

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: P395550

Luminaire Tested: **I3-FL-40L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395550
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 (3000K)
Description: CORELITE I3, FROSTED TOP COVER
4000 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: 3451.9 lumens
Efficiency: N/A
Efficacy: 124.2 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

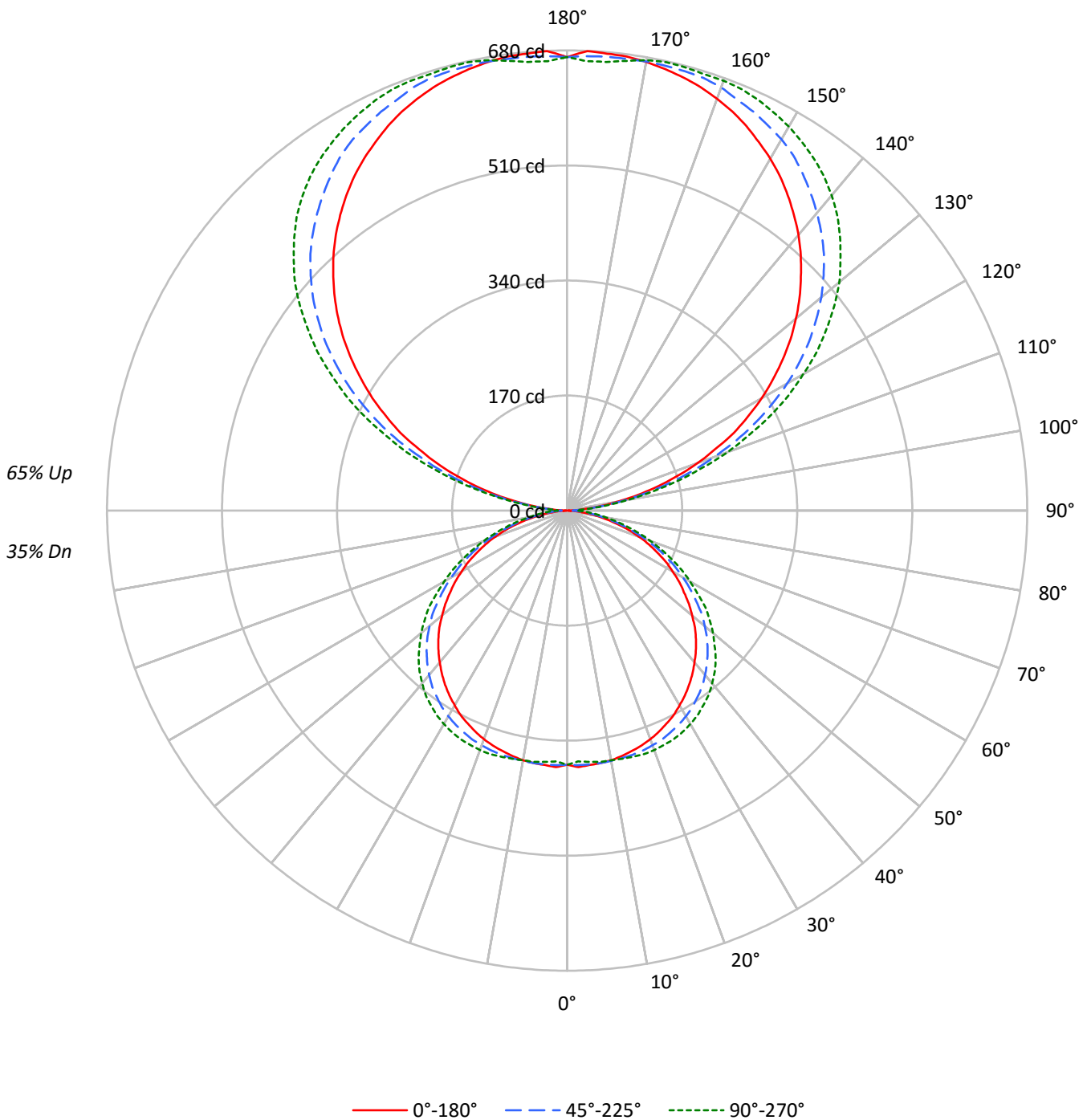
Input Watts (W): 27.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2064	2064	2064
5°	2075	2030	1999
10°	2075	2002	1975
15°	2071	1985	1967
20°	2071	1968	1964
25°	2066	1951	1957
30°	2058	1932	1939
35°	2049	1901	1910
40°	2028	1861	1868
45°	2007	1804	1811
50°	1961	1724	1723
55°	1905	1615	1620
60°	1841	1488	1463
65°	1750	1334	1299
70°	1626	1137	1097
75°	1415	903	873
80°	1104	641	640
85°	598	367	420



