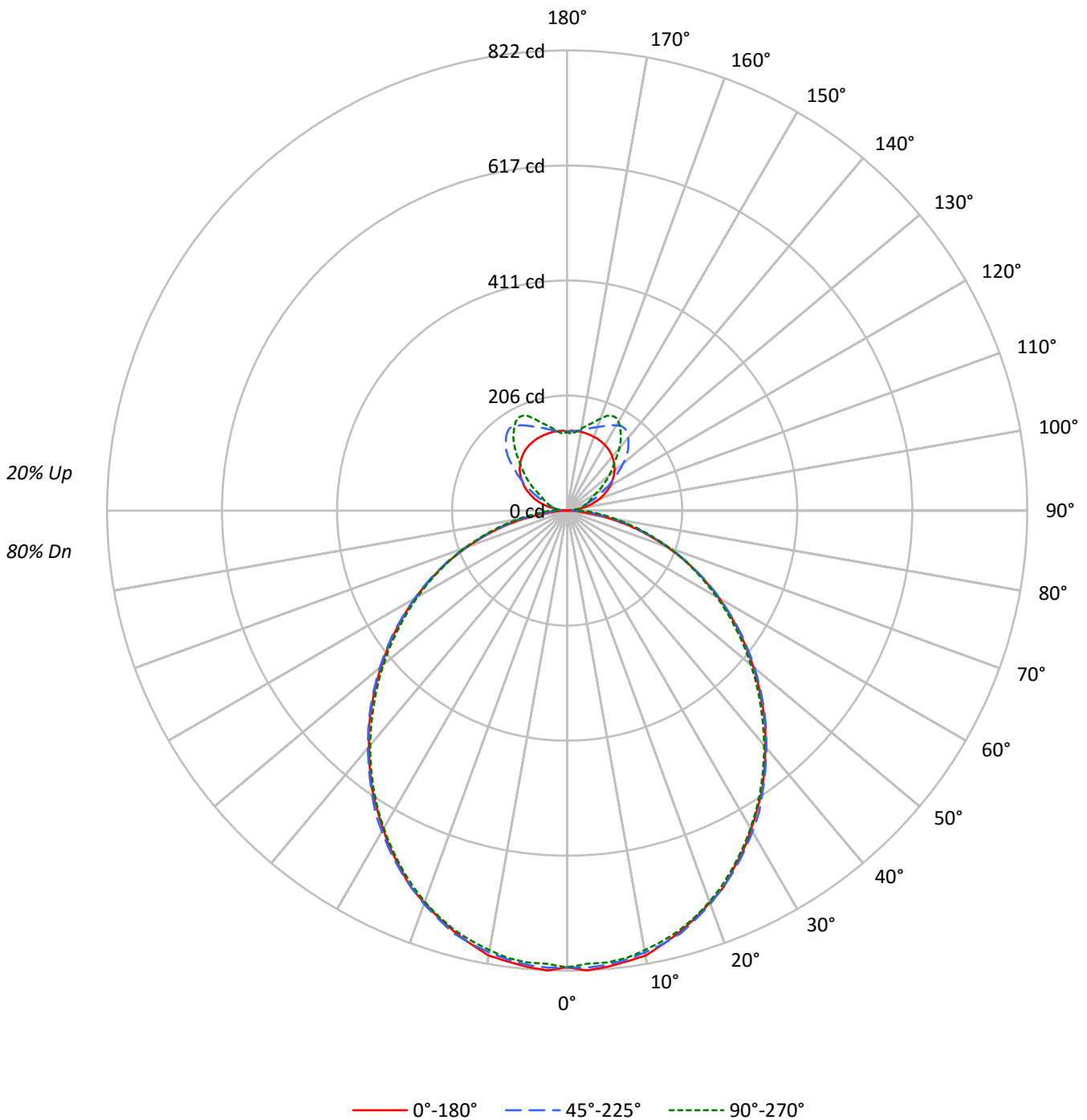
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4485	4485	4485
5°	4497	4392	4345
10°	4471	4273	4203
15°	4381	4155	4053
20°	4294	3987	3878
25°	4191	3818	3685
30°	4071	3643	3487
35°	3958	3448	3282
40°	3817	3248	3069
45°	3680	3052	2845
50°	3534	2838	2619
55°	3380	2618	2388
60°	3209	2375	2151
65°	3012	2110	1895
70°	2731	1802	1627
75°	2353	1428	1307
80°	1795	1029	975
85°	938	614	661



