

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: P395396

Luminaire Tested: **I3-CL-40L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395396
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 (4000K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3893.7 lumens
Efficiency: N/A
Efficacy: 136.6 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

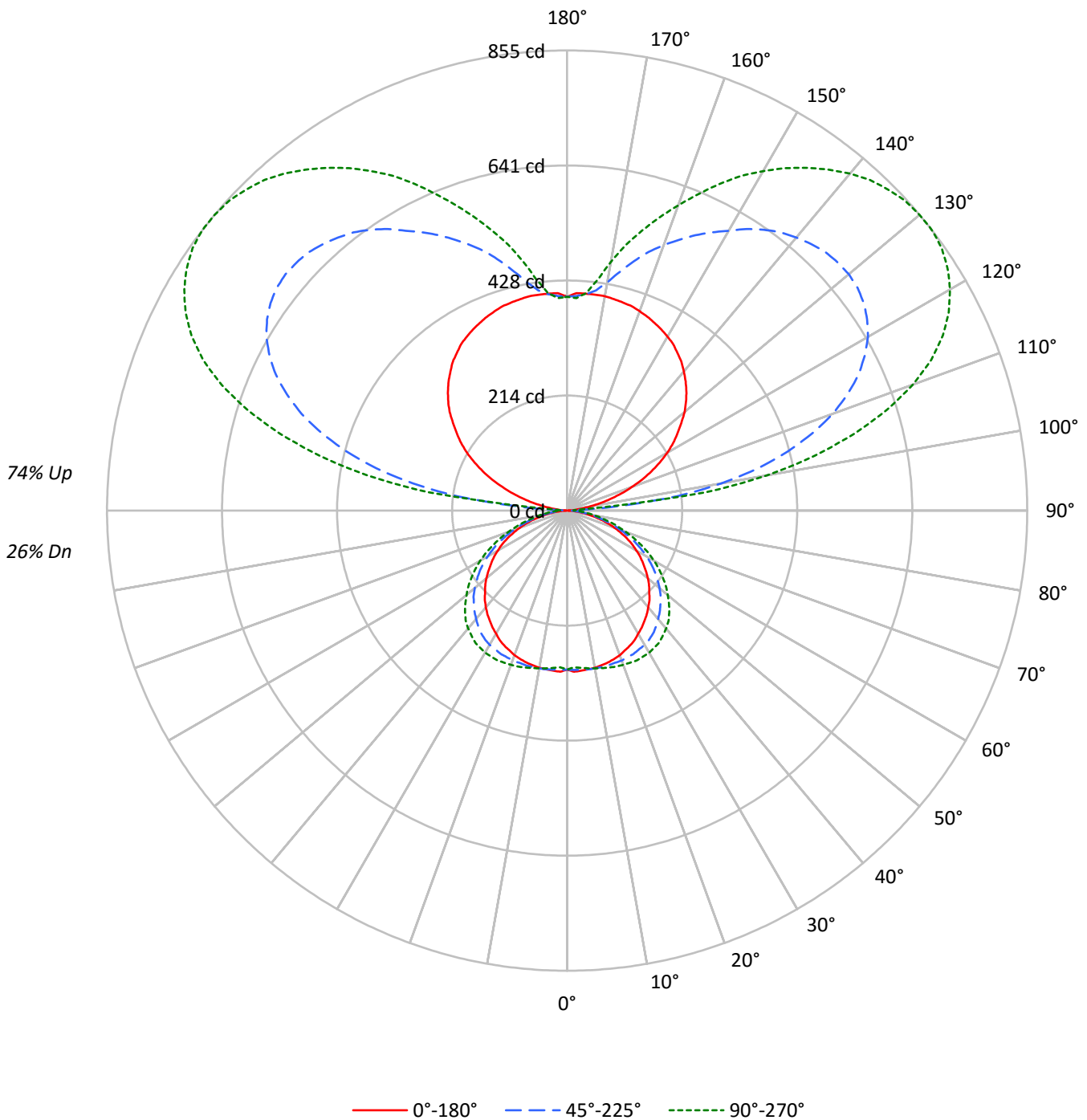
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395396

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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	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°	1624	1624	1624
5°	1641	1599	1573
10°	1643	1587	1569
15°	1645	1581	1577
20°	1647	1581	1590
25°	1645	1583	1611
30°	1635	1585	1623
35°	1632	1577	1624
40°	1626	1543	1604
45°	1609	1506	1564
50°	1594	1456	1494
55°	1562	1383	1408
60°	1523	1286	1300
65°	1461	1155	1152
70°	1357	983	976
75°	1171	781	784
80°	908	555	574
85°	535	344	384



