

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: P395549

Luminaire Tested: **I3-FL-40L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395549
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 (6500K)
Description: CORELITE I3, FROSTED TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3813.2 lumens
Efficiency: N/A
Efficacy: 131.0 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

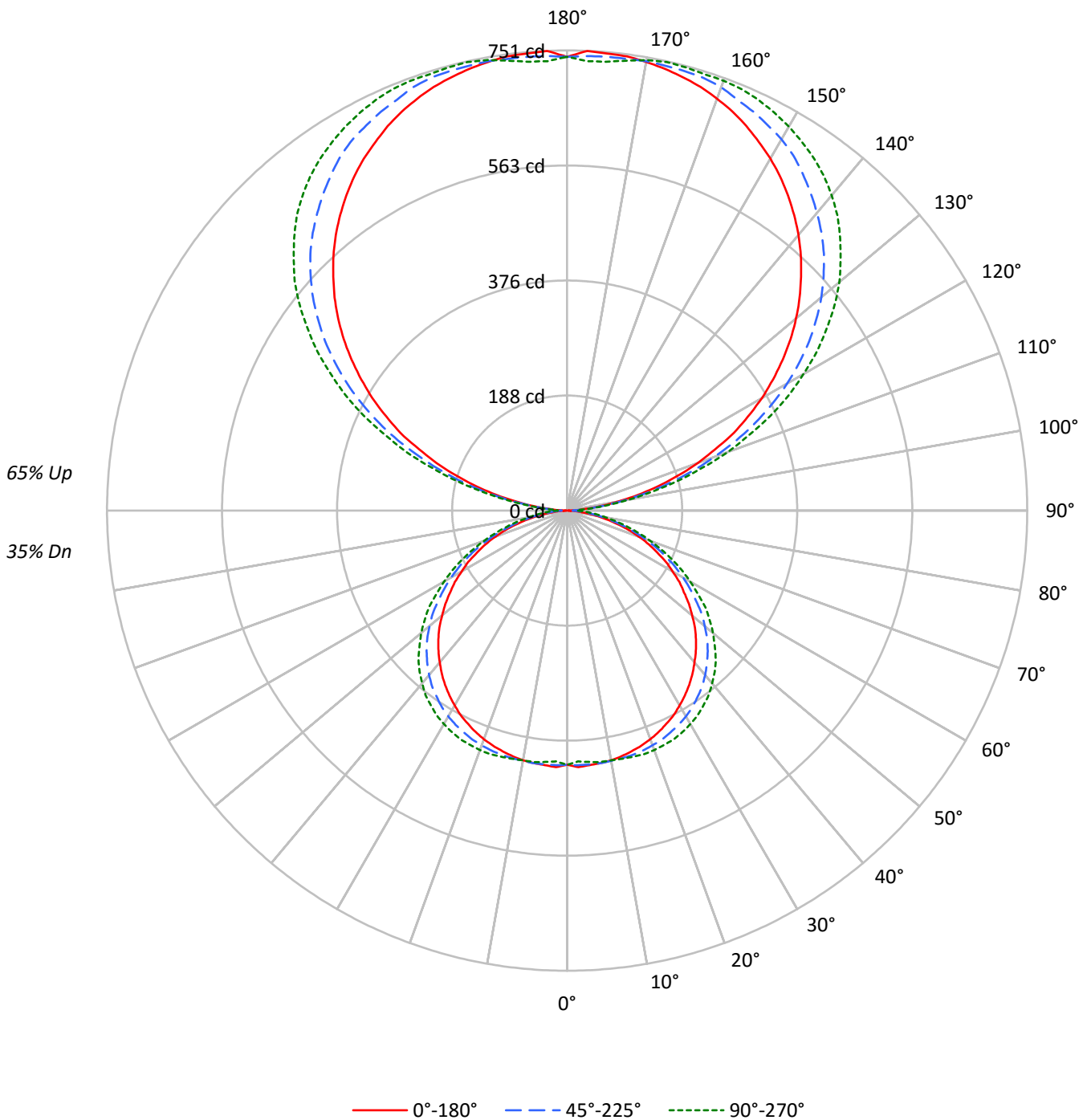
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2280	2280	2280
5°	2292	2243	2208
10°	2293	2212	2182
15°	2288	2193	2173
20°	2288	2174	2169
25°	2282	2155	2161
30°	2274	2134	2142
35°	2263	2100	2110
40°	2240	2056	2064
45°	2217	1992	2000
50°	2166	1904	1903
55°	2104	1784	1789
60°	2033	1644	1616
65°	1933	1473	1436
70°	1796	1256	1212
75°	1563	998	964
80°	1219	709	706
85°	662	406	464