TEST NUMBER: P395836

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.1	2.9
10°-20°	218.7	8.1
20°-30°	323.8	12.0
30°-40°	378.4	14.0
40°-50°	380.1	14.1
50°-60°	334.1	12.4
60°-70°	250.3	9.3
70°-80°	142.4	5.3
80°-90°	44.9	1.7
90°-100°	16.2	0.6
100°-110°	39.5	1.5
110°-120°	65.6	2.4
120°-130°	92.0	3.4
130°-140°	106.1	3.9
140°-150°	101.3	3.7
150°-160°	76.2	2.8
160°-170°	43.1	1.6
170°-180°	13.6	0.5
0°-30°	619.5	22.9
0°-40°	997.9	36.9
0°-60°	1712.1	63.3
0°-90°	2149.7	79.5
90°-120°	121.3	4.5
90°-150°	420.6	15.6
90°-180°	554.0	20.5
0°-180°	2703.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	818	810	815	812	810	78
15°	779	772	782	777	776	220
25°	705	703	708	705	702	325
35°	608	603	610	605	603	379
45°	494	493	497	492	488	381
55°	374	376	377	372	368	334
65°	253	253	255	253	250	250
75°	128	130	134	138	138	136
85°	22	29	39	48	50	29
90°	1	4	12	19	21	2
95°	12	12	12	13	14	13
105°	46	39	30	31	32	48
115°	76	95	58	47	46	75
125°	100	138	104	84	77	90
135°	119	150	154	128	119	92
145°	131	149	180	172	167	82
155°	138	146	167	184	187	64
165°	142	144	152	158	160	40
175°	143	142	142	142	139	14
180°	141	141	141	141	141	



TEST NUMBER: P395836

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9
2.5°	822.2	820.8	817.3	813.9	813.2	812.5	812.5	811.8	811.8	813.2	817.3
5°	818.0	817.3	813.9	810.4	809.7	809.7	809.0	809.0	809.0	810.4	814.6
7.5°	812.5	811.1	807.7	804.2	803.5	803.5	803.5	802.8	803.5	804.2	809.0
10°	807.0	806.3	802.8	798.7	797.3	797.3	796.6	795.2	795.2	796.6	801.4
12.5°	793.2	792.5	789.0	786.3	786.3	786.9	786.9	787.6	787.6	789.0	792.5
15°	778.7	778.0	774.5	771.8	771.8	771.8	771.1	771.1	771.8	775.9	782.1
17.5°	762.8	762.1	759.3	756.6	756.6	756.6	755.9	755.9	756.6	758.6	764.9
20°	745.5	744.8	742.1	739.3	739.3	739.3	738.6	739.3	739.3	742.1	747.6
22.5°	729.0	727.6	724.1	721.4	720.0	720.0	720.0	719.3	720.7	722.7	728.3
25°	704.8	704.1	702.7	700.7	702.0	702.7	701.3	700.0	700.0	702.7	707.6
27.5°	682.7	681.3	679.3	677.2	675.8	676.5	677.2	678.6	680.6	681.3	685.5
30°	657.2	656.5	654.4	651.6	652.3	653.0	653.0	653.0	654.4	660.6	662.0
32.5°	632.3	631.6	629.6	626.8	627.5	628.2	627.5	628.2	629.6	632.3	638.5
35°	607.5	606.1	604.0	603.3	602.6	602.6	602.6	603.3	604.0	606.1	609.5
37.5°	579.2	577.8	576.4	574.3	575.7	577.1	577.8	577.1	577.8	580.5	581.9
40°	550.9	550.2	548.8	547.4	548.1	548.8	548.1	550.2	551.6	552.9	553.6
42.5°	523.9	522.6	521.2	520.5	520.5	521.2	521.2	522.6	522.6	526.0	525.3
45°	493.6	492.9	492.2	492.2	492.9	492.9	492.9	493.6	494.3	496.3	497.0
47.5°	463.9	463.2	463.2	463.2	463.2	463.9	464.6	466.6	465.3	466.0	466.6
50°	434.2	433.5	433.5	433.5	434.9	434.9	436.3	437.0	437.7	436.3	437.0
52.5°	403.8	403.1	404.5	404.5	405.9	405.9	408.0	405.9	407.3	406.6	406.6
55°	374.1	373.5	374.8	374.1	375.5	375.5	376.9	377.6	376.9	376.9	376.9
57.5°	343.8	343.1	343.8	344.5	345.2	345.2	347.2	347.2	345.2	346.5	345.8
60°	313.4	312.7	313.4	314.1	314.8	314.8	315.5	314.1	315.5	316.2	315.5
62.5°	283.0	282.3	283.7	283.0	283.7	284.4	284.4	286.5	285.8	285.8	285.1
65°	252.7	252.0	252.0	252.0	252.7	253.3	254.0	254.7	254.7	255.4	254.7
67.5°	221.6	220.9	221.6	220.9	221.6	222.3	223.7	224.3	224.3	225.0	224.3
70°	189.8	190.5	189.8	190.5	191.2	191.9	192.6	194.0	194.0	194.0	194.0
72.5°	158.8	158.1	158.1	157.4	158.8	159.5	160.2	162.2	162.2	162.9	162.9
75°	128.4	127.0	127.7	127.0	129.8	130.5	130.5	132.5	133.2	134.6	133.9
77.5°	98.7	98.7	97.3	99.4	100.1	101.5	102.9	104.2	104.9	107.0	107.0
80°	70.4	70.4	69.7	71.1	73.9	74.6	76.6	77.3	79.4	80.8	81.5
82.5°	44.9	44.9	44.9	46.9	49.0	49.7	51.8	53.8	55.2	57.3	58.0
85°	22.1	23.5	23.5	26.2	27.6	29.0	29.7	32.4	34.5	37.3	39.3
87.5°	6.9	7.6	8.3	9.7	12.4	13.1	14.5	17.3	19.3	22.1	24.2
90°	0.7	0.7	1.4	2.1	3.5	4.1	5.5	6.9	9.0	11.0	12.4
92.5°	4.8	4.8	5.5	5.5	5.5	5.5	5.5	6.2	6.9	8.3	9.0
95°	11.7	18.6	11.0	10.4	11.7	11.7	12.4	11.7	11.7	11.7	11.7
97.5°	19.3	34.5	22.8	15.9	15.2	15.9	15.9	17.3	17.9	18.6	18.6
100°	28.3	43.5	40.0	26.2	21.4	20.7	20.7	20.7	21.4	22.1	22.8
102.5°	37.3	49.7	57.3	40.7	30.4	27.6	26.2	25.5	24.9	25.5	25.5
105°	46.3	55.9	70.4	55.2	43.5	39.3	35.2	30.4	29.7	29.7	29.7
107.5°	54.5	62.1	80.1	71.8	56.6	52.5	47.6	40.0	35.2	34.5	33.8
110°	62.1	68.3	87.0	85.6	71.1	64.9	60.7	52.5	45.6	40.7	38.7



