

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: P395395

Luminaire Tested: **I3-CL-40L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395395
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-40L83050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, CLEAR TOP COVER
4000 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: 3697.7 lumens
Efficiency: N/A
Efficacy: 132.5 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

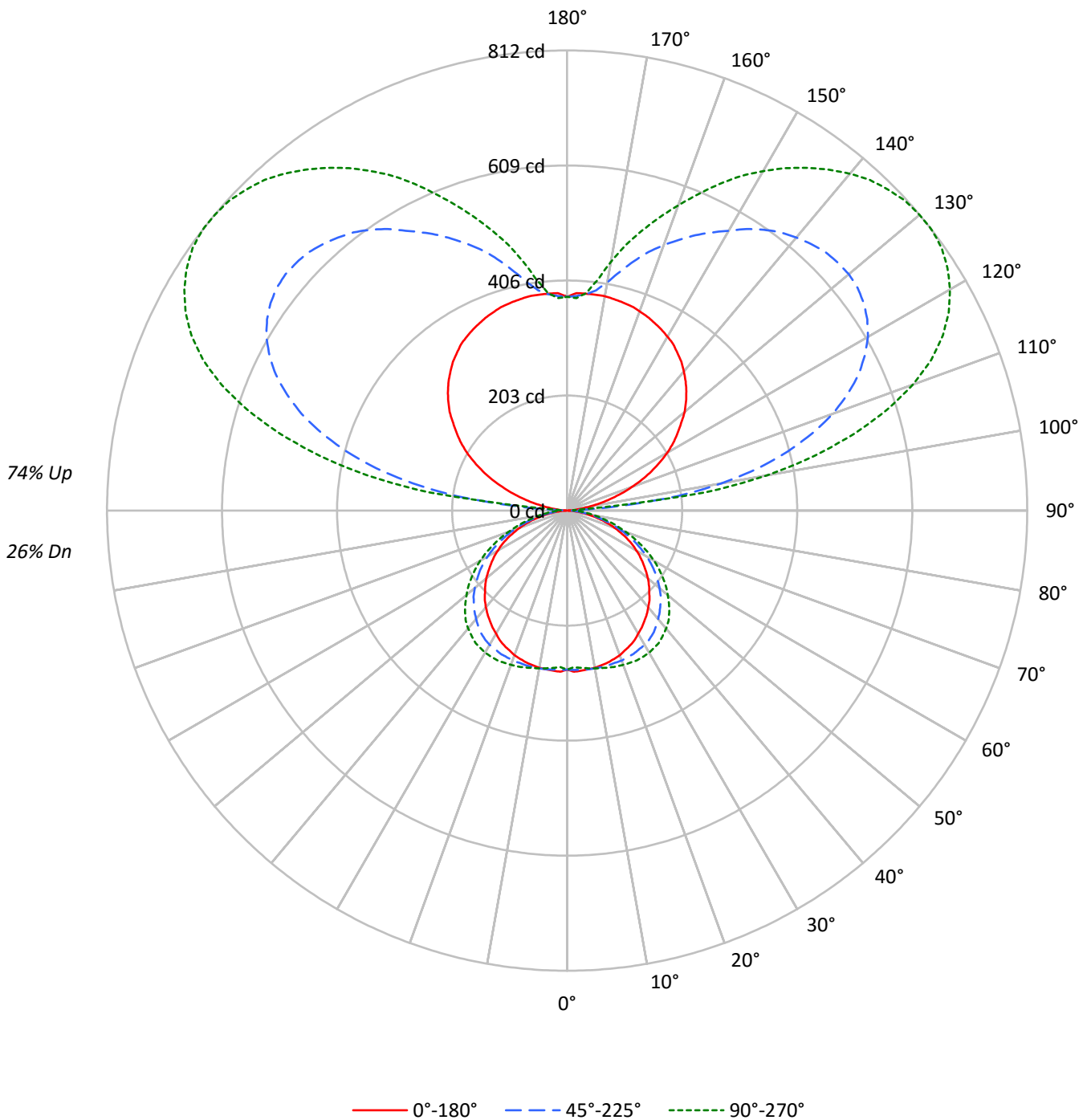
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1542	1542	1542
5°	1559	1518	1494
10°	1560	1507	1490
15°	1562	1501	1497
20°	1564	1502	1511
25°	1562	1503	1530
30°	1553	1505	1541
35°	1549	1497	1543
40°	1544	1466	1523
45°	1528	1430	1485
50°	1515	1383	1419
55°	1483	1314	1337
60°	1447	1221	1234
65°	1387	1096	1094
70°	1289	933	926
75°	1112	743	744
80°	862	528	545
85°	505	326	366



