

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: P395551

Luminaire Tested: **I3-FL-40L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395551
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-40L83050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
4000 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: 3649.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

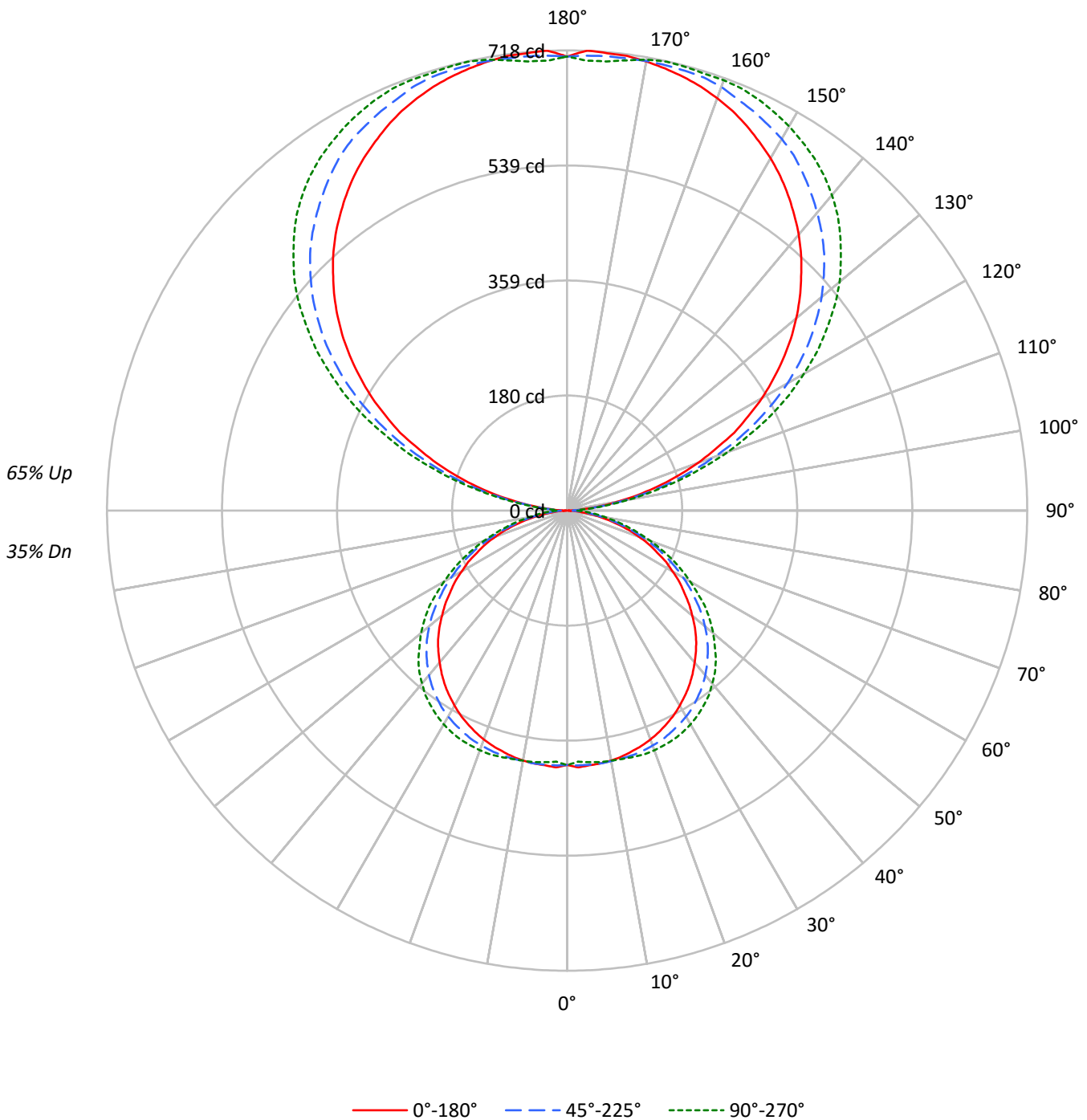
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2182	2182	2182
5°	2193	2146	2112
10°	2194	2117	2087
15°	2189	2098	2079
20°	2189	2081	2076
25°	2184	2062	2068
30°	2176	2042	2050
35°	2166	2009	2019
40°	2144	1967	1975
45°	2122	1907	1915
50°	2073	1822	1821
55°	2014	1707	1712
60°	1946	1573	1546
65°	1850	1410	1374
70°	1718	1202	1160
75°	1495	955	923
80°	1168	678	676
85°	632	389	443



