

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: P395388

Luminaire Tested: **I3-CL-40L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395388
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 (3500K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3612.7 lumens
Efficiency: N/A
Efficacy: 129.0 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

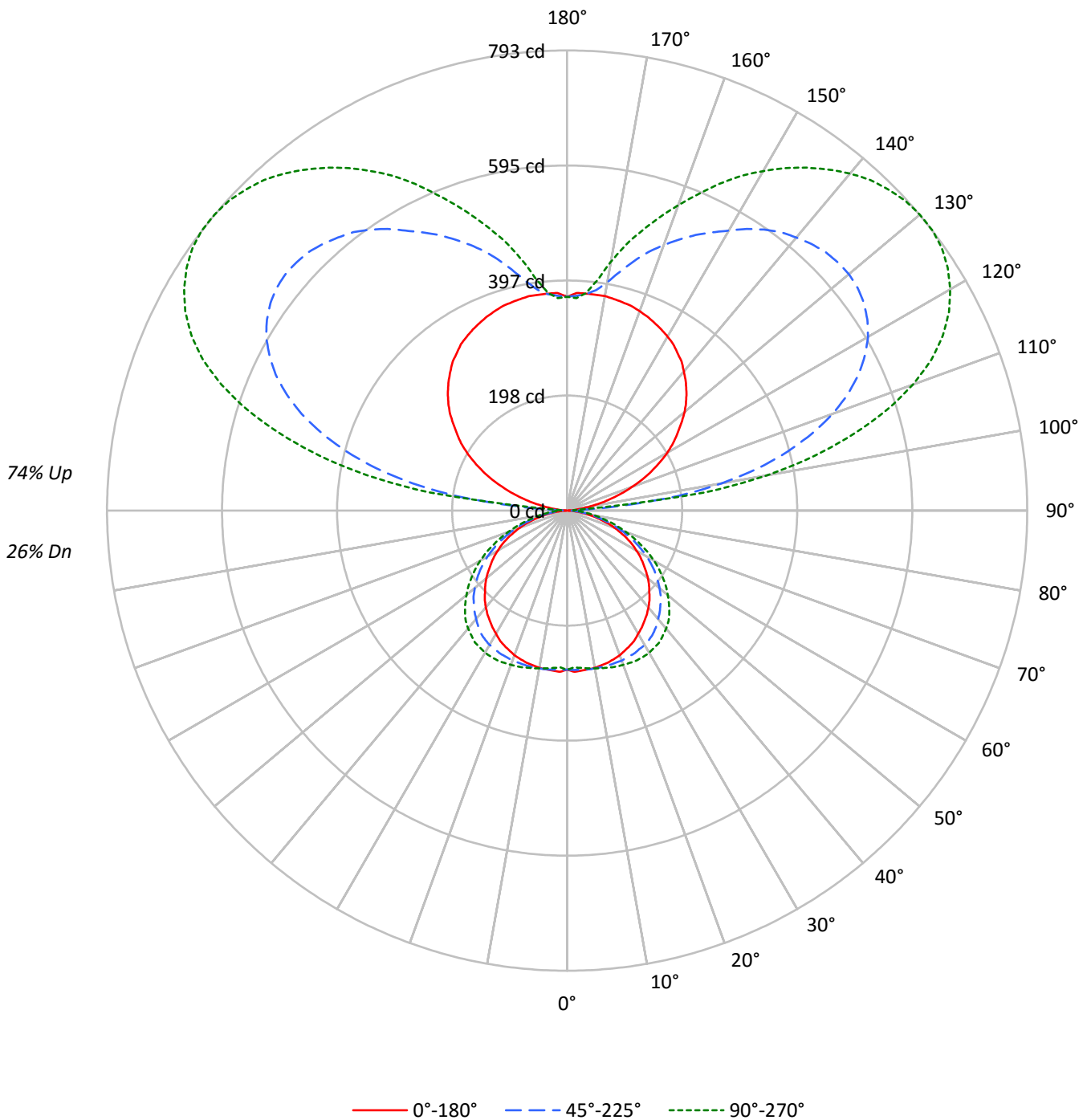
Input Watts (W): 28
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3500K)

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°	1507	1507	1507
5°	1523	1483	1459
10°	1524	1472	1455
15°	1526	1467	1463
20°	1529	1467	1476
25°	1526	1469	1495
30°	1518	1471	1506
35°	1514	1463	1507
40°	1509	1431	1488
45°	1493	1397	1451
50°	1480	1351	1386
55°	1449	1283	1306
60°	1413	1193	1206
65°	1355	1071	1069
70°	1259	912	905
75°	1087	726	727
80°	844	515	532
85°	496	319	357