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CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	0.7
10°-20°	79.8	2.2
20°-30°	127.9	3.5
30°-40°	163.6	4.4
40°-50°	178.3	4.8
50°-60°	167.1	4.5
60°-70°	129.6	3.5
70°-80°	74.3	2.0
80°-90°	23.8	0.6
90°-100°	95.4	2.6
100°-110°	370.7	10.0
110°-120°	504.7	13.6
120°-130°	523.9	14.2
130°-140°	464.7	12.6
140°-150°	360.6	9.8
150°-160°	240.7	6.5
160°-170°	128.3	3.5
170°-180°	37.5	1.0
0°-30°	234.5	6.3
0°-40°	398.1	10.8
0°-60°	743.5	20.1
0°-90°	971.2	26.3
90°-120°	970.8	26.3
90°-150°	2320.1	62.7
90°-180°	2727.0	73.7
0°-180°	3697.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	281	281	281	281	281	
5°	284	281	282	281	279	27
15°	278	277	283	287	287	78
25°	263	265	279	289	292	121
35°	238	243	265	279	284	149
45°	205	214	233	248	255	158
55°	164	173	189	202	206	147
65°	116	121	132	141	144	115
75°	61	64	70	77	79	65
85°	12	14	21	27	28	14
90°	1	3	7	10	12	1
95°	12	68	92	19	18	16
105°	79	238	403	479	524	84
115°	164	367	567	667	731	162
125°	238	433	639	750	807	213
135°	298	456	645	756	801	229
145°	339	456	605	702	738	213
155°	365	431	536	608	636	169
165°	380	396	456	498	511	108
175°	384	382	383	385	385	37
180°	377	377	377	377	377	



TEST NUMBER: P395395

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6
2.5°	284.6	283.6	283.6	281.6	281.6	280.6	280.6	280.6	280.6	280.6	281.6
5°	283.6	283.6	282.6	281.6	281.6	280.6	280.6	280.6	280.6	280.6	281.6
7.5°	282.6	282.6	281.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	282.6
10°	281.6	281.6	280.6	279.6	279.6	279.6	279.6	280.6	280.6	280.6	282.6
12.5°	279.6	278.6	278.6	277.6	277.6	277.6	278.6	278.6	279.6	280.6	282.6
15°	277.6	277.6	276.6	275.6	276.6	276.6	276.6	277.6	278.6	279.6	282.6
17.5°	274.6	274.6	273.6	273.6	273.6	274.6	274.6	275.6	277.6	279.6	281.6
20°	271.6	270.6	270.6	270.6	271.6	271.6	272.6	274.6	275.6	278.6	281.6
22.5°	266.7	267.7	266.7	266.7	267.7	268.7	269.7	271.6	273.6	276.6	279.6
25°	262.7	262.7	262.7	262.7	264.7	264.7	266.7	268.7	271.6	274.6	278.6
27.5°	257.7	257.7	257.7	258.7	259.7	260.7	261.7	264.7	267.7	271.6	275.6
30°	250.7	250.7	250.7	250.7	253.7	254.7	256.7	260.7	263.7	268.7	273.6
32.5°	244.8	244.8	244.8	245.8	247.8	248.8	250.7	255.7	259.7	264.7	269.7
35°	237.8	237.8	238.8	238.8	241.8	242.8	244.8	248.8	252.7	258.7	264.7
37.5°	230.8	230.8	231.8	232.8	234.8	236.8	238.8	242.8	246.8	251.7	257.7
40°	222.9	222.9	223.9	224.9	227.9	229.9	231.8	235.8	239.8	244.8	249.8
42.5°	214.9	214.9	215.9	216.9	219.9	221.9	223.9	228.9	232.8	237.8	241.8
45°	205.0	206.0	207.0	209.0	211.9	213.9	215.9	219.9	224.9	228.9	232.8
47.5°	196.0	197.0	198.0	200.0	203.0	205.0	207.0	210.9	214.9	218.9	223.9
50°	186.1	187.1	188.1	190.1	193.0	195.0	197.0	201.0	205.0	208.0	212.9
52.5°	175.1	176.1	177.1	179.1	183.1	184.1	186.1	190.1	193.0	197.0	201.0
55°	164.2	165.2	166.2	168.2	171.1	173.1	174.1	178.1	181.1	185.1	189.1
57.5°	153.2	154.2	155.2	157.2	159.2	161.2	162.2	165.2	169.2	172.1	176.1
60°	141.3	142.3	143.3	144.3	147.3	148.3	149.3	152.2	155.2	159.2	162.2
62.5°	129.4	129.4	130.3	131.3	134.3	135.3	136.3	138.3	142.3	144.3	147.3
65°	116.4	116.4	117.4	118.4	120.4	121.4	122.4	124.4	127.4	129.4	132.3
67.5°	102.5	102.5	103.5	104.5	106.5	107.5	107.5	110.4	112.4	114.4	116.4
70°	89.6	89.6	90.5	90.5	91.5	92.5	93.5	95.5	96.5	99.5	100.5
72.5°	75.6	75.6	75.6	75.6	77.6	77.6	78.6	80.6	81.6	83.6	85.6
75°	60.7	60.7	61.7	61.7	62.7	63.7	64.7	65.7	67.7	68.7	69.7
77.5°	47.8	46.8	47.8	48.8	49.8	49.8	50.7	51.7	52.7	54.7	55.7
80°	33.8	33.8	33.8	34.8	35.8	35.8	36.8	37.8	38.8	40.8	41.8
82.5°	21.9	21.9	22.9	22.9	23.9	24.9	24.9	25.9	26.9	28.9	29.9
85°	11.9	11.9	11.9	12.9	13.9	13.9	14.9	15.9	17.9	18.9	20.9
87.5°	4.0	4.0	5.0	6.0	7.0	7.0	8.0	9.0	10.0	11.9	12.9
90°	1.0	1.0	1.0	2.0	2.0	3.0	3.0	4.0	5.0	6.0	7.0
92.5°	4.0	7.0	10.9	15.9	14.9	15.9	10.9	7.0	7.0	7.0	8.0
95°	11.9	17.9	28.9	45.8	59.7	67.7	74.6	81.6	95.5	96.5	92.5
97.5°	23.9	32.8	52.7	74.6	99.5	112.4	122.4	143.3	165.2	179.1	196.0
100°	39.8	52.7	78.6	108.5	137.3	154.2	170.2	200.0	226.9	250.7	276.6
102.5°	58.7	73.6	105.5	142.3	178.1	197.0	213.9	248.8	285.6	317.4	345.3
105°	78.6	95.5	133.3	175.1	215.9	237.8	258.7	296.5	335.3	370.2	403.0
107.5°	100.5	118.4	159.2	206.0	251.7	276.6	299.5	340.3	381.1	418.9	453.7
110°	121.4	141.3	184.1	234.8	286.6	311.4	334.3	379.1	421.9	461.7	498.5