TEST NUMBER: P395550

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	1.0
10°-20°	105.3	3.1
20°-30°	166.1	4.8
30°-40°	208.8	6.0
40°-50°	224.5	6.5
50°-60°	206.5	6.0
60°-70°	158.2	4.6
70°-80°	90.1	2.6
80°-90°	28.1	0.8
90°-100°	37.6	1.1
100°-110°	163.6	4.7
110°-120°	299.5	8.7
120°-130°	386.0	11.2
130°-140°	410.8	11.9
140°-150°	377.9	10.9
150°-160°	299.4	8.7
160°-170°	189.6	5.5
170°-180°	64.2	1.9
0°-30°	307.2	8.9
0°-40°	516.0	14.9
0°-60°	946.9	27.4
0°-90°	1223.3	35.4
90°-120°	500.7	14.5
90°-150°	1675.5	48.5
90°-180°	2229.0	64.6
0°-180°	3451.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	376	376	376	376	376	
5°	378	374	376	375	373	36
15°	368	366	374	376	376	104
25°	347	348	362	370	373	160
35°	314	318	336	347	351	197
45°	269	276	294	306	311	207
55°	211	219	232	245	250	189
65°	147	152	161	168	171	146
75°	77	79	85	89	92	82
85°	14	18	24	30	32	18
90°	1	3	8	12	14	2
95°	25	24	27	31	32	32
105°	138	145	156	166	168	147
115°	272	284	307	323	331	267
125°	389	406	437	458	468	347
135°	489	505	537	559	570	377
145°	569	581	607	625	635	356
155°	627	634	650	664	669	289
165°	663	663	672	677	678	187
175°	678	673	673	670	666	65
180°	670	670	670	670	670	



TEST NUMBER: P395550

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6
2.5°	379.4	378.4	377.5	375.6	375.6	374.6	374.6	374.6	374.6	375.6	376.5
5°	377.5	377.5	376.5	374.6	374.6	373.7	373.7	374.6	373.7	374.6	376.5
7.5°	376.5	376.5	375.6	373.7	373.7	373.7	373.7	373.7	373.7	374.6	376.5
10°	374.6	374.6	372.8	371.8	371.8	371.8	371.8	372.8	372.8	373.7	375.6
12.5°	371.8	370.9	369.9	369.0	369.0	369.0	369.9	370.9	370.9	372.8	374.6
15°	368.1	368.1	367.1	366.2	366.2	366.2	367.1	368.1	369.0	370.9	373.7
17.5°	364.3	364.3	363.4	363.4	363.4	363.4	364.3	365.2	367.1	369.0	371.8
20°	359.6	359.6	358.6	358.6	358.6	359.6	359.6	361.5	363.4	366.2	369.0
22.5°	353.9	353.9	353.9	353.0	353.9	354.9	355.8	357.7	359.6	362.4	366.2
25°	347.4	347.4	347.4	347.4	348.3	348.3	350.2	352.1	353.9	357.7	361.5
27.5°	340.8	340.8	340.8	339.8	341.7	342.6	343.6	346.4	348.3	353.0	356.8
30°	332.3	332.3	332.3	333.2	334.2	335.1	337.0	339.8	341.7	346.4	351.1
32.5°	323.8	323.8	323.8	323.8	326.6	327.6	328.5	331.3	335.1	339.8	344.5
35°	314.4	314.4	314.4	315.3	317.2	318.2	320.1	322.9	326.6	331.3	336.1
37.5°	304.0	305.0	305.0	305.9	307.8	309.7	311.6	314.4	318.2	322.9	327.6
40°	292.8	293.7	293.7	294.6	296.5	298.4	300.3	304.0	307.8	312.5	317.2
42.5°	281.5	282.4	282.4	284.3	286.2	288.0	289.9	293.7	297.5	302.2	305.9
45°	269.2	270.2	270.2	272.0	274.9	275.8	278.6	282.4	286.2	289.9	293.7
47.5°	256.0	257.0	257.0	258.9	261.7	263.6	265.5	269.2	272.0	276.8	280.5
50°	241.0	241.9	242.9	244.7	248.5	250.4	252.3	255.1	258.9	261.7	265.5
52.5°	226.9	226.9	227.8	229.7	232.5	234.4	235.3	238.2	242.9	246.6	250.4
55°	210.9	211.8	212.7	214.6	217.4	219.3	220.3	223.1	225.9	228.7	232.5
57.5°	196.7	196.7	197.7	199.6	202.4	203.3	204.3	206.2	209.9	212.7	215.6
60°	179.8	180.7	181.7	183.6	185.4	187.3	187.3	190.1	193.0	195.8	197.7
62.5°	164.7	164.7	165.7	167.6	168.5	170.4	170.4	173.2	175.1	177.9	179.8
65°	146.8	147.8	148.7	149.7	151.6	151.6	152.5	154.4	156.3	158.1	161.0
67.5°	130.8	130.8	131.8	132.7	133.7	133.7	134.6	136.5	138.4	140.3	142.1
70°	113.0	113.9	113.9	113.9	114.8	115.8	116.7	117.7	119.5	120.5	122.4
72.5°	95.1	95.1	96.0	96.0	97.0	97.9	98.8	99.8	100.7	102.6	103.5
75°	77.2	77.2	78.1	78.1	79.1	79.1	79.1	81.0	81.9	83.8	84.7
77.5°	59.3	60.2	60.2	60.2	61.2	62.1	62.1	63.1	65.0	65.9	66.8
80°	43.3	43.3	43.3	43.3	44.2	45.2	46.1	46.1	48.0	49.9	50.8
82.5°	27.3	27.3	28.2	29.2	29.2	30.1	31.1	32.0	33.9	34.8	35.8
85°	14.1	14.1	15.1	16.0	16.9	17.9	17.9	18.8	20.7	22.6	23.5
87.5°	4.7	5.6	5.6	6.6	7.5	8.5	9.4	10.4	12.2	14.1	15.1
90°	0.9	0.9	0.9	1.9	2.8	2.8	3.8	4.7	5.6	6.6	8.5
92.5°	8.5	8.5	7.5	8.5	8.5	8.5	8.5	9.4	10.4	10.4	12.2
95°	25.4	24.5	24.5	24.5	24.5	24.5	24.5	25.4	26.4	26.4	27.3
97.5°	48.9	48.9	48.0	48.0	48.9	48.9	48.9	49.9	51.8	50.8	52.7
100°	76.2	76.2	75.3	76.2	77.2	78.1	80.0	80.0	81.9	81.9	84.7
102.5°	107.3	107.3	106.4	108.3	109.2	111.1	111.1	113.0	115.8	115.8	119.5
105°	138.4	139.3	139.3	141.2	143.1	145.0	145.0	147.8	151.6	151.6	156.3
107.5°	172.3	173.2	173.2	175.1	177.0	178.9	179.8	183.6	187.3	188.3	193.9
110°	205.2	206.2	207.1	209.0	210.9	213.7	215.6	219.3	224.0	225.9	230.6