TEST NUMBER: P395396

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	0.7
10°-20°	84.0	2.2
20°-30°	134.7	3.5
30°-40°	172.2	4.4
40°-50°	187.8	4.8
50°-60°	175.9	4.5
60°-70°	136.5	3.5
70°-80°	78.2	2.0
80°-90°	25.0	0.6
90°-100°	100.4	2.6
100°-110°	390.4	10.0
110°-120°	531.5	13.6
120°-130°	551.7	14.2
130°-140°	489.4	12.6
140°-150°	379.7	9.8
150°-160°	253.4	6.5
160°-170°	135.1	3.5
170°-180°	39.5	1.0
0°-30°	246.9	6.3
0°-40°	419.1	10.8
0°-60°	782.9	20.1
0°-90°	1022.6	26.3
90°-120°	1022.3	26.3
90°-150°	2443.0	62.7
90°-180°	2871.0	73.7
0°-180°	3893.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	296	296	296	296	296	
5°	299	296	296	296	293	28
15°	292	291	298	302	302	83
25°	277	279	293	304	307	127
35°	250	256	279	293	299	157
45°	216	225	245	261	268	167
55°	173	182	199	213	217	155
65°	123	128	139	149	152	121
75°	64	67	73	81	83	68
85°	13	15	22	28	29	15
90°	1	3	7	10	13	1
95°	13	71	97	20	19	17
105°	83	250	424	504	552	88
115°	173	387	597	702	770	170
125°	250	456	673	790	850	224
135°	313	480	679	796	844	241
145°	357	480	637	740	777	224
155°	384	454	565	640	670	178
165°	400	417	480	525	539	113
175°	404	402	403	406	406	39
180°	397	397	397	397	397	



TEST NUMBER: P395396

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5
2.5°	299.7	298.6	298.6	296.5	296.5	295.5	295.5	295.5	295.5	295.5	296.5
5°	298.6	298.6	297.6	296.5	296.5	295.5	295.5	295.5	295.5	295.5	296.5
7.5°	297.6	297.6	296.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	297.6
10°	296.5	296.5	295.5	294.4	294.4	294.4	294.4	295.5	295.5	295.5	297.6
12.5°	294.4	293.4	293.4	292.3	292.3	292.3	293.4	293.4	294.4	295.5	297.6
15°	292.3	292.3	291.3	290.2	291.3	291.3	291.3	292.3	293.4	294.4	297.6
17.5°	289.2	289.2	288.1	288.1	288.1	289.2	289.2	290.2	292.3	294.4	296.5
20°	286.0	285.0	285.0	285.0	286.0	286.0	287.1	289.2	290.2	293.4	296.5
22.5°	280.8	281.9	280.8	280.8	281.9	282.9	283.9	286.0	288.1	291.3	294.4
25°	276.6	276.6	276.6	276.6	278.7	278.7	280.8	282.9	286.0	289.2	293.4
27.5°	271.4	271.4	271.4	272.4	273.5	274.5	275.6	278.7	281.9	286.0	290.2
30°	264.0	264.0	264.0	264.0	267.2	268.2	270.3	274.5	277.7	282.9	288.1
32.5°	257.8	257.8	257.8	258.8	260.9	261.9	264.0	269.3	273.5	278.7	283.9
35°	250.4	250.4	251.5	251.5	254.6	255.7	257.8	261.9	266.1	272.4	278.7
37.5°	243.1	243.1	244.1	245.2	247.3	249.4	251.5	255.7	259.8	265.1	271.4
40°	234.7	234.7	235.7	236.8	239.9	242.0	244.1	248.3	252.5	257.8	263.0
42.5°	226.3	226.3	227.4	228.4	231.6	233.7	235.7	241.0	245.2	250.4	254.6
45°	215.8	216.9	217.9	220.0	223.2	225.3	227.4	231.6	236.8	241.0	245.2
47.5°	206.4	207.5	208.5	210.6	213.7	215.8	217.9	222.1	226.3	230.5	235.7
50°	195.9	197.0	198.0	200.1	203.3	205.4	207.5	211.7	215.8	219.0	224.2
52.5°	184.4	185.5	186.5	188.6	192.8	193.8	195.9	200.1	203.3	207.5	211.7
55°	172.9	173.9	175.0	177.1	180.2	182.3	183.4	187.6	190.7	194.9	199.1
57.5°	161.4	162.4	163.5	165.5	167.6	169.7	170.8	173.9	178.1	181.3	185.5
60°	148.8	149.8	150.9	151.9	155.1	156.1	157.2	160.3	163.5	167.6	170.8
62.5°	136.2	136.2	137.3	138.3	141.4	142.5	143.5	145.6	149.8	151.9	155.1
65°	122.6	122.6	123.6	124.7	126.8	127.8	128.9	131.0	134.1	136.2	139.4
67.5°	107.9	107.9	109.0	110.0	112.1	113.2	113.2	116.3	118.4	120.5	122.6
70°	94.3	94.3	95.3	95.3	96.4	97.4	98.5	100.6	101.6	104.8	105.8
72.5°	79.6	79.6	79.6	79.6	81.7	81.7	82.8	84.9	85.9	88.0	90.1
75°	63.9	63.9	65.0	65.0	66.0	67.1	68.1	69.2	71.2	72.3	73.3
77.5°	50.3	49.2	50.3	51.3	52.4	52.4	53.4	54.5	55.5	57.6	58.7
80°	35.6	35.6	35.6	36.7	37.7	37.7	38.8	39.8	40.9	43.0	44.0
82.5°	23.1	23.1	24.1	24.1	25.1	26.2	26.2	27.2	28.3	30.4	31.4
85°	12.6	12.6	12.6	13.6	14.7	14.7	15.7	16.8	18.9	19.9	22.0
87.5°	4.2	4.2	5.2	6.3	7.3	7.3	8.4	9.4	10.5	12.6	13.6
90°	1.0	1.0	1.0	2.1	2.1	3.1	3.1	4.2	5.2	6.3	7.3
92.5°	4.2	7.3	11.5	16.8	15.7	16.8	11.5	7.3	7.3	7.3	8.4
95°	12.6	18.9	30.4	48.2	62.9	71.2	78.6	85.9	100.6	101.6	97.4
97.5°	25.1	34.6	55.5	78.6	104.8	118.4	128.9	150.9	173.9	188.6	206.4
100°	41.9	55.5	82.8	114.2	144.6	162.4	179.2	210.6	238.9	264.0	291.3
102.5°	61.8	77.5	111.1	149.8	187.6	207.5	225.3	261.9	300.7	334.2	363.6
105°	82.8	100.6	140.4	184.4	227.4	250.4	272.4	312.2	353.1	389.8	424.3
107.5°	105.8	124.7	167.6	216.9	265.1	291.3	315.4	358.3	401.3	441.1	477.8
110°	127.8	148.8	193.8	247.3	301.8	328.0	352.1	399.2	444.3	486.2	524.9