TEST NUMBER: P395395

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	143.3	164.2	207.0	262.7	315.4	341.3	365.2	412.9	457.7	498.5	535.3
115°	164.2	184.1	228.9	286.6	340.3	367.2	393.0	441.8	488.6	529.4	567.2
117.5°	184.1	203.0	248.8	306.5	362.2	389.1	414.9	465.7	512.4	555.2	592.0
120°	204.0	220.9	270.6	323.4	380.1	407.0	433.8	484.6	532.3	575.1	612.9
122.5°	221.9	237.8	286.6	338.3	394.0	421.9	447.8	499.5	548.3	591.1	627.9
125°	237.8	252.7	301.5	350.3	406.0	432.8	459.7	510.5	559.2	601.0	638.8
127.5°	253.7	268.7	312.4	362.2	413.9	441.8	467.7	518.4	566.2	609.0	645.8
130°	270.6	281.6	323.4	373.1	421.9	447.8	474.6	523.4	570.2	611.9	648.8
132.5°	284.6	294.5	334.3	382.1	427.9	452.7	476.6	525.4	572.1	611.9	647.8
135°	297.5	305.5	342.3	390.1	432.8	455.7	478.6	524.4	570.2	610.0	644.8
137.5°	309.5	317.4	349.3	396.0	436.8	456.7	478.6	521.4	565.2	605.0	637.8
140°	320.4	326.4	355.2	399.0	438.8	457.7	476.6	516.4	557.2	596.0	628.9
142.5°	331.3	336.3	360.2	401.0	439.8	457.7	475.6	510.5	548.3	586.1	618.9
145°	339.3	344.3	364.2	402.0	438.8	455.7	471.6	504.5	538.3	573.1	605.0
147.5°	348.3	352.2	368.2	400.0	435.8	451.7	466.7	496.5	527.4	559.2	589.1
150°	354.2	358.2	370.2	398.0	430.9	445.8	460.7	488.6	516.4	544.3	570.2
152.5°	360.2	363.2	373.1	395.0	424.9	438.8	452.7	479.6	505.5	530.4	553.2
155°	365.2	368.2	375.1	393.0	417.9	430.9	443.8	469.7	493.5	515.4	536.3
157.5°	370.2	372.1	377.1	390.1	410.0	421.9	433.8	456.7	478.6	500.5	517.4
160°	374.1	375.1	379.1	389.1	403.0	411.9	422.9	443.8	463.7	482.6	498.5
162.5°	378.1	378.1	381.1	387.1	397.0	403.0	410.9	428.9	446.8	463.7	478.6
165°	380.1	380.1	382.1	386.1	392.0	396.0	401.0	412.9	426.9	441.8	455.7
167.5°	382.1	382.1	383.1	385.1	389.1	391.0	393.0	401.0	410.0	420.9	431.8
170°	384.1	383.1	383.1	385.1	386.1	387.1	388.1	392.0	396.0	403.0	409.0
172.5°	384.1	383.1	383.1	384.1	384.1	384.1	384.1	385.1	386.1	390.1	392.0
175°	384.1	383.1	383.1	383.1	383.1	382.1	382.1	382.1	382.1	382.1	383.1
177.5°	384.1	383.1	382.1	382.1	381.1	381.1	380.1	380.1	379.1	379.1	379.1
180°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1