TEST NUMBER: P395549

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	1.0
10°-20°	116.3	3.1
20°-30°	183.5	4.8
30°-40°	230.6	6.0
40°-50°	247.9	6.5
50°-60°	228.1	6.0
60°-70°	174.7	4.6
70°-80°	99.5	2.6
80°-90°	31.1	0.8
90°-100°	41.5	1.1
100°-110°	180.7	4.7
110°-120°	330.8	8.7
120°-130°	426.4	11.2
130°-140°	453.8	11.9
140°-150°	417.5	10.9
150°-160°	330.7	8.7
160°-170°	209.4	5.5
170°-180°	70.9	1.9
0°-30°	339.4	8.9
0°-40°	570.0	14.9
0°-60°	1046.0	27.4
0°-90°	1351.3	35.4
90°-120°	553.1	14.5
90°-150°	1850.8	48.5
90°-180°	2462.0	64.6
0°-180°	3813.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	417	413	416	414	412	40
15°	407	404	413	416	416	115
25°	384	385	399	409	412	177
35°	347	352	371	384	388	217
45°	297	305	324	338	343	229
55°	233	242	257	270	276	209
65°	162	167	178	186	189	161
75°	85	87	94	99	102	90
85°	16	20	26	33	35	20
90°	1	3	9	14	16	2
95°	28	27	30	34	35	35
105°	153	160	173	183	186	163
115°	300	314	339	357	366	295
125°	430	448	482	506	517	384
135°	540	557	593	618	630	416
145°	628	642	671	690	702	393
155°	692	701	718	733	739	319
165°	732	732	742	748	749	207
175°	749	744	744	740	735	71
180°	740	740	740	740	740	



TEST NUMBER: P395549

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	419.1	418.0	417.0	414.9	414.9	413.9	413.9	413.9	413.9	414.9	415.9
5°	417.0	417.0	415.9	413.9	413.9	412.8	412.8	413.9	412.8	413.9	415.9
7.5°	415.9	415.9	414.9	412.8	412.8	412.8	412.8	412.8	412.8	413.9	415.9
10°	413.9	413.9	411.8	410.7	410.7	410.7	410.7	411.8	411.8	412.8	414.9
12.5°	410.7	409.7	408.7	407.6	407.6	407.6	408.7	409.7	409.7	411.8	413.9
15°	406.6	406.6	405.5	404.5	404.5	404.5	405.5	406.6	407.6	409.7	412.8
17.5°	402.4	402.4	401.4	401.4	401.4	401.4	402.4	403.5	405.5	407.6	410.7
20°	397.2	397.2	396.2	396.2	396.2	397.2	397.2	399.3	401.4	404.5	407.6
22.5°	391.0	391.0	391.0	389.9	391.0	392.0	393.1	395.1	397.2	400.3	404.5
25°	383.7	383.7	383.7	383.7	384.7	384.7	386.8	388.9	391.0	395.1	399.3
27.5°	376.4	376.4	376.4	375.4	377.5	378.5	379.5	382.7	384.7	389.9	394.1
30°	367.1	367.1	367.1	368.1	369.1	370.2	372.3	375.4	377.5	382.7	387.9
32.5°	357.7	357.7	357.7	357.7	360.8	361.9	362.9	366.0	370.2	375.4	380.6
35°	347.3	347.3	347.3	348.3	350.4	351.5	353.5	356.7	360.8	366.0	371.2
37.5°	335.9	336.9	336.9	337.9	340.0	342.1	344.2	347.3	351.5	356.7	361.9
40°	323.4	324.4	324.4	325.5	327.6	329.6	331.7	335.9	340.0	345.2	350.4
42.5°	310.9	312.0	312.0	314.0	316.1	318.2	320.3	324.4	328.6	333.8	337.9
45°	297.4	298.4	298.4	300.5	303.6	304.7	307.8	312.0	316.1	320.3	324.4
47.5°	282.8	283.9	283.9	286.0	289.1	291.2	293.2	297.4	300.5	305.7	309.9
50°	266.2	267.2	268.3	270.4	274.5	276.6	278.7	281.8	286.0	289.1	293.2
52.5°	250.6	250.6	251.6	253.7	256.8	258.9	260.0	263.1	268.3	272.4	276.6
55°	232.9	234.0	235.0	237.1	240.2	242.3	243.3	246.4	249.6	252.7	256.8
57.5°	217.3	217.3	218.4	220.4	223.6	224.6	225.6	227.7	231.9	235.0	238.1
60°	198.6	199.6	200.7	202.8	204.8	206.9	206.9	210.0	213.2	216.3	218.4
62.5°	182.0	182.0	183.0	185.1	186.1	188.2	188.2	191.3	193.4	196.5	198.6
65°	162.2	163.3	164.3	165.3	167.4	167.4	168.5	170.5	172.6	174.7	177.8
67.5°	144.5	144.5	145.6	146.6	147.7	147.7	148.7	150.8	152.9	154.9	157.0
70°	124.8	125.8	125.8	125.8	126.9	127.9	128.9	130.0	132.1	133.1	135.2
72.5°	105.0	105.0	106.1	106.1	107.1	108.1	109.2	110.2	111.3	113.3	114.4
75°	85.3	85.3	86.3	86.3	87.3	87.3	87.3	89.4	90.5	92.5	93.6
77.5°	65.5	66.5	66.5	66.5	67.6	68.6	68.6	69.7	71.7	72.8	73.8
80°	47.8	47.8	47.8	47.8	48.9	49.9	51.0	51.0	53.0	55.1	56.2
82.5°	30.2	30.2	31.2	32.2	32.2	33.3	34.3	35.4	37.4	38.5	39.5
85°	15.6	15.6	16.6	17.7	18.7	19.8	19.8	20.8	22.9	25.0	26.0
87.5°	5.2	6.2	6.2	7.3	8.3	9.4	10.4	11.4	13.5	15.6	16.6
90°	1.0	1.0	1.0	2.1	3.1	3.1	4.2	5.2	6.2	7.3	9.4
92.5°	9.4	9.4	8.3	9.4	9.4	9.4	9.4	10.4	11.4	11.4	13.5
95°	28.1	27.0	27.0	27.0	27.0	27.0	27.0	28.1	29.1	29.1	30.2
97.5°	54.1	54.1	53.0	53.0	54.1	54.1	54.1	55.1	57.2	56.2	58.2
100°	84.2	84.2	83.2	84.2	85.3	86.3	88.4	88.4	90.5	90.5	93.6
102.5°	118.5	118.5	117.5	119.6	120.6	122.7	122.7	124.8	127.9	127.9	132.1
105°	152.9	153.9	153.9	156.0	158.1	160.1	160.1	163.3	167.4	167.4	172.6
107.5°	190.3	191.3	191.3	193.4	195.5	197.6	198.6	202.8	206.9	208.0	214.2
110°	226.7	227.7	228.8	230.8	232.9	236.0	238.1	242.3	247.5	249.6	254.8



