

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: P395391

Luminaire Tested: **I3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395391
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-40L82765-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3808.6 lumens
Efficiency: N/A
Efficacy: 133.6 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

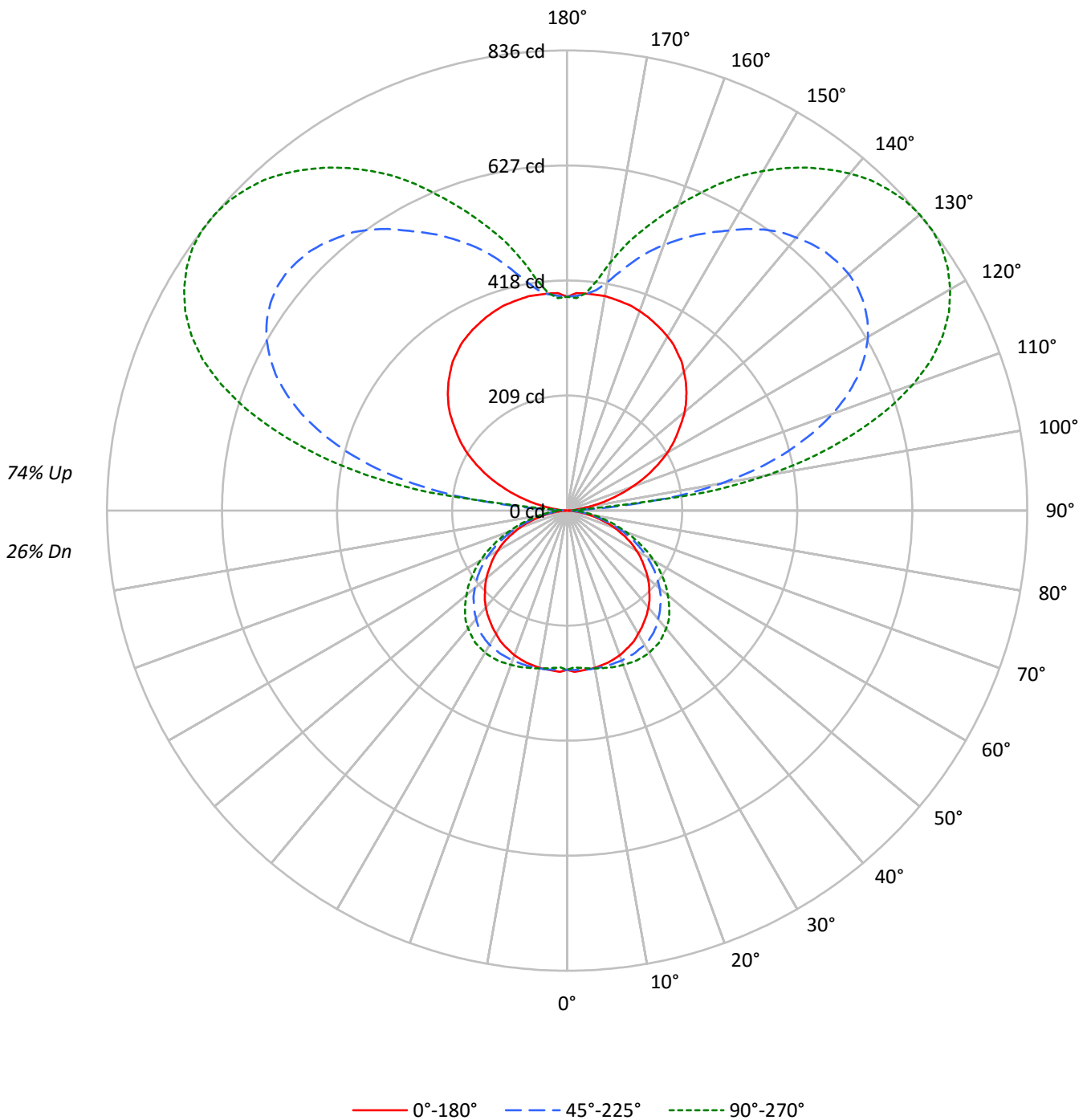
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

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°	1588	1588	1588
5°	1606	1564	1539
10°	1607	1552	1535
15°	1609	1546	1542
20°	1612	1547	1556
25°	1609	1549	1576
30°	1600	1551	1587
35°	1596	1542	1589
40°	1591	1509	1569
45°	1574	1473	1530
50°	1560	1424	1461
55°	1528	1352	1378
60°	1490	1258	1271
65°	1429	1129	1127
70°	1327	961	955
75°	1145	764	767
80°	887	543	561
85°	522	336	376



