

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: P395398

Luminaire Tested: **I3-CL-40L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395398
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 (5000K)
Description: CORELITE I3, CLEAR TOP COVER
4000 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: 3927.0 lumens
Efficiency: N/A
Efficacy: 134.0 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

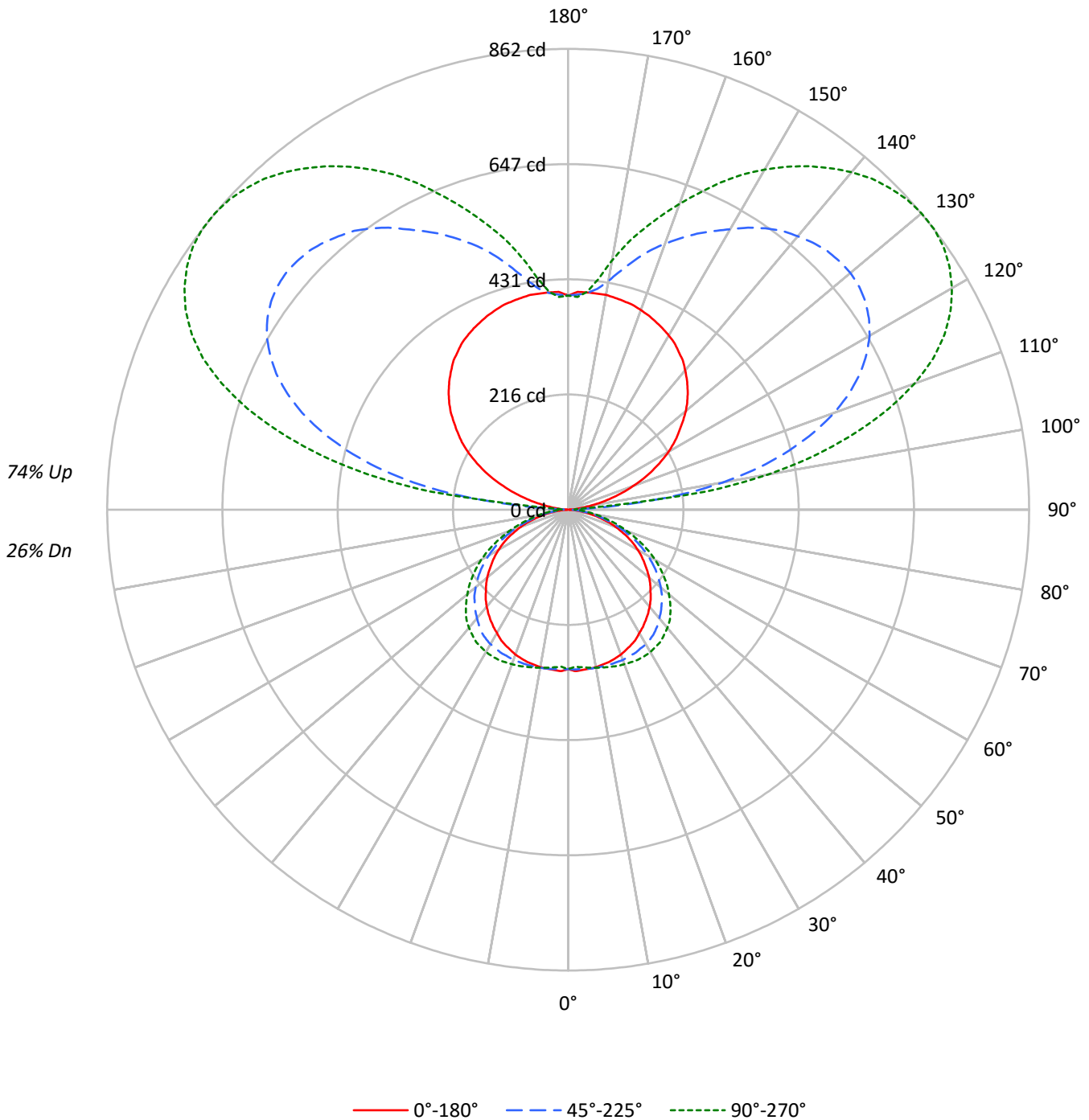
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395398

