

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: P395368

Luminaire Tested: **I3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, CLEAR TOP COVER
3000 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: 2626.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

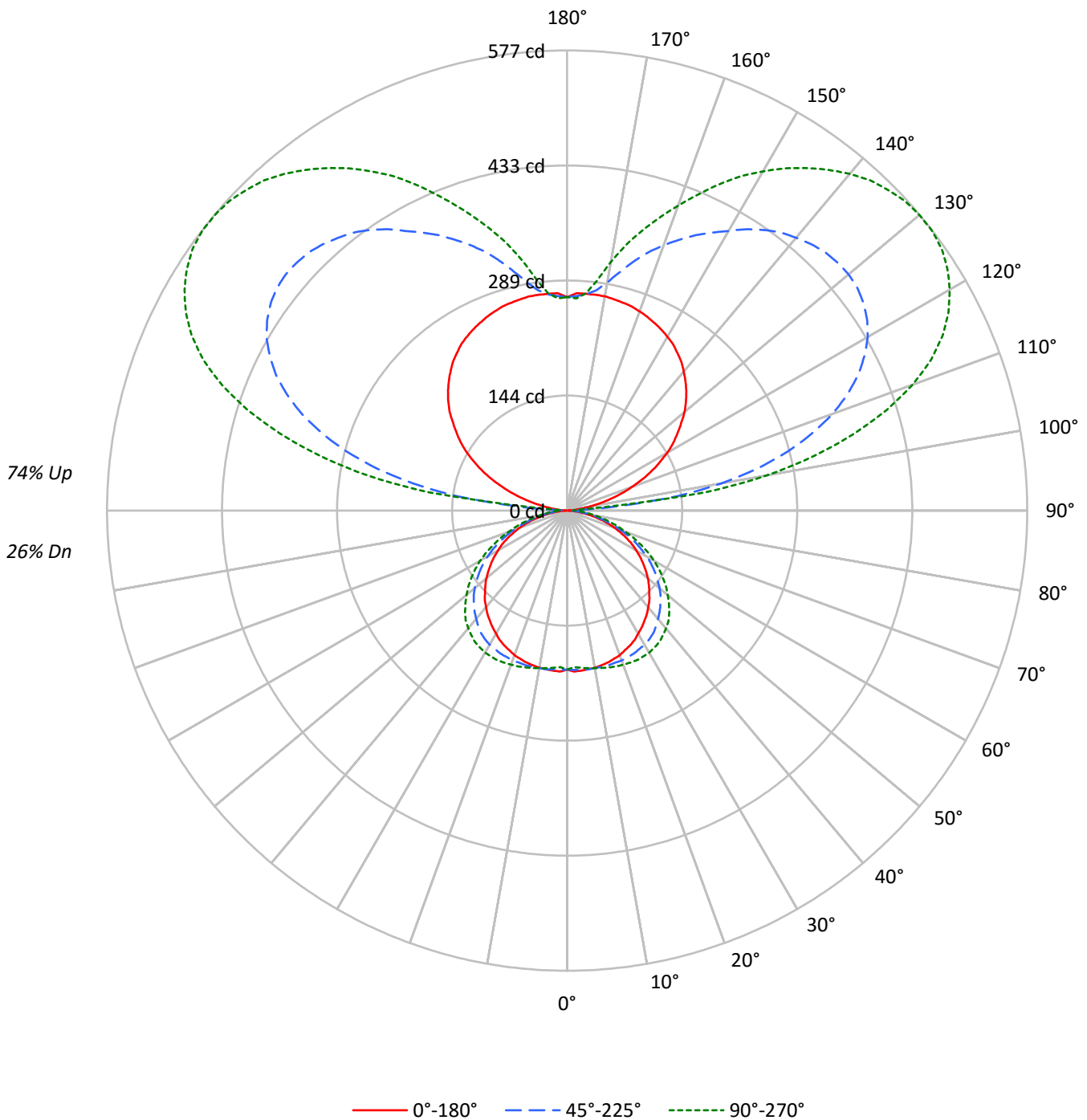
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)

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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1095	1095	1095
5°	1107	1078	1061
10°	1108	1070	1058
15°	1109	1066	1063
20°	1111	1067	1072
25°	1110	1068	1087
30°	1103	1069	1094
35°	1101	1064	1096
40°	1097	1041	1082
45°	1086	1016	1055
50°	1075	982	1007
55°	1053	933	950
60°	1027	867	877
65°	986	779	777
70°	915	663	658
75°	790	528	528
80°	612	375	387
85°	361	231	260