TEST NUMBER: P395550

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	236.3	240.0	241.0	243.8	246.6	249.5	251.3	256.0	261.7	264.5	270.2
115°	272.0	273.9	274.9	277.7	281.5	284.3	286.2	290.9	296.5	300.3	306.9
117.5°	301.2	305.9	306.9	309.7	313.5	316.3	318.2	323.8	330.4	335.1	341.7
120°	332.3	336.1	339.8	341.7	344.5	348.3	350.2	355.8	363.4	368.1	375.6
122.5°	360.5	364.3	368.1	370.9	374.6	376.5	379.4	385.9	393.5	399.1	406.7
125°	388.8	393.5	396.3	399.1	403.8	405.7	408.5	415.1	422.7	429.2	436.8
127.5°	416.1	418.9	423.6	425.5	430.2	432.1	434.9	442.4	450.0	456.5	464.1
130°	441.5	445.2	449.0	450.0	455.6	458.4	461.3	467.8	476.3	482.9	490.4
132.5°	466.0	467.8	472.5	475.4	480.1	482.9	485.7	491.4	499.8	506.4	514.0
135°	488.6	490.4	496.1	498.9	501.7	504.6	508.3	514.0	522.4	529.0	536.6
137.5°	511.1	513.0	518.7	521.5	523.4	526.2	529.0	534.7	543.1	549.7	556.3
140°	531.9	533.7	537.5	541.3	543.1	545.0	547.9	553.5	561.0	567.6	574.2
142.5°	550.7	552.6	556.3	560.1	562.9	562.9	565.7	570.4	578.9	585.5	591.2
145°	568.6	569.5	573.3	577.0	580.8	580.8	581.7	586.4	594.0	601.5	607.2
147.5°	585.5	586.4	589.3	593.0	595.9	596.8	598.7	600.6	608.1	615.6	622.2
150°	600.6	601.5	603.4	607.2	609.0	610.9	612.8	613.7	619.4	626.0	633.5
152.5°	613.7	614.7	616.6	619.4	621.3	623.2	625.0	627.9	630.7	637.3	642.0
155°	626.9	627.9	628.8	631.6	633.5	634.5	635.4	639.2	642.0	645.8	650.5
157.5°	638.2	638.2	639.2	641.0	642.9	642.9	643.9	647.6	650.5	654.2	657.0
160°	647.6	647.6	648.6	650.5	650.5	651.4	652.3	655.2	657.0	661.8	665.5
162.5°	656.1	655.2	656.1	657.0	657.0	657.0	658.0	659.9	662.7	666.5	670.2
165°	662.7	662.7	662.7	663.6	663.6	662.7	662.7	664.6	666.5	669.3	672.1
167.5°	668.3	668.3	667.4	668.3	667.4	667.4	666.5	667.4	668.3	671.2	673.1
170°	673.1	672.1	672.1	672.1	671.2	670.2	670.2	670.2	670.2	672.1	674.0
172.5°	676.8	675.9	674.9	674.9	673.1	672.1	672.1	671.2	671.2	672.1	673.1
175°	677.8	676.8	675.9	675.9	674.0	673.1	672.1	672.1	671.2	672.1	673.1
177.5°	679.6	678.7	676.8	676.8	674.9	673.1	673.1	672.1	671.2	672.1	672.1
180°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2