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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°	1638	1638	1638
5°	1656	1613	1586
10°	1657	1600	1582
15°	1659	1594	1590
20°	1662	1595	1604
25°	1659	1597	1625
30°	1650	1599	1637
35°	1646	1590	1639
40°	1640	1556	1618
45°	1623	1519	1577
50°	1608	1468	1507
55°	1575	1395	1420
60°	1537	1296	1311
65°	1473	1164	1162
70°	1368	991	984
75°	1182	789	790
80°	915	560	578
85°	539	347	388



TEST NUMBER: P395398

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	0.7
10°-20°	84.7	2.2
20°-30°	135.8	3.5
30°-40°	173.7	4.4
40°-50°	189.4	4.8
50°-60°	177.4	4.5
60°-70°	137.7	3.5
70°-80°	78.9	2.0
80°-90°	25.2	0.6
90°-100°	101.3	2.6
100°-110°	393.7	10.0
110°-120°	536.0	13.6
120°-130°	556.4	14.2
130°-140°	493.6	12.6
140°-150°	382.9	9.8
150°-160°	255.6	6.5
160°-170°	136.2	3.5
170°-180°	39.9	1.0
0°-30°	249.0	6.3
0°-40°	422.7	10.8
0°-60°	789.6	20.1
0°-90°	1031.4	26.3
90°-120°	1031.0	26.3
90°-150°	2464.0	62.7
90°-180°	2896.0	73.7
0°-180°	3927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	301	298	299	298	296	29
15°	295	294	300	304	304	83
25°	279	281	296	306	310	129
35°	253	258	281	296	301	158
45°	218	227	247	263	270	168
55°	174	184	201	214	219	156
65°	124	129	140	150	153	122
75°	64	68	74	81	84	69
85°	13	15	22	28	30	15
90°	1	3	7	11	13	1
95°	13	72	98	20	19	17
105°	84	253	428	508	557	89
115°	174	390	602	708	777	172
125°	253	460	678	797	857	226
135°	316	484	685	803	851	244
145°	360	484	642	746	784	226
155°	388	458	570	646	675	179
165°	404	421	484	529	543	114
175°	408	406	407	409	409	39
180°	400	400	400	400	400	



TEST NUMBER: P395398

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (5000K)