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CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	0.7
10°-20°	77.9	2.2
20°-30°	124.9	3.5
30°-40°	159.8	4.4
40°-50°	174.2	4.8
50°-60°	163.2	4.5
60°-70°	126.7	3.5
70°-80°	72.6	2.0
80°-90°	23.2	0.6
90°-100°	93.2	2.6
100°-110°	362.2	10.0
110°-120°	493.1	13.6
120°-130°	511.9	14.2
130°-140°	454.1	12.6
140°-150°	352.3	9.8
150°-160°	235.1	6.5
160°-170°	125.3	3.5
170°-180°	36.7	1.0
0°-30°	229.1	6.3
0°-40°	388.9	10.8
0°-60°	726.4	20.1
0°-90°	948.8	26.3
90°-120°	948.5	26.3
90°-150°	2266.7	62.7
90°-180°	2664.0	73.7
0°-180°	3612.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	277	274	275	274	272	26
15°	271	270	276	280	280	77
25°	257	259	272	282	285	118
35°	232	237	259	272	277	145
45°	200	209	228	242	249	155
55°	160	169	185	197	201	143
65°	114	119	129	138	141	112
75°	59	62	68	75	77	63
85°	12	14	20	26	27	14
90°	1	3	7	10	12	1
95°	12	66	90	18	18	15
105°	77	232	394	468	512	82
115°	160	359	554	651	714	158
125°	232	423	624	733	788	208
135°	291	445	630	739	783	224
145°	332	445	591	686	721	208
155°	357	421	524	594	621	165
165°	371	387	445	487	500	105
175°	375	373	374	376	376	36
180°	368	368	368	368	368	