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CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	261.0	265.2	266.2	269.3	272.4	275.6	277.6	282.8	289.1	292.2	298.4
115°	300.5	302.6	303.6	306.8	310.9	314.0	316.1	321.3	327.6	331.7	339.0
117.5°	332.7	337.9	339.0	342.1	346.3	349.4	351.5	357.7	365.0	370.2	377.5
120°	367.1	371.2	375.4	377.5	380.6	384.7	386.8	393.1	401.4	406.6	414.9
122.5°	398.3	402.4	406.6	409.7	413.9	415.9	419.1	426.3	434.7	440.9	449.2
125°	429.5	434.7	437.8	440.9	446.1	448.2	451.3	458.6	466.9	474.2	482.5
127.5°	459.6	462.7	467.9	470.0	475.2	477.3	480.4	488.7	497.0	504.3	512.6
130°	487.7	491.8	496.0	497.0	503.3	506.4	509.5	516.8	526.2	533.4	541.8
132.5°	514.7	516.8	522.0	525.1	530.3	533.4	536.6	542.8	552.2	559.4	567.8
135°	539.7	541.8	548.0	551.1	554.2	557.4	561.5	567.8	577.1	584.4	592.7
137.5°	564.6	566.7	573.0	576.1	578.2	581.3	584.4	590.6	600.0	607.3	614.5
140°	587.5	589.6	593.7	597.9	600.0	602.1	605.2	611.4	619.7	627.0	634.3
142.5°	608.3	610.4	614.5	618.7	621.8	621.8	624.9	630.1	639.5	646.8	653.0
145°	628.1	629.1	633.3	637.4	641.6	641.6	642.6	647.8	656.1	664.5	670.7
147.5°	646.8	647.8	650.9	655.1	658.2	659.3	661.3	663.4	671.7	680.1	687.3
150°	663.4	664.5	666.5	670.7	672.8	674.9	676.9	678.0	684.2	691.5	699.8
152.5°	678.0	679.0	681.1	684.2	686.3	688.4	690.5	693.6	696.7	704.0	709.2
155°	692.5	693.6	694.6	697.7	699.8	700.9	701.9	706.1	709.2	713.3	718.5
157.5°	705.0	705.0	706.1	708.1	710.2	710.2	711.3	715.4	718.5	722.7	725.8
160°	715.4	715.4	716.5	718.5	718.5	719.6	720.6	723.7	725.8	731.0	735.2
162.5°	724.8	723.7	724.8	725.8	725.8	725.8	726.8	728.9	732.0	736.2	740.4
165°	732.0	732.0	732.0	733.1	733.1	732.0	732.0	734.1	736.2	739.3	742.4
167.5°	738.3	738.3	737.2	738.3	737.2	737.2	736.2	737.2	738.3	741.4	743.5
170°	743.5	742.4	742.4	742.4	741.4	740.4	740.4	740.4	740.4	742.4	744.5
172.5°	747.6	746.6	745.6	745.6	743.5	742.4	742.4	741.4	741.4	742.4	743.5
175°	748.7	747.6	746.6	746.6	744.5	743.5	742.4	742.4	741.4	742.4	743.5
177.5°	750.8	749.7	747.6	747.6	745.6	743.5	743.5	742.4	741.4	742.4	742.4
180°	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4



