

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: P395576

Luminaire Tested: **I3-FL-50L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-50L83050-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, FROSTED TOP COVER
5000 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: 4309.3 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

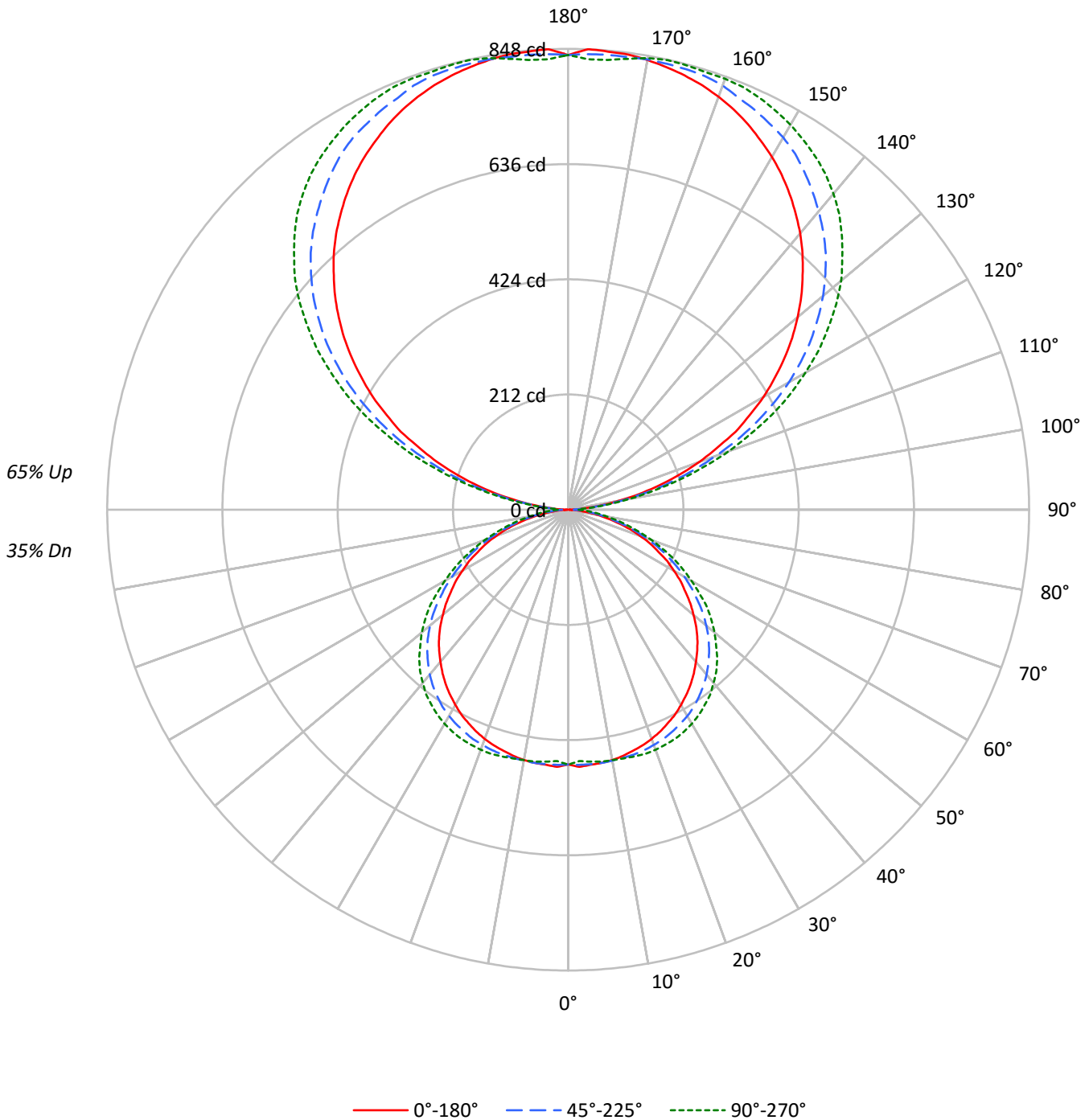
Input Watts (W): 35.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2577	2577	2577
5°	2590	2534	2495
10°	2591	2500	2465
15°	2585	2478	2455
20°	2586	2457	2452
25°	2578	2435	2442
30°	2570	2412	2421
35°	2557	2373	2384
40°	2532	2323	2332
45°	2506	2251	2261
50°	2448	2152	2151
55°	2378	2016	2022
60°	2297	1858	1827
65°	2185	1664	1622
70°	2029	1419	1370
75°	1767	1128	1090
80°	1380	802	798
85°	747	459	524



