

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: P395528

Luminaire Tested: **I3-FL-30L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395528
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-30L83050-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, FROSTED TOP COVER
3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2908.7 lumens
Efficiency: N/A
Efficacy: 134.0 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

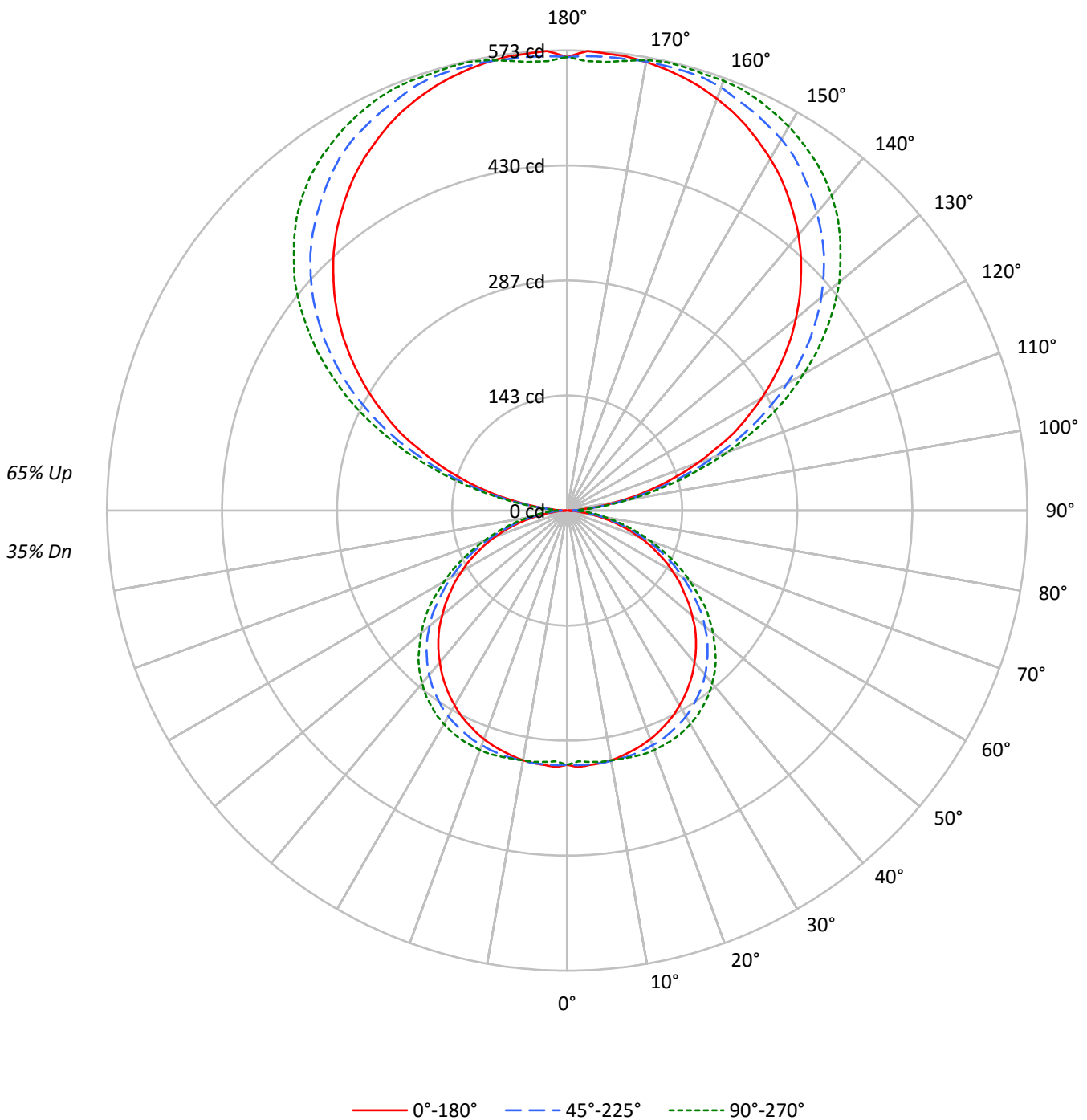
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395528

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (5000K)

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°	1740	1740	1740
5°	1749	1711	1684
10°	1749	1687	1664
15°	1745	1673	1658
20°	1745	1658	1655
25°	1741	1644	1649
30°	1734	1628	1634
35°	1726	1602	1610
40°	1709	1568	1574
45°	1692	1520	1526
50°	1653	1453	1452
55°	1605	1361	1365
60°	1551	1254	1233
65°	1474	1123	1095
70°	1370	958	925
75°	1191	761	735
80°	931	540	539
85°	505	309	354