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CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.7
10°-20°	56.6	2.2
20°-30°	90.8	3.5
30°-40°	116.2	4.4
40°-50°	126.6	4.8
50°-60°	118.7	4.5
60°-70°	92.1	3.5
70°-80°	52.8	2.0
80°-90°	16.9	0.6
90°-100°	67.7	2.6
100°-110°	263.3	10.0
110°-120°	358.4	13.7
120°-130°	372.1	14.2
130°-140°	330.0	12.6
140°-150°	256.1	9.8
150°-160°	170.9	6.5
160°-170°	91.1	3.5
170°-180°	26.7	1.0
0°-30°	166.5	6.3
0°-40°	282.7	10.8
0°-60°	528.0	20.1
0°-90°	689.7	26.3
90°-120°	689.4	26.3
90°-150°	1647.6	62.7
90°-180°	1936.0	73.7
0°-180°	2626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	199	199	199	199	199	
5°	201	199	200	199	198	19
15°	197	196	201	204	204	56
25°	187	188	198	205	207	86
35°	169	172	188	198	201	106
45°	146	152	165	176	181	113
55°	117	123	134	143	146	104
65°	83	86	94	100	102	81
75°	43	45	50	54	56	46
85°	8	10	15	19	20	10
90°	1	2	5	7	8	1
95°	8	48	66	13	13	11
105°	56	169	286	340	372	60
115°	117	261	403	473	519	115
125°	169	307	454	533	573	151
135°	211	324	458	537	569	163
145°	241	324	430	499	524	151
155°	259	306	381	432	452	120
165°	270	281	324	354	363	76
175°	273	271	272	274	274	26
180°	268	268	268	268	268	



TEST NUMBER: P395368

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3
2.5°	202.1	201.4	201.4	200.0	200.0	199.3	199.3	199.3	199.3	199.3	200.0
5°	201.4	201.4	200.7	200.0	200.0	199.3	199.3	199.3	199.3	199.3	200.0
7.5°	200.7	200.7	200.0	199.3	199.3	199.3	199.3	199.3	199.3	199.3	200.7
10°	200.0	200.0	199.3	198.6	198.6	198.6	198.6	199.3	199.3	199.3	200.7
12.5°	198.6	197.9	197.9	197.2	197.2	197.2	197.9	197.9	198.6	199.3	200.7
15°	197.2	197.2	196.4	195.7	196.4	196.4	196.4	197.2	197.9	198.6	200.7
17.5°	195.0	195.0	194.3	194.3	194.3	195.0	195.0	195.7	197.2	198.6	200.0
20°	192.9	192.2	192.2	192.2	192.9	192.9	193.6	195.0	195.7	197.9	200.0
22.5°	189.4	190.1	189.4	189.4	190.1	190.8	191.5	192.9	194.3	196.4	198.6
25°	186.6	186.6	186.6	186.6	188.0	188.0	189.4	190.8	192.9	195.0	197.9
27.5°	183.0	183.0	183.0	183.7	184.4	185.1	185.8	188.0	190.1	192.9	195.7
30°	178.1	178.1	178.1	178.1	180.2	180.9	182.3	185.1	187.3	190.8	194.3
32.5°	173.8	173.8	173.8	174.5	176.0	176.7	178.1	181.6	184.4	188.0	191.5
35°	168.9	168.9	169.6	169.6	171.7	172.4	173.8	176.7	179.5	183.7	188.0
37.5°	163.9	163.9	164.6	165.4	166.8	168.2	169.6	172.4	175.2	178.8	183.0
40°	158.3	158.3	159.0	159.7	161.8	163.2	164.6	167.5	170.3	173.8	177.4
42.5°	152.6	152.6	153.3	154.0	156.2	157.6	159.0	162.5	165.4	168.9	171.7
45°	145.6	146.3	147.0	148.4	150.5	151.9	153.3	156.2	159.7	162.5	165.4
47.5°	139.2	139.9	140.6	142.0	144.2	145.6	147.0	149.8	152.6	155.5	159.0
50°	132.1	132.8	133.6	135.0	137.1	138.5	139.9	142.7	145.6	147.7	151.2
52.5°	124.4	125.1	125.8	127.2	130.0	130.7	132.1	135.0	137.1	139.9	142.7
55°	116.6	117.3	118.0	119.4	121.5	123.0	123.7	126.5	128.6	131.4	134.3
57.5°	108.8	109.5	110.2	111.6	113.1	114.5	115.2	117.3	120.1	122.2	125.1
60°	100.3	101.0	101.8	102.5	104.6	105.3	106.0	108.1	110.2	113.1	115.2
62.5°	91.9	91.9	92.6	93.3	95.4	96.1	96.8	98.2	101.0	102.5	104.6
65°	82.7	82.7	83.4	84.1	85.5	86.2	86.9	88.3	90.4	91.9	94.0
67.5°	72.8	72.8	73.5	74.2	75.6	76.3	76.3	78.4	79.8	81.3	82.7
70°	63.6	63.6	64.3	64.3	65.0	65.7	66.4	67.8	68.5	70.7	71.4
72.5°	53.7	53.7	53.7	53.7	55.1	55.1	55.8	57.2	57.9	59.4	60.8
75°	43.1	43.1	43.8	43.8	44.5	45.2	45.9	46.6	48.1	48.8	49.5
77.5°	33.9	33.2	33.9	34.6	35.3	35.3	36.0	36.7	37.5	38.9	39.6
80°	24.0	24.0	24.0	24.7	25.4	25.4	26.1	26.9	27.6	29.0	29.7
82.5°	15.5	15.5	16.3	16.3	17.0	17.7	17.7	18.4	19.1	20.5	21.2
85°	8.5	8.5	8.5	9.2	9.9	9.9	10.6	11.3	12.7	13.4	14.8
87.5°	2.8	2.8	3.5	4.2	4.9	4.9	5.7	6.4	7.1	8.5	9.2
90°	0.7	0.7	0.7	1.4	1.4	2.1	2.1	2.8	3.5	4.2	4.9
92.5°	2.8	4.9	7.8	11.3	10.6	11.3	7.8	4.9	4.9	4.9	5.7
95°	8.5	12.7	20.5	32.5	42.4	48.1	53.0	57.9	67.8	68.5	65.7
97.5°	17.0	23.3	37.5	53.0	70.7	79.8	86.9	101.8	117.3	127.2	139.2
100°	28.3	37.5	55.8	77.0	97.5	109.5	120.8	142.0	161.1	178.1	196.4
102.5°	41.7	52.3	74.9	101.0	126.5	139.9	151.9	176.7	202.8	225.4	245.2
105°	55.8	67.8	94.7	124.4	153.3	168.9	183.7	210.6	238.1	262.9	286.2
107.5°	71.4	84.1	113.1	146.3	178.8	196.4	212.7	241.7	270.6	297.5	322.2
110°	86.2	100.3	130.7	166.8	203.5	221.2	237.4	269.2	299.6	327.9	354.0