TEST NUMBER: P395576

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.0
10°-20°	131.5	3.1
20°-30°	207.3	4.8
30°-40°	260.6	6.0
40°-50°	280.2	6.5
50°-60°	257.8	6.0
60°-70°	197.5	4.6
70°-80°	112.5	2.6
80°-90°	35.1	0.8
90°-100°	47.0	1.1
100°-110°	204.2	4.7
110°-120°	373.9	8.7
120°-130°	481.9	11.2
130°-140°	512.8	11.9
140°-150°	471.8	10.9
150°-160°	373.8	8.7
160°-170°	236.7	5.5
170°-180°	80.1	1.9
0°-30°	383.5	8.9
0°-40°	644.1	14.9
0°-60°	1182.1	27.4
0°-90°	1527.1	35.4
90°-120°	625.1	14.5
90°-150°	2091.6	48.5
90°-180°	2782.0	64.6
0°-180°	4309.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	471	466	470	468	465	45
15°	460	457	466	470	470	130
25°	434	435	451	462	465	200
35°	392	397	420	434	438	245
45°	336	344	367	382	388	259
55°	263	274	290	306	311	236
65°	183	189	201	210	214	182
75°	96	99	106	112	115	102
85°	18	22	29	38	40	22
90°	1	4	11	15	18	3
95°	32	31	34	39	40	40
105°	173	181	195	207	210	184
115°	340	355	383	403	414	333
125°	485	506	545	572	584	433
135°	610	630	670	698	712	471
145°	710	725	758	780	793	444
155°	783	792	812	828	836	361
165°	827	827	839	845	846	234
175°	846	840	840	837	831	81
180°	837	837	837	837	837	