TEST NUMBER: P395528

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	1.0
10°-20°	88.8	3.1
20°-30°	140.0	4.8
30°-40°	175.9	6.0
40°-50°	189.1	6.5
50°-60°	174.0	6.0
60°-70°	133.3	4.6
70°-80°	75.9	2.6
80°-90°	23.7	0.8
90°-100°	31.7	1.1
100°-110°	137.8	4.7
110°-120°	252.4	8.7
120°-130°	325.3	11.2
130°-140°	346.1	11.9
140°-150°	318.5	10.9
150°-160°	252.3	8.7
160°-170°	159.8	5.5
170°-180°	54.1	1.9
0°-30°	258.9	8.9
0°-40°	434.8	14.9
0°-60°	797.9	27.4
0°-90°	1030.8	35.4
90°-120°	421.9	14.5
90°-150°	1411.8	48.5
90°-180°	1878.0	64.6
0°-180°	2908.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	316	316	316	316	316	
5°	318	315	317	316	314	30
15°	310	309	315	317	317	88
25°	293	294	305	312	314	135
35°	265	268	283	293	296	166
45°	227	232	248	258	262	175
55°	178	185	196	206	210	159
65°	124	128	136	142	144	123
75°	65	67	71	75	78	69
85°	12	15	20	25	27	15
90°	1	2	7	10	12	2
95°	21	21	23	26	27	27
105°	117	122	132	140	142	124
115°	229	240	259	272	279	225
125°	328	342	368	386	394	293
135°	412	425	452	471	481	318
145°	479	489	512	527	535	300
155°	528	535	548	559	564	244
165°	558	558	566	570	571	158
175°	571	567	567	565	561	54
180°	565	565	565	565	565	



TEST NUMBER: P395528

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5
2.5°	319.7	318.9	318.1	316.5	316.5	315.7	315.7	315.7	315.7	316.5	317.3
5°	318.1	318.1	317.3	315.7	315.7	314.9	314.9	315.7	314.9	315.7	317.3
7.5°	317.3	317.3	316.5	314.9	314.9	314.9	314.9	314.9	314.9	315.7	317.3
10°	315.7	315.7	314.1	313.3	313.3	313.3	313.3	314.1	314.1	314.9	316.5
12.5°	313.3	312.5	311.7	310.9	310.9	310.9	311.7	312.5	312.5	314.1	315.7
15°	310.1	310.1	309.3	308.6	308.6	308.6	309.3	310.1	310.9	312.5	314.9
17.5°	307.0	307.0	306.2	306.2	306.2	306.2	307.0	307.8	309.3	310.9	313.3
20°	303.0	303.0	302.2	302.2	302.2	303.0	303.0	304.6	306.2	308.6	310.9
22.5°	298.2	298.2	298.2	297.4	298.2	299.0	299.8	301.4	303.0	305.4	308.6
25°	292.7	292.7	292.7	292.7	293.5	293.5	295.1	296.7	298.2	301.4	304.6
27.5°	287.1	287.1	287.1	286.3	287.9	288.7	289.5	291.9	293.5	297.4	300.6
30°	280.0	280.0	280.0	280.8	281.6	282.4	284.0	286.3	287.9	291.9	295.9
32.5°	272.9	272.9	272.9	272.9	275.2	276.0	276.8	279.2	282.4	286.3	290.3
35°	264.9	264.9	264.9	265.7	267.3	268.1	269.7	272.1	275.2	279.2	283.2
37.5°	256.2	257.0	257.0	257.8	259.4	261.0	262.5	264.9	268.1	272.1	276.0
40°	246.7	247.5	247.5	248.3	249.9	251.4	253.0	256.2	259.4	263.3	267.3
42.5°	237.2	238.0	238.0	239.5	241.1	242.7	244.3	247.5	250.7	254.6	257.8
45°	226.9	227.6	227.6	229.2	231.6	232.4	234.8	238.0	241.1	244.3	247.5
47.5°	215.7	216.5	216.5	218.1	220.5	222.1	223.7	226.9	229.2	233.2	236.4
50°	203.1	203.9	204.6	206.2	209.4	211.0	212.6	215.0	218.1	220.5	223.7
52.5°	191.2	191.2	192.0	193.5	195.9	197.5	198.3	200.7	204.6	207.8	211.0
55°	177.7	178.5	179.3	180.8	183.2	184.8	185.6	188.0	190.4	192.7	195.9
57.5°	165.8	165.8	166.6	168.2	170.5	171.3	172.1	173.7	176.9	179.3	181.6
60°	151.5	152.3	153.1	154.7	156.3	157.8	157.8	160.2	162.6	165.0	166.6
62.5°	138.8	138.8	139.6	141.2	142.0	143.6	143.6	145.9	147.5	149.9	151.5
65°	123.7	124.5	125.3	126.1	127.7	127.7	128.5	130.1	131.7	133.3	135.6
67.5°	110.3	110.3	111.0	111.8	112.6	112.6	113.4	115.0	116.6	118.2	119.8
70°	95.2	96.0	96.0	96.0	96.8	97.6	98.4	99.1	100.7	101.5	103.1
72.5°	80.1	80.1	80.9	80.9	81.7	82.5	83.3	84.1	84.9	86.5	87.3
75°	65.0	65.0	65.8	65.8	66.6	66.6	66.6	68.2	69.0	70.6	71.4
77.5°	50.0	50.8	50.8	50.8	51.6	52.4	52.4	53.1	54.7	55.5	56.3
80°	36.5	36.5	36.5	36.5	37.3	38.1	38.9	38.9	40.5	42.0	42.8
82.5°	23.0	23.0	23.8	24.6	24.6	25.4	26.2	27.0	28.6	29.3	30.1
85°	11.9	11.9	12.7	13.5	14.3	15.1	15.1	15.9	17.5	19.0	19.8
87.5°	4.0	4.8	4.8	5.6	6.3	7.1	7.9	8.7	10.3	11.9	12.7
90°	0.8	0.8	0.8	1.6	2.4	2.4	3.2	4.0	4.8	5.6	7.1
92.5°	7.1	7.1	6.3	7.1	7.1	7.1	7.1	7.9	8.7	8.7	10.3
95°	21.4	20.6	20.6	20.6	20.6	20.6	20.6	21.4	22.2	22.2	23.0
97.5°	41.2	41.2	40.5	40.5	41.2	41.2	41.2	42.0	43.6	42.8	44.4
100°	64.2	64.2	63.5	64.2	65.0	65.8	67.4	67.4	69.0	69.0	71.4
102.5°	90.4	90.4	89.6	91.2	92.0	93.6	93.6	95.2	97.6	97.6	100.7
105°	116.6	117.4	117.4	119.0	120.6	122.2	122.2	124.5	127.7	127.7	131.7
107.5°	145.2	145.9	145.9	147.5	149.1	150.7	151.5	154.7	157.8	158.6	163.4
110°	172.9	173.7	174.5	176.1	177.7	180.1	181.6	184.8	188.8	190.4	194.3