TEST NUMBER: P395395

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6
2.5°	281.6	281.6	280.6	280.6	279.6	279.6	278.6	277.6	276.6	276.6
5°	282.6	281.6	280.6	280.6	280.6	279.6	279.6	279.6	278.6	278.6
7.5°	282.6	282.6	282.6	281.6	281.6	281.6	281.6	281.6	280.6	280.6
10°	283.6	283.6	283.6	283.6	283.6	283.6	283.6	282.6	282.6	282.6
12.5°	283.6	283.6	283.6	284.6	284.6	284.6	284.6	284.6	284.6	284.6
15°	284.6	284.6	285.6	285.6	286.6	286.6	287.6	287.6	287.6	286.6
17.5°	283.6	284.6	285.6	286.6	287.6	287.6	288.6	288.6	288.6	288.6
20°	283.6	285.6	286.6	287.6	288.6	288.6	289.6	290.6	290.6	289.6
22.5°	282.6	284.6	285.6	287.6	288.6	288.6	290.6	290.6	290.6	290.6
25°	281.6	283.6	285.6	287.6	288.6	288.6	290.6	290.6	291.5	291.5
27.5°	279.6	281.6	284.6	286.6	287.6	288.6	289.6	290.6	290.6	290.6
30°	276.6	279.6	282.6	284.6	285.6	286.6	287.6	288.6	289.6	289.6
32.5°	272.6	275.6	278.6	281.6	282.6	283.6	285.6	286.6	286.6	286.6
35°	268.7	271.6	274.6	277.6	278.6	279.6	281.6	282.6	283.6	283.6
37.5°	262.7	265.7	268.7	271.6	272.6	274.6	276.6	277.6	277.6	277.6
40°	253.7	258.7	262.7	265.7	266.7	268.7	269.7	271.6	271.6	271.6
42.5°	245.8	249.8	252.7	256.7	257.7	260.7	262.7	263.7	264.7	264.7
45°	236.8	240.8	243.8	246.8	247.8	249.8	251.7	252.7	253.7	254.7
47.5°	227.9	230.8	233.8	236.8	237.8	239.8	241.8	242.8	243.8	243.8
50°	216.9	219.9	222.9	225.9	226.9	228.9	229.9	230.8	231.8	231.8
52.5°	205.0	208.0	210.9	213.9	214.9	215.9	217.9	218.9	219.9	219.9
55°	193.0	196.0	198.0	201.0	202.0	203.0	204.0	206.0	207.0	206.0
57.5°	179.1	182.1	184.1	187.1	188.1	189.1	190.1	191.0	192.0	192.0
60°	164.2	167.2	170.2	172.1	173.1	174.1	175.1	176.1	177.1	177.1
62.5°	149.3	152.2	154.2	157.2	158.2	158.2	159.2	160.2	161.2	161.2
65°	134.3	137.3	138.3	141.3	141.3	142.3	143.3	144.3	144.3	144.3
67.5°	118.4	121.4	122.4	124.4	124.4	125.4	126.4	127.4	127.4	127.4
70°	103.5	104.5	106.5	107.5	108.5	108.5	109.5	110.4	111.4	110.4
72.5°	87.6	88.6	90.5	91.5	91.5	92.5	92.5	93.5	94.5	94.5
75°	71.6	73.6	74.6	75.6	76.6	76.6	77.6	78.6	78.6	78.6
77.5°	56.7	58.7	59.7	60.7	61.7	61.7	62.7	62.7	63.7	62.7
80°	43.8	44.8	45.8	46.8	47.8	47.8	48.8	49.8	49.8	49.8
82.5°	31.8	32.8	34.8	35.8	35.8	35.8	37.8	37.8	38.8	37.8
85°	21.9	22.9	24.9	25.9	26.9	26.9	26.9	27.9	28.9	27.9
87.5°	13.9	15.9	16.9	17.9	17.9	17.9	18.9	19.9	19.9	19.9
90°	8.0	8.0	9.0	10.0	10.0	10.9	10.9	11.9	11.9	11.9
92.5°	8.0	9.0	9.0	9.0	10.0	10.0	10.0	10.9	10.9	10.9
95°	67.7	48.8	27.9	21.9	18.9	18.9	17.9	18.9	17.9	17.9
97.5°	205.0	221.9	229.9	240.8	246.8	245.8	241.8	245.8	242.8	245.8
100°	291.5	307.5	319.4	322.4	328.4	331.3	342.3	350.3	354.2	359.2
102.5°	362.2	381.1	395.0	403.0	409.0	412.9	425.9	437.8	443.8	447.8
105°	426.9	446.8	463.7	471.6	478.6	482.6	496.5	510.5	519.4	524.4
107.5°	478.6	501.5	519.4	531.3	538.3	545.3	562.2	576.1	587.1	592.0
110°	525.4	548.3	567.2	581.1	589.1	596.0	614.9	630.9	642.8	648.8