TEST NUMBER: P395391

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	0.7
10°-20°	82.2	2.2
20°-30°	131.7	3.5
30°-40°	168.5	4.4
40°-50°	183.7	4.8
50°-60°	172.1	4.5
60°-70°	133.5	3.5
70°-80°	76.5	2.0
80°-90°	24.5	0.6
90°-100°	98.2	2.6
100°-110°	381.9	10.0
110°-120°	519.9	13.6
120°-130°	539.6	14.2
130°-140°	478.7	12.6
140°-150°	371.4	9.8
150°-160°	247.9	6.5
160°-170°	132.1	3.5
170°-180°	38.7	1.0
0°-30°	241.5	6.3
0°-40°	410.0	10.8
0°-60°	765.8	20.1
0°-90°	1000.3	26.3
90°-120°	1000.0	26.3
90°-150°	2389.7	62.7
90°-180°	2808.0	73.7
0°-180°	3808.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	289	289	289	289	289	
5°	292	289	290	289	287	28
15°	286	285	291	295	295	81
25°	271	273	287	297	300	125
35°	245	250	273	287	292	153
45°	211	220	240	255	262	163
55°	169	178	195	208	212	151
65°	120	125	136	146	149	118
75°	62	66	72	79	81	67
85°	12	14	22	28	29	15
90°	1	3	7	10	12	1
95°	12	70	95	20	18	16
105°	81	245	415	493	540	86
115°	169	378	584	687	753	167
125°	245	446	658	773	831	219
135°	306	469	664	779	825	236
145°	350	469	623	724	760	219
155°	376	444	552	626	655	174
165°	392	408	469	514	527	111
175°	396	394	395	397	397	38
180°	388	388	388	388	388	



TEST NUMBER: P395391

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	293.1	292.1	292.1	290.0	290.0	289.0	289.0	289.0	289.0	289.0	290.0
5°	292.1	292.1	291.1	290.0	290.0	289.0	289.0	289.0	289.0	289.0	290.0
7.5°	291.1	291.1	290.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	291.1
10°	290.0	290.0	289.0	288.0	288.0	288.0	288.0	289.0	289.0	289.0	291.1
12.5°	288.0	287.0	287.0	285.9	285.9	285.9	287.0	287.0	288.0	289.0	291.1
15°	285.9	285.9	284.9	283.9	284.9	284.9	284.9	285.9	287.0	288.0	291.1
17.5°	282.9	282.9	281.8	281.8	281.8	282.9	282.9	283.9	285.9	288.0	290.0
20°	279.8	278.8	278.8	278.8	279.8	279.8	280.8	282.9	283.9	287.0	290.0
22.5°	274.7	275.7	274.7	274.7	275.7	276.7	277.7	279.8	281.8	284.9	288.0
25°	270.6	270.6	270.6	270.6	272.6	272.6	274.7	276.7	279.8	282.9	287.0
27.5°	265.4	265.4	265.4	266.5	267.5	268.5	269.5	272.6	275.7	279.8	283.9
30°	258.3	258.3	258.3	258.3	261.3	262.4	264.4	268.5	271.6	276.7	281.8
32.5°	252.1	252.1	252.1	253.1	255.2	256.2	258.3	263.4	267.5	272.6	277.7
35°	244.9	244.9	246.0	246.0	249.0	250.1	252.1	256.2	260.3	266.5	272.6
37.5°	237.8	237.8	238.8	239.8	241.9	243.9	246.0	250.1	254.2	259.3	265.4
40°	229.6	229.6	230.6	231.6	234.7	236.7	238.8	242.9	247.0	252.1	257.2
42.5°	221.4	221.4	222.4	223.4	226.5	228.5	230.6	235.7	239.8	244.9	249.0
45°	211.1	212.2	213.2	215.2	218.3	220.4	222.4	226.5	231.6	235.7	239.8
47.5°	201.9	202.9	204.0	206.0	209.1	211.1	213.2	217.3	221.4	225.5	230.6
50°	191.7	192.7	193.7	195.8	198.8	200.9	202.9	207.0	211.1	214.2	219.3
52.5°	180.4	181.4	182.4	184.5	188.6	189.6	191.7	195.8	198.8	202.9	207.0
55°	169.1	170.1	171.2	173.2	176.3	178.3	179.4	183.5	186.5	190.6	194.7
57.5°	157.8	158.9	159.9	161.9	164.0	166.0	167.1	170.1	174.2	177.3	181.4
60°	145.5	146.6	147.6	148.6	151.7	152.7	153.7	156.8	159.9	164.0	167.1
62.5°	133.2	133.2	134.3	135.3	138.4	139.4	140.4	142.5	146.6	148.6	151.7
65°	119.9	119.9	120.9	122.0	124.0	125.0	126.1	128.1	131.2	133.2	136.3
67.5°	105.6	105.6	106.6	107.6	109.7	110.7	110.7	113.8	115.8	117.9	119.9
70°	92.2	92.2	93.3	93.3	94.3	95.3	96.3	98.4	99.4	102.5	103.5
72.5°	77.9	77.9	77.9	77.9	79.9	79.9	81.0	83.0	84.0	86.1	88.1
75°	62.5	62.5	63.5	63.5	64.6	65.6	66.6	67.6	69.7	70.7	71.7
77.5°	49.2	48.2	49.2	50.2	51.2	51.2	52.3	53.3	54.3	56.4	57.4
80°	34.8	34.8	34.8	35.9	36.9	36.9	37.9	38.9	40.0	42.0	43.0
82.5°	22.5	22.5	23.6	23.6	24.6	25.6	25.6	26.6	27.7	29.7	30.7
85°	12.3	12.3	12.3	13.3	14.3	14.3	15.4	16.4	18.4	19.5	21.5
87.5°	4.1	4.1	5.1	6.1	7.2	7.2	8.2	9.2	10.2	12.3	13.3
90°	1.0	1.0	1.0	2.0	2.0	3.1	3.1	4.1	5.1	6.1	7.2
92.5°	4.1	7.2	11.3	16.4	15.4	16.4	11.3	7.2	7.2	7.2	8.2
95°	12.3	18.4	29.7	47.1	61.5	69.7	76.9	84.0	98.4	99.4	95.3
97.5°	24.6	33.8	54.3	76.9	102.5	115.8	126.1	147.6	170.1	184.5	201.9
100°	41.0	54.3	81.0	111.7	141.4	158.9	175.3	206.0	233.7	258.3	284.9
102.5°	60.5	75.8	108.6	146.6	183.5	202.9	220.4	256.2	294.1	326.9	355.6
105°	81.0	98.4	137.3	180.4	222.4	244.9	266.5	305.4	345.4	381.3	415.1
107.5°	103.5	122.0	164.0	212.2	259.3	284.9	308.5	350.5	392.5	431.5	467.3
110°	125.0	145.5	189.6	241.9	295.2	320.8	344.4	390.5	434.6	475.5	513.5