TEST NUMBER: P395528

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	199.1	202.3	203.1	205.4	207.8	210.2	211.8	215.7	220.5	222.9	227.6
115°	229.2	230.8	231.6	234.0	237.2	239.5	241.1	245.1	249.9	253.0	258.6
117.5°	253.8	257.8	258.6	261.0	264.1	266.5	268.1	272.9	278.4	282.4	287.9
120°	280.0	283.2	286.3	287.9	290.3	293.5	295.1	299.8	306.2	310.1	316.5
122.5°	303.8	307.0	310.1	312.5	315.7	317.3	319.7	325.2	331.6	336.3	342.7
125°	327.6	331.6	333.9	336.3	340.3	341.9	344.2	349.8	356.1	361.7	368.0
127.5°	350.6	353.0	356.9	358.5	362.5	364.1	366.5	372.8	379.1	384.7	391.0
130°	372.0	375.2	378.4	379.1	383.9	386.3	388.7	394.2	401.4	406.9	413.3
132.5°	392.6	394.2	398.2	400.6	404.5	406.9	409.3	414.0	421.2	426.7	433.1
135°	411.7	413.3	418.0	420.4	422.8	425.2	428.3	433.1	440.2	445.8	452.1
137.5°	430.7	432.3	437.1	439.4	441.0	443.4	445.8	450.5	457.7	463.2	468.8
140°	448.2	449.7	452.9	456.1	457.7	459.3	461.6	466.4	472.7	478.3	483.9
142.5°	464.0	465.6	468.8	472.0	474.3	474.3	476.7	480.7	487.8	493.4	498.1
145°	479.1	479.9	483.1	486.2	489.4	489.4	490.2	494.2	500.5	506.9	511.6
147.5°	493.4	494.2	496.5	499.7	502.1	502.9	504.5	506.1	512.4	518.8	524.3
150°	506.1	506.9	508.4	511.6	513.2	514.8	516.4	517.2	521.9	527.5	533.8
152.5°	517.2	518.0	519.5	521.9	523.5	525.1	526.7	529.1	531.4	537.0	541.0
155°	528.3	529.1	529.9	532.2	533.8	534.6	535.4	538.6	541.0	544.1	548.1
157.5°	537.8	537.8	538.6	540.2	541.8	541.8	542.5	545.7	548.1	551.3	553.7
160°	545.7	545.7	546.5	548.1	548.1	548.9	549.7	552.1	553.7	557.6	560.8
162.5°	552.9	552.1	552.9	553.7	553.7	553.7	554.4	556.0	558.4	561.6	564.8
165°	558.4	558.4	558.4	559.2	559.2	558.4	558.4	560.0	561.6	564.0	566.3
167.5°	563.2	563.2	562.4	563.2	562.4	562.4	561.6	562.4	563.2	565.5	567.1
170°	567.1	566.3	566.3	566.3	565.5	564.8	564.8	564.8	564.8	566.3	567.9
172.5°	570.3	569.5	568.7	568.7	567.1	566.3	566.3	565.5	565.5	566.3	567.1
175°	571.1	570.3	569.5	569.5	567.9	567.1	566.3	566.3	565.5	566.3	567.1
177.5°	572.7	571.9	570.3	570.3	568.7	567.1	567.1	566.3	565.5	566.3	566.3
180°	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8