TEST NUMBER: P395576

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	473.6	472.4	471.2	468.9	468.9	467.7	467.7	467.7	467.7	468.9	470.0
5°	471.2	471.2	470.0	467.7	467.7	466.5	466.5	467.7	466.5	467.7	470.0
7.5°	470.0	470.0	468.9	466.5	466.5	466.5	466.5	466.5	466.5	467.7	470.0
10°	467.7	467.7	465.3	464.2	464.2	464.2	464.2	465.3	465.3	466.5	468.9
12.5°	464.2	463.0	461.8	460.6	460.6	460.6	461.8	463.0	463.0	465.3	467.7
15°	459.5	459.5	458.3	457.1	457.1	457.1	458.3	459.5	460.6	463.0	466.5
17.5°	454.8	454.8	453.6	453.6	453.6	453.6	454.8	455.9	458.3	460.6	464.2
20°	448.9	448.9	447.7	447.7	447.7	448.9	448.9	451.2	453.6	457.1	460.6
22.5°	441.8	441.8	441.8	440.7	441.8	443.0	444.2	446.5	448.9	452.4	457.1
25°	433.6	433.6	433.6	433.6	434.8	434.8	437.1	439.5	441.8	446.5	451.2
27.5°	425.4	425.4	425.4	424.2	426.6	427.7	428.9	432.4	434.8	440.7	445.4
30°	414.8	414.8	414.8	416.0	417.2	418.3	420.7	424.2	426.6	432.4	438.3
32.5°	404.2	404.2	404.2	404.2	407.8	408.9	410.1	413.6	418.3	424.2	430.1
35°	392.5	392.5	392.5	393.7	396.0	397.2	399.5	403.1	407.8	413.6	419.5
37.5°	379.6	380.7	380.7	381.9	384.3	386.6	389.0	392.5	397.2	403.1	408.9
40°	365.5	366.6	366.6	367.8	370.2	372.5	374.9	379.6	384.3	390.1	396.0
42.5°	351.4	352.5	352.5	354.9	357.2	359.6	361.9	366.6	371.3	377.2	381.9
45°	336.1	337.3	337.3	339.6	343.1	344.3	347.8	352.5	357.2	361.9	366.6
47.5°	319.6	320.8	320.8	323.2	326.7	329.0	331.4	336.1	339.6	345.5	350.2
50°	300.8	302.0	303.2	305.5	310.2	312.6	314.9	318.5	323.2	326.7	331.4
52.5°	283.2	283.2	284.4	286.7	290.3	292.6	293.8	297.3	303.2	307.9	312.6
55°	263.2	264.4	265.6	267.9	271.5	273.8	275.0	278.5	282.0	285.6	290.3
57.5°	245.6	245.6	246.8	249.1	252.7	253.8	255.0	257.4	262.1	265.6	269.1
60°	224.4	225.6	226.8	229.1	231.5	233.8	233.8	237.4	240.9	244.4	246.8
62.5°	205.6	205.6	206.8	209.2	210.3	212.7	212.7	216.2	218.6	222.1	224.4
65°	183.3	184.5	185.7	186.8	189.2	189.2	190.4	192.7	195.1	197.4	200.9
67.5°	163.3	163.3	164.5	165.7	166.9	166.9	168.0	170.4	172.7	175.1	177.4
70°	141.0	142.2	142.2	142.2	143.4	144.5	145.7	146.9	149.2	150.4	152.8
72.5°	118.7	118.7	119.9	119.9	121.0	122.2	123.4	124.6	125.7	128.1	129.3
75°	96.4	96.4	97.5	97.5	98.7	98.7	98.7	101.1	102.2	104.6	105.8
77.5°	74.0	75.2	75.2	75.2	76.4	77.6	77.6	78.7	81.1	82.3	83.4
80°	54.1	54.1	54.1	54.1	55.2	56.4	57.6	57.6	59.9	62.3	63.5
82.5°	34.1	34.1	35.3	36.4	36.4	37.6	38.8	40.0	42.3	43.5	44.7
85°	17.6	17.6	18.8	20.0	21.2	22.3	22.3	23.5	25.9	28.2	29.4
87.5°	5.9	7.1	7.1	8.2	9.4	10.6	11.8	12.9	15.3	17.6	18.8
90°	1.2	1.2	1.2	2.4	3.5	3.5	4.7	5.9	7.1	8.2	10.6
92.5°	10.6	10.6	9.4	10.6	10.6	10.6	10.6	11.8	12.9	12.9	15.3
95°	31.7	30.6	30.6	30.6	30.6	30.6	30.6	31.7	32.9	32.9	34.1
97.5°	61.1	61.1	59.9	59.9	61.1	61.1	61.1	62.3	64.6	63.5	65.8
100°	95.2	95.2	94.0	95.2	96.4	97.5	99.9	99.9	102.2	102.2	105.8
102.5°	134.0	134.0	132.8	135.1	136.3	138.7	138.7	141.0	144.5	144.5	149.2
105°	172.7	173.9	173.9	176.3	178.6	181.0	181.0	184.5	189.2	189.2	195.1
107.5°	215.0	216.2	216.2	218.6	220.9	223.3	224.4	229.1	233.8	235.0	242.1
110°	256.2	257.4	258.5	260.9	263.2	266.8	269.1	273.8	279.7	282.0	287.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	295.0	299.7	300.8	304.4	307.9	311.4	313.8	319.6	326.7	330.2	337.3
115°	339.6	342.0	343.1	346.7	351.4	354.9	357.2	363.1	370.2	374.9	383.1
117.5°	376.0	381.9	383.1	386.6	391.3	394.8	397.2	404.2	412.5	418.3	426.6
120°	414.8	419.5	424.2	426.6	430.1	434.8	437.1	444.2	453.6	459.5	468.9
122.5°	450.1	454.8	459.5	463.0	467.7	470.0	473.6	481.8	491.2	498.3	507.7
125°	485.3	491.2	494.7	498.3	504.1	506.5	510.0	518.2	527.6	535.9	545.3
127.5°	519.4	522.9	528.8	531.2	537.0	539.4	542.9	552.3	561.7	569.9	579.3
130°	551.1	555.8	560.5	561.7	568.8	572.3	575.8	584.0	594.6	602.8	612.2
132.5°	581.7	584.0	589.9	593.4	599.3	602.8	606.4	613.4	624.0	632.2	641.6
135°	609.9	612.2	619.3	622.8	626.3	629.9	634.6	641.6	652.2	660.4	669.8
137.5°	638.1	640.4	647.5	651.0	653.4	656.9	660.4	667.5	678.0	686.3	694.5
140°	663.9	666.3	671.0	675.7	678.0	680.4	683.9	691.0	700.4	708.6	716.8