TEST NUMBER: P395391

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	147.6	169.1	213.2	270.6	324.9	351.5	376.1	425.3	471.4	513.5	551.4
115°	169.1	189.6	235.7	295.2	350.5	378.2	404.8	455.0	503.2	545.2	584.2
117.5°	189.6	209.1	256.2	315.7	373.1	400.7	427.4	479.6	527.8	571.9	609.8
120°	210.1	227.5	278.8	333.1	391.5	419.2	446.9	499.1	548.3	592.4	631.3
122.5°	228.5	244.9	295.2	348.5	405.9	434.6	461.2	514.5	564.7	608.8	646.7
125°	244.9	260.3	310.5	360.8	418.2	445.8	473.5	525.8	576.0	619.0	658.0
127.5°	261.3	276.7	321.8	373.1	426.4	455.0	481.7	534.0	583.2	627.2	665.2
130°	278.8	290.0	333.1	384.3	434.6	461.2	488.9	539.1	587.3	630.3	668.2
132.5°	293.1	303.4	344.4	393.6	440.7	466.3	490.9	541.1	589.3	630.3	667.2
135°	306.4	314.6	352.6	401.8	445.8	469.4	493.0	540.1	587.3	628.3	664.1
137.5°	318.7	326.9	359.7	407.9	449.9	470.4	493.0	537.0	582.1	623.1	657.0
140°	330.0	336.2	365.9	411.0	452.0	471.4	490.9	531.9	573.9	613.9	647.7
142.5°	341.3	346.4	371.0	413.0	453.0	471.4	489.9	525.8	564.7	603.7	637.5
145°	349.5	354.6	375.1	414.1	452.0	469.4	485.8	519.6	554.5	590.3	623.1
147.5°	358.7	362.8	379.2	412.0	448.9	465.3	480.7	511.4	543.2	576.0	606.7
150°	364.9	369.0	381.3	410.0	443.8	459.1	474.5	503.2	531.9	560.6	587.3
152.5°	371.0	374.1	384.3	406.9	437.6	452.0	466.3	494.0	520.6	546.3	569.8
155°	376.1	379.2	386.4	404.8	430.5	443.8	457.1	483.7	508.3	530.9	552.4
157.5°	381.3	383.3	388.4	401.8	422.3	434.6	446.9	470.4	493.0	515.5	532.9
160°	385.4	386.4	390.5	400.7	415.1	424.3	435.6	457.1	477.6	497.1	513.5
162.5°	389.5	389.5	392.5	398.7	408.9	415.1	423.3	441.7	460.2	477.6	493.0
165°	391.5	391.5	393.6	397.7	403.8	407.9	413.0	425.3	439.7	455.0	469.4
167.5°	393.6	393.6	394.6	396.6	400.7	402.8	404.8	413.0	422.3	433.5	444.8
170°	395.6	394.6	394.6	396.6	397.7	398.7	399.7	403.8	407.9	415.1	421.2
172.5°	395.6	394.6	394.6	395.6	395.6	395.6	395.6	396.6	397.7	401.8	403.8
175°	395.6	394.6	394.6	394.6	394.6	393.6	393.6	393.6	393.6	393.6	394.6
177.5°	395.6	394.6	393.6	393.6	392.5	392.5	391.5	391.5	390.5	390.5	390.5
180°	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4



