

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: P395577

Luminaire Tested: **I3-FL-50L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395577
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 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4555.2 lumens
Efficiency: N/A
Efficacy: 128.3 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

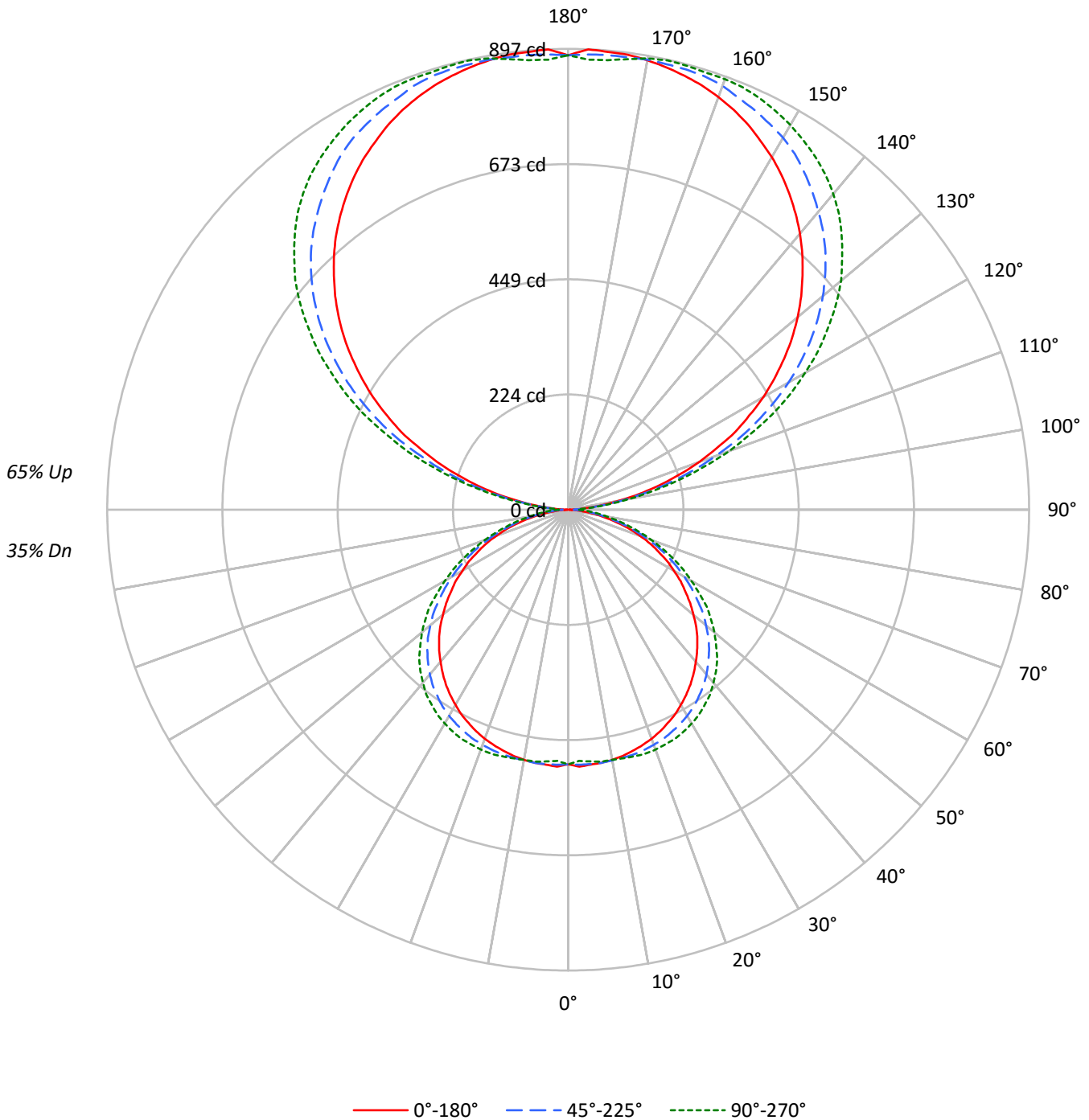
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2724	2724	2724
5°	2738	2679	2637
10°	2739	2642	2606
15°	2733	2620	2596
20°	2733	2597	2592
25°	2726	2574	2582
30°	2716	2549	2559
35°	2703	2509	2520
40°	2676	2456	2465
45°	2649	2380	2390
50°	2588	2275	2273
55°	2514	2131	2137
60°	2430	1964	1930
65°	2310	1760	1715
70°	2145	1500	1449
75°	1867	1192	1152
80°	1456	847	843
85°	789	486	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	1.0
10°-20°	139.0	3.1
20°-30°	219.2	4.8
30°-40°	275.5	6.0
40°-50°	296.2	6.5
50°-60°	272.5	6.0
60°-70°	208.7	4.6
70°-80°	118.9	2.6
80°-90°	37.1	0.8
90°-100°	49.6	1.1
100°-110°	215.9	4.7
110°-120°	395.2	8.7
120°-130°	509.4	11.2
130°-140°	542.1	11.9
140°-150°	498.7	10.9
150°-160°	395.1	8.7
160°-170°	250.2	5.5
170°-180°	84.7	1.9
0°-30°	405.4	8.9
0°-40°	680.9	14.9
0°-60°	1249.6	27.4
0°-90°	1614.3	35.4
90°-120°	660.7	14.5
90°-150°	2211.0	48.5
90°-180°	2941.0	64.6
0°-180°	4555.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	498	493	497	494	492	47
15°	486	483	493	497	497	137
25°	458	460	477	488	492	211
35°	415	420	444	458	463	259
45°	355	364	388	404	410	274
55°	278	289	307	323	329	249
65°	194	200	212	222	226	192
75°	102	104	112	118	122	108
85°	19	24	31	40	42	23
90°	1	4	11	16	19	3
95°	34	32	36	41	42	42
105°	183	191	206	219	222	194
115°	359	375	405	426	437	352
125°	513	535	576	605	617	458
135°	645	666	708	738	753	498
145°	750	766	801	825	838	470
155°	827	837	858	876	883	381
165°	874	874	887	893	894	247
175°	894	888	888	884	878	85
180°	884	884	884	884	884	