TEST NUMBER: P395549

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	417.0	417.0	415.9	414.9	414.9	413.9	412.8	411.8	410.7	409.7
5°	417.0	415.9	414.9	414.9	413.9	413.9	413.9	412.8	411.8	411.8
7.5°	417.0	417.0	415.9	414.9	414.9	414.9	414.9	414.9	413.9	413.9
10°	417.0	415.9	415.9	415.9	414.9	415.9	415.9	414.9	414.9	413.9
12.5°	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	414.9
15°	413.9	414.9	414.9	415.9	415.9	415.9	417.0	417.0	415.9	415.9
17.5°	412.8	413.9	414.9	415.9	415.9	415.9	417.0	417.0	417.0	417.0
20°	410.7	411.8	412.8	413.9	413.9	414.9	414.9	415.9	415.9	415.9
22.5°	406.6	407.6	409.7	410.7	411.8	412.8	413.9	413.9	413.9	413.9
25°	402.4	404.5	405.5	407.6	408.7	409.7	410.7	410.7	410.7	411.8
27.5°	397.2	399.3	402.4	403.5	404.5	405.5	406.6	407.6	407.6	407.6
30°	391.0	394.1	396.2	398.3	399.3	400.3	401.4	401.4	402.4	402.4
32.5°	383.7	386.8	388.9	391.0	392.0	393.1	395.1	395.1	396.2	396.2
35°	374.3	377.5	380.6	382.7	383.7	384.7	386.8	387.9	387.9	387.9
37.5°	365.0	368.1	371.2	374.3	375.4	376.4	378.5	378.5	379.5	379.5
40°	353.5	356.7	359.8	362.9	362.9	365.0	366.0	367.1	368.1	368.1
42.5°	342.1	345.2	347.3	350.4	351.5	352.5	353.5	355.6	355.6	356.7
45°	328.6	331.7	333.8	336.9	337.9	339.0	341.1	342.1	343.1	343.1
47.5°	314.0	316.1	318.2	321.3	323.4	324.4	325.5	326.5	327.6	326.5
50°	297.4	299.5	302.6	305.7	306.8	307.8	309.9	309.9	310.9	310.9
52.5°	279.7	282.8	284.9	288.0	289.1	290.1	292.2	292.2	293.2	293.2
55°	260.0	262.0	264.1	269.3	270.4	271.4	273.5	273.5	274.5	275.6
57.5°	241.2	242.3	245.4	247.5	249.6	249.6	250.6	251.6	252.7	252.7
60°	221.5	222.5	224.6	227.7	227.7	228.8	230.8	230.8	231.9	231.9
62.5°	200.7	202.8	204.8	208.0	206.9	208.0	210.0	210.0	211.1	211.1
65°	179.9	180.9	183.0	185.1	186.1	186.1	187.2	188.2	189.3	189.3
67.5°	158.1	160.1	161.2	164.3	163.3	164.3	165.3	165.3	166.4	166.4
70°	137.3	138.3	140.4	141.4	141.4	142.5	143.5	143.5	143.5	144.5
72.5°	116.5	117.5	118.5	119.6	119.6	120.6	121.7	121.7	122.7	122.7
75°	94.6	96.7	97.7	99.8	98.8	99.8	101.9	101.9	101.9	101.9
77.5°	75.9	76.9	79.0	80.1	80.1	80.1	82.1	81.1	82.1	82.1
80°	57.2	58.2	60.3	61.4	61.4	62.4	63.4	63.4	63.4	64.5
82.5°	40.6	42.6	44.7	45.8	45.8	46.8	47.8	47.8	48.9	48.9
85°	28.1	30.2	32.2	32.2	33.3	34.3	35.4	35.4	35.4	35.4
87.5°	18.7	19.8	20.8	21.8	22.9	22.9	23.9	23.9	25.0	25.0
90°	10.4	11.4	12.5	13.5	13.5	14.6	14.6	15.6	15.6	15.6
92.5°	14.6	14.6	15.6	16.6	16.6	16.6	16.6	17.7	17.7	17.7
95°	31.2	32.2	32.2	34.3	34.3	34.3	35.4	35.4	35.4	35.4
97.5°	60.3	60.3	60.3	62.4	62.4	62.4	63.4	63.4	63.4	64.5
100°	94.6	95.7	95.7	98.8	97.7	99.8	99.8	99.8	99.8	100.9
102.5°	133.1	135.2	136.2	139.3	139.3	139.3	141.4	140.4	141.4	141.4
105°	174.7	176.8	177.8	180.9	183.0	183.0	185.1	184.1	185.1	186.1
107.5°	216.3	219.4	221.5	224.6	226.7	227.7	227.7	228.8	229.8	230.8
110°	258.9	262.0	267.2	270.4	271.4	273.5	274.5	275.6	276.6	278.7