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CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	290.0	290.0	289.0	289.0	288.0	288.0	287.0	285.9	284.9	284.9
5°	291.1	290.0	289.0	289.0	289.0	288.0	288.0	288.0	287.0	287.0
7.5°	291.1	291.1	291.1	290.0	290.0	290.0	290.0	290.0	289.0	289.0
10°	292.1	292.1	292.1	292.1	292.1	292.1	292.1	291.1	291.1	291.1
12.5°	292.1	292.1	292.1	293.1	293.1	293.1	293.1	293.1	293.1	293.1
15°	293.1	293.1	294.1	294.1	295.2	295.2	296.2	296.2	296.2	295.2
17.5°	292.1	293.1	294.1	295.2	296.2	296.2	297.2	297.2	297.2	297.2
20°	292.1	294.1	295.2	296.2	297.2	297.2	298.2	299.3	299.3	298.2
22.5°	291.1	293.1	294.1	296.2	297.2	297.2	299.3	299.3	299.3	299.3
25°	290.0	292.1	294.1	296.2	297.2	297.2	299.3	299.3	300.3	300.3
27.5°	288.0	290.0	293.1	295.2	296.2	297.2	298.2	299.3	299.3	299.3
30°	284.9	288.0	291.1	293.1	294.1	295.2	296.2	297.2	298.2	298.2
32.5°	280.8	283.9	287.0	290.0	291.1	292.1	294.1	295.2	295.2	295.2
35°	276.7	279.8	282.9	285.9	287.0	288.0	290.0	291.1	292.1	292.1
37.5°	270.6	273.6	276.7	279.8	280.8	282.9	284.9	285.9	285.9	285.9
40°	261.3	266.5	270.6	273.6	274.7	276.7	277.7	279.8	279.8	279.8
42.5°	253.1	257.2	260.3	264.4	265.4	268.5	270.6	271.6	272.6	272.6
45°	243.9	248.0	251.1	254.2	255.2	257.2	259.3	260.3	261.3	262.4
47.5°	234.7	237.8	240.8	243.9	244.9	247.0	249.0	250.1	251.1	251.1
50°	223.4	226.5	229.6	232.6	233.7	235.7	236.7	237.8	238.8	238.8
52.5°	211.1	214.2	217.3	220.4	221.4	222.4	224.5	225.5	226.5	226.5
55°	198.8	201.9	204.0	207.0	208.1	209.1	210.1	212.2	213.2	212.2
57.5°	184.5	187.6	189.6	192.7	193.7	194.7	195.8	196.8	197.8	197.8
60°	169.1	172.2	175.3	177.3	178.3	179.4	180.4	181.4	182.4	182.4
62.5°	153.7	156.8	158.9	161.9	163.0	163.0	164.0	165.0	166.0	166.0
65°	138.4	141.4	142.5	145.5	145.5	146.6	147.6	148.6	148.6	148.6
67.5°	122.0	125.0	126.1	128.1	128.1	129.1	130.2	131.2	131.2	131.2
70°	106.6	107.6	109.7	110.7	111.7	111.7	112.7	113.8	114.8	113.8
72.5°	90.2	91.2	93.3	94.3	94.3	95.3	95.3	96.3	97.4	97.4
75°	73.8	75.8	76.9	77.9	78.9	78.9	79.9	81.0	81.0	81.0
77.5°	58.4	60.5	61.5	62.5	63.5	63.5	64.6	64.6	65.6	64.6
80°	45.1	46.1	47.1	48.2	49.2	49.2	50.2	51.2	51.2	51.2
82.5°	32.8	33.8	35.9	36.9	36.9	36.9	38.9	38.9	40.0	38.9
85°	22.5	23.6	25.6	26.6	27.7	27.7	27.7	28.7	29.7	28.7
87.5°	14.3	16.4	17.4	18.4	18.4	18.4	19.5	20.5	20.5	20.5
90°	8.2	8.2	9.2	10.2	10.2	11.3	11.3	12.3	12.3	12.3
92.5°	8.2	9.2	9.2	9.2	10.2	10.2	10.2	11.3	11.3	11.3
95°	69.7	50.2	28.7	22.5	19.5	19.5	18.4	19.5	18.4	18.4
97.5°	211.1	228.5	236.7	248.0	254.2	253.1	249.0	253.1	250.1	253.1
100°	300.3	316.7	329.0	332.1	338.2	341.3	352.6	360.8	364.9	370.0
102.5°	373.1	392.5	406.9	415.1	421.2	425.3	438.7	451.0	457.1	461.2
105°	439.7	460.2	477.6	485.8	493.0	497.1	511.4	525.8	535.0	540.1
107.5°	493.0	516.5	535.0	547.3	554.5	561.6	579.1	593.4	604.7	609.8
110°	541.1	564.7	584.2	598.5	606.7	613.9	633.4	649.8	662.1	668.2