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°	302.2	301.2	301.2	299.1	299.1	298.0	298.0	298.0	298.0	298.0	299.1
5°	301.2	301.2	300.1	299.1	299.1	298.0	298.0	298.0	298.0	298.0	299.1
7.5°	300.1	300.1	299.1	298.0	298.0	298.0	298.0	298.0	298.0	298.0	300.1
10°	299.1	299.1	298.0	296.9	296.9	296.9	296.9	298.0	298.0	298.0	300.1
12.5°	296.9	295.9	295.9	294.8	294.8	294.8	295.9	295.9	296.9	298.0	300.1
15°	294.8	294.8	293.8	292.7	293.8	293.8	293.8	294.8	295.9	296.9	300.1
17.5°	291.7	291.7	290.6	290.6	290.6	291.7	291.7	292.7	294.8	296.9	299.1
20°	288.5	287.4	287.4	287.4	288.5	288.5	289.5	291.7	292.7	295.9	299.1
22.5°	283.2	284.3	283.2	283.2	284.3	285.3	286.4	288.5	290.6	293.8	296.9
25°	279.0	279.0	279.0	279.0	281.1	281.1	283.2	285.3	288.5	291.7	295.9
27.5°	273.7	273.7	273.7	274.7	275.8	276.9	277.9	281.1	284.3	288.5	292.7
30°	266.3	266.3	266.3	266.3	269.5	270.5	272.6	276.9	280.0	285.3	290.6
32.5°	260.0	260.0	260.0	261.0	263.1	264.2	266.3	271.6	275.8	281.1	286.4
35°	252.6	252.6	253.6	253.6	256.8	257.8	260.0	264.2	268.4	274.7	281.1
37.5°	245.2	245.2	246.2	247.3	249.4	251.5	253.6	257.8	262.1	267.4	273.7
40°	236.7	236.7	237.8	238.8	242.0	244.1	246.2	250.4	254.7	260.0	265.2
42.5°	228.3	228.3	229.3	230.4	233.5	235.7	237.8	243.0	247.3	252.6	256.8
45°	217.7	218.7	219.8	221.9	225.1	227.2	229.3	233.5	238.8	243.0	247.3
47.5°	208.2	209.2	210.3	212.4	215.6	217.7	219.8	224.0	228.3	232.5	237.8
50°	197.6	198.7	199.7	201.8	205.0	207.1	209.2	213.5	217.7	220.9	226.1
52.5°	186.0	187.0	188.1	190.2	194.4	195.5	197.6	201.8	205.0	209.2	213.5
55°	174.4	175.4	176.5	178.6	181.8	183.9	184.9	189.2	192.3	196.6	200.8
57.5°	162.7	163.8	164.8	167.0	169.1	171.2	172.2	175.4	179.6	182.8	187.0
60°	150.1	151.1	152.2	153.2	156.4	157.5	158.5	161.7	164.8	169.1	172.2
62.5°	137.4	137.4	138.4	139.5	142.7	143.7	144.8	146.9	151.1	153.2	156.4
65°	123.6	123.6	124.7	125.8	127.9	128.9	130.0	132.1	135.3	137.4	140.5
67.5°	108.8	108.8	109.9	111.0	113.1	114.1	114.1	117.3	119.4	121.5	123.6
70°	95.1	95.1	96.2	96.2	97.2	98.3	99.3	101.4	102.5	105.7	106.7
72.5°	80.3	80.3	80.3	80.3	82.4	82.4	83.5	85.6	86.7	88.8	90.9
75°	64.5	64.5	65.5	65.5	66.6	67.6	68.7	69.7	71.9	72.9	74.0
77.5°	50.7	49.7	50.7	51.8	52.8	52.8	53.9	54.9	56.0	58.1	59.2
80°	35.9	35.9	35.9	37.0	38.0	38.0	39.1	40.2	41.2	43.3	44.4
82.5°	23.2	23.2	24.3	24.3	25.4	26.4	26.4	27.5	28.5	30.6	31.7
85°	12.7	12.7	12.7	13.7	14.8	14.8	15.9	16.9	19.0	20.1	22.2
87.5°	4.2	4.2	5.3	6.3	7.4	7.4	8.5	9.5	10.6	12.7	13.7
90°	1.1	1.1	1.1	2.1	2.1	3.2	3.2	4.2	5.3	6.3	7.4
92.5°	4.2	7.4	11.6	16.9	15.9	16.9	11.6	7.4	7.4	7.4	8.5
95°	12.7	19.0	30.6	48.6	63.4	71.9	79.3	86.7	101.4	102.5	98.3
97.5°	25.4	34.9	56.0	79.3	105.7	119.4	130.0	152.2	175.4	190.2	208.2
100°	42.3	56.0	83.5	115.2	145.8	163.8	180.7	212.4	240.9	266.3	293.8
102.5°	62.3	78.2	112.0	151.1	189.2	209.2	227.2	264.2	303.3	337.1	366.7
105°	83.5	101.4	141.6	186.0	229.3	252.6	274.7	314.9	356.1	393.1	428.0
107.5°	106.7	125.8	169.1	218.7	267.4	293.8	318.1	361.4	404.7	444.9	481.9
110°	128.9	150.1	195.5	249.4	304.3	330.8	355.1	402.6	448.1	490.3	529.4