TEST NUMBER: P395368

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	101.8	116.6	147.0	186.6	224.0	242.4	259.3	293.3	325.1	354.0	380.2
115°	116.6	130.7	162.5	203.5	241.7	260.7	279.1	313.7	347.0	375.9	402.8
117.5°	130.7	144.2	176.7	217.6	257.2	276.3	294.7	330.7	363.9	394.3	420.4
120°	144.9	156.9	192.2	229.7	269.9	289.0	308.1	344.1	378.1	408.4	435.3
122.5°	157.6	168.9	203.5	240.3	279.8	299.6	318.0	354.7	389.4	419.7	445.9
125°	168.9	179.5	214.1	248.7	288.3	307.4	326.5	362.5	397.1	426.8	453.7
127.5°	180.2	190.8	221.9	257.2	294.0	313.7	332.1	368.2	402.1	432.5	458.6
130°	192.2	200.0	229.7	265.0	299.6	318.0	337.1	371.7	404.9	434.6	460.7
132.5°	202.1	209.2	237.4	271.3	303.9	321.5	338.5	373.1	406.3	434.6	460.0
135°	211.3	216.9	243.1	277.0	307.4	323.6	339.9	372.4	404.9	433.2	457.9
137.5°	219.8	225.4	248.0	281.2	310.2	324.3	339.9	370.3	401.4	429.6	453.0
140°	227.5	231.8	252.3	283.4	311.6	325.1	338.5	366.7	395.7	423.3	446.6
142.5°	235.3	238.8	255.8	284.8	312.3	325.1	337.8	362.5	389.4	416.2	439.5
145°	241.0	244.5	258.6	285.5	311.6	323.6	334.9	358.3	382.3	407.0	429.6
147.5°	247.3	250.1	261.5	284.1	309.5	320.8	331.4	352.6	374.5	397.1	418.3
150°	251.6	254.4	262.9	282.7	306.0	316.6	327.2	347.0	366.7	386.5	404.9
152.5°	255.8	257.9	265.0	280.5	301.7	311.6	321.5	340.6	359.0	376.6	392.9
155°	259.3	261.5	266.4	279.1	296.8	306.0	315.2	333.5	350.5	366.0	380.9
157.5°	262.9	264.3	267.8	277.0	291.1	299.6	308.1	324.3	339.9	355.4	367.5
160°	265.7	266.4	269.2	276.3	286.2	292.5	300.3	315.2	329.3	342.7	354.0
162.5°	268.5	268.5	270.6	274.9	281.9	286.2	291.8	304.6	317.3	329.3	339.9
165°	269.9	269.9	271.3	274.2	278.4	281.2	284.8	293.3	303.1	313.7	323.6
167.5°	271.3	271.3	272.1	273.5	276.3	277.7	279.1	284.8	291.1	298.9	306.7
170°	272.8	272.1	272.1	273.5	274.2	274.9	275.6	278.4	281.2	286.2	290.4
172.5°	272.8	272.1	272.1	272.8	272.8	272.8	272.8	273.5	274.2	277.0	278.4
175°	272.8	272.1	272.1	272.1	272.1	271.3	271.3	271.3	271.3	271.3	272.1
177.5°	272.8	272.1	271.3	271.3	270.6	270.6	269.9	269.9	269.2	269.2	269.2
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