TEST NUMBER: P395391

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	581.1	606.7	626.2	641.6	649.8	660.0	678.5	696.9	709.2	716.4
115°	613.9	640.6	661.1	677.5	686.7	695.9	717.4	735.9	748.2	753.3
117.5°	641.6	668.2	689.7	706.1	716.4	726.6	748.2	764.6	777.9	782.0
120°	664.1	690.8	712.3	730.7	741.0	750.2	770.7	788.1	800.4	803.5
122.5°	679.5	707.2	729.7	750.2	759.4	768.7	788.1	805.6	816.8	819.9
125°	690.8	719.5	742.0	763.5	772.8	782.0	800.4	817.9	827.1	831.2
127.5°	697.9	726.6	751.2	771.7	782.0	790.2	808.6	824.0	833.2	836.3
130°	700.0	729.7	754.3	775.8	785.1	793.3	810.7	826.1	834.3	836.3
132.5°	700.0	728.7	754.3	774.8	784.0	792.2	808.6	823.0	831.2	833.2
135°	695.9	723.6	749.2	769.7	778.9	787.1	803.5	815.8	824.0	825.0
137.5°	688.7	715.4	740.0	760.5	769.7	777.9	792.2	805.6	812.7	814.8
140°	679.5	704.1	728.7	748.2	757.4	764.6	778.9	790.2	797.4	799.4
142.5°	667.2	691.8	714.3	733.8	741.0	749.2	761.5	772.8	778.9	781.0
145°	653.9	677.5	697.9	715.4	723.6	730.7	742.0	752.3	758.4	760.5
147.5°	636.5	660.0	679.5	695.9	703.1	710.2	720.5	729.7	735.9	737.9
150°	614.9	636.5	657.0	672.3	679.5	686.7	696.9	705.1	711.3	712.3
152.5°	593.4	613.9	631.3	646.7	653.9	661.1	670.3	678.5	685.6	685.6
155°	572.9	590.3	606.7	620.1	626.2	632.4	641.6	648.8	654.9	654.9
157.5°	551.4	567.8	581.1	593.4	598.5	603.7	611.9	618.0	623.1	622.1
160°	530.9	543.2	555.5	565.7	570.9	575.0	581.1	586.2	591.4	590.3
162.5°	508.3	519.6	529.9	537.0	541.1	544.2	550.4	555.5	558.6	558.6
165°	482.7	493.0	502.2	509.4	513.5	515.5	520.6	523.7	526.8	526.8
167.5°	456.1	464.3	472.5	478.6	482.7	484.8	489.9	491.9	496.0	495.0
170°	429.4	435.6	441.7	446.9	448.9	451.0	455.0	457.1	459.1	459.1
172.5°	407.9	410.0	413.0	417.1	417.1	418.2	420.2	421.2	422.3	422.3
175°	395.6	396.6	396.6	396.6	396.6	396.6	397.7	396.6	397.7	396.6
177.5°	390.5	390.5	389.5	389.5	388.4	389.5	388.4	387.4	387.4	386.4
180°	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4	388.4

(END OF REPORT)