TEST NUMBER: P395551

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	1.0
10°-20°	111.3	3.1
20°-30°	175.6	4.8
30°-40°	220.7	6.0
40°-50°	237.3	6.5
50°-60°	218.3	6.0
60°-70°	167.2	4.6
70°-80°	95.2	2.6
80°-90°	29.7	0.8
90°-100°	39.8	1.1
100°-110°	172.9	4.7
110°-120°	316.6	8.7
120°-130°	408.1	11.2
130°-140°	434.2	11.9
140°-150°	399.5	10.9
150°-160°	316.5	8.7
160°-170°	200.4	5.5
170°-180°	67.9	1.9
0°-30°	324.8	8.9
0°-40°	545.4	14.9
0°-60°	1001.0	27.4
0°-90°	1293.1	35.4
90°-120°	529.3	14.5
90°-150°	1771.1	48.5
90°-180°	2356.0	64.6
0°-180°	3649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	397	397	397	397	397	
5°	399	395	398	396	394	38
15°	389	387	395	398	398	110
25°	367	368	382	391	394	169
35°	332	336	355	367	371	208
45°	285	292	310	323	328	219
55°	223	232	246	259	264	200
65°	155	160	170	178	181	154
75°	82	84	90	94	98	86
85°	15	19	25	32	34	19
90°	1	3	9	13	15	2
95°	27	26	29	33	34	34
105°	146	153	165	175	178	156
115°	288	300	324	341	350	282
125°	411	429	462	485	494	367
135°	516	533	567	591	603	399
145°	601	614	642	661	672	376
155°	663	671	688	702	708	305
165°	700	700	710	716	716	198
175°	716	712	712	708	704	68
180°	708	708	708	708	708	



TEST NUMBER: P395551

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0
2.5°	401.0	400.0	399.0	397.0	397.0	396.0	396.0	396.0	396.0	397.0	398.0
5°	399.0	399.0	398.0	396.0	396.0	395.0	395.0	396.0	395.0	396.0	398.0
7.5°	398.0	398.0	397.0	395.0	395.0	395.0	395.0	395.0	395.0	396.0	398.0
10°	396.0	396.0	394.0	393.1	393.1	393.1	393.1	394.0	394.0	395.0	397.0
12.5°	393.1	392.1	391.1	390.1	390.1	390.1	391.1	392.1	392.1	394.0	396.0
15°	389.1	389.1	388.1	387.1	387.1	387.1	388.1	389.1	390.1	392.1	395.0
17.5°	385.1	385.1	384.1	384.1	384.1	384.1	385.1	386.1	388.1	390.1	393.1
20°	380.1	380.1	379.1	379.1	379.1	380.1	380.1	382.1	384.1	387.1	390.1
22.5°	374.1	374.1	374.1	373.1	374.1	375.1	376.1	378.1	380.1	383.1	387.1
25°	367.2	367.2	367.2	367.2	368.2	368.2	370.2	372.2	374.1	378.1	382.1
27.5°	360.2	360.2	360.2	359.2	361.2	362.2	363.2	366.2	368.2	373.1	377.1
30°	351.3	351.3	351.3	352.3	353.2	354.2	356.2	359.2	361.2	366.2	371.2
32.5°	342.3	342.3	342.3	342.3	345.3	346.3	347.3	350.3	354.2	359.2	364.2
35°	332.4	332.4	332.4	333.3	335.3	336.3	338.3	341.3	345.3	350.3	355.2
37.5°	321.4	322.4	322.4	323.4	325.4	327.4	329.4	332.4	336.3	341.3	346.3
40°	309.5	310.5	310.5	311.5	313.4	315.4	317.4	321.4	325.4	330.4	335.3
42.5°	297.5	298.5	298.5	300.5	302.5	304.5	306.5	310.5	314.4	319.4	323.4
45°	284.6	285.6	285.6	287.6	290.6	291.6	294.5	298.5	302.5	306.5	310.5
47.5°	270.7	271.7	271.7	273.6	276.6	278.6	280.6	284.6	287.6	292.5	296.5
50°	254.7	255.7	256.7	258.7	262.7	264.7	266.7	269.7	273.6	276.6	280.6
52.5°	239.8	239.8	240.8	242.8	245.8	247.8	248.8	251.8	256.7	260.7	264.7
55°	222.9	223.9	224.9	226.9	229.9	231.8	232.8	235.8	238.8	241.8	245.8
57.5°	208.0	208.0	209.0	211.0	213.9	214.9	215.9	217.9	221.9	224.9	227.9
60°	190.1	191.1	192.0	194.0	196.0	198.0	198.0	201.0	204.0	207.0	209.0
62.5°	174.1	174.1	175.1	177.1	178.1	180.1	180.1	183.1	185.1	188.1	190.1
65°	155.2	156.2	157.2	158.2	160.2	160.2	161.2	163.2	165.2	167.2	170.2
67.5°	138.3	138.3	139.3	140.3	141.3	141.3	142.3	144.3	146.3	148.3	150.3
70°	119.4	120.4	120.4	120.4	121.4	122.4	123.4	124.4	126.4	127.4	129.4
72.5°	100.5	100.5	101.5	101.5	102.5	103.5	104.5	105.5	106.5	108.5	109.5
75°	81.6	81.6	82.6	82.6	83.6	83.6	83.6	85.6	86.6	88.6	89.6
77.5°	62.7	63.7	63.7	63.7	64.7	65.7	65.7	66.7	68.7	69.7	70.6
80°	45.8	45.8	45.8	45.8	46.8	47.8	48.8	48.8	50.7	52.7	53.7
82.5°	28.9	28.9	29.9	30.8	30.8	31.8	32.8	33.8	35.8	36.8	37.8
85°	14.9	14.9	15.9	16.9	17.9	18.9	18.9	19.9	21.9	23.9	24.9
87.5°	5.0	6.0	6.0	7.0	8.0	9.0	10.0	10.9	12.9	14.9	15.9
90°	1.0	1.0	1.0	2.0	3.0	3.0	4.0	5.0	6.0	7.0	9.0
92.5°	9.0	9.0	8.0	9.0	9.0	9.0	9.0	10.0	10.9	10.9	12.9
95°	26.9	25.9	25.9	25.9	25.9	25.9	25.9	26.9	27.9	27.9	28.9
97.5°	51.7	51.7	50.7	50.7	51.7	51.7	51.7	52.7	54.7	53.7	55.7
100°	80.6	80.6	79.6	80.6	81.6	82.6	84.6	84.6	86.6	86.6	89.6
102.5°	113.4	113.4	112.4	114.4	115.4	117.4	117.4	119.4	122.4	122.4	126.4
105°	146.3	147.3	147.3	149.3	151.2	153.2	153.2	156.2	160.2	160.2	165.2
107.5°	182.1	183.1	183.1	185.1	187.1	189.1	190.1	194.0	198.0	199.0	205.0
110°	216.9	217.9	218.9	220.9	222.9	225.9	227.9	231.8	236.8	238.8	243.8