TEST NUMBER: P395368

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3	199.3
2.5°	200.0	200.0	199.3	199.3	198.6	198.6	197.9	197.2	196.4	196.4
5°	200.7	200.0	199.3	199.3	199.3	198.6	198.6	198.6	197.9	197.9
7.5°	200.7	200.7	200.7	200.0	200.0	200.0	200.0	200.0	199.3	199.3
10°	201.4	201.4	201.4	201.4	201.4	201.4	201.4	200.7	200.7	200.7
12.5°	201.4	201.4	201.4	202.1	202.1	202.1	202.1	202.1	202.1	202.1
15°	202.1	202.1	202.8	202.8	203.5	203.5	204.2	204.2	204.2	203.5
17.5°	201.4	202.1	202.8	203.5	204.2	204.2	204.9	204.9	204.9	204.9
20°	201.4	202.8	203.5	204.2	204.9	204.9	205.6	206.3	206.3	205.6
22.5°	200.7	202.1	202.8	204.2	204.9	204.9	206.3	206.3	206.3	206.3
25°	200.0	201.4	202.8	204.2	204.9	204.9	206.3	206.3	207.0	207.0
27.5°	198.6	200.0	202.1	203.5	204.2	204.9	205.6	206.3	206.3	206.3
30°	196.4	198.6	200.7	202.1	202.8	203.5	204.2	204.9	205.6	205.6
32.5°	193.6	195.7	197.9	200.0	200.7	201.4	202.8	203.5	203.5	203.5
35°	190.8	192.9	195.0	197.2	197.9	198.6	200.0	200.7	201.4	201.4
37.5°	186.6	188.7	190.8	192.9	193.6	195.0	196.4	197.2	197.2	197.2
40°	180.2	183.7	186.6	188.7	189.4	190.8	191.5	192.9	192.9	192.9
42.5°	174.5	177.4	179.5	182.3	183.0	185.1	186.6	187.3	188.0	188.0
45°	168.2	171.0	173.1	175.2	176.0	177.4	178.8	179.5	180.2	180.9
47.5°	161.8	163.9	166.1	168.2	168.9	170.3	171.7	172.4	173.1	173.1
50°	154.0	156.2	158.3	160.4	161.1	162.5	163.2	163.9	164.6	164.6
52.5°	145.6	147.7	149.8	151.9	152.6	153.3	154.8	155.5	156.2	156.2
55°	137.1	139.2	140.6	142.7	143.4	144.2	144.9	146.3	147.0	146.3
57.5°	127.2	129.3	130.7	132.8	133.6	134.3	135.0	135.7	136.4	136.4
60°	116.6	118.7	120.8	122.2	123.0	123.7	124.4	125.1	125.8	125.8
62.5°	106.0	108.1	109.5	111.6	112.4	112.4	113.1	113.8	114.5	114.5
65°	95.4	97.5	98.2	100.3	100.3	101.0	101.8	102.5	102.5	102.5
67.5°	84.1	86.2	86.9	88.3	88.3	89.0	89.7	90.4	90.4	90.4
70°	73.5	74.2	75.6	76.3	77.0	77.0	77.7	78.4	79.1	78.4
72.5°	62.2	62.9	64.3	65.0	65.0	65.7	65.7	66.4	67.1	67.1
75°	50.9	52.3	53.0	53.7	54.4	54.4	55.1	55.8	55.8	55.8
77.5°	40.3	41.7	42.4	43.1	43.8	43.8	44.5	44.5	45.2	44.5
80°	31.1	31.8	32.5	33.2	33.9	33.9	34.6	35.3	35.3	35.3
82.5°	22.6	23.3	24.7	25.4	25.4	25.4	26.9	26.9	27.6	26.9
85°	15.5	16.3	17.7	18.4	19.1	19.1	19.1	19.8	20.5	19.8
87.5°	9.9	11.3	12.0	12.7	12.7	12.7	13.4	14.1	14.1	14.1
90°	5.7	5.7	6.4	7.1	7.1	7.8	7.8	8.5	8.5	8.5
92.5°	5.7	6.4	6.4	6.4	7.1	7.1	7.1	7.8	7.8	7.8
95°	48.1	34.6	19.8	15.5	13.4	13.4	12.7	13.4	12.7	12.7
97.5°	145.6	157.6	163.2	171.0	175.2	174.5	171.7	174.5	172.4	174.5
100°	207.0	218.4	226.8	229.0	233.2	235.3	243.1	248.7	251.6	255.1
102.5°	257.2	270.6	280.5	286.2	290.4	293.3	302.4	310.9	315.2	318.0
105°	303.1	317.3	329.3	334.9	339.9	342.7	352.6	362.5	368.9	372.4
107.5°	339.9	356.1	368.9	377.3	382.3	387.2	399.2	409.1	416.9	420.4
110°	373.1	389.4	402.8	412.7	418.3	423.3	436.7	448.0	456.5	460.7