TEST NUMBER: P395577

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6
2.5°	500.6	499.4	498.1	495.6	495.6	494.4	494.4	494.4	494.4	495.6	496.9
5°	498.1	498.1	496.9	494.4	494.4	493.2	493.2	494.4	493.2	494.4	496.9
7.5°	496.9	496.9	495.6	493.2	493.2	493.2	493.2	493.2	493.2	494.4	496.9
10°	494.4	494.4	491.9	490.7	490.7	490.7	490.7	491.9	491.9	493.2	495.6
12.5°	490.7	489.4	488.2	486.9	486.9	486.9	488.2	489.4	489.4	491.9	494.4
15°	485.7	485.7	484.5	483.2	483.2	483.2	484.5	485.7	486.9	489.4	493.2
17.5°	480.7	480.7	479.5	479.5	479.5	479.5	480.7	482.0	484.5	486.9	490.7
20°	474.5	474.5	473.3	473.3	473.3	474.5	474.5	477.0	479.5	483.2	486.9
22.5°	467.1	467.1	467.1	465.8	467.1	468.3	469.6	472.0	474.5	478.2	483.2
25°	458.4	458.4	458.4	458.4	459.6	459.6	462.1	464.6	467.1	472.0	477.0
27.5°	449.7	449.7	449.7	448.4	450.9	452.2	453.4	457.1	459.6	465.8	470.8
30°	438.5	438.5	438.5	439.7	441.0	442.2	444.7	448.4	450.9	457.1	463.3
32.5°	427.3	427.3	427.3	427.3	431.0	432.3	433.5	437.3	442.2	448.4	454.6
35°	414.9	414.9	414.9	416.1	418.6	419.9	422.3	426.1	431.0	437.3	443.5
37.5°	401.2	402.5	402.5	403.7	406.2	408.7	411.2	414.9	419.9	426.1	432.3
40°	386.3	387.6	387.6	388.8	391.3	393.8	396.3	401.2	406.2	412.4	418.6
42.5°	371.4	372.7	372.7	375.1	377.6	380.1	382.6	387.6	392.5	398.7	403.7
45°	355.3	356.5	356.5	359.0	362.7	364.0	367.7	372.7	377.6	382.6	387.6
47.5°	337.9	339.1	339.1	341.6	345.3	347.8	350.3	355.3	359.0	365.2	370.2
50°	318.0	319.2	320.5	323.0	327.9	330.4	332.9	336.6	341.6	345.3	350.3
52.5°	299.4	299.4	300.6	303.1	306.8	309.3	310.5	314.3	320.5	325.5	330.4
55°	278.3	279.5	280.7	283.2	286.9	289.4	290.7	294.4	298.1	301.9	306.8
57.5°	259.6	259.6	260.9	263.3	267.1	268.3	269.6	272.0	277.0	280.7	284.5
60°	237.3	238.5	239.7	242.2	244.7	247.2	247.2	250.9	254.7	258.4	260.9
62.5°	217.4	217.4	218.6	221.1	222.4	224.8	224.8	228.6	231.0	234.8	237.3
65°	193.8	195.0	196.3	197.5	200.0	200.0	201.2	203.7	206.2	208.7	212.4
67.5°	172.7	172.7	173.9	175.2	176.4	176.4	177.6	180.1	182.6	185.1	187.6
70°	149.1	150.3	150.3	150.3	151.5	152.8	154.0	155.3	157.8	159.0	161.5
72.5°	125.5	125.5	126.7	126.7	127.9	129.2	130.4	131.7	132.9	135.4	136.6
75°	101.9	101.9	103.1	103.1	104.3	104.3	104.3	106.8	108.1	110.6	111.8
77.5°	78.3	79.5	79.5	79.5	80.7	82.0	82.0	83.2	85.7	87.0	88.2
80°	57.1	57.1	57.1	57.1	58.4	59.6	60.9	60.9	63.4	65.8	67.1
82.5°	36.0	36.0	37.3	38.5	38.5	39.8	41.0	42.2	44.7	46.0	47.2
85°	18.6	18.6	19.9	21.1	22.4	23.6	23.6	24.8	27.3	29.8	31.1
87.5°	6.2	7.5	7.5	8.7	9.9	11.2	12.4	13.7	16.1	18.6	19.9
90°	1.2	1.2	1.2	2.5	3.7	3.7	5.0	6.2	7.5	8.7	11.2
92.5°	11.2	11.2	9.9	11.2	11.2	11.2	11.2	12.4	13.7	13.7	16.1
95°	33.5	32.3	32.3	32.3	32.3	32.3	32.3	33.5	34.8	34.8	36.0
97.5°	64.6	64.6	63.4	63.4	64.6	64.6	64.6	65.8	68.3	67.1	69.6
100°	100.6	100.6	99.4	100.6	101.9	103.1	105.6	105.6	108.1	108.1	111.8
102.5°	141.6	141.6	140.4	142.9	144.1	146.6	146.6	149.1	152.8	152.8	157.8
105°	182.6	183.8	183.8	186.3	188.8	191.3	191.3	195.0	200.0	200.0	206.2
107.5°	227.3	228.6	228.6	231.0	233.5	236.0	237.3	242.2	247.2	248.4	255.9
110°	270.8	272.0	273.3	275.8	278.3	282.0	284.5	289.4	295.6	298.1	304.3