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CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	69.0	74.6	91.8	97.3	87.0	79.4	73.2	64.9	57.3	51.1	46.3
115°	75.9	80.8	96.0	107.0	100.8	94.6	87.7	77.3	69.7	63.5	58.0
117.5°	82.8	87.0	100.1	113.9	112.5	108.4	102.9	90.4	81.5	75.2	69.0
120°	89.0	93.2	104.2	118.7	122.9	119.4	116.0	104.9	93.9	87.0	81.5
122.5°	94.6	98.0	108.4	122.9	130.5	129.8	126.3	118.7	107.7	99.4	92.5
125°	100.1	103.5	112.5	125.6	136.0	138.1	136.7	130.5	122.2	112.5	104.2
127.5°	105.6	108.4	116.7	128.4	140.1	144.3	145.0	140.8	134.6	126.3	117.4
130°	110.4	113.2	120.1	130.5	142.9	147.7	150.5	149.8	145.0	139.4	130.5
132.5°	114.6	116.7	123.6	132.5	144.3	149.8	153.9	157.4	153.9	149.8	143.6
135°	118.7	120.8	126.3	134.6	145.0	150.5	156.0	161.5	162.2	158.8	153.9
137.5°	122.2	123.6	129.1	136.0	145.0	150.5	156.0	163.6	167.7	166.4	162.2
140°	125.6	127.0	131.2	138.1	145.7	150.5	155.3	164.3	169.8	171.9	169.8
142.5°	128.4	129.8	133.2	139.4	145.7	149.8	154.6	162.9	170.5	174.6	176.0
145°	131.2	131.8	135.3	140.1	145.7	149.1	153.2	161.5	169.1	175.3	179.5
147.5°	133.2	133.9	136.0	140.8	145.7	148.4	151.9	158.8	166.4	173.3	179.5
150°	135.3	135.3	137.4	140.8	145.7	147.7	150.5	156.7	162.9	169.8	175.3
152.5°	136.7	136.7	138.8	141.5	145.0	147.0	149.8	154.6	160.2	166.4	171.9
155°	138.1	138.1	139.4	141.5	145.0	146.3	148.4	152.6	157.4	162.2	167.1
157.5°	139.4	139.4	140.1	142.2	144.3	145.7	147.7	151.2	154.6	158.8	162.9
160°	140.1	140.1	140.8	142.2	143.6	145.0	146.3	149.1	152.6	155.3	158.8
162.5°	140.8	140.8	141.5	142.2	143.6	144.3	145.0	147.7	149.8	152.6	155.3
165°	141.5	141.5	141.5	142.2	142.9	143.6	144.3	145.7	147.7	149.8	151.9
167.5°	142.2	142.2	142.2	142.2	142.9	142.9	143.6	144.3	145.7	147.0	148.4
170°	142.9	142.2	142.2	142.9	142.2	142.2	142.9	143.6	143.6	145.0	145.7
172.5°	142.9	142.9	142.2	142.2	142.2	142.2	142.2	142.2	142.2	142.9	143.6
175°	142.9	142.9	142.2	142.2	142.2	141.5	141.5	141.5	141.5	141.5	141.5
177.5°	142.9	142.9	142.2	142.2	141.5	141.5	141.5	141.5	141.5	141.5	141.5
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