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CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5	316.5
2.5°	318.1	318.1	317.3	316.5	316.5	315.7	314.9	314.1	313.3	312.5
5°	318.1	317.3	316.5	316.5	315.7	315.7	315.7	314.9	314.1	314.1
7.5°	318.1	318.1	317.3	316.5	316.5	316.5	316.5	316.5	315.7	315.7
10°	318.1	317.3	317.3	317.3	316.5	317.3	317.3	316.5	316.5	315.7
12.5°	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3	316.5
15°	315.7	316.5	316.5	317.3	317.3	317.3	318.1	318.1	317.3	317.3
17.5°	314.9	315.7	316.5	317.3	317.3	317.3	318.1	318.1	318.1	318.1
20°	313.3	314.1	314.9	315.7	315.7	316.5	316.5	317.3	317.3	317.3
22.5°	310.1	310.9	312.5	313.3	314.1	314.9	315.7	315.7	315.7	315.7
25°	307.0	308.6	309.3	310.9	311.7	312.5	313.3	313.3	313.3	314.1
27.5°	303.0	304.6	307.0	307.8	308.6	309.3	310.1	310.9	310.9	310.9
30°	298.2	300.6	302.2	303.8	304.6	305.4	306.2	306.2	307.0	307.0
32.5°	292.7	295.1	296.7	298.2	299.0	299.8	301.4	301.4	302.2	302.2
35°	285.6	287.9	290.3	291.9	292.7	293.5	295.1	295.9	295.9	295.9
37.5°	278.4	280.8	283.2	285.6	286.3	287.1	288.7	288.7	289.5	289.5
40°	269.7	272.1	274.4	276.8	276.8	278.4	279.2	280.0	280.8	280.8
42.5°	261.0	263.3	264.9	267.3	268.1	268.9	269.7	271.3	271.3	272.1
45°	250.7	253.0	254.6	257.0	257.8	258.6	260.2	261.0	261.8	261.8
47.5°	239.5	241.1	242.7	245.1	246.7	247.5	248.3	249.1	249.9	249.1
50°	226.9	228.4	230.8	233.2	234.0	234.8	236.4	236.4	237.2	237.2
52.5°	213.4	215.7	217.3	219.7	220.5	221.3	222.9	222.9	223.7	223.7
55°	198.3	199.9	201.5	205.4	206.2	207.0	208.6	208.6	209.4	210.2
57.5°	184.0	184.8	187.2	188.8	190.4	190.4	191.2	192.0	192.7	192.7
60°	169.0	169.7	171.3	173.7	173.7	174.5	176.1	176.1	176.9	176.9
62.5°	153.1	154.7	156.3	158.6	157.8	158.6	160.2	160.2	161.0	161.0
65°	137.2	138.0	139.6	141.2	142.0	142.0	142.8	143.6	144.4	144.4
67.5°	120.6	122.2	122.9	125.3	124.5	125.3	126.1	126.1	126.9	126.9
70°	104.7	105.5	107.1	107.9	107.9	108.7	109.5	109.5	109.5	110.3
72.5°	88.8	89.6	90.4	91.2	91.2	92.0	92.8	92.8	93.6	93.6
75°	72.2	73.8	74.6	76.1	75.4	76.1	77.7	77.7	77.7	77.7
77.5°	57.9	58.7	60.3	61.1	61.1	61.1	62.7	61.9	62.7	62.7
80°	43.6	44.4	46.0	46.8	46.8	47.6	48.4	48.4	48.4	49.2
82.5°	30.9	32.5	34.1	34.9	34.9	35.7	36.5	36.5	37.3	37.3
85°	21.4	23.0	24.6	24.6	25.4	26.2	27.0	27.0	27.0	27.0
87.5°	14.3	15.1	15.9	16.7	17.5	17.5	18.2	18.2	19.0	19.0
90°	7.9	8.7	9.5	10.3	10.3	11.1	11.1	11.9	11.9	11.9
92.5°	11.1	11.1	11.9	12.7	12.7	12.7	12.7	13.5	13.5	13.5
95°	23.8	24.6	24.6	26.2	26.2	26.2	27.0	27.0	27.0	27.0
97.5°	46.0	46.0	46.0	47.6	47.6	47.6	48.4	48.4	48.4	49.2
100°	72.2	73.0	73.0	75.4	74.6	76.1	76.1	76.1	76.1	76.9
102.5°	101.5	103.1	103.9	106.3	106.3	106.3	107.9	107.1	107.9	107.9
105°	133.3	134.8	135.6	138.0	139.6	139.6	141.2	140.4	141.2	142.0
107.5°	165.0	167.4	169.0	171.3	172.9	173.7	173.7	174.5	175.3	176.1
110°	197.5	199.9	203.9	206.2	207.0	208.6	209.4	210.2	211.0	212.6