TEST NUMBER: P395398

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	152.2	174.4	219.8	279.0	335.0	362.5	387.8	438.5	486.1	529.4	568.5
115°	174.4	195.5	243.0	304.3	361.4	389.9	417.4	469.2	518.9	562.2	602.3
117.5°	195.5	215.6	264.2	325.5	384.6	413.2	440.7	494.5	544.2	589.7	628.8
120°	216.6	234.6	287.4	343.4	403.7	432.2	460.7	514.6	565.3	610.8	650.9
122.5°	235.7	252.6	304.3	359.3	418.5	448.1	475.5	530.5	582.3	627.7	666.8
125°	252.6	268.4	320.2	372.0	431.1	459.7	488.2	542.1	593.9	638.3	678.4
127.5°	269.5	285.3	331.8	384.6	439.6	469.2	496.7	550.6	601.3	646.7	685.8
130°	287.4	299.1	343.4	396.3	448.1	475.5	504.1	555.8	605.5	649.9	689.0
132.5°	302.2	312.8	355.1	405.8	454.4	480.8	506.2	558.0	607.6	649.9	687.9
135°	316.0	324.4	363.5	414.2	459.7	484.0	508.3	556.9	605.5	647.8	684.8
137.5°	328.6	337.1	370.9	420.6	463.9	485.0	508.3	553.7	600.2	642.5	677.4
140°	340.3	346.6	377.3	423.7	466.0	486.1	506.2	548.4	591.8	633.0	667.9
142.5°	351.9	357.2	382.5	425.9	467.1	486.1	505.1	542.1	582.3	622.4	657.3
145°	360.3	365.6	386.8	426.9	466.0	484.0	500.9	535.8	571.7	608.7	642.5
147.5°	369.9	374.1	391.0	424.8	462.8	479.8	495.6	527.3	560.1	593.9	625.6
150°	376.2	380.4	393.1	422.7	457.6	473.4	489.3	518.9	548.4	578.0	605.5
152.5°	382.5	385.7	396.3	419.5	451.2	466.0	480.8	509.3	536.8	563.2	587.5
155°	387.8	391.0	398.4	417.4	443.8	457.6	471.3	498.8	524.1	547.4	569.6
157.5°	393.1	395.2	400.5	414.2	435.4	448.1	460.7	485.0	508.3	531.5	549.5
160°	397.3	398.4	402.6	413.2	428.0	437.5	449.1	471.3	492.4	512.5	529.4
162.5°	401.6	401.6	404.7	411.1	421.6	428.0	436.4	455.4	474.5	492.4	508.3
165°	403.7	403.7	405.8	410.0	416.4	420.6	425.9	438.5	453.3	469.2	484.0
167.5°	405.8	405.8	406.8	409.0	413.2	415.3	417.4	425.9	435.4	447.0	458.6
170°	407.9	406.8	406.8	409.0	410.0	411.1	412.1	416.4	420.6	428.0	434.3
172.5°	407.9	406.8	406.8	407.9	407.9	407.9	407.9	409.0	410.0	414.2	416.4
175°	407.9	406.8	406.8	406.8	406.8	405.8	405.8	405.8	405.8	405.8	406.8
177.5°	407.9	406.8	405.8	405.8	404.7	404.7	403.7	403.7	402.6	402.6	402.6
180°	400.5	400.5	400.5	400.5	400.5	400.5	400.5	400.5	400.5	400.5	400.5



TEST NUMBER: P395398

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (5000K)