TEST NUMBER: P395551

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	249.8	253.7	254.7	257.7	260.7	263.7	265.7	270.7	276.6	279.6	285.6
115°	287.6	289.6	290.6	293.5	297.5	300.5	302.5	307.5	313.4	317.4	324.4
117.5°	318.4	323.4	324.4	327.4	331.4	334.3	336.3	342.3	349.3	354.2	361.2
120°	351.3	355.2	359.2	361.2	364.2	368.2	370.2	376.1	384.1	389.1	397.0
122.5°	381.1	385.1	389.1	392.1	396.0	398.0	401.0	408.0	415.9	421.9	429.9
125°	411.0	415.9	418.9	421.9	426.9	428.9	431.9	438.8	446.8	453.7	461.7
127.5°	439.8	442.8	447.8	449.8	454.7	456.7	459.7	467.7	475.6	482.6	490.6
130°	466.7	470.7	474.6	475.6	481.6	484.6	487.6	494.5	503.5	510.5	518.4
132.5°	492.6	494.5	499.5	502.5	507.5	510.5	513.5	519.4	528.4	535.3	543.3
135°	516.4	518.4	524.4	527.4	530.4	533.4	537.3	543.3	552.3	559.2	567.2
137.5°	540.3	542.3	548.3	551.3	553.3	556.2	559.2	565.2	574.2	581.1	588.1
140°	562.2	564.2	568.2	572.2	574.2	576.1	579.1	585.1	593.1	600.0	607.0
142.5°	582.1	584.1	588.1	592.1	595.0	595.0	598.0	603.0	612.0	618.9	624.9
145°	601.0	602.0	606.0	610.0	614.0	614.0	614.9	619.9	627.9	635.8	641.8
147.5°	618.9	619.9	622.9	626.9	629.9	630.9	632.9	634.9	642.8	650.8	657.7
150°	634.9	635.8	637.8	641.8	643.8	645.8	647.8	648.8	654.8	661.7	669.7
152.5°	648.8	649.8	651.8	654.8	656.7	658.7	660.7	663.7	666.7	673.7	678.6
155°	662.7	663.7	664.7	667.7	669.7	670.7	671.7	675.6	678.6	682.6	687.6
157.5°	674.7	674.7	675.6	677.6	679.6	679.6	680.6	684.6	687.6	691.6	694.6
160°	684.6	684.6	685.6	687.6	687.6	688.6	689.6	692.6	694.6	699.5	703.5
162.5°	693.6	692.6	693.6	694.6	694.6	694.6	695.5	697.5	700.5	704.5	708.5
165°	700.5	700.5	700.5	701.5	701.5	700.5	700.5	702.5	704.5	707.5	710.5
167.5°	706.5	706.5	705.5	706.5	705.5	705.5	704.5	705.5	706.5	709.5	711.5
170°	711.5	710.5	710.5	710.5	709.5	708.5	708.5	708.5	708.5	710.5	712.5
172.5°	715.5	714.5	713.5	713.5	711.5	710.5	710.5	709.5	709.5	710.5	711.5
175°	716.4	715.5	714.5	714.5	712.5	711.5	710.5	710.5	709.5	710.5	711.5
177.5°	718.4	717.4	715.5	715.5	713.5	711.5	711.5	710.5	709.5	710.5	710.5
180°	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0
2.5°	399.0	399.0	398.0	397.0	397.0	396.0	395.0	394.0	393.1	392.1
5°	399.0	398.0	397.0	397.0	396.0	396.0	396.0	395.0	394.0	394.0
7.5°	399.0	399.0	398.0	397.0	397.0	397.0	397.0	397.0	396.0	396.0
10°	399.0	398.0	398.0	398.0	397.0	398.0	398.0	397.0	397.0	396.0
12.5°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	397.0