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CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	311.8	316.8	318.0	321.7	325.5	329.2	331.7	337.9	345.3	349.1	356.5
115°	359.0	361.5	362.7	366.4	371.4	375.1	377.6	383.8	391.3	396.3	405.0
117.5°	397.5	403.7	405.0	408.7	413.7	417.4	419.9	427.3	436.0	442.2	450.9
120°	438.5	443.5	448.4	450.9	454.6	459.6	462.1	469.6	479.5	485.7	495.6
122.5°	475.8	480.7	485.7	489.4	494.4	496.9	500.6	509.3	519.2	526.7	536.6
125°	513.0	519.2	523.0	526.7	532.9	535.4	539.1	547.8	557.7	566.4	576.4
127.5°	549.1	552.8	559.0	561.5	567.7	570.2	573.9	583.8	593.8	602.5	612.4
130°	582.6	587.6	592.5	593.8	601.2	605.0	608.7	617.4	628.6	637.2	647.2
132.5°	614.9	617.4	623.6	627.3	633.5	637.2	641.0	648.4	659.6	668.3	678.2
135°	644.7	647.2	654.6	658.4	662.1	665.8	670.8	678.2	689.4	698.1	708.1
137.5°	674.5	677.0	684.5	688.2	690.7	694.4	698.1	705.6	716.7	725.4	734.1
140°	701.8	704.3	709.3	714.3	716.7	719.2	723.0	730.4	740.4	749.0	757.7
142.5°	726.7	729.2	734.1	739.1	742.8	742.8	746.6	752.8	764.0	772.6	780.1
145°	750.3	751.5	756.5	761.5	766.4	766.4	767.7	773.9	783.8	793.8	801.2
147.5°	772.6	773.9	777.6	782.6	786.3	787.6	790.0	792.5	802.5	812.4	821.1
150°	792.5	793.8	796.3	801.2	803.7	806.2	808.7	809.9	817.4	826.1	836.0
152.5°	809.9	811.2	813.6	817.4	819.9	822.3	824.8	828.5	832.3	841.0	847.2
155°	827.3	828.5	829.8	833.5	836.0	837.2	838.5	843.5	847.2	852.1	858.4
157.5°	842.2	842.2	843.5	845.9	848.4	848.4	849.7	854.6	858.4	863.3	867.1
160°	854.6	854.6	855.9	858.4	858.4	859.6	860.8	864.6	867.1	873.3	878.2
162.5°	865.8	864.6	865.8	867.1	867.1	867.1	868.3	870.8	874.5	879.5	884.4
165°	874.5	874.5	874.5	875.8	875.8	874.5	874.5	877.0	879.5	883.2	886.9
167.5°	882.0	882.0	880.7	882.0	880.7	880.7	879.5	880.7	882.0	885.7	888.2
170°	888.2	886.9	886.9	886.9	885.7	884.4	884.4	884.4	884.4	886.9	889.4
172.5°	893.1	891.9	890.7	890.7	888.2	886.9	886.9	885.7	885.7	886.9	888.2
175°	894.4	893.1	891.9	891.9	889.4	888.2	886.9	886.9	885.7	886.9	888.2
177.5°	896.9	895.6	893.1	893.1	890.7	888.2	888.2	886.9	885.7	886.9	886.9
180°	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4