TEST NUMBER: P395549

CATALOG NUMBER: I3-FL-40L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	303.6	306.8	310.9	315.1	314.0	317.2	319.2	320.3	321.3	320.3
115°	344.2	348.3	352.5	356.7	356.7	358.7	362.9	363.9	363.9	366.0
117.5°	382.7	387.9	392.0	396.2	397.2	399.3	402.4	405.5	405.5	407.6
120°	420.1	426.3	430.5	434.7	436.7	437.8	440.9	445.1	445.1	445.1
122.5°	455.5	460.7	465.8	470.0	472.1	474.2	476.2	481.4	481.4	483.5
125°	488.7	495.0	500.2	504.3	506.4	508.5	512.6	515.8	516.8	516.8
127.5°	519.9	526.2	531.4	536.6	537.6	539.7	543.8	548.0	549.0	550.1
130°	549.0	555.3	560.5	565.7	567.8	568.8	574.0	577.1	579.2	580.2
132.5°	575.0	581.3	586.5	591.7	593.7	595.8	598.9	604.1	605.2	605.2
135°	598.9	605.2	610.4	616.6	617.7	619.7	623.9	627.0	629.1	630.1
137.5°	620.8	627.0	633.3	638.5	640.5	641.6	645.7	649.9	652.0	653.0
140°	640.5	646.8	653.0	657.2	658.2	661.3	664.5	668.6	670.7	671.7
142.5°	659.3	664.5	669.7	674.9	675.9	678.0	681.1	685.3	687.3	688.4
145°	675.9	681.1	685.3	689.4	690.5	692.5	695.7	698.8	700.9	701.9
147.5°	691.5	695.7	699.8	702.9	704.0	706.1	708.1	710.2	712.3	713.3
150°	705.0	707.1	711.3	713.3	714.4	716.5	718.5	720.6	722.7	723.7
152.5°	715.4	718.5	720.6	723.7	724.8	725.8	727.9	730.0	732.0	732.0
155°	723.7	726.8	728.9	732.0	733.1	734.1	736.2	737.2	739.3	739.3
157.5°	730.0	733.1	735.2	737.2	738.3	739.3	740.4	742.4	744.5	744.5
160°	737.2	738.3	739.3	741.4	741.4	742.4	743.5	744.5	746.6	746.6
162.5°	743.5	744.5	742.4	743.5	742.4	743.5	744.5	745.6	746.6	746.6
165°	745.6	747.6	746.6	747.6	747.6	747.6	747.6	748.7	748.7	748.7
167.5°	745.6	747.6	746.6	746.6	747.6	747.6	748.7	749.7	749.7	749.7
170°	745.6	746.6	745.6	744.5	745.6	745.6	745.6	746.6	746.6	746.6
172.5°	744.5	745.6	743.5	742.4	742.4	742.4	741.4	741.4	740.4	740.4
175°	743.5	743.5	741.4	740.4	740.4	740.4	738.3	737.2	736.2	735.2
177.5°	742.4	742.4	739.3	738.3	738.3	737.2	737.2	735.2	735.2	734.1
180°	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4

(END OF REPORT)