15°	396.0	397.0	397.0	398.0	398.0	398.0	399.0	399.0	398.0	398.0
17.5°	395.0	396.0	397.0	398.0	398.0	398.0	399.0	399.0	399.0	399.0
20°	393.1	394.0	395.0	396.0	396.0	397.0	397.0	398.0	398.0	398.0
22.5°	389.1	390.1	392.1	393.1	394.0	395.0	396.0	396.0	396.0	396.0
25°	385.1	387.1	388.1	390.1	391.1	392.1	393.1	393.1	393.1	394.0
27.5°	380.1	382.1	385.1	386.1	387.1	388.1	389.1	390.1	390.1	390.1
30°	374.1	377.1	379.1	381.1	382.1	383.1	384.1	384.1	385.1	385.1
32.5°	367.2	370.2	372.2	374.1	375.1	376.1	378.1	378.1	379.1	379.1
35°	358.2	361.2	364.2	366.2	367.2	368.2	370.2	371.2	371.2	371.2
37.5°	349.3	352.3	355.2	358.2	359.2	360.2	362.2	362.2	363.2	363.2
40°	338.3	341.3	344.3	347.3	347.3	349.3	350.3	351.3	352.3	352.3
42.5°	327.4	330.4	332.4	335.3	336.3	337.3	338.3	340.3	340.3	341.3
45°	314.4	317.4	319.4	322.4	323.4	324.4	326.4	327.4	328.4	328.4
47.5°	300.5	302.5	304.5	307.5	309.5	310.5	311.5	312.5	313.4	312.5
50°	284.6	286.6	289.6	292.5	293.5	294.5	296.5	296.5	297.5	297.5
52.5°	267.7	270.7	272.6	275.6	276.6	277.6	279.6	279.6	280.6	280.6
55°	248.8	250.8	252.7	257.7	258.7	259.7	261.7	261.7	262.7	263.7
57.5°	230.9	231.8	234.8	236.8	238.8	238.8	239.8	240.8	241.8	241.8
60°	211.9	212.9	214.9	217.9	217.9	218.9	220.9	220.9	221.9	221.9
62.5°	192.0	194.0	196.0	199.0	198.0	199.0	201.0	201.0	202.0	202.0
65°	172.1	173.1	175.1	177.1	178.1	178.1	179.1	180.1	181.1	181.1
67.5°	151.2	153.2	154.2	157.2	156.2	157.2	158.2	158.2	159.2	159.2
70°	131.3	132.3	134.3	135.3	135.3	136.3	137.3	137.3	137.3	138.3
72.5°	111.4	112.4	113.4	114.4	114.4	115.4	116.4	116.4	117.4	117.4
75°	90.6	92.5	93.5	95.5	94.5	95.5	97.5	97.5	97.5	97.5
77.5°	72.6	73.6	75.6	76.6	76.6	76.6	78.6	77.6	78.6	78.6
80°	54.7	55.7	57.7	58.7	58.7	59.7	60.7	60.7	60.7	61.7
82.5°	38.8	40.8	42.8	43.8	43.8	44.8	45.8	45.8	46.8	46.8
85°	26.9	28.9	30.8	30.8	31.8	32.8	33.8	33.8	33.8	33.8
87.5°	17.9	18.9	19.9	20.9	21.9	21.9	22.9	22.9	23.9	23.9
90°	10.0	10.9	11.9	12.9	12.9	13.9	13.9	14.9	14.9	14.9
92.5°	13.9	13.9	14.9	15.9	15.9	15.9	15.9	16.9	16.9	16.9
95°	29.9	30.8	30.8	32.8	32.8	32.8	33.8	33.8	33.8	33.8
97.5°	57.7	57.7	57.7	59.7	59.7	59.7	60.7	60.7	60.7	61.7
100°	90.6	91.5	91.5	94.5	93.5	95.5	95.5	95.5	95.5	96.5
102.5°	127.4	129.4	130.4	133.3	133.3	133.3	135.3	134.3	135.3	135.3
105°	167.2	169.2	170.2	173.1	175.1	175.1	177.1	176.1	177.1	178.1
107.5°	207.0	210.0	211.9	214.9	216.9	217.9	217.9	218.9	219.9	220.9
110°	247.8	250.8	255.7	258.7	259.7	261.7	262.7	263.7	264.7	266.7



