

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: P395525

Luminaire Tested: **I3-FL-30L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395525
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 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
3000 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: 2738.9 lumens
Efficiency: N/A
Efficacy: 132.3 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

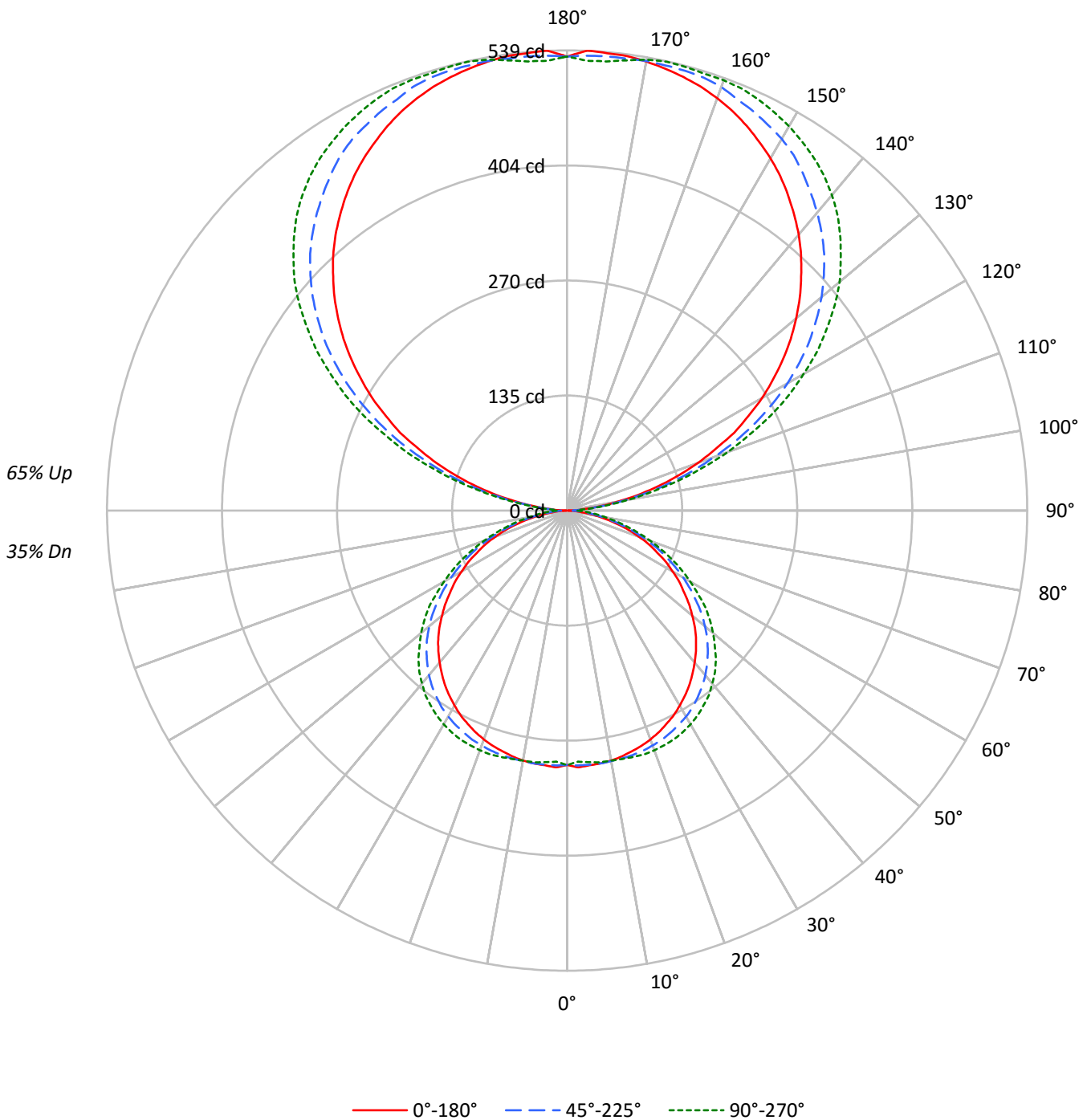
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1638	1638	1638
5°	1646	1611	1586
10°	1647	1589	1567
15°	1643	1575	1561
20°	1643	1562	1559
25°	1639	1548	1553
30°	1634	1533	1538
35°	1626	1508	1516
40°	1609	1477	1482
45°	1593	1431	1437
50°	1556	1368	1367
55°	1511	1282	1285
60°	1461	1180	1161
65°	1388	1058	1031
70°	1289	902	871
75°	1122	716	693
80°	877	509	507
85°	475	292	333