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°	299.1	299.1	298.0	298.0	296.9	296.9	295.9	294.8	293.8	293.8
5°	300.1	299.1	298.0	298.0	298.0	296.9	296.9	296.9	295.9	295.9
7.5°	300.1	300.1	300.1	299.1	299.1	299.1	299.1	299.1	298.0	298.0
10°	301.2	301.2	301.2	301.2	301.2	301.2	301.2	300.1	300.1	300.1
12.5°	301.2	301.2	301.2	302.2	302.2	302.2	302.2	302.2	302.2	302.2
15°	302.2	302.2	303.3	303.3	304.3	304.3	305.4	305.4	305.4	304.3
17.5°	301.2	302.2	303.3	304.3	305.4	305.4	306.5	306.5	306.5	306.5
20°	301.2	303.3	304.3	305.4	306.5	306.5	307.5	308.6	308.6	307.5
22.5°	300.1	302.2	303.3	305.4	306.5	306.5	308.6	308.6	308.6	308.6
25°	299.1	301.2	303.3	305.4	306.5	306.5	308.6	308.6	309.6	309.6
27.5°	296.9	299.1	302.2	304.3	305.4	306.5	307.5	308.6	308.6	308.6
30°	293.8	296.9	300.1	302.2	303.3	304.3	305.4	306.5	307.5	307.5
32.5°	289.5	292.7	295.9	299.1	300.1	301.2	303.3	304.3	304.3	304.3
35°	285.3	288.5	291.7	294.8	295.9	296.9	299.1	300.1	301.2	301.2
37.5°	279.0	282.1	285.3	288.5	289.5	291.7	293.8	294.8	294.8	294.8
40°	269.5	274.7	279.0	282.1	283.2	285.3	286.4	288.5	288.5	288.5
42.5°	261.0	265.2	268.4	272.6	273.7	276.9	279.0	280.0	281.1	281.1
45°	251.5	255.7	258.9	262.1	263.1	265.2	267.4	268.4	269.5	270.5
47.5°	242.0	245.2	248.3	251.5	252.6	254.7	256.8	257.8	258.9	258.9
50°	230.4	233.5	236.7	239.9	240.9	243.0	244.1	245.2	246.2	246.2
52.5°	217.7	220.9	224.0	227.2	228.3	229.3	231.4	232.5	233.5	233.5
55°	205.0	208.2	210.3	213.5	214.5	215.6	216.6	218.7	219.8	218.7
57.5°	190.2	193.4	195.5	198.7	199.7	200.8	201.8	202.9	203.9	203.9
60°	174.4	177.5	180.7	182.8	183.9	184.9	186.0	187.0	188.1	188.1
62.5°	158.5	161.7	163.8	167.0	168.0	168.0	169.1	170.1	171.2	171.2
65°	142.7	145.8	146.9	150.1	150.1	151.1	152.2	153.2	153.2	153.2
67.5°	125.8	128.9	130.0	132.1	132.1	133.1	134.2	135.3	135.3	135.3
70°	109.9	111.0	113.1	114.1	115.2	115.2	116.2	117.3	118.4	117.3
72.5°	93.0	94.0	96.2	97.2	97.2	98.3	98.3	99.3	100.4	100.4
75°	76.1	78.2	79.3	80.3	81.4	81.4	82.4	83.5	83.5	83.5
77.5°	60.2	62.3	63.4	64.5	65.5	65.5	66.6	66.6	67.6	66.6
80°	46.5	47.6	48.6	49.7	50.7	50.7	51.8	52.8	52.8	52.8
82.5°	33.8	34.9	37.0	38.0	38.0	38.0	40.2	40.2	41.2	40.2
85°	23.2	24.3	26.4	27.5	28.5	28.5	28.5	29.6	30.6	29.6
87.5°	14.8	16.9	18.0	19.0	19.0	19.0	20.1	21.1	21.1	21.1
90°	8.5	8.5	9.5	10.6	10.6	11.6	11.6	12.7	12.7	12.7
92.5°	8.5	9.5	9.5	9.5	10.6	10.6	10.6	11.6	11.6	11.6
95°	71.9	51.8	29.6	23.2	20.1	20.1	19.0	20.1	19.0	19.0
97.5°	217.7	235.7	244.1	255.7	262.1	261.0	256.8	261.0	257.8	261.0
100°	309.6	326.5	339.2	342.4	348.7	351.9	363.5	372.0	376.2	381.5
102.5°	384.6	404.7	419.5	428.0	434.3	438.5	452.3	465.0	471.3	475.5
105°	453.3	474.5	492.4	500.9	508.3	512.5	527.3	542.1	551.6	556.9
107.5°	508.3	532.6	551.6	564.3	571.7	579.1	597.1	611.8	623.5	628.8
110°	558.0	582.3	602.3	617.1	625.6	633.0	653.1	670.0	682.6	689.0