TEST NUMBER: P395396

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	150.9	172.9	217.9	276.6	332.1	359.4	384.5	434.8	482.0	524.9	563.7
115°	172.9	193.8	241.0	301.8	358.3	386.6	413.9	465.2	514.5	557.4	597.2
117.5°	193.8	213.7	261.9	322.7	381.4	409.7	436.9	490.4	539.6	584.7	623.4
120°	214.8	232.6	285.0	340.5	400.2	428.5	456.8	510.3	560.6	605.6	645.4
122.5°	233.7	250.4	301.8	356.2	414.9	444.3	471.5	526.0	577.3	622.4	661.1
125°	250.4	266.1	317.5	368.8	427.5	455.8	484.1	537.5	588.8	632.9	672.7
127.5°	267.2	282.9	329.0	381.4	435.9	465.2	492.5	545.9	596.2	641.2	680.0
130°	285.0	296.5	340.5	392.9	444.3	471.5	499.8	551.1	600.4	644.4	683.1
132.5°	299.7	310.1	352.1	402.3	450.5	476.7	501.9	553.2	602.5	644.4	682.1
135°	313.3	321.7	360.4	410.7	455.8	479.9	504.0	552.2	600.4	642.3	679.0
137.5°	325.9	334.2	367.8	417.0	460.0	480.9	504.0	549.0	595.1	637.0	671.6
140°	337.4	343.7	374.1	420.2	462.1	482.0	501.9	543.8	586.8	627.6	662.2
142.5°	348.9	354.1	379.3	422.3	463.1	482.0	500.8	537.5	577.3	617.1	651.7
145°	357.3	362.5	383.5	423.3	462.1	479.9	496.6	531.2	566.8	603.5	637.0
147.5°	366.7	370.9	387.7	421.2	458.9	475.7	491.4	522.8	555.3	588.8	620.3
150°	373.0	377.2	389.8	419.1	453.7	469.4	485.1	514.5	543.8	573.1	600.4
152.5°	379.3	382.4	392.9	416.0	447.4	462.1	476.7	505.0	532.3	558.5	582.6
155°	384.5	387.7	395.0	413.9	440.1	453.7	467.3	494.5	519.7	542.7	564.7
157.5°	389.8	391.9	397.1	410.7	431.7	444.3	456.8	480.9	504.0	527.0	544.8
160°	394.0	395.0	399.2	409.7	424.3	433.8	445.3	467.3	488.3	508.2	524.9
162.5°	398.2	398.2	401.3	407.6	418.1	424.3	432.7	451.6	470.5	488.3	504.0
165°	400.2	400.2	402.3	406.5	412.8	417.0	422.3	434.8	449.5	465.2	479.9
167.5°	402.3	402.3	403.4	405.5	409.7	411.8	413.9	422.3	431.7	443.2	454.7
170°	404.4	403.4	403.4	405.5	406.5	407.6	408.6	412.8	417.0	424.3	430.6
172.5°	404.4	403.4	403.4	404.4	404.4	404.4	404.4	405.5	406.5	410.7	412.8
175°	404.4	403.4	403.4	403.4	403.4	402.3	402.3	402.3	402.3	402.3	403.4
177.5°	404.4	403.4	402.3	402.3	401.3	401.3	400.2	400.2	399.2	399.2	399.2
180°	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1