TEST NUMBER: P395525

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	1.0
10°-20°	83.6	3.1
20°-30°	131.8	4.8
30°-40°	165.6	6.0
40°-50°	178.1	6.5
50°-60°	163.8	6.0
60°-70°	125.5	4.6
70°-80°	71.5	2.6
80°-90°	22.3	0.8
90°-100°	29.8	1.1
100°-110°	129.8	4.7
110°-120°	237.6	8.7
120°-130°	306.3	11.2
130°-140°	325.9	11.9
140°-150°	299.9	10.9
150°-160°	237.6	8.7
160°-170°	150.4	5.5
170°-180°	50.9	1.9
0°-30°	243.8	8.9
0°-40°	409.4	14.9
0°-60°	751.3	27.4
0°-90°	970.6	35.4
90°-120°	397.3	14.5
90°-150°	1329.4	48.5
90°-180°	1768.0	64.6
0°-180°	2738.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	300	296	299	297	296	29
15°	292	290	296	299	299	83
25°	276	276	287	294	296	127
35°	250	252	267	276	279	156
45°	214	219	233	243	246	164
55°	167	174	184	194	198	150
65°	116	120	128	134	136	116
75°	61	63	67	71	73	65
85°	11	14	19	24	25	14
90°	1	2	7	10	11	2
95°	20	19	22	25	25	25
105°	110	115	124	132	134	117
115°	216	226	244	256	263	212
125°	308	322	347	364	371	276
135°	388	400	426	444	453	299
145°	451	461	482	496	504	282
155°	497	503	516	527	531	229
165°	526	526	533	537	538	149
175°	538	534	534	532	528	51
180°	532	532	532	532	532	



TEST NUMBER: P395525

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0
2.5°	301.0	300.2	299.5	298.0	298.0	297.3	297.3	297.3	297.3	298.0	298.8
5°	299.5	299.5	298.8	297.3	297.3	296.5	296.5	297.3	296.5	297.3	298.8
7.5°	298.8	298.8	298.0	296.5	296.5	296.5	296.5	296.5	296.5	297.3	298.8
10°	297.3	297.3	295.8	295.0	295.0	295.0	295.0	295.8	295.8	296.5	298.0
12.5°	295.0	294.3	293.5	292.8	292.8	292.8	293.5	294.3	294.3	295.8	297.3
15°	292.0	292.0	291.3	290.5	290.5	290.5	291.3	292.0	292.8	294.3	296.5
17.5°	289.0	289.0	288.3	288.3	288.3	288.3	289.0	289.8	291.3	292.8	295.0
20°	285.3	285.3	284.6	284.6	284.6	285.3	285.3	286.8	288.3	290.5	292.8
22.5°	280.8	280.8	280.8	280.1	280.8	281.6	282.3	283.8	285.3	287.6	290.5
25°	275.6	275.6	275.6	275.6	276.3	276.3	277.8	279.3	280.8	283.8	286.8
27.5°	270.4	270.4	270.4	269.6	271.1	271.9	272.6	274.9	276.3	280.1	283.1
30°	263.7	263.7	263.7	264.4	265.1	265.9	267.4	269.6	271.1	274.9	278.6
32.5°	256.9	256.9	256.9	256.9	259.2	259.9	260.7	262.9	265.9	269.6	273.4
35°	249.5	249.5	249.5	250.2	251.7	252.4	253.9	256.2	259.2	262.9	266.6
37.5°	241.2	242.0	242.0	242.7	244.2	245.7	247.2	249.5	252.4	256.2	259.9
40°	232.3	233.0	233.0	233.8	235.3	236.8	238.3	241.2	244.2	248.0	251.7
42.5°	223.3	224.1	224.1	225.6	227.1	228.5	230.0	233.0	236.0	239.8	242.7
45°	213.6	214.4	214.4	215.9	218.1	218.8	221.1	224.1	227.1	230.0	233.0
47.5°	203.2	203.9	203.9	205.4	207.6	209.1	210.6	213.6	215.9	219.6	222.6
50°	191.2	192.0	192.7	194.2	197.2	198.7	200.2	202.4	205.4	207.6	210.6
52.5°	180.0	180.0	180.7	182.2	184.5	186.0	186.7	189.0	192.7	195.7	198.7
55°	167.3	168.1	168.8	170.3	172.5	174.0	174.8	177.0	179.3	181.5	184.5
57.5°	156.1	156.1	156.8	158.3	160.6	161.3	162.1	163.6	166.6	168.8	171.0
60°	142.7	143.4	144.1	145.6	147.1	148.6	148.6	150.9	153.1	155.4	156.8
62.5°	130.7	130.7	131.5	132.9	133.7	135.2	135.2	137.4	138.9	141.2	142.7
65°	116.5	117.3	118.0	118.8	120.2	120.2	121.0	122.5	124.0	125.5	127.7
67.5°	103.8	103.8	104.6	105.3	106.1	106.1	106.8	108.3	109.8	111.3	112.8
70°	89.6	90.4	90.4	90.4	91.1	91.9	92.6	93.4	94.9	95.6	97.1
72.5°	75.4	75.4	76.2	76.2	76.9	77.7	78.4	79.2	79.9	81.4	82.2
75°	61.2	61.2	62.0	62.0	62.7	62.7	62.7	64.2	65.0	66.5	67.2
77.5°	47.1	47.8	47.8	47.8	48.5	49.3	49.3	50.0	51.5	52.3	53.0
80°	34.4	34.4	34.4	34.4	35.1	35.9	36.6	36.6	38.1	39.6	40.3
82.5°	21.7	21.7	22.4	23.2	23.2	23.9	24.6	25.4	26.9	27.6	28.4
85°	11.2	11.2	12.0	12.7	13.4	14.2	14.2	14.9	16.4	17.9	18.7
87.5°	3.7	4.5	4.5	5.2	6.0	6.7	7.5	8.2	9.7	11.2	12.0
90°	0.7	0.7	0.7	1.5	2.2	2.2	3.0	3.7	4.5	5.2	6.7
92.5°	6.7	6.7	6.0	6.7	6.7	6.7	6.7	7.5	8.2	8.2	9.7
95°	20.2	19.4	19.4	19.4	19.4	19.4	19.4	20.2	20.9	20.9	21.7
97.5°	38.8	38.8	38.1	38.1	38.8	38.8	38.8	39.6	41.1	40.3	41.8
100°	60.5	60.5	59.8	60.5	61.2	62.0	63.5	63.5	65.0	65.0	67.2
102.5°	85.1	85.1	84.4	85.9	86.6	88.1	88.1	89.6	91.9	91.9	94.9
105°	109.8	110.5	110.5	112.0	113.5	115.0	115.0	117.3	120.2	120.2	124.0
107.5°	136.7	137.4	137.4	138.9	140.4	141.9	142.7	145.6	148.6	149.4	153.9
110°	162.8	163.6	164.3	165.8	167.3	169.5	171.0	174.0	177.8	179.3	183.0