TEST NUMBER: P395388

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1
2.5°	278.0	277.1	277.1	275.1	275.1	274.1	274.1	274.1	274.1	274.1	275.1
5°	277.1	277.1	276.1	275.1	275.1	274.1	274.1	274.1	274.1	274.1	275.1
7.5°	276.1	276.1	275.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	276.1
10°	275.1	275.1	274.1	273.2	273.2	273.2	273.2	274.1	274.1	274.1	276.1
12.5°	273.2	272.2	272.2	271.2	271.2	271.2	272.2	272.2	273.2	274.1	276.1
15°	271.2	271.2	270.3	269.3	270.3	270.3	270.3	271.2	272.2	273.2	276.1
17.5°	268.3	268.3	267.3	267.3	267.3	268.3	268.3	269.3	271.2	273.2	275.1
20°	265.4	264.4	264.4	264.4	265.4	265.4	266.4	268.3	269.3	272.2	275.1
22.5°	260.5	261.5	260.5	260.5	261.5	262.5	263.5	265.4	267.3	270.3	273.2
25°	256.6	256.6	256.6	256.6	258.6	258.6	260.5	262.5	265.4	268.3	272.2
27.5°	251.8	251.8	251.8	252.8	253.7	254.7	255.7	258.6	261.5	265.4	269.3
30°	245.0	245.0	245.0	245.0	247.9	248.9	250.8	254.7	257.6	262.5	267.3
32.5°	239.1	239.1	239.1	240.1	242.1	243.0	245.0	249.8	253.7	258.6	263.5
35°	232.3	232.3	233.3	233.3	236.2	237.2	239.1	243.0	246.9	252.8	258.6
37.5°	225.5	225.5	226.5	227.5	229.4	231.4	233.3	237.2	241.1	246.0	251.8
40°	217.8	217.8	218.7	219.7	222.6	224.6	226.5	230.4	234.3	239.1	244.0
42.5°	210.0	210.0	211.0	211.9	214.8	216.8	218.7	223.6	227.5	232.3	236.2
45°	200.3	201.2	202.2	204.2	207.1	209.0	211.0	214.8	219.7	223.6	227.5
47.5°	191.5	192.5	193.5	195.4	198.3	200.3	202.2	206.1	210.0	213.9	218.7
50°	181.8	182.8	183.7	185.7	188.6	190.5	192.5	196.4	200.3	203.2	208.0
52.5°	171.1	172.1	173.0	175.0	178.9	179.8	181.8	185.7	188.6	192.5	196.4
55°	160.4	161.4	162.3	164.3	167.2	169.2	170.1	174.0	176.9	180.8	184.7
57.5°	149.7	150.7	151.7	153.6	155.5	157.5	158.5	161.4	165.3	168.2	172.1
60°	138.0	139.0	140.0	141.0	143.9	144.9	145.8	148.7	151.7	155.5	158.5
62.5°	126.4	126.4	127.4	128.3	131.2	132.2	133.2	135.1	139.0	141.0	143.9
65°	113.7	113.7	114.7	115.7	117.6	118.6	119.6	121.5	124.4	126.4	129.3
67.5°	100.1	100.1	101.1	102.1	104.0	105.0	105.0	107.9	109.9	111.8	113.7
70°	87.5	87.5	88.5	88.5	89.4	90.4	91.4	93.3	94.3	97.2	98.2
72.5°	73.9	73.9	73.9	73.9	75.8	75.8	76.8	78.7	79.7	81.7	83.6
75°	59.3	59.3	60.3	60.3	61.2	62.2	63.2	64.2	66.1	67.1	68.1
77.5°	46.7	45.7	46.7	47.6	48.6	48.6	49.6	50.6	51.5	53.5	54.4
80°	33.1	33.1	33.1	34.0	35.0	35.0	36.0	36.9	37.9	39.9	40.8
82.5°	21.4	21.4	22.4	22.4	23.3	24.3	24.3	25.3	26.2	28.2	29.2
85°	11.7	11.7	11.7	12.6	13.6	13.6	14.6	15.6	17.5	18.5	20.4
87.5°	3.9	3.9	4.9	5.8	6.8	6.8	7.8	8.7	9.7	11.7	12.6
90°	1.0	1.0	1.0	1.9	1.9	2.9	2.9	3.9	4.9	5.8	6.8
92.5°	3.9	6.8	10.7	15.6	14.6	15.6	10.7	6.8	6.8	6.8	7.8
95°	11.7	17.5	28.2	44.7	58.3	66.1	72.9	79.7	93.3	94.3	90.4
97.5°	23.3	32.1	51.5	72.9	97.2	109.9	119.6	140.0	161.4	175.0	191.5
100°	38.9	51.5	76.8	106.0	134.2	150.7	166.2	195.4	221.7	245.0	270.3
102.5°	57.4	71.9	103.0	139.0	174.0	192.5	209.0	243.0	279.0	310.1	337.3
105°	76.8	93.3	130.3	171.1	211.0	232.3	252.8	289.7	327.6	361.6	393.7
107.5°	98.2	115.7	155.5	201.2	246.0	270.3	292.6	332.5	372.3	409.3	443.3
110°	118.6	138.0	179.8	229.4	280.0	304.3	326.6	370.4	412.2	451.1	487.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	140.0	160.4	202.2	256.6	308.2	333.4	356.8	403.4	447.2	487.0	523.0
115°	160.4	179.8	223.6	280.0	332.5	358.7	384.0	431.6	477.3	517.2	554.1
117.5°	179.8	198.3	243.0	299.4	353.9	380.1	405.4	455.0	500.7	542.5	578.4
120°	199.3	215.8	264.4	315.9	371.4	397.6	423.9	473.4	520.1	561.9	598.8
122.5°	216.8	232.3	280.0	330.5	385.0	412.2	437.5	488.0	535.7	577.5	613.4
125°	232.3	246.9	294.6	342.2	396.6	422.9	449.1	498.7	546.3	587.2	624.1
127.5°	247.9	262.5	305.3	353.9	404.4	431.6	456.9	506.5	553.2	595.0	630.9
130°	264.4	275.1	315.9	364.6	412.2	437.5	463.7	511.4	557.0	597.9	633.8
132.5°	278.0	287.8	326.6	373.3	418.0	442.3	465.7	513.3	559.0	597.9	632.9
135°	290.7	298.5	334.4	381.1	422.9	445.2	467.6	512.3	557.0	595.9	630.0
137.5°	302.3	310.1	341.2	386.9	426.8	446.2	467.6	509.4	552.2	591.1	623.1
140°	313.0	318.9	347.1	389.8	428.7	447.2	465.7	504.5	544.4	582.3	614.4