TEST NUMBER: P395396

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5	295.5
2.5°	296.5	296.5	295.5	295.5	294.4	294.4	293.4	292.3	291.3	291.3
5°	297.6	296.5	295.5	295.5	295.5	294.4	294.4	294.4	293.4	293.4
7.5°	297.6	297.6	297.6	296.5	296.5	296.5	296.5	296.5	295.5	295.5
10°	298.6	298.6	298.6	298.6	298.6	298.6	298.6	297.6	297.6	297.6
12.5°	298.6	298.6	298.6	299.7	299.7	299.7	299.7	299.7	299.7	299.7
15°	299.7	299.7	300.7	300.7	301.8	301.8	302.8	302.8	302.8	301.8
17.5°	298.6	299.7	300.7	301.8	302.8	302.8	303.9	303.9	303.9	303.9
20°	298.6	300.7	301.8	302.8	303.9	303.9	304.9	305.9	305.9	304.9
22.5°	297.6	299.7	300.7	302.8	303.9	303.9	305.9	305.9	305.9	305.9
25°	296.5	298.6	300.7	302.8	303.9	303.9	305.9	305.9	307.0	307.0
27.5°	294.4	296.5	299.7	301.8	302.8	303.9	304.9	305.9	305.9	305.9
30°	291.3	294.4	297.6	299.7	300.7	301.8	302.8	303.9	304.9	304.9
32.5°	287.1	290.2	293.4	296.5	297.6	298.6	300.7	301.8	301.8	301.8
35°	282.9	286.0	289.2	292.3	293.4	294.4	296.5	297.6	298.6	298.6
37.5°	276.6	279.8	282.9	286.0	287.1	289.2	291.3	292.3	292.3	292.3
40°	267.2	272.4	276.6	279.8	280.8	282.9	283.9	286.0	286.0	286.0
42.5°	258.8	263.0	266.1	270.3	271.4	274.5	276.6	277.7	278.7	278.7
45°	249.4	253.6	256.7	259.8	260.9	263.0	265.1	266.1	267.2	268.2
47.5°	239.9	243.1	246.2	249.4	250.4	252.5	254.6	255.7	256.7	256.7
50°	228.4	231.6	234.7	237.8	238.9	241.0	242.0	243.1	244.1	244.1
52.5°	215.8	219.0	222.1	225.3	226.3	227.4	229.5	230.5	231.6	231.6
55°	203.3	206.4	208.5	211.7	212.7	213.7	214.8	216.9	217.9	216.9
57.5°	188.6	191.7	193.8	197.0	198.0	199.1	200.1	201.2	202.2	202.2
60°	172.9	176.0	179.2	181.3	182.3	183.4	184.4	185.5	186.5	186.5
62.5°	157.2	160.3	162.4	165.5	166.6	166.6	167.6	168.7	169.7	169.7
65°	141.4	144.6	145.6	148.8	148.8	149.8	150.9	151.9	151.9	151.9
67.5°	124.7	127.8	128.9	131.0	131.0	132.0	133.1	134.1	134.1	134.1
70°	109.0	110.0	112.1	113.2	114.2	114.2	115.3	116.3	117.4	116.3
72.5°	92.2	93.3	95.3	96.4	96.4	97.4	97.4	98.5	99.5	99.5
75°	75.4	77.5	78.6	79.6	80.7	80.7	81.7	82.8	82.8	82.8
77.5°	59.7	61.8	62.9	63.9	65.0	65.0	66.0	66.0	67.1	66.0
80°	46.1	47.1	48.2	49.2	50.3	50.3	51.3	52.4	52.4	52.4
82.5°	33.5	34.6	36.7	37.7	37.7	37.7	39.8	39.8	40.9	39.8
85°	23.1	24.1	26.2	27.2	28.3	28.3	28.3	29.3	30.4	29.3
87.5°	14.7	16.8	17.8	18.9	18.9	18.9	19.9	21.0	21.0	21.0
90°	8.4	8.4	9.4	10.5	10.5	11.5	11.5	12.6	12.6	12.6
92.5°	8.4	9.4	9.4	9.4	10.5	10.5	10.5	11.5	11.5	11.5
95°	71.2	51.3	29.3	23.1	19.9	19.9	18.9	19.9	18.9	18.9
97.5°	215.8	233.7	242.0	253.6	259.8	258.8	254.6	258.8	255.7	258.8
100°	307.0	323.8	336.3	339.5	345.8	348.9	360.4	368.8	373.0	378.2
102.5°	381.4	401.3	416.0	424.3	430.6	434.8	448.4	461.0	467.3	471.5
105°	449.5	470.5	488.3	496.6	504.0	508.2	522.8	537.5	546.9	552.2
107.5°	504.0	528.1	546.9	559.5	566.8	574.2	592.0	606.7	618.2	623.4
110°	553.2	577.3	597.2	611.9	620.3	627.6	647.5	664.3	676.9	683.1