142.5°	687.4	689.8	694.5	699.2	702.7	702.7	706.2	712.1	722.7	730.9	738.0
145°	709.8	710.9	715.6	720.3	725.0	725.0	726.2	732.1	741.5	750.9	758.0
147.5°	730.9	732.1	735.6	740.3	743.9	745.0	747.4	749.7	759.1	768.5	776.8
150°	749.7	750.9	753.3	758.0	760.3	762.7	765.0	766.2	773.2	781.5	790.9
152.5°	766.2	767.4	769.7	773.2	775.6	777.9	780.3	783.8	787.3	795.6	801.4
155°	782.6	783.8	785.0	788.5	790.9	792.0	793.2	797.9	801.4	806.1	812.0
157.5°	796.7	796.7	797.9	800.3	802.6	802.6	803.8	808.5	812.0	816.7	820.2
160°	808.5	808.5	809.7	812.0	812.0	813.2	814.4	817.9	820.2	826.1	830.8
162.5°	819.1	817.9	819.1	820.2	820.2	820.2	821.4	823.8	827.3	832.0	836.7
165°	827.3	827.3	827.3	828.5	828.5	827.3	827.3	829.6	832.0	835.5	839.0
167.5°	834.3	834.3	833.2	834.3	833.2	833.2	832.0	833.2	834.3	837.9	840.2
170°	840.2	839.0	839.0	839.0	837.9	836.7	836.7	836.7	836.7	839.0	841.4
172.5°	844.9	843.7	842.6	842.6	840.2	839.0	839.0	837.9	837.9	839.0	840.2
175°	846.1	844.9	843.7	843.7	841.4	840.2	839.0	839.0	837.9	839.0	840.2
177.5°	848.4	847.3	844.9	844.9	842.6	840.2	840.2	839.0	837.9	839.0	839.0
180°	836.7	836.7	836.7	836.7	836.7	836.7	836.7	836.7	836.7	836.7	836.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	471.2	471.2	470.0	468.9	468.9	467.7	466.5	465.3	464.2	463.0
5°	471.2	470.0	468.9	468.9	467.7	467.7	467.7	466.5	465.3	465.3
7.5°	471.2	471.2	470.0	468.9	468.9	468.9	468.9	468.9	467.7	467.7
10°	471.2	470.0	470.0	470.0	468.9	470.0	470.0	468.9	468.9	467.7
12.5°	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	468.9
15°	467.7	468.9	468.9	470.0	470.0	470.0	471.2	471.2	470.0	470.0
17.5°	466.5	467.7	468.9	470.0	470.0	470.0	471.2	471.2	471.2	471.2
20°	464.2	465.3	466.5	467.7	467.7	468.9	468.9	470.0	470.0	470.0
22.5°	459.5	460.6	463.0	464.2	465.3	466.5	467.7	467.7	467.7	467.7
25°	454.8	457.1	458.3	460.6	461.8	463.0	464.2	464.2	464.2	465.3
27.5°	448.9	451.2	454.8	455.9	457.1	458.3	459.5	460.6	460.6	460.6
30°	441.8	445.4	447.7	450.1	451.2	452.4	453.6	453.6	454.8	454.8
32.5°	433.6	437.1	439.5	441.8	443.0	444.2	446.5	446.5	447.7	447.7
35°	423.0	426.6	430.1	432.4	433.6	434.8	437.1	438.3	438.3	438.3
37.5°	412.5	416.0	419.5	423.0	424.2	425.4	427.7	427.7	428.9	428.9
40°	399.5	403.1	406.6	410.1	410.1	412.5	413.6	414.8	416.0	416.0
42.5°	386.6	390.1	392.5	396.0	397.2	398.4	399.5	401.9	401.9	403.1
45°	371.3	374.9	377.2	380.7	381.9	383.1	385.4	386.6	387.8	387.8
47.5°	354.9	357.2	359.6	363.1	365.5	366.6	367.8	369.0	370.2	369.0
50°	336.1	338.4	342.0	345.5	346.7	347.8	350.2	350.2	351.4	351.4
52.5°	316.1	319.6	322.0	325.5	326.7	327.9	330.2	330.2	331.4	331.4
55°	293.8	296.1	298.5	304.4	305.5	306.7	309.1	309.1	310.2	311.4
57.5°	272.6	273.8	277.3	279.7	282.0	282.0	283.2	284.4	285.6	285.6
60°	250.3	251.5	253.8	257.4	257.4	258.5	260.9	260.9	262.1	262.1
62.5°	226.8	229.1	231.5	235.0	233.8	235.0	237.4	237.4	238.5	238.5
65°	203.3	204.5	206.8	209.2	210.3	210.3	211.5	212.7	213.9	213.9
67.5°	178.6	181.0	182.1	185.7	184.5	185.7	186.8	186.8	188.0	188.0
70°	155.1	156.3	158.6	159.8	159.8	161.0	162.2	162.2	162.2	163.3
72.5°	131.6	132.8	134.0	135.1	135.1	136.3	137.5	137.5	138.7	138.7
75°	106.9	109.3	110.5	112.8	111.6	112.8	115.2	115.2	115.2	115.2
77.5°	85.8	87.0	89.3	90.5	90.5	90.5	92.8	91.7	92.8	92.8
80°	64.6	65.8	68.2	69.3	69.3	70.5	71.7	71.7	71.7	72.9
82.5°	45.8	48.2	50.5	51.7	51.7	52.9	54.1	54.1	55.2	55.2
85°	31.7	34.1	36.4	36.4	37.6	38.8	40.0	40.0	40.0	40.0
87.5°	21.2	22.3	23.5	24.7	25.9	25.9	27.0	27.0	28.2	28.2
90°	11.8	12.9	14.1	15.3	15.3	16.5	16.5	17.6	17.6	17.6
92.5°	16.5	16.5	17.6	18.8	18.8	18.8	18.8	20.0	20.0	20.0
95°	35.3	36.4	36.4	38.8	38.8	38.8	40.0	40.0	40.0	40.0
97.5°	68.2	68.2	68.2	70.5	70.5	70.5	71.7	71.7	71.7	72.9
100°	106.9	108.1	108.1	111.6	110.5	112.8	112.8	112.8	112.8	114.0
102.5°	150.4	152.8	153.9	157.5	157.5	157.5	159.8	158.6	159.8	159.8
105°	197.4	199.8	200.9	204.5	206.8	206.8	209.2	208.0	209.2	210.3
107.5°	244.4	248.0	250.3	253.8	256.2	257.4	257.4	258.5	259.7	260.9
110°	292.6	296.1	302.0	305.5	306.7	309.1	310.2	311.4	312.6	314.9