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CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	187.5	190.5	191.2	193.4	195.7	197.9	199.4	203.2	207.6	209.9	214.4
115°	215.9	217.3	218.1	220.3	223.3	225.6	227.1	230.8	235.3	238.3	243.5
117.5°	239.0	242.7	243.5	245.7	248.7	251.0	252.4	256.9	262.2	265.9	271.1
120°	263.7	266.6	269.6	271.1	273.4	276.3	277.8	282.3	288.3	292.0	298.0
122.5°	286.1	289.0	292.0	294.3	297.3	298.8	301.0	306.2	312.2	316.7	322.7
125°	308.5	312.2	314.4	316.7	320.4	321.9	324.2	329.4	335.4	340.6	346.6
127.5°	330.1	332.4	336.1	337.6	341.3	342.8	345.1	351.0	357.0	362.2	368.2
130°	350.3	353.3	356.3	357.0	361.5	363.7	366.0	371.2	377.9	383.2	389.1
132.5°	369.7	371.2	374.9	377.2	380.9	383.2	385.4	389.9	396.6	401.8	407.8
135°	387.6	389.1	393.6	395.9	398.1	400.3	403.3	407.8	414.5	419.8	425.7
137.5°	405.6	407.1	411.5	413.8	415.3	417.5	419.8	424.2	431.0	436.2	441.4
140°	422.0	423.5	426.5	429.5	431.0	432.4	434.7	439.2	445.1	450.4	455.6
142.5°	436.9	438.4	441.4	444.4	446.6	446.6	448.9	452.6	459.3	464.6	469.0
145°	451.1	451.9	454.9	457.8	460.8	460.8	461.6	465.3	471.3	477.3	481.7
147.5°	464.6	465.3	467.6	470.5	472.8	473.5	475.0	476.5	482.5	488.5	493.7
150°	476.5	477.3	478.8	481.7	483.2	484.7	486.2	487.0	491.5	496.7	502.7
152.5°	487.0	487.7	489.2	491.5	492.9	494.4	495.9	498.2	500.4	505.6	509.4
155°	497.4	498.2	498.9	501.2	502.7	503.4	504.2	507.1	509.4	512.4	516.1
157.5°	506.4	506.4	507.1	508.6	510.1	510.1	510.9	513.9	516.1	519.1	521.3
160°	513.9	513.9	514.6	516.1	516.1	516.8	517.6	519.8	521.3	525.1	528.1
162.5°	520.6	519.8	520.6	521.3	521.3	521.3	522.1	523.6	525.8	528.8	531.8
165°	525.8	525.8	525.8	526.6	526.6	525.8	525.8	527.3	528.8	531.0	533.3
167.5°	530.3	530.3	529.5	530.3	529.5	529.5	528.8	529.5	530.3	532.5	534.0
170°	534.0	533.3	533.3	533.3	532.5	531.8	531.8	531.8	531.8	533.3	534.8
172.5°	537.0	536.3	535.5	535.5	534.0	533.3	533.3	532.5	532.5	533.3	534.0
175°	537.8	537.0	536.3	536.3	534.8	534.0	533.3	533.3	532.5	533.3	534.0
177.5°	539.3	538.5	537.0	537.0	535.5	534.0	534.0	533.3	532.5	533.3	533.3
180°	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8