TEST NUMBER: P395396

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	594.1	620.3	640.2	655.9	664.3	674.8	693.6	712.5	725.1	732.4
115°	627.6	654.9	675.8	692.6	702.0	711.4	733.4	752.3	764.9	770.1
117.5°	655.9	683.1	705.2	721.9	732.4	742.9	764.9	781.6	795.3	799.5
120°	679.0	706.2	728.2	747.1	757.5	767.0	787.9	805.7	818.3	821.5
122.5°	694.7	723.0	746.0	767.0	776.4	785.8	805.7	823.5	835.1	838.2
125°	706.2	735.5	758.6	780.6	790.0	799.5	818.3	836.1	845.6	849.7
127.5°	713.5	742.9	768.0	789.0	799.5	807.8	826.7	842.4	851.8	855.0
130°	715.6	746.0	771.2	793.2	802.6	811.0	828.8	844.5	852.9	855.0
132.5°	715.6	745.0	771.2	792.1	801.5	809.9	826.7	841.4	849.7	851.8
135°	711.4	739.7	765.9	786.9	796.3	804.7	821.5	834.0	842.4	843.5
137.5°	704.1	731.3	756.5	777.4	786.9	795.3	809.9	823.5	830.9	833.0
140°	694.7	719.8	745.0	764.9	774.3	781.6	796.3	807.8	815.2	817.3
142.5°	682.1	707.2	730.3	750.2	757.5	765.9	778.5	790.0	796.3	798.4
145°	668.5	692.6	713.5	731.3	739.7	747.1	758.6	769.1	775.4	777.4
147.5°	650.7	674.8	694.7	711.4	718.8	726.1	736.6	746.0	752.3	754.4
150°	628.7	650.7	671.6	687.3	694.7	702.0	712.5	720.9	727.2	728.2
152.5°	606.7	627.6	645.4	661.1	668.5	675.8	685.2	693.6	701.0	701.0
155°	585.7	603.5	620.3	633.9	640.2	646.5	655.9	663.2	669.5	669.5
157.5°	563.7	580.5	594.1	606.7	611.9	617.1	625.5	631.8	637.0	636.0
160°	542.7	555.3	567.9	578.4	583.6	587.8	594.1	599.3	604.6	603.5
162.5°	519.7	531.2	541.7	549.0	553.2	556.4	562.7	567.9	571.0	571.0
165°	493.5	504.0	513.4	520.7	524.9	527.0	532.3	535.4	538.6	538.6
167.5°	466.3	474.6	483.0	489.3	493.5	495.6	500.8	502.9	507.1	506.1
170°	439.0	445.3	451.6	456.8	458.9	461.0	465.2	467.3	469.4	469.4
172.5°	417.0	419.1	422.3	426.4	426.4	427.5	429.6	430.6	431.7	431.7
175°	404.4	405.5	405.5	405.5	405.5	405.5	406.5	405.5	406.5	405.5
177.5°	399.2	399.2	398.2	398.2	397.1	398.2	397.1	396.1	396.1	395.0
180°	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1	397.1

(END OF REPORT)