TEST NUMBER: P395576

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	343.1	346.7	351.4	356.1	354.9	358.4	360.8	361.9	363.1	361.9
115°	389.0	393.7	398.4	403.1	403.1	405.4	410.1	411.3	411.3	413.6
117.5°	432.4	438.3	443.0	447.7	448.9	451.2	454.8	458.3	458.3	460.6
120°	474.7	481.8	486.5	491.2	493.6	494.7	498.3	503.0	503.0	503.0
122.5°	514.7	520.6	526.5	531.2	533.5	535.9	538.2	544.1	544.1	546.4
125°	552.3	559.4	565.2	569.9	572.3	574.6	579.3	582.9	584.0	584.0
127.5°	587.6	594.6	600.5	606.4	607.5	609.9	614.6	619.3	620.5	621.6
130°	620.5	627.5	633.4	639.3	641.6	642.8	648.7	652.2	654.5	655.7
132.5°	649.8	656.9	662.8	668.6	671.0	673.3	676.9	682.7	683.9	683.9
135°	676.9	683.9	689.8	696.8	698.0	700.4	705.1	708.6	710.9	712.1
137.5°	701.5	708.6	715.6	721.5	723.9	725.0	729.8	734.5	736.8	738.0
140°	723.9	730.9	738.0	742.7	743.9	747.4	750.9	755.6	758.0	759.1
142.5°	745.0	750.9	756.8	762.7	763.8	766.2	769.7	774.4	776.8	777.9
145°	763.8	769.7	774.4	779.1	780.3	782.6	786.2	789.7	792.0	793.2
147.5°	781.5	786.2	790.9	794.4	795.6	797.9	800.3	802.6	805.0	806.1
150°	796.7	799.1	803.8	806.1	807.3	809.7	812.0	814.4	816.7	817.9
152.5°	808.5	812.0	814.4	817.9	819.1	820.2	822.6	824.9	827.3	827.3
155°	817.9	821.4	823.8	827.3	828.5	829.6	832.0	833.2	835.5	835.5
157.5°	824.9	828.5	830.8	833.2	834.3	835.5	836.7	839.0	841.4	841.4
160°	833.2	834.3	835.5	837.9	837.9	839.0	840.2	841.4	843.7	843.7
162.5°	840.2	841.4	839.0	840.2	839.0	840.2	841.4	842.6	843.7	843.7
165°	842.6	844.9	843.7	844.9	844.9	844.9	844.9	846.1	846.1	846.1
167.5°	842.6	844.9	843.7	843.7	844.9	844.9	846.1	847.3	847.3	847.3
170°	842.6	843.7	842.6	841.4	842.6	842.6	842.6	843.7	843.7	843.7
172.5°	841.4	842.6	840.2	839.0	839.0	839.0	837.9	837.9	836.7	836.7
175°	840.2	840.2	837.9	836.7	836.7	836.7	834.3	833.2	832.0	830.8
177.5°	839.0	839.0	835.5	834.3	834.3	833.2	833.2	830.8	830.8	829.6
180°	836.7	836.7	836.7	836.7	836.7	836.7	836.7	836.7	836.7	836.7

(END OF REPORT)