

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: P395545

Luminaire Tested: **I3-FL-40L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395545
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-40L82765-1D-UNV-W2A-W-4 (4000K)
Description: CORELITE I3, FROSTED TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3641.7 lumens
Efficiency: N/A
Efficacy: 129.1 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

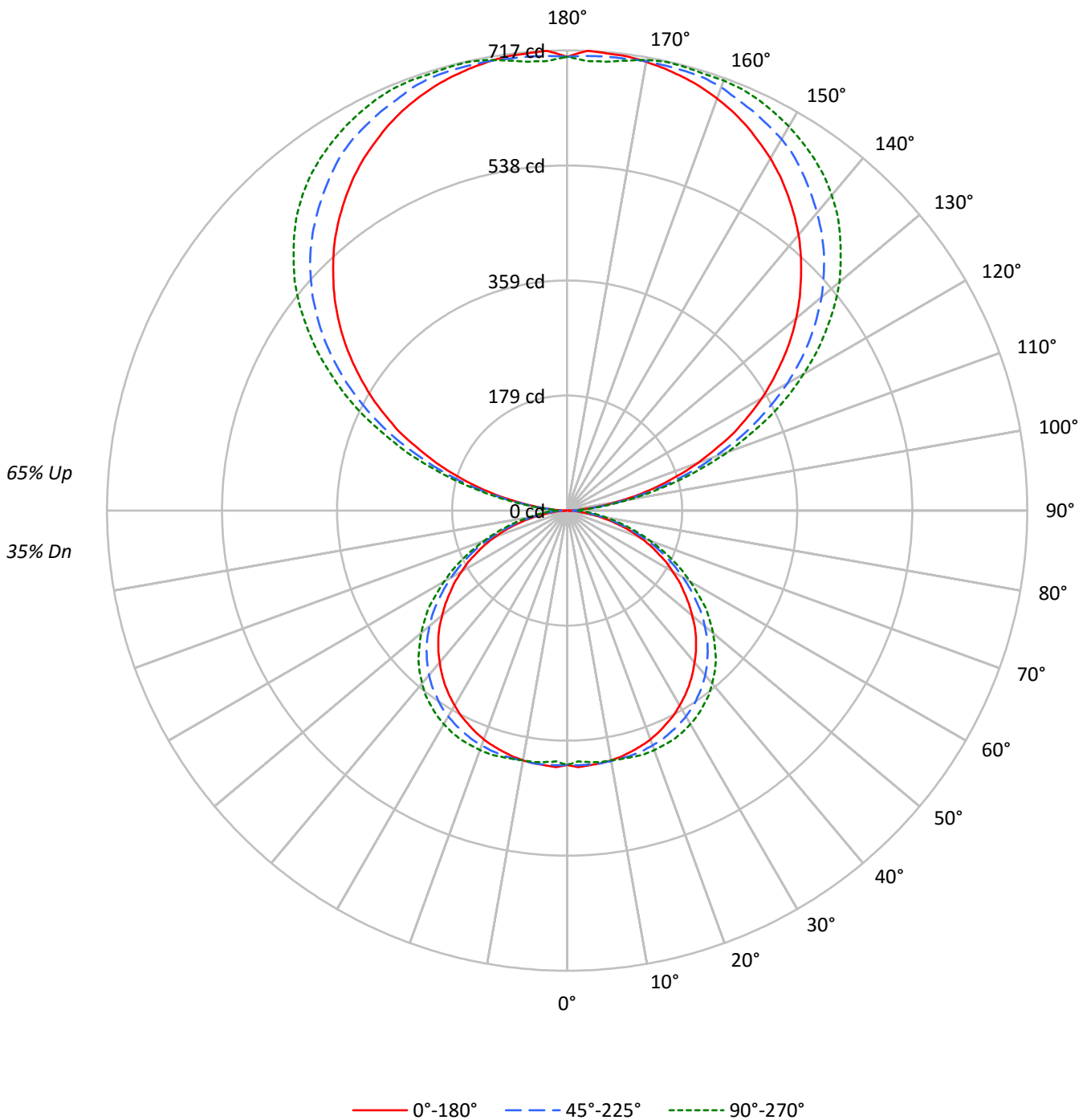
Input Watts (W): 28.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P395545

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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°	2178	2178	2178
5°	2189	2142	2109
10°	2189	2112	2083
15°	2185	2095	2075
20°	2185	2076	2072
25°	2179	2057	2064
30°	2172	2038	2045
35°	2161	2005	2015
40°	2139	1964	1971
45°	2117	1902	1910
50°	2069	1818	1817
55°	2009	1704	1709
60°	1942	1569	1544
65°	1846	1407	1370
70°	1715	1199	1158
75°	1492	953	921
80°	1165	677	675
85°	632	387	443