TEST NUMBER: P395577

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6
2.5°	498.1	498.1	496.9	495.6	495.6	494.4	493.2	491.9	490.7	489.4
5°	498.1	496.9	495.6	495.6	494.4	494.4	494.4	493.2	491.9	491.9
7.5°	498.1	498.1	496.9	495.6	495.6	495.6	495.6	495.6	494.4	494.4
10°	498.1	496.9	496.9	496.9	495.6	496.9	496.9	495.6	495.6	494.4
12.5°	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	496.9	495.6
15°	494.4	495.6	495.6	496.9	496.9	496.9	498.1	498.1	496.9	496.9
17.5°	493.2	494.4	495.6	496.9	496.9	496.9	498.1	498.1	498.1	498.1
20°	490.7	491.9	493.2	494.4	494.4	495.6	495.6	496.9	496.9	496.9
22.5°	485.7	486.9	489.4	490.7	491.9	493.2	494.4	494.4	494.4	494.4
25°	480.7	483.2	484.5	486.9	488.2	489.4	490.7	490.7	490.7	491.9
27.5°	474.5	477.0	480.7	482.0	483.2	484.5	485.7	486.9	486.9	486.9
30°	467.1	470.8	473.3	475.8	477.0	478.2	479.5	479.5	480.7	480.7
32.5°	458.4	462.1	464.6	467.1	468.3	469.6	472.0	472.0	473.3	473.3
35°	447.2	450.9	454.6	457.1	458.4	459.6	462.1	463.3	463.3	463.3
37.5°	436.0	439.7	443.5	447.2	448.4	449.7	452.2	452.2	453.4	453.4
40°	422.3	426.1	429.8	433.5	433.5	436.0	437.3	438.5	439.7	439.7
42.5°	408.7	412.4	414.9	418.6	419.9	421.1	422.3	424.8	424.8	426.1
45°	392.5	396.3	398.7	402.5	403.7	405.0	407.4	408.7	409.9	409.9
47.5°	375.1	377.6	380.1	383.8	386.3	387.6	388.8	390.1	391.3	390.1
50°	355.3	357.8	361.5	365.2	366.4	367.7	370.2	370.2	371.4	371.4
52.5°	334.2	337.9	340.4	344.1	345.3	346.6	349.1	349.1	350.3	350.3
55°	310.5	313.0	315.5	321.7	323.0	324.2	326.7	326.7	327.9	329.2
57.5°	288.2	289.4	293.2	295.6	298.1	298.1	299.4	300.6	301.9	301.9
60°	264.6	265.8	268.3	272.0	272.0	273.3	275.8	275.8	277.0	277.0
62.5°	239.7	242.2	244.7	248.4	247.2	248.4	250.9	250.9	252.2	252.2
65°	214.9	216.1	218.6	221.1	222.4	222.4	223.6	224.8	226.1	226.1
67.5°	188.8	191.3	192.5	196.3	195.0	196.3	197.5	197.5	198.8	198.8
70°	164.0	165.2	167.7	168.9	168.9	170.2	171.4	171.4	171.4	172.7
72.5°	139.1	140.4	141.6	142.9	142.9	144.1	145.3	145.3	146.6	146.6
75°	113.0	115.5	116.8	119.3	118.0	119.3	121.7	121.7	121.7	121.7
77.5°	90.7	91.9	94.4	95.6	95.6	95.6	98.1	96.9	98.1	98.1
80°	68.3	69.6	72.0	73.3	73.3	74.5	75.8	75.8	75.8	77.0
82.5°	48.4	50.9	53.4	54.7	54.7	55.9	57.1	57.1	58.4	58.4
85°	33.5	36.0	38.5	38.5	39.8	41.0	42.2	42.2	42.2	42.2
87.5°	22.4	23.6	24.8	26.1	27.3	27.3	28.6	28.6	29.8	29.8
90°	12.4	13.7	14.9	16.1	16.1	17.4	17.4	18.6	18.6	18.6
92.5°	17.4	17.4	18.6	19.9	19.9	19.9	19.9	21.1	21.1	21.1
95°	37.3	38.5	38.5	41.0	41.0	41.0	42.2	42.2	42.2	42.2
97.5°	72.0	72.0	72.0	74.5	74.5	74.5	75.8	75.8	75.8	77.0
100°	113.0	114.3	114.3	118.0	116.8	119.3	119.3	119.3	119.3	120.5
102.5°	159.0	161.5	162.7	166.5	166.5	166.5	168.9	167.7	168.9	168.9
105°	208.7	211.2	212.4	216.1	218.6	218.6	221.1	219.9	221.1	222.4
107.5°	258.4	262.1	264.6	268.3	270.8	272.0	272.0	273.3	274.5	275.8
110°	309.3	313.0	319.2	323.0	324.2	326.7	327.9	329.2	330.4	332.9