TEST NUMBER: P395550

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6
2.5°	377.5	377.5	376.5	375.6	375.6	374.6	373.7	372.8	371.8	370.9
5°	377.5	376.5	375.6	375.6	374.6	374.6	374.6	373.7	372.8	372.8
7.5°	377.5	377.5	376.5	375.6	375.6	375.6	375.6	375.6	374.6	374.6
10°	377.5	376.5	376.5	376.5	375.6	376.5	376.5	375.6	375.6	374.6
12.5°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	375.6
15°	374.6	375.6	375.6	376.5	376.5	376.5	377.5	377.5	376.5	376.5
17.5°	373.7	374.6	375.6	376.5	376.5	376.5	377.5	377.5	377.5	377.5
20°	371.8	372.8	373.7	374.6	374.6	375.6	375.6	376.5	376.5	376.5
22.5°	368.1	369.0	370.9	371.8	372.8	373.7	374.6	374.6	374.6	374.6
25°	364.3	366.2	367.1	369.0	369.9	370.9	371.8	371.8	371.8	372.8
27.5°	359.6	361.5	364.3	365.2	366.2	367.1	368.1	369.0	369.0	369.0
30°	353.9	356.8	358.6	360.5	361.5	362.4	363.4	363.4	364.3	364.3
32.5°	347.4	350.2	352.1	353.9	354.9	355.8	357.7	357.7	358.6	358.6
35°	338.9	341.7	344.5	346.4	347.4	348.3	350.2	351.1	351.1	351.1
37.5°	330.4	333.2	336.1	338.9	339.8	340.8	342.6	342.6	343.6	343.6
40°	320.1	322.9	325.7	328.5	328.5	330.4	331.3	332.3	333.2	333.2
42.5°	309.7	312.5	314.4	317.2	318.2	319.1	320.1	321.9	321.9	322.9
45°	297.5	300.3	302.2	305.0	305.9	306.9	308.8	309.7	310.6	310.6
47.5°	284.3	286.2	288.0	290.9	292.8	293.7	294.6	295.6	296.5	295.6
50°	269.2	271.1	273.9	276.8	277.7	278.6	280.5	280.5	281.5	281.5
52.5°	253.2	256.0	257.9	260.7	261.7	262.6	264.5	264.5	265.5	265.5
55°	235.3	237.2	239.1	243.8	244.7	245.7	247.6	247.6	248.5	249.5
57.5°	218.4	219.3	222.2	224.0	225.9	225.9	226.9	227.8	228.7	228.7
60°	200.5	201.4	203.3	206.2	206.2	207.1	209.0	209.0	209.9	209.9
62.5°	181.7	183.6	185.4	188.3	187.3	188.3	190.1	190.1	191.1	191.1
65°	162.9	163.8	165.7	167.6	168.5	168.5	169.4	170.4	171.3	171.3
67.5°	143.1	145.0	145.9	148.7	147.8	148.7	149.7	149.7	150.6	150.6
70°	124.3	125.2	127.1	128.0	128.0	129.0	129.9	129.9	129.9	130.8
72.5°	105.4	106.4	107.3	108.3	108.3	109.2	110.1	110.1	111.1	111.1
75°	85.7	87.5	88.5	90.4	89.4	90.4	92.3	92.3	92.3	92.3
77.5°	68.7	69.7	71.5	72.5	72.5	72.5	74.4	73.4	74.4	74.4
80°	51.8	52.7	54.6	55.5	55.5	56.5	57.4	57.4	57.4	58.4
82.5°	36.7	38.6	40.5	41.4	41.4	42.4	43.3	43.3	44.2	44.2
85°	25.4	27.3	29.2	29.2	30.1	31.1	32.0	32.0	32.0	32.0
87.5°	16.9	17.9	18.8	19.8	20.7	20.7	21.7	21.7	22.6	22.6
90°	9.4	10.4	11.3	12.2	12.2	13.2	13.2	14.1	14.1	14.1
92.5°	13.2	13.2	14.1	15.1	15.1	15.1	15.1	16.0	16.0	16.0
95°	28.2	29.2	29.2	31.1	31.1	31.1	32.0	32.0	32.0	32.0
97.5°	54.6	54.6	54.6	56.5	56.5	56.5	57.4	57.4	57.4	58.4
100°	85.7	86.6	86.6	89.4	88.5	90.4	90.4	90.4	90.4	91.3
102.5°	120.5	122.4	123.3	126.1	126.1	126.1	128.0	127.1	128.0	128.0
105°	158.1	160.0	161.0	163.8	165.7	165.7	167.6	166.6	167.6	168.5
107.5°	195.8	198.6	200.5	203.3	205.2	206.2	206.2	207.1	208.0	209.0
110°	234.4	237.2	241.9	244.7	245.7	247.6	248.5	249.5	250.4	252.3