TEST NUMBER: P395545

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.0
10°-20°	111.1	3.1
20°-30°	175.2	4.8
30°-40°	220.2	6.0
40°-50°	236.8	6.5
50°-60°	217.8	6.0
60°-70°	166.9	4.6
70°-80°	95.0	2.6
80°-90°	29.7	0.8
90°-100°	39.7	1.1
100°-110°	172.6	4.7
110°-120°	316.0	8.7
120°-130°	407.3	11.2
130°-140°	433.4	11.9
140°-150°	398.7	10.9
150°-160°	315.9	8.7
160°-170°	200.0	5.5
170°-180°	67.7	1.9
0°-30°	324.1	8.9
0°-40°	544.3	14.9
0°-60°	999.0	27.4
0°-90°	1290.5	35.4
90°-120°	528.2	14.5
90°-150°	1767.6	48.5
90°-180°	2351.0	64.6
0°-180°	3641.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	398	394	397	395	393	38
15°	388	386	394	397	397	110
25°	366	367	381	390	393	169
35°	332	336	354	366	370	207
45°	284	291	310	323	328	219
55°	222	231	245	258	263	199
65°	155	160	170	178	181	154
75°	81	83	89	94	97	86
85°	15	19	25	32	34	19
90°	1	3	9	13	15	2
95°	27	26	29	33	34	33
105°	146	153	165	175	178	155
115°	287	300	324	341	350	281
125°	410	428	461	484	494	366
135°	515	532	566	590	602	398
145°	600	613	640	659	670	375
155°	661	669	686	700	706	305
165°	699	699	709	714	715	198
175°	715	710	710	707	702	68
180°	707	707	707	707	707	