TEST NUMBER: P395836

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9	815.9
2.5°	821.5	818.0	816.6	815.9	815.2	814.6	813.2	811.8	810.4	810.4
5°	818.0	814.6	813.2	812.5	811.8	811.1	810.4	810.4	810.4	810.4
7.5°	812.5	809.0	807.7	807.0	807.0	806.3	806.3	806.3	805.6	806.3
10°	804.2	800.8	800.1	799.4	798.7	797.3	797.3	797.3	796.6	797.3
12.5°	793.8	790.4	789.7	789.0	788.3	787.6	787.6	786.9	786.9	787.6
15°	783.5	778.7	777.3	777.3	776.6	775.9	776.6	775.9	775.9	775.9
17.5°	768.3	766.2	764.2	762.8	762.1	761.4	761.4	760.7	760.7	760.7
20°	748.3	748.3	748.3	744.8	744.1	743.5	743.5	743.5	743.5	743.5
22.5°	729.0	725.5	728.3	726.2	724.8	723.4	724.1	724.1	724.1	724.1
25°	707.6	704.8	705.5	706.2	704.8	702.7	702.7	702.7	702.7	702.0
27.5°	684.8	682.7	682.0	682.7	684.1	682.7	680.6	678.6	679.3	679.3
30°	659.9	659.2	658.5	657.2	658.5	659.2	655.8	655.1	655.1	655.1
32.5°	635.1	634.4	632.3	630.9	631.6	633.0	631.6	630.2	630.2	630.2
35°	610.2	607.5	605.4	604.7	604.7	606.1	605.4	603.3	603.3	603.3
37.5°	581.2	581.9	578.5	577.8	577.8	577.8	579.2	575.7	576.4	575.7
40°	552.9	553.6	551.6	549.5	550.2	548.8	550.9	547.4	547.4	547.4
42.5°	524.6	523.3	523.9	519.8	520.5	520.5	521.2	519.1	518.4	517.7
45°	495.6	494.3	493.6	491.5	491.5	490.8	490.8	488.0	488.0	488.0
47.5°	465.3	464.6	463.2	461.8	461.8	461.1	459.7	459.1	458.4	458.4
50°	436.3	434.2	432.1	432.8	432.1	431.4	430.1	429.4	428.7	428.0
52.5°	405.2	405.2	402.4	402.4	402.4	401.8	400.4	399.0	399.0	398.3
55°	374.8	374.1	372.1	371.4	372.1	371.4	370.0	368.6	368.6	367.9
57.5°	344.5	343.1	342.4	342.4	341.7	341.7	339.6	338.2	338.9	338.2
60°	313.4	313.4	312.7	312.0	312.0	311.3	309.3	309.3	309.3	308.6
62.5°	283.7	283.7	282.3	281.6	282.3	281.6	281.0	280.3	279.6	278.9
65°	252.7	253.3	252.0	252.7	252.7	251.3	251.3	250.6	250.6	249.9
67.5°	223.7	223.7	223.0	223.0	223.7	223.0	223.0	222.3	222.3	221.6
70°	194.0	195.4	194.7	194.7	194.7	194.0	194.0	194.0	193.3	194.0
72.5°	164.3	164.3	164.3	164.3	164.3	165.0	165.0	165.0	165.0	164.3
75°	136.7	137.4	136.7	137.4	138.1	138.1	138.1	138.1	138.8	138.1
77.5°	109.8	110.4	110.4	111.8	111.8	111.8	112.5	112.5	112.5	112.5
80°	84.2	84.9	85.6	87.0	87.0	88.4	89.0	89.0	89.0	89.0
82.5°	60.7	62.8	63.5	65.6	66.3	66.3	67.6	68.3	68.3	68.3
85°	42.1	44.2	45.6	46.9	48.3	48.3	49.7	49.7	50.4	50.4
87.5°	26.2	28.3	29.7	31.8	32.4	33.1	33.8	34.5	35.2	35.2
90°	14.5	15.9	17.3	18.6	18.6	19.3	20.0	20.7	21.4	21.4
92.5°	10.4	11.0	12.4	13.1	13.1	13.8	14.5	14.5	15.2	15.2
95°	11.7	12.4	12.4	13.1	13.1	13.1	13.8	13.8	13.8	13.8
97.5°	17.9	17.9	17.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3
100°	23.5	24.2	24.2	24.2	24.9	24.9	24.9	24.9	24.2	24.2
102.5°	26.2	26.9	27.6	28.3	28.3	28.3	29.0	29.0	29.0	29.0
105°	29.7	29.7	30.4	31.1	31.1	31.1	31.8	31.8	31.8	31.8
107.5°	33.8	33.8	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
110°	38.7	38.7	38.7	38.0	38.7	38.0	38.0	38.0	38.0	38.0