142.5°	323.7	328.6	351.9	391.8	429.7	447.2	464.7	498.7	535.7	572.6	604.7
145°	331.5	336.4	355.8	392.7	428.7	445.2	460.8	492.9	525.9	560.0	591.1
147.5°	340.3	344.1	359.7	390.8	425.8	441.4	455.9	485.1	515.2	546.3	575.5
150°	346.1	350.0	361.6	388.9	420.9	435.5	450.1	477.3	504.5	531.8	557.0
152.5°	351.9	354.8	364.6	385.9	415.1	428.7	442.3	468.6	493.9	518.2	540.5
155°	356.8	359.7	366.5	384.0	408.3	420.9	433.6	458.9	482.2	503.6	524.0
157.5°	361.6	363.6	368.4	381.1	400.5	412.2	423.9	446.2	467.6	489.0	505.5
160°	365.5	366.5	370.4	380.1	393.7	402.5	413.2	433.6	453.0	471.5	487.0
162.5°	369.4	369.4	372.3	378.2	387.9	393.7	401.5	419.0	436.5	453.0	467.6
165°	371.4	371.4	373.3	377.2	383.0	386.9	391.8	403.4	417.1	431.6	445.2
167.5°	373.3	373.3	374.3	376.2	380.1	382.1	384.0	391.8	400.5	411.2	421.9
170°	375.3	374.3	374.3	376.2	377.2	378.2	379.1	383.0	386.9	393.7	399.6
172.5°	375.3	374.3	374.3	375.3	375.3	375.3	375.3	376.2	377.2	381.1	383.0
175°	375.3	374.3	374.3	374.3	374.3	373.3	373.3	373.3	373.3	373.3	374.3
177.5°	375.3	374.3	373.3	373.3	372.3	372.3	371.4	371.4	370.4	370.4	370.4
180°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1
2.5°	275.1	275.1	274.1	274.1	273.2	273.2	272.2	271.2	270.3	270.3
5°	276.1	275.1	274.1	274.1	274.1	273.2	273.2	273.2	272.2	272.2
7.5°	276.1	276.1	276.1	275.1	275.1	275.1	275.1	275.1	274.1	274.1
10°	277.1	277.1	277.1	277.1	277.1	277.1	277.1	276.1	276.1	276.1
12.5°	277.1	277.1	277.1	278.0	278.0	278.0	278.0	278.0	278.0	278.0
15°	278.0	278.0	279.0	279.0	280.0	280.0	281.0	281.0	281.0	280.0
17.5°	277.1	278.0	279.0	280.0	281.0	281.0	281.9	281.9	281.9	281.9
20°	277.1	279.0	280.0	281.0	281.9	281.9	282.9	283.9	283.9	282.9
22.5°	276.1	278.0	279.0	281.0	281.9	281.9	283.9	283.9	283.9	283.9
25°	275.1	277.1	279.0	281.0	281.9	281.9	283.9	283.9	284.8	284.8
27.5°	273.2	275.1	278.0	280.0	281.0	281.9	282.9	283.9	283.9	283.9
30°	270.3	273.2	276.1	278.0	279.0	280.0	281.0	281.9	282.9	282.9
32.5°	266.4	269.3	272.2	275.1	276.1	277.1	279.0	280.0	280.0	280.0
35°	262.5	265.4	268.3	271.2	272.2	273.2	275.1	276.1	277.1	277.1
37.5°	256.6	259.6	262.5	265.4	266.4	268.3	270.3	271.2	271.2	271.2
40°	247.9	252.8	256.6	259.6	260.5	262.5	263.5	265.4	265.4	265.4
42.5°	240.1	244.0	246.9	250.8	251.8	254.7	256.6	257.6	258.6	258.6
45°	231.4	235.3	238.2	241.1	242.1	244.0	246.0	246.9	247.9	248.9
47.5°	222.6	225.5	228.5	231.4	232.3	234.3	236.2	237.2	238.2	238.2
50°	211.9	214.8	217.8	220.7	221.7	223.6	224.6	225.5	226.5	226.5
52.5°	200.3	203.2	206.1	209.0	210.0	211.0	212.9	213.9	214.8	214.8
55°	188.6	191.5	193.5	196.4	197.3	198.3	199.3	201.2	202.2	201.2
57.5°	175.0	177.9	179.8	182.8	183.7	184.7	185.7	186.7	187.6	187.6
60°	160.4	163.3	166.2	168.2	169.2	170.1	171.1	172.1	173.0	173.0
62.5°	145.8	148.7	150.7	153.6	154.6	154.6	155.5	156.5	157.5	157.5
65°	131.2	134.2	135.1	138.0	138.0	139.0	140.0	141.0	141.0	141.0
67.5°	115.7	118.6	119.6	121.5	121.5	122.5	123.5	124.4	124.4	124.4
70°	101.1	102.1	104.0	105.0	106.0	106.0	106.9	107.9	108.9	107.9
72.5°	85.5	86.5	88.5	89.4	89.4	90.4	90.4	91.4	92.4	92.4
75°	70.0	71.9	72.9	73.9	74.9	74.9	75.8	76.8	76.8	76.8
77.5°	55.4	57.4	58.3	59.3	60.3	60.3	61.2	61.2	62.2	61.2
80°	42.8	43.7	44.7	45.7	46.7	46.7	47.6	48.6	48.6	48.6
82.5°	31.1	32.1	34.0	35.0	35.0	35.0	36.9	36.9	37.9	36.9
85°	21.4	22.4	24.3	25.3	26.2	26.2	26.2	27.2	28.2	27.2
87.5°	13.6	15.6	16.5	17.5	17.5	17.5	18.5	19.4	19.4	19.4
90°	7.8	7.8	8.7	9.7	9.7	10.7	10.7	11.7	11.7	11.7
92.5°	7.8	8.7	8.7	8.7	9.7	9.7	9.7	10.7	10.7	10.7
95°	66.1	47.6	27.2	21.4	18.5	18.5	17.5	18.5	17.5	17.5
97.5°	200.3	216.8	224.6	235.3	241.1	240.1	236.2	240.1	237.2	240.1
100°	284.8	300.4	312.1	315.0	320.8	323.7	334.4	342.2	346.1	350.9
102.5°	353.9	372.3	385.9	393.7	399.6	403.4	416.1	427.7	433.6	437.5
105°	417.1	436.5	453.0	460.8	467.6	471.5	485.1	498.7	507.5	512.3
107.5°	467.6	490.0	507.5	519.1	525.9	532.7	549.3	562.9	573.6	578.4
110°	513.3	535.7	554.1	567.7	575.5	582.3	600.8	616.3	628.0	633.8