TEST NUMBER: P395545

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
2.5°	400.2	399.2	398.2	396.2	396.2	395.2	395.2	395.2	395.2	396.2	397.2
5°	398.2	398.2	397.2	395.2	395.2	394.3	394.3	395.2	394.3	395.2	397.2
7.5°	397.2	397.2	396.2	394.3	394.3	394.3	394.3	394.3	394.3	395.2	397.2
10°	395.2	395.2	393.3	392.3	392.3	392.3	392.3	393.3	393.3	394.3	396.2
12.5°	392.3	391.3	390.3	389.3	389.3	389.3	390.3	391.3	391.3	393.3	395.2
15°	388.3	388.3	387.3	386.3	386.3	386.3	387.3	388.3	389.3	391.3	394.3
17.5°	384.3	384.3	383.3	383.3	383.3	383.3	384.3	385.3	387.3	389.3	392.3
20°	379.4	379.4	378.4	378.4	378.4	379.4	379.4	381.3	383.3	386.3	389.3
22.5°	373.4	373.4	373.4	372.4	373.4	374.4	375.4	377.4	379.4	382.3	386.3
25°	366.4	366.4	366.4	366.4	367.4	367.4	369.4	371.4	373.4	377.4	381.3
27.5°	359.5	359.5	359.5	358.5	360.5	361.5	362.5	365.5	367.4	372.4	376.4
30°	350.6	350.6	350.6	351.5	352.5	353.5	355.5	358.5	360.5	365.5	370.4
32.5°	341.6	341.6	341.6	341.6	344.6	345.6	346.6	349.6	353.5	358.5	363.5
35°	331.7	331.7	331.7	332.7	334.7	335.7	337.6	340.6	344.6	349.6	354.5
37.5°	320.8	321.8	321.8	322.7	324.7	326.7	328.7	331.7	335.7	340.6	345.6
40°	308.8	309.8	309.8	310.8	312.8	314.8	316.8	320.8	324.7	329.7	334.7
42.5°	296.9	297.9	297.9	299.9	301.9	303.9	305.9	309.8	313.8	318.8	322.7
45°	284.0	285.0	285.0	287.0	290.0	291.0	293.9	297.9	301.9	305.9	309.8
47.5°	270.1	271.1	271.1	273.1	276.1	278.1	280.0	284.0	287.0	292.0	295.9
50°	254.2	255.2	256.2	258.2	262.2	264.2	266.1	269.1	273.1	276.1	280.0
52.5°	239.3	239.3	240.3	242.3	245.3	247.3	248.3	251.2	256.2	260.2	264.2
55°	222.4	223.4	224.4	226.4	229.4	231.4	232.4	235.4	238.3	241.3	245.3
57.5°	207.6	207.6	208.5	210.5	213.5	214.5	215.5	217.5	221.5	224.4	227.4
60°	189.7	190.7	191.7	193.6	195.6	197.6	197.6	200.6	203.6	206.6	208.5
62.5°	173.8	173.8	174.8	176.8	177.8	179.7	179.7	182.7	184.7	187.7	189.7
65°	154.9	155.9	156.9	157.9	159.9	159.9	160.9	162.9	164.9	166.8	169.8
67.5°	138.0	138.0	139.0	140.0	141.0	141.0	142.0	144.0	146.0	148.0	150.0
70°	119.2	120.2	120.2	120.2	121.2	122.1	123.1	124.1	126.1	127.1	129.1
72.5°	100.3	100.3	101.3	101.3	102.3	103.3	104.3	105.3	106.3	108.2	109.2
75°	81.4	81.4	82.4	82.4	83.4	83.4	83.4	85.4	86.4	88.4	89.4
77.5°	62.6	63.6	63.6	63.6	64.5	65.5	65.5	66.5	68.5	69.5	70.5
80°	45.7	45.7	45.7	45.7	46.7	47.7	48.7	48.7	50.6	52.6	53.6
82.5°	28.8	28.8	29.8	30.8	30.8	31.8	32.8	33.8	35.8	36.7	37.7
85°	14.9	14.9	15.9	16.9	17.9	18.9	18.9	19.9	21.8	23.8	24.8
87.5°	5.0	6.0	6.0	7.0	7.9	8.9	9.9	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	8.9
92.5°	8.9	8.9	7.9	8.9	8.9	8.9	8.9	9.9	10.9	10.9	12.9
95°	26.8	25.8	25.8	25.8	25.8	25.8	25.8	26.8	27.8	27.8	28.8
97.5°	51.6	51.6	50.6	50.6	51.6	51.6	51.6	52.6	54.6	53.6	55.6
100°	80.4	80.4	79.4	80.4	81.4	82.4	84.4	84.4	86.4	86.4	89.4
102.5°	113.2	113.2	112.2	114.2	115.2	117.2	117.2	119.2	122.1	122.1	126.1
105°	146.0	147.0	147.0	149.0	150.9	152.9	152.9	155.9	159.9	159.9	164.9
107.5°	181.7	182.7	182.7	184.7	186.7	188.7	189.7	193.6	197.6	198.6	204.6
110°	216.5	217.5	218.5	220.5	222.4	225.4	227.4	231.4	236.4	238.3	243.3



TEST NUMBER: P395545

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	249.3	253.2	254.2	257.2	260.2	263.2	265.2	270.1	276.1	279.1	285.0
115°	287.0	289.0	290.0	293.0	296.9	299.9	301.9	306.9	312.8	316.8	323.7
117.5°	317.8	322.7	323.7	326.7	330.7	333.7	335.7	341.6	348.6	353.5	360.5
120°	350.6	354.5	358.5	360.5	363.5	367.4	369.4	375.4	383.3	388.3	396.2
122.5°	380.3	384.3	388.3	391.3	395.2	397.2	400.2	407.2	415.1	421.1	429.0
125°	410.1	415.1	418.1	421.1	426.0	428.0	431.0	437.9	445.9	452.8	460.8
127.5°	438.9	441.9	446.9	448.9	453.8	455.8	458.8	466.7	474.7	481.6	489.6
130°	465.8	469.7	473.7	474.7	480.6	483.6	486.6	493.6	502.5	509.4	517.4
132.5°	491.6	493.6	498.5	501.5	506.5	509.4	512.4	518.4	527.3	534.3	542.2
135°	515.4	517.4	523.4	526.3	529.3	532.3	536.3	542.2	551.2	558.1	566.1
137.5°	539.2	541.2	547.2	550.2	552.1	555.1	558.1	564.1	573.0	580.0	586.9
140°	561.1	563.1	567.0	571.0	573.0	575.0	578.0	583.9	591.9	598.8	605.8
142.5°	580.9	582.9	586.9	590.9	593.9	593.9	596.8	601.8	610.7	617.7	623.7
145°	599.8	600.8	604.8	608.8	612.7	612.7	613.7	618.7	626.6	634.6	640.5
147.5°	617.7	618.7	621.7	625.6	628.6	629.6	631.6	633.6	641.5	649.5	656.4
150°	633.6	634.6	636.6	640.5	642.5	644.5	646.5	647.5	653.4	660.4	668.3
152.5°	647.5	648.5	650.5	653.4	655.4	657.4	659.4	662.4	665.4	672.3	677.3
155°	661.4	662.4	663.4	666.4	668.3	669.3	670.3	674.3	677.3	681.2	686.2
157.5°	673.3	673.3	674.3	676.3	678.3	678.3	679.3	683.2	686.2	690.2	693.2
160°	683.2	683.2	684.2	686.2	686.2	687.2	688.2	691.2	693.2	698.1	702.1
162.5°	692.2	691.2	692.2	693.2	693.2	693.2	694.2	696.1	699.1	703.1	707.1
165°	699.1	699.1	699.1	700.1	700.1	699.1	699.1	701.1	703.1	706.1	709.1
167.5°	705.1	705.1	704.1	705.1	704.1	704.1	703.1	704.1	705.1	708.1	710.0
170°	710.0	709.1	709.1	709.1	708.1	707.1	707.1	707.1	707.1	709.1	711.0
172.5°	714.0	713.0	712.0	712.0	710.0	709.1	709.1	708.1	708.1	709.1	710.0
175°	715.0	714.0	713.0	713.0	711.0	710.0	709.1	709.1	708.1	709.1	710.0
177.5°	717.0	716.0	714.0	714.0	712.0	710.0	710.0	709.1	708.1	709.1	709.1
180°	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1