TEST NUMBER: P395395

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	564.2	589.1	608.0	622.9	630.9	640.8	658.7	676.6	688.6	695.5
115°	596.0	621.9	641.8	657.7	666.7	675.6	696.5	714.4	726.4	731.4
117.5°	622.9	648.8	669.7	685.6	695.5	705.5	726.4	742.3	755.2	759.2
120°	644.8	670.7	691.6	709.5	719.4	728.4	748.3	765.2	777.1	780.1
122.5°	659.7	686.6	708.5	728.4	737.3	746.3	765.2	782.1	793.0	796.0
125°	670.7	698.5	720.4	741.3	750.3	759.2	777.1	794.0	803.0	807.0
127.5°	677.6	705.5	729.4	749.3	759.2	767.2	785.1	800.0	809.0	811.9
130°	679.6	708.5	732.3	753.2	762.2	770.2	787.1	802.0	810.0	811.9
132.5°	679.6	707.5	732.3	752.2	761.2	769.2	785.1	799.0	807.0	809.0
135°	675.6	702.5	727.4	747.3	756.2	764.2	780.1	792.0	800.0	801.0
137.5°	668.7	694.5	718.4	738.3	747.3	755.2	769.2	782.1	789.1	791.1
140°	659.7	683.6	707.5	726.4	735.3	742.3	756.2	767.2	774.1	776.1
142.5°	647.8	671.6	693.5	712.4	719.4	727.4	739.3	750.3	756.2	758.2
145°	634.8	657.7	677.6	694.5	702.5	709.5	720.4	730.4	736.3	738.3
147.5°	617.9	640.8	659.7	675.6	682.6	689.6	699.5	708.5	714.4	716.4
150°	597.0	617.9	637.8	652.7	659.7	666.7	676.6	684.6	690.6	691.6
152.5°	576.1	596.0	612.9	627.9	634.8	641.8	650.8	658.7	665.7	665.7
155°	556.2	573.1	589.1	602.0	608.0	613.9	622.9	629.9	635.8	635.8
157.5°	535.3	551.2	564.2	576.1	581.1	586.1	594.0	600.0	605.0	604.0
160°	515.4	527.4	539.3	549.3	554.2	558.2	564.2	569.2	574.1	573.1
162.5°	493.5	504.5	514.4	521.4	525.4	528.4	534.3	539.3	542.3	542.3
165°	468.7	478.6	487.6	494.5	498.5	500.5	505.5	508.5	511.4	511.4
167.5°	442.8	450.8	458.7	464.7	468.7	470.7	475.6	477.6	481.6	480.6
170°	416.9	422.9	428.9	433.8	435.8	437.8	441.8	443.8	445.8	445.8
172.5°	396.0	398.0	401.0	405.0	405.0	406.0	408.0	409.0	410.0	410.0
175°	384.1	385.1	385.1	385.1	385.1	385.1	386.1	385.1	386.1	385.1
177.5°	379.1	379.1	378.1	378.1	377.1	378.1	377.1	376.1	376.1	375.1
180°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1

(END OF REPORT)