TEST NUMBER: P395398

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	599.2	625.6	645.7	661.5	670.0	680.5	699.6	718.6	731.3	738.7
115°	633.0	660.5	681.6	698.5	708.0	717.5	739.7	758.7	771.4	776.7
117.5°	661.5	689.0	711.2	728.1	738.7	749.2	771.4	788.3	802.1	806.3
120°	684.8	712.2	734.4	753.4	764.0	773.5	794.7	812.6	825.3	828.5
122.5°	700.6	729.1	752.4	773.5	783.0	792.5	812.6	830.6	842.2	845.4
125°	712.2	741.8	765.1	787.3	796.8	806.3	825.3	843.3	852.8	857.0
127.5°	719.6	749.2	774.6	795.7	806.3	814.7	833.8	849.6	859.1	862.3
130°	721.7	752.4	777.8	799.9	809.5	817.9	835.9	851.7	860.2	862.3
132.5°	721.7	751.3	777.8	798.9	808.4	816.9	833.8	848.6	857.0	859.1
135°	717.5	746.1	772.5	793.6	803.1	811.6	828.5	841.2	849.6	850.7
137.5°	710.1	737.6	763.0	784.1	793.6	802.1	816.9	830.6	838.0	840.1
140°	700.6	726.0	751.3	771.4	780.9	788.3	803.1	814.7	822.1	824.2
142.5°	687.9	713.3	736.5	756.6	764.0	772.5	785.1	796.8	803.1	805.2
145°	674.2	698.5	719.6	737.6	746.1	753.4	765.1	775.6	782.0	784.1
147.5°	656.2	680.5	700.6	717.5	724.9	732.3	742.9	752.4	758.7	760.8
150°	634.0	656.2	677.4	693.2	700.6	708.0	718.6	727.0	733.4	734.4
152.5°	611.8	633.0	650.9	666.8	674.2	681.6	691.1	699.6	707.0	707.0
155°	590.7	608.7	625.6	639.3	645.7	652.0	661.5	668.9	675.2	675.2
157.5°	568.5	585.4	599.2	611.8	617.1	622.4	630.9	637.2	642.5	641.4
160°	547.4	560.1	572.7	583.3	588.6	592.8	599.2	604.4	609.7	608.7
162.5°	524.1	535.8	546.3	553.7	558.0	561.1	567.5	572.7	575.9	575.9
165°	497.7	508.3	517.8	525.2	529.4	531.5	536.8	540.0	543.2	543.2
167.5°	470.2	478.7	487.2	493.5	497.7	499.8	505.1	507.2	511.5	510.4
170°	442.8	449.1	455.4	460.7	462.8	465.0	469.2	471.3	473.4	473.4
172.5°	420.6	422.7	425.9	430.1	430.1	431.1	433.3	434.3	435.4	435.4
175°	407.9	409.0	409.0	409.0	409.0	409.0	410.0	409.0	410.0	409.0
177.5°	402.6	402.6	401.6	401.6	400.5	401.6	400.5	399.4	399.4	398.4
180°	400.5	400.5	400.5	400.5	400.5	400.5	400.5	400.5	400.5	400.5

(END OF REPORT)