TEST NUMBER: P395388

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	551.2	575.5	594.0	608.6	616.3	626.1	643.6	661.1	672.7	679.5
115°	582.3	607.6	627.0	642.6	651.3	660.1	680.5	698.0	709.7	714.5
117.5°	608.6	633.8	654.3	669.8	679.5	689.3	709.7	725.2	737.9	741.8
120°	630.0	655.2	675.6	693.1	702.9	711.6	731.1	747.6	759.2	762.2
122.5°	644.5	670.8	692.2	711.6	720.4	729.1	747.6	764.1	774.8	777.7
125°	655.2	682.4	703.8	724.3	733.0	741.8	759.2	775.8	784.5	788.4
127.5°	662.0	689.3	712.6	732.0	741.8	749.5	767.0	781.6	790.4	793.3
130°	664.0	692.2	715.5	735.9	744.7	752.4	769.0	783.6	791.3	793.3
132.5°	664.0	691.2	715.5	734.9	743.7	751.5	767.0	780.6	788.4	790.4
135°	660.1	686.3	710.6	730.1	738.8	746.6	762.2	773.8	781.6	782.6
137.5°	653.3	678.6	701.9	721.3	730.1	737.9	751.5	764.1	770.9	772.9
140°	644.5	667.9	691.2	709.7	718.4	725.2	738.8	749.5	756.3	758.3
142.5°	632.9	656.2	677.6	696.1	702.9	710.6	722.3	733.0	738.8	740.8
145°	620.2	642.6	662.0	678.6	686.3	693.1	703.8	713.6	719.4	721.3
147.5°	603.7	626.1	644.5	660.1	666.9	673.7	683.4	692.2	698.0	699.9
150°	583.3	603.7	623.1	637.7	644.5	651.3	661.1	668.8	674.7	675.6
152.5°	562.9	582.3	598.8	613.4	620.2	627.0	635.8	643.6	650.4	650.4
155°	543.4	560.0	575.5	588.2	594.0	599.8	608.6	615.4	621.2	621.2
157.5°	523.0	538.6	551.2	562.9	567.7	572.6	580.4	586.2	591.1	590.1
160°	503.6	515.2	526.9	536.6	541.5	545.4	551.2	556.1	560.9	560.0
162.5°	482.2	492.9	502.6	509.4	513.3	516.2	522.0	526.9	529.8	529.8
165°	457.9	467.6	476.4	483.2	487.0	489.0	493.9	496.8	499.7	499.7
167.5°	432.6	440.4	448.2	454.0	457.9	459.8	464.7	466.6	470.5	469.5
170°	407.3	413.2	419.0	423.9	425.8	427.7	431.6	433.6	435.5	435.5
172.5°	386.9	388.9	391.8	395.7	395.7	396.6	398.6	399.6	400.5	400.5
175°	375.3	376.2	376.2	376.2	376.2	376.2	377.2	376.2	377.2	376.2
177.5°	370.4	370.4	369.4	369.4	368.4	369.4	368.4	367.5	367.5	366.5
180°	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4	368.4

(END OF REPORT)