TEST NUMBER: P395577

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	362.7	366.4	371.4	376.4	375.1	378.9	381.4	382.6	383.8	382.6
115°	411.2	416.1	421.1	426.1	426.1	428.6	433.5	434.8	434.8	437.3
117.5°	457.1	463.3	468.3	473.3	474.5	477.0	480.7	484.5	484.5	486.9
120°	501.8	509.3	514.3	519.2	521.7	523.0	526.7	531.7	531.7	531.7
122.5°	544.1	550.3	556.5	561.5	564.0	566.4	568.9	575.1	575.1	577.6
125°	583.8	591.3	597.5	602.5	605.0	607.4	612.4	616.1	617.4	617.4
127.5°	621.1	628.6	634.8	641.0	642.2	644.7	649.7	654.6	655.9	657.1
130°	655.9	663.3	669.5	675.8	678.2	679.5	685.7	689.4	691.9	693.1
132.5°	686.9	694.4	700.6	706.8	709.3	711.8	715.5	721.7	723.0	723.0
135°	715.5	723.0	729.2	736.6	737.9	740.4	745.3	749.0	751.5	752.8
137.5°	741.6	749.0	756.5	762.7	765.2	766.4	771.4	776.4	778.9	780.1
140°	765.2	772.6	780.1	785.1	786.3	790.0	793.8	798.7	801.2	802.5
142.5°	787.6	793.8	800.0	806.2	807.4	809.9	813.6	818.6	821.1	822.3
145°	807.4	813.6	818.6	823.6	824.8	827.3	831.0	834.8	837.2	838.5
147.5°	826.1	831.0	836.0	839.7	841.0	843.5	845.9	848.4	850.9	852.1
150°	842.2	844.7	849.7	852.1	853.4	855.9	858.4	860.8	863.3	864.6
152.5°	854.6	858.4	860.8	864.6	865.8	867.1	869.5	872.0	874.5	874.5
155°	864.6	868.3	870.8	874.5	875.8	877.0	879.5	880.7	883.2	883.2
157.5°	872.0	875.8	878.2	880.7	882.0	883.2	884.4	886.9	889.4	889.4
160°	880.7	882.0	883.2	885.7	885.7	886.9	888.2	889.4	891.9	891.9
162.5°	888.2	889.4	886.9	888.2	886.9	888.2	889.4	890.7	891.9	891.9
165°	890.7	893.1	891.9	893.1	893.1	893.1	893.1	894.4	894.4	894.4
167.5°	890.7	893.1	891.9	891.9	893.1	893.1	894.4	895.6	895.6	895.6
170°	890.7	891.9	890.7	889.4	890.7	890.7	890.7	891.9	891.9	891.9
172.5°	889.4	890.7	888.2	886.9	886.9	886.9	885.7	885.7	884.4	884.4
175°	888.2	888.2	885.7	884.4	884.4	884.4	882.0	880.7	879.5	878.2
177.5°	886.9	886.9	883.2	882.0	882.0	880.7	880.7	878.2	878.2	877.0
180°	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4	884.4

(END OF REPORT)