TEST NUMBER: P395836

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	44.2	43.5	43.5	42.8	42.8	42.8	42.1	42.1	42.1	42.1
115°	53.2	49.7	48.3	46.9	46.9	46.9	46.3	46.3	46.3	46.3
117.5°	64.2	59.4	56.6	53.8	53.2	52.5	51.1	51.1	50.4	50.4
120°	75.9	71.1	67.0	63.5	62.1	61.4	59.4	58.0	56.6	56.6
122.5°	87.0	82.1	78.0	74.6	73.2	71.8	69.7	68.3	67.0	67.0
125°	98.0	93.2	89.0	85.6	83.5	82.1	80.1	78.7	77.3	77.3
127.5°	109.8	103.5	99.4	96.0	93.9	93.2	90.4	89.0	87.7	87.7
130°	122.9	115.3	109.8	105.6	104.2	102.9	100.8	99.4	98.0	98.0
132.5°	136.0	128.4	122.2	116.7	114.6	113.2	110.4	109.1	107.7	107.7
135°	148.4	141.5	135.3	129.8	127.7	125.6	122.9	120.1	118.7	118.7
137.5°	158.1	153.2	147.7	142.9	140.8	138.8	136.0	133.2	131.2	131.8
140°	166.4	162.2	158.8	155.3	153.2	151.9	149.1	147.0	145.0	145.0
142.5°	174.0	170.5	167.1	164.3	163.6	162.9	160.8	158.8	157.4	157.4
145°	180.9	178.8	176.0	172.6	171.9	171.2	169.1	167.7	167.1	167.1
147.5°	182.9	183.6	182.9	180.9	180.2	179.5	178.1	176.7	176.0	176.0
150°	181.5	184.3	185.7	185.7	185.7	185.7	185.7	184.3	183.6	183.6
152.5°	177.4	181.5	184.3	186.4	187.1	187.8	187.8	188.5	187.8	187.8
155°	172.6	176.7	180.9	182.9	184.3	185.0	186.4	187.1	187.8	187.1
157.5°	167.1	170.5	173.3	177.4	178.8	180.2	181.5	182.9	183.6	182.9
160°	162.2	165.0	167.1	169.8	170.5	171.9	173.3	174.0	175.3	174.6
162.5°	157.4	159.5	161.5	162.9	164.3	165.0	166.4	167.1	167.7	167.1
165°	153.9	155.3	156.0	157.4	158.1	158.8	159.5	160.2	160.2	160.2
167.5°	149.8	151.2	151.9	152.6	153.2	153.9	153.9	154.6	154.6	154.6
170°	146.3	147.0	147.7	148.4	148.4	149.1	149.1	149.1	149.8	149.1
172.5°	143.6	143.6	143.6	144.3	144.3	144.3	144.3	144.3	144.3	143.6
175°	142.2	142.2	141.5	141.5	141.5	141.5	141.5	140.8	140.1	139.4
177.5°	141.5	140.8	140.8	140.1	140.1	140.1	139.4	138.8	138.1	137.4
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8

(END OF REPORT)