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CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0
2.5°	299.5	299.5	298.8	298.0	298.0	297.3	296.5	295.8	295.0	294.3
5°	299.5	298.8	298.0	298.0	297.3	297.3	297.3	296.5	295.8	295.8
7.5°	299.5	299.5	298.8	298.0	298.0	298.0	298.0	298.0	297.3	297.3
10°	299.5	298.8	298.8	298.8	298.0	298.8	298.8	298.0	298.0	297.3
12.5°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.0
15°	297.3	298.0	298.0	298.8	298.8	298.8	299.5	299.5	298.8	298.8
17.5°	296.5	297.3	298.0	298.8	298.8	298.8	299.5	299.5	299.5	299.5
20°	295.0	295.8	296.5	297.3	297.3	298.0	298.0	298.8	298.8	298.8
22.5°	292.0	292.8	294.3	295.0	295.8	296.5	297.3	297.3	297.3	297.3
25°	289.0	290.5	291.3	292.8	293.5	294.3	295.0	295.0	295.0	295.8
27.5°	285.3	286.8	289.0	289.8	290.5	291.3	292.0	292.8	292.8	292.8
30°	280.8	283.1	284.6	286.1	286.8	287.6	288.3	288.3	289.0	289.0
32.5°	275.6	277.8	279.3	280.8	281.6	282.3	283.8	283.8	284.6	284.6
35°	268.9	271.1	273.4	274.9	275.6	276.3	277.8	278.6	278.6	278.6
37.5°	262.2	264.4	266.6	268.9	269.6	270.4	271.9	271.9	272.6	272.6
40°	253.9	256.2	258.4	260.7	260.7	262.2	262.9	263.7	264.4	264.4
42.5°	245.7	248.0	249.5	251.7	252.4	253.2	253.9	255.4	255.4	256.2
45°	236.0	238.3	239.8	242.0	242.7	243.5	245.0	245.7	246.5	246.5
47.5°	225.6	227.1	228.5	230.8	232.3	233.0	233.8	234.5	235.3	234.5
50°	213.6	215.1	217.3	219.6	220.3	221.1	222.6	222.6	223.3	223.3
52.5°	200.9	203.2	204.6	206.9	207.6	208.4	209.9	209.9	210.6	210.6
55°	186.7	188.2	189.7	193.4	194.2	194.9	196.4	196.4	197.2	197.9
57.5°	173.3	174.0	176.3	177.8	179.3	179.3	180.0	180.7	181.5	181.5
60°	159.1	159.8	161.3	163.6	163.6	164.3	165.8	165.8	166.6	166.6
62.5°	144.1	145.6	147.1	149.4	148.6	149.4	150.9	150.9	151.6	151.6
65°	129.2	130.0	131.5	132.9	133.7	133.7	134.4	135.2	135.9	135.9
67.5°	113.5	115.0	115.8	118.0	117.3	118.0	118.8	118.8	119.5	119.5
70°	98.6	99.3	100.8	101.6	101.6	102.3	103.1	103.1	103.1	103.8
72.5°	83.7	84.4	85.1	85.9	85.9	86.6	87.4	87.4	88.1	88.1
75°	68.0	69.5	70.2	71.7	71.0	71.7	73.2	73.2	73.2	73.2
77.5°	54.5	55.3	56.8	57.5	57.5	57.5	59.0	58.3	59.0	59.0
80°	41.1	41.8	43.3	44.1	44.1	44.8	45.6	45.6	45.6	46.3
82.5°	29.1	30.6	32.1	32.9	32.9	33.6	34.4	34.4	35.1	35.1
85°	20.2	21.7	23.2	23.2	23.9	24.6	25.4	25.4	25.4	25.4
87.5°	13.4	14.2	14.9	15.7	16.4	16.4	17.2	17.2	17.9	17.9
90°	7.5	8.2	9.0	9.7	9.7	10.5	10.5	11.2	11.2	11.2
92.5°	10.5	10.5	11.2	12.0	12.0	12.0	12.0	12.7	12.7	12.7
95°	22.4	23.2	23.2	24.6	24.6	24.6	25.4	25.4	25.4	25.4
97.5°	43.3	43.3	43.3	44.8	44.8	44.8	45.6	45.6	45.6	46.3
100°	68.0	68.7	68.7	71.0	70.2	71.7	71.7	71.7	71.7	72.4
102.5°	95.6	97.1	97.8	100.1	100.1	100.1	101.6	100.8	101.6	101.6
105°	125.5	127.0	127.7	130.0	131.5	131.5	132.9	132.2	132.9	133.7
107.5°	155.4	157.6	159.1	161.3	162.8	163.6	163.6	164.3	165.1	165.8
110°	186.0	188.2	192.0	194.2	194.9	196.4	197.2	197.9	198.7	200.2