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CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
2.5°	398.2	398.2	397.2	396.2	396.2	395.2	394.3	393.3	392.3	391.3
5°	398.2	397.2	396.2	396.2	395.2	395.2	395.2	394.3	393.3	393.3
7.5°	398.2	398.2	397.2	396.2	396.2	396.2	396.2	396.2	395.2	395.2
10°	398.2	397.2	397.2	397.2	396.2	397.2	397.2	396.2	396.2	395.2
12.5°	397.2	397.2	397.2	397.2	397.2	397.2	397.2	397.2	397.2	396.2
15°	395.2	396.2	396.2	397.2	397.2	397.2	398.2	398.2	397.2	397.2
17.5°	394.3	395.2	396.2	397.2	397.2	397.2	398.2	398.2	398.2	398.2
20°	392.3	393.3	394.3	395.2	395.2	396.2	396.2	397.2	397.2	397.2
22.5°	388.3	389.3	391.3	392.3	393.3	394.3	395.2	395.2	395.2	395.2
25°	384.3	386.3	387.3	389.3	390.3	391.3	392.3	392.3	392.3	393.3
27.5°	379.4	381.3	384.3	385.3	386.3	387.3	388.3	389.3	389.3	389.3
30°	373.4	376.4	378.4	380.3	381.3	382.3	383.3	383.3	384.3	384.3
32.5°	366.4	369.4	371.4	373.4	374.4	375.4	377.4	377.4	378.4	378.4
35°	357.5	360.5	363.5	365.5	366.4	367.4	369.4	370.4	370.4	370.4
37.5°	348.6	351.5	354.5	357.5	358.5	359.5	361.5	361.5	362.5	362.5
40°	337.6	340.6	343.6	346.6	346.6	348.6	349.6	350.6	351.5	351.5
42.5°	326.7	329.7	331.7	334.7	335.7	336.7	337.6	339.6	339.6	340.6
45°	313.8	316.8	318.8	321.8	322.7	323.7	325.7	326.7	327.7	327.7
47.5°	299.9	301.9	303.9	306.9	308.8	309.8	310.8	311.8	312.8	311.8
50°	284.0	286.0	289.0	292.0	293.0	293.9	295.9	295.9	296.9	296.9
52.5°	267.1	270.1	272.1	275.1	276.1	277.1	279.1	279.1	280.0	280.0
55°	248.3	250.3	252.2	257.2	258.2	259.2	261.2	261.2	262.2	263.2
57.5°	230.4	231.4	234.4	236.4	238.3	238.3	239.3	240.3	241.3	241.3
60°	211.5	212.5	214.5	217.5	217.5	218.5	220.5	220.5	221.5	221.5
62.5°	191.7	193.6	195.6	198.6	197.6	198.6	200.6	200.6	201.6	201.6
65°	171.8	172.8	174.8	176.8	177.8	177.8	178.8	179.7	180.7	180.7
67.5°	150.9	152.9	153.9	156.9	155.9	156.9	157.9	157.9	158.9	158.9
70°	131.1	132.1	134.1	135.1	135.1	136.1	137.0	137.0	137.0	138.0
72.5°	111.2	112.2	113.2	114.2	114.2	115.2	116.2	116.2	117.2	117.2
75°	90.4	92.4	93.3	95.3	94.3	95.3	97.3	97.3	97.3	97.3
77.5°	72.5	73.5	75.5	76.5	76.5	76.5	78.5	77.5	78.5	78.5
80°	54.6	55.6	57.6	58.6	58.6	59.6	60.6	60.6	60.6	61.6
82.5°	38.7	40.7	42.7	43.7	43.7	44.7	45.7	45.7	46.7	46.7
85°	26.8	28.8	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	21.8	21.8	22.8	22.8	23.8	23.8
90°	9.9	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°	29.8	30.8	30.8	32.8	32.8	32.8	33.8	33.8	33.8	33.8
97.5°	57.6	57.6	57.6	59.6	59.6	59.6	60.6	60.6	60.6	61.6
100°	90.4	91.4	91.4	94.3	93.3	95.3	95.3	95.3	95.3	96.3
102.5°	127.1	129.1	130.1	133.1	133.1	133.1	135.1	134.1	135.1	135.1
105°	166.8	168.8	169.8	172.8	174.8	174.8	176.8	175.8	176.8	177.8
107.5°	206.6	209.5	211.5	214.5	216.5	217.5	217.5	218.5	219.5	220.5
110°	247.3	250.3	255.2	258.2	259.2	261.2	262.2	263.2	264.2	266.1