TEST NUMBER: P395368

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	400.7	418.3	431.8	442.4	448.0	455.1	467.8	480.5	489.0	493.9
115°	423.3	441.6	455.8	467.1	473.4	479.8	494.6	507.4	515.8	519.4
117.5°	442.4	460.7	475.6	486.9	493.9	501.0	515.8	527.2	536.3	539.2
120°	457.9	476.3	491.1	503.8	510.9	517.3	531.4	543.4	551.9	554.0
122.5°	468.5	487.6	503.1	517.3	523.6	530.0	543.4	555.4	563.2	565.3
125°	476.3	496.1	511.6	526.4	532.8	539.2	551.9	563.9	570.3	573.1
127.5°	481.2	501.0	518.0	532.1	539.2	544.8	557.5	568.1	574.5	576.6
130°	482.6	503.1	520.1	534.9	541.3	546.9	558.9	569.5	575.2	576.6
132.5°	482.6	502.4	520.1	534.2	540.6	546.2	557.5	567.4	573.1	574.5
135°	479.8	498.9	516.6	530.7	537.0	542.7	554.0	562.5	568.1	568.8
137.5°	474.9	493.2	510.2	524.3	530.7	536.3	546.2	555.4	560.4	561.8
140°	468.5	485.5	502.4	515.8	522.2	527.2	537.0	544.8	549.8	551.2
142.5°	460.0	477.0	492.5	506.0	510.9	516.6	525.0	532.8	537.0	538.5
145°	450.8	467.1	481.2	493.2	498.9	503.8	511.6	518.7	522.9	524.3
147.5°	438.8	455.1	468.5	479.8	484.8	489.7	496.8	503.1	507.4	508.8
150°	424.0	438.8	453.0	463.6	468.5	473.4	480.5	486.2	490.4	491.1
152.5°	409.1	423.3	435.3	445.9	450.8	455.8	462.1	467.8	472.7	472.7
155°	395.0	407.0	418.3	427.5	431.8	436.0	442.4	447.3	451.5	451.5
157.5°	380.2	391.5	400.7	409.1	412.7	416.2	421.9	426.1	429.6	428.9
160°	366.0	374.5	383.0	390.1	393.6	396.4	400.7	404.2	407.7	407.0
162.5°	350.5	358.3	365.3	370.3	373.1	375.2	379.5	383.0	385.1	385.1
165°	332.8	339.9	346.3	351.2	354.0	355.4	359.0	361.1	363.2	363.2
167.5°	314.5	320.1	325.8	330.0	332.8	334.2	337.8	339.2	342.0	341.3
170°	296.1	300.3	304.6	308.1	309.5	310.9	313.7	315.2	316.6	316.6
172.5°	281.2	282.7	284.8	287.6	287.6	288.3	289.7	290.4	291.1	291.1
175°	272.8	273.5	273.5	273.5	273.5	273.5	274.2	273.5	274.2	273.5
177.5°	269.2	269.2	268.5	268.5	267.8	268.5	267.8	267.1	267.1	266.4
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8

(END OF REPORT)