TEST NUMBER: P395550

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	274.9	277.7	281.5	285.2	284.3	287.1	289.0	289.9	290.9	289.9
115°	311.6	315.3	319.1	322.9	322.9	324.8	328.5	329.5	329.5	331.3
117.5°	346.4	351.1	354.9	358.6	359.6	361.5	364.3	367.1	367.1	369.0
120°	380.3	385.9	389.7	393.5	395.4	396.3	399.1	402.9	402.9	402.9
122.5°	412.3	417.0	421.7	425.5	427.4	429.2	431.1	435.8	435.8	437.7
125°	442.4	448.1	452.8	456.5	458.4	460.3	464.1	466.9	467.8	467.8
127.5°	470.7	476.3	481.0	485.7	486.7	488.6	492.3	496.1	497.0	498.0
130°	497.0	502.7	507.4	512.1	514.0	514.9	519.6	522.4	524.3	525.3
132.5°	520.6	526.2	530.9	535.6	537.5	539.4	542.2	546.9	547.9	547.9
135°	542.2	547.9	552.6	558.2	559.2	561.0	564.8	567.6	569.5	570.4
137.5°	562.0	567.6	573.3	578.0	579.9	580.8	584.6	588.3	590.2	591.2
140°	579.9	585.5	591.2	594.9	595.9	598.7	601.5	605.3	607.2	608.1
142.5°	596.8	601.5	606.2	610.9	611.9	613.7	616.6	620.3	622.2	623.2
145°	611.9	616.6	620.3	624.1	625.0	626.9	629.8	632.6	634.5	635.4
147.5°	626.0	629.8	633.5	636.3	637.3	639.2	641.0	642.9	644.8	645.8
150°	638.2	640.1	643.9	645.8	646.7	648.6	650.5	652.3	654.2	655.2
152.5°	647.6	650.5	652.3	655.2	656.1	657.0	658.9	660.8	662.7	662.7
155°	655.2	658.0	659.9	662.7	663.6	664.6	666.5	667.4	669.3	669.3
157.5°	660.8	663.6	665.5	667.4	668.3	669.3	670.2	672.1	674.0	674.0
160°	667.4	668.3	669.3	671.2	671.2	672.1	673.1	674.0	675.9	675.9
162.5°	673.1	674.0	672.1	673.1	672.1	673.1	674.0	674.9	675.9	675.9
165°	674.9	676.8	675.9	676.8	676.8	676.8	676.8	677.8	677.8	677.8
167.5°	674.9	676.8	675.9	675.9	676.8	676.8	677.8	678.7	678.7	678.7
170°	674.9	675.9	674.9	674.0	674.9	674.9	674.9	675.9	675.9	675.9
172.5°	674.0	674.9	673.1	672.1	672.1	672.1	671.2	671.2	670.2	670.2
175°	673.1	673.1	671.2	670.2	670.2	670.2	668.3	667.4	666.5	665.5
177.5°	672.1	672.1	669.3	668.3	668.3	667.4	667.4	665.5	665.5	664.6
180°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2

(END OF REPORT)