TEST NUMBER: P395545

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	290.0	293.0	296.9	300.9	299.9	302.9	304.9	305.9	306.9	305.9
115°	328.7	332.7	336.7	340.6	340.6	342.6	346.6	347.6	347.6	349.6
117.5°	365.5	370.4	374.4	378.4	379.4	381.3	384.3	387.3	387.3	389.3
120°	401.2	407.2	411.1	415.1	417.1	418.1	421.1	425.0	425.0	425.0
122.5°	435.0	439.9	444.9	448.9	450.9	452.8	454.8	459.8	459.8	461.8
125°	466.7	472.7	477.7	481.6	483.6	485.6	489.6	492.6	493.6	493.6
127.5°	496.5	502.5	507.5	512.4	513.4	515.4	519.4	523.4	524.3	525.3
130°	524.3	530.3	535.3	540.2	542.2	543.2	548.2	551.2	553.1	554.1
132.5°	549.2	555.1	560.1	565.1	567.0	569.0	572.0	577.0	578.0	578.0
135°	572.0	578.0	582.9	588.9	589.9	591.9	595.8	598.8	600.8	601.8
137.5°	592.9	598.8	604.8	609.7	611.7	612.7	616.7	620.7	622.7	623.7
140°	611.7	617.7	623.7	627.6	628.6	631.6	634.6	638.5	640.5	641.5
142.5°	629.6	634.6	639.5	644.5	645.5	647.5	650.5	654.4	656.4	657.4
145°	645.5	650.5	654.4	658.4	659.4	661.4	664.4	667.3	669.3	670.3
147.5°	660.4	664.4	668.3	671.3	672.3	674.3	676.3	678.3	680.3	681.2
150°	673.3	675.3	679.3	681.2	682.2	684.2	686.2	688.2	690.2	691.2
152.5°	683.2	686.2	688.2	691.2	692.2	693.2	695.2	697.1	699.1	699.1
155°	691.2	694.2	696.1	699.1	700.1	701.1	703.1	704.1	706.1	706.1
157.5°	697.1	700.1	702.1	704.1	705.1	706.1	707.1	709.1	711.0	711.0
160°	704.1	705.1	706.1	708.1	708.1	709.1	710.0	711.0	713.0	713.0
162.5°	710.0	711.0	709.1	710.0	709.1	710.0	711.0	712.0	713.0	713.0
165°	712.0	714.0	713.0	714.0	714.0	714.0	714.0	715.0	715.0	715.0
167.5°	712.0	714.0	713.0	713.0	714.0	714.0	715.0	716.0	716.0	716.0
170°	712.0	713.0	712.0	711.0	712.0	712.0	712.0	713.0	713.0	713.0
172.5°	711.0	712.0	710.0	709.1	709.1	709.1	708.1	708.1	707.1	707.1
175°	710.0	710.0	708.1	707.1	707.1	707.1	705.1	704.1	703.1	702.1
177.5°	709.1	709.1	706.1	705.1	705.1	704.1	704.1	702.1	702.1	701.1
180°	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1	707.1

(END OF REPORT)