TEST NUMBER: P395525

CATALOG NUMBER: I3-FL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	218.1	220.3	223.3	226.3	225.6	227.8	229.3	230.0	230.8	230.0
115°	247.2	250.2	253.2	256.2	256.2	257.7	260.7	261.4	261.4	262.9
117.5°	274.9	278.6	281.6	284.6	285.3	286.8	289.0	291.3	291.3	292.8
120°	301.7	306.2	309.2	312.2	313.7	314.4	316.7	319.7	319.7	319.7
122.5°	327.1	330.9	334.6	337.6	339.1	340.6	342.1	345.8	345.8	347.3
125°	351.0	355.5	359.3	362.2	363.7	365.2	368.2	370.5	371.2	371.2
127.5°	373.4	377.9	381.7	385.4	386.1	387.6	390.6	393.6	394.4	395.1
130°	394.4	398.8	402.6	406.3	407.8	408.5	412.3	414.5	416.0	416.8
132.5°	413.0	417.5	421.2	425.0	426.5	428.0	430.2	433.9	434.7	434.7
135°	430.2	434.7	438.4	442.9	443.7	445.1	448.1	450.4	451.9	452.6
137.5°	445.9	450.4	454.9	458.6	460.1	460.8	463.8	466.8	468.3	469.0
140°	460.1	464.6	469.0	472.0	472.8	475.0	477.3	480.3	481.7	482.5
142.5°	473.5	477.3	481.0	484.7	485.5	487.0	489.2	492.2	493.7	494.4
145°	485.5	489.2	492.2	495.2	495.9	497.4	499.7	501.9	503.4	504.2
147.5°	496.7	499.7	502.7	504.9	505.6	507.1	508.6	510.1	511.6	512.4
150°	506.4	507.9	510.9	512.4	513.1	514.6	516.1	517.6	519.1	519.8
152.5°	513.9	516.1	517.6	519.8	520.6	521.3	522.8	524.3	525.8	525.8
155°	519.8	522.1	523.6	525.8	526.6	527.3	528.8	529.5	531.0	531.0
157.5°	524.3	526.6	528.1	529.5	530.3	531.0	531.8	533.3	534.8	534.8
160°	529.5	530.3	531.0	532.5	532.5	533.3	534.0	534.8	536.3	536.3
162.5°	534.0	534.8	533.3	534.0	533.3	534.0	534.8	535.5	536.3	536.3
165°	535.5	537.0	536.3	537.0	537.0	537.0	537.0	537.8	537.8	537.8
167.5°	535.5	537.0	536.3	536.3	537.0	537.0	537.8	538.5	538.5	538.5
170°	535.5	536.3	535.5	534.8	535.5	535.5	535.5	536.3	536.3	536.3
172.5°	534.8	535.5	534.0	533.3	533.3	533.3	532.5	532.5	531.8	531.8
175°	534.0	534.0	532.5	531.8	531.8	531.8	530.3	529.5	528.8	528.1
177.5°	533.3	533.3	531.0	530.3	530.3	529.5	529.5	528.1	528.1	527.3
180°	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8	531.8

(END OF REPORT)