TEST NUMBER: P395528

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	231.6	234.0	237.2	240.3	239.5	241.9	243.5	244.3	245.1	244.3
115°	262.5	265.7	268.9	272.1	272.1	273.7	276.8	277.6	277.6	279.2
117.5°	291.9	295.9	299.0	302.2	303.0	304.6	307.0	309.3	309.3	310.9
120°	320.5	325.2	328.4	331.6	333.1	333.9	336.3	339.5	339.5	339.5
122.5°	347.4	351.4	355.4	358.5	360.1	361.7	363.3	367.3	367.3	368.8
125°	372.8	377.6	381.5	384.7	386.3	387.9	391.0	393.4	394.2	394.2
127.5°	396.6	401.4	405.3	409.3	410.1	411.7	414.8	418.0	418.8	419.6
130°	418.8	423.6	427.5	431.5	433.1	433.9	437.8	440.2	441.8	442.6
132.5°	438.6	443.4	447.4	451.3	452.9	454.5	456.9	460.8	461.6	461.6
135°	456.9	461.6	465.6	470.4	471.2	472.7	475.9	478.3	479.9	480.7
137.5°	473.5	478.3	483.1	487.0	488.6	489.4	492.6	495.7	497.3	498.1
140°	488.6	493.4	498.1	501.3	502.1	504.5	506.9	510.0	511.6	512.4
142.5°	502.9	506.9	510.8	514.8	515.6	517.2	519.5	522.7	524.3	525.1
145°	515.6	519.5	522.7	525.9	526.7	528.3	530.6	533.0	534.6	535.4
147.5°	527.5	530.6	533.8	536.2	537.0	538.6	540.2	541.8	543.3	544.1
150°	537.8	539.4	542.5	544.1	544.9	546.5	548.1	549.7	551.3	552.1
152.5°	545.7	548.1	549.7	552.1	552.9	553.7	555.2	556.8	558.4	558.4
155°	552.1	554.4	556.0	558.4	559.2	560.0	561.6	562.4	564.0	564.0
157.5°	556.8	559.2	560.8	562.4	563.2	564.0	564.8	566.3	567.9	567.9
160°	562.4	563.2	564.0	565.5	565.5	566.3	567.1	567.9	569.5	569.5
162.5°	567.1	567.9	566.3	567.1	566.3	567.1	567.9	568.7	569.5	569.5
165°	568.7	570.3	569.5	570.3	570.3	570.3	570.3	571.1	571.1	571.1
167.5°	568.7	570.3	569.5	569.5	570.3	570.3	571.1	571.9	571.9	571.9
170°	568.7	569.5	568.7	567.9	568.7	568.7	568.7	569.5	569.5	569.5
172.5°	567.9	568.7	567.1	566.3	566.3	566.3	565.5	565.5	564.8	564.8
175°	567.1	567.1	565.5	564.8	564.8	564.8	563.2	562.4	561.6	560.8
177.5°	566.3	566.3	564.0	563.2	563.2	562.4	562.4	560.8	560.8	560.0
180°	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8

(END OF REPORT)