TEST NUMBER: P395551

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	290.6	293.5	297.5	301.5	300.5	303.5	305.5	306.5	307.5	306.5
115°	329.4	333.3	337.3	341.3	341.3	343.3	347.3	348.3	348.3	350.3
117.5°	366.2	371.2	375.1	379.1	380.1	382.1	385.1	388.1	388.1	390.1
120°	402.0	408.0	412.0	415.9	417.9	418.9	421.9	425.9	425.9	425.9
122.5°	435.8	440.8	445.8	449.8	451.8	453.7	455.7	460.7	460.7	462.7
125°	467.7	473.7	478.6	482.6	484.6	486.6	490.6	493.6	494.5	494.5
127.5°	497.5	503.5	508.5	513.5	514.4	516.4	520.4	524.4	525.4	526.4
130°	525.4	531.4	536.3	541.3	543.3	544.3	549.3	552.3	554.3	555.2
132.5°	550.3	556.2	561.2	566.2	568.2	570.2	573.2	578.1	579.1	579.1
135°	573.2	579.1	584.1	590.1	591.1	593.1	597.0	600.0	602.0	603.0
137.5°	594.1	600.0	606.0	611.0	613.0	614.0	617.9	621.9	623.9	624.9
140°	613.0	618.9	624.9	628.9	629.9	632.9	635.8	639.8	641.8	642.8
142.5°	630.9	635.8	640.8	645.8	646.8	648.8	651.8	655.7	657.7	658.7
145°	646.8	651.8	655.7	659.7	660.7	662.7	665.7	668.7	670.7	671.7
147.5°	661.7	665.7	669.7	672.7	673.7	675.6	677.6	679.6	681.6	682.6
150°	674.7	676.6	680.6	682.6	683.6	685.6	687.6	689.6	691.6	692.6
152.5°	684.6	687.6	689.6	692.6	693.6	694.6	696.5	698.5	700.5	700.5
155°	692.6	695.5	697.5	700.5	701.5	702.5	704.5	705.5	707.5	707.5
157.5°	698.5	701.5	703.5	705.5	706.5	707.5	708.5	710.5	712.5	712.5
160°	705.5	706.5	707.5	709.5	709.5	710.5	711.5	712.5	714.5	714.5
162.5°	711.5	712.5	710.5	711.5	710.5	711.5	712.5	713.5	714.5	714.5
165°	713.5	715.5	714.5	715.5	715.5	715.5	715.5	716.4	716.4	716.4
167.5°	713.5	715.5	714.5	714.5	715.5	715.5	716.4	717.4	717.4	717.4
170°	713.5	714.5	713.5	712.5	713.5	713.5	713.5	714.5	714.5	714.5
172.5°	712.5	713.5	711.5	710.5	710.5	710.5	709.5	709.5	708.5	708.5
175°	711.5	711.5	709.5	708.5	708.5	708.5	706.5	705.5	704.5	703.5
177.5°	710.5	710.5	707.5	706.5	706.5	705.5	705.5	703.5	703.5	702.5
180°	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5	708.5

(END OF REPORT)