

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: P395389

Luminaire Tested: **I3-CL-40L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395389
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 (4000K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3690.3 lumens
Efficiency: N/A
Efficacy: 130.9 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

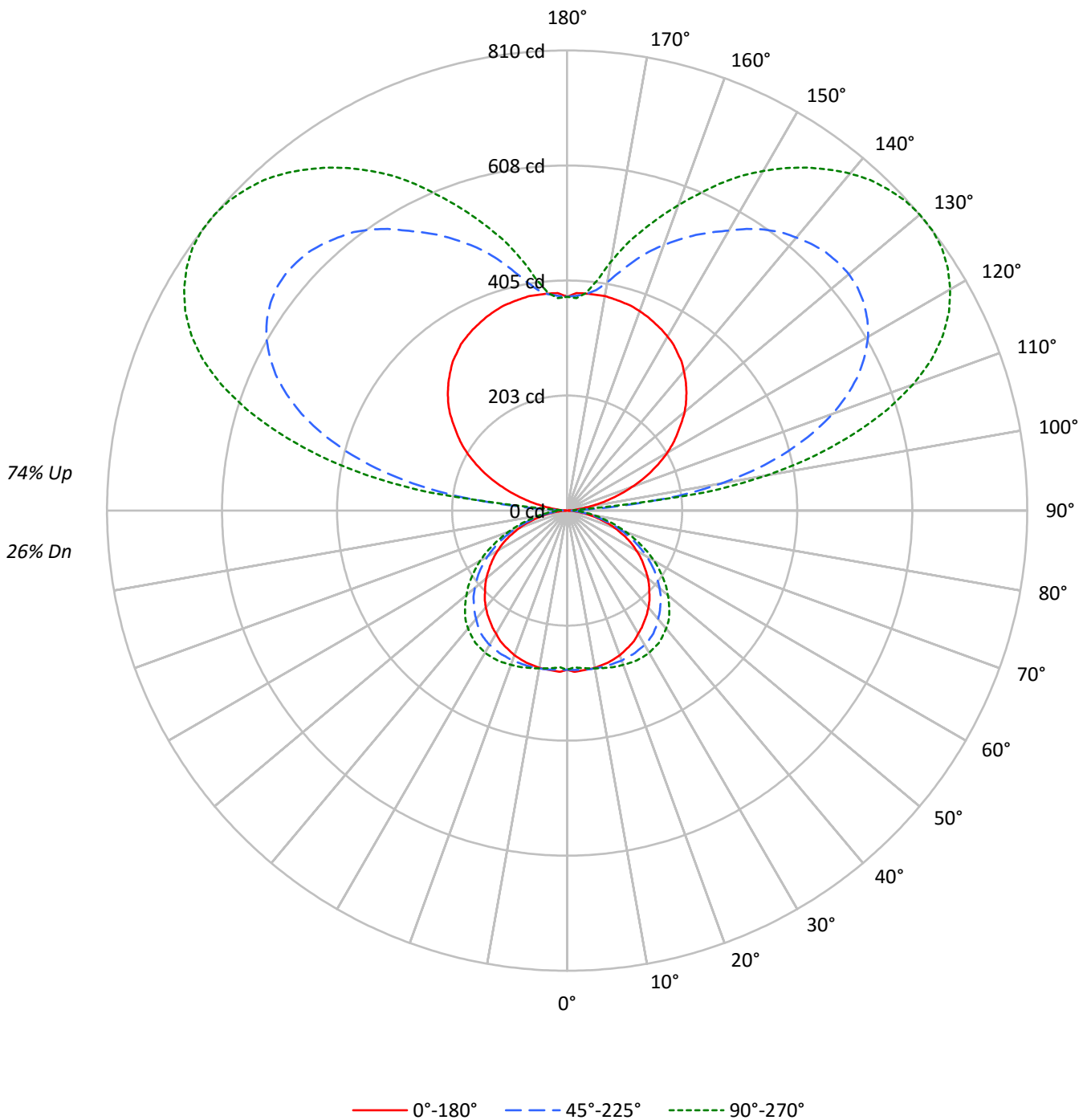
Input Watts (W): 28.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	1539	1539	1539
5°	1556	1515	1491
10°	1557	1503	1487
15°	1559	1498	1494
20°	1562	1499	1508
25°	1559	1501	1527
30°	1550	1503	1538
35°	1546	1495	1540
40°	1541	1463	1520
45°	1525	1427	1482
50°	1511	1380	1416
55°	1481	1311	1335
60°	1444	1219	1232
65°	1385	1094	1092
70°	1286	932	924
75°	1111	741	743
80°	862	526	544
85°	505	326	364



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CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	0.7
10°-20°	79.6	2.2
20°-30°	127.6	3.5
30°-40°	163.2	4.4
40°-50°	178.0	4.8
50°-60°	166.8	4.5
60°-70°	129.4	3.5
70°-80°	74.2	2.0
80°-90°	23.7	0.6
90°-100°	95.2	2.6
100°-110°	370.0	10.0
110°-120°	503.7	13.6
120°-130°	522.9	14.2
130°-140°	463.8	12.6
140°-150°	359.9	9.8
150°-160°	240.2	6.5
160°-170°	128.0	3.5
170°-180°	37.5	1.0
0°-30°	234.0	6.3
0°-40°	397.3	10.8
0°-60°	742.0	20.1
0°-90°	969.3	26.3
90°-120°	968.9	26.3
90°-150°	2315.5	62.7
90°-180°	2721.0	73.7
0°-180°	3690.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	283	280	281	280	278	27
15°	277	276	282	286	286	78
25°	262	264	278	288	291	121
35°	237	242	264	278	283	149
45°	205	214	232	247	254	158
55°	164	173	189	202	206	147
65°	116	121	132	141	144	115
75°	61	64	70	76	78	65
85°	12	14	21	27	28	14
90°	1	3	7	10	12	1
95°	12	68	92	19	18	16
105°	78	237	402	478	523	84
115°	164	366	566	665	730	162
125°	237	432	638	749	805	212
135°	297	455	644	755	799	229
145°	339	455	604	701	737	212
155°	364	430	535	607	635	168
165°	379	395	455	498	510	107
175°	383	381	382	384	384	37
180°	376	376	376	376	376	



TEST NUMBER: P395389

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	284.0	283.0	283.0	281.0	281.0	280.0	280.0	280.0	280.0	280.0	281.0
5°	283.0	283.0	282.0	281.0	281.0	280.0	280.0	280.0	280.0	280.0	281.0
7.5°	282.0	282.0	281.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	282.0
10°	281.0	281.0	280.0	279.0	279.0	279.0	279.0	280.0	280.0	280.0	282.0
12.5°	279.0	278.1	278.1	277.1	277.1	277.1	278.1	278.1	279.0	280.0	282.0
15°	277.1	277.1	276.1	275.1	276.1	276.1	276.1	277.1	278.1	279.0	282.0
17.5°	274.1	274.1	273.1	273.1	273.1	274.1	274.1	275.1	277.1	279.0	281.0
20°	271.1	270.1	270.1	270.1	271.1	271.1	272.1	274.1	275.1	278.1	281.0
22.5°	266.1	267.1	266.1	266.1	267.1	268.1	269.1	271.1	273.1	276.1	279.0
25°	262.2	262.2	262.2	262.2	264.2	264.2	266.1	268.1	271.1	274.1	278.1
27.5°	257.2	257.2	257.2	258.2	259.2	260.2	261.2	264.2	267.1	271.1	275.1
30°	250.2	250.2	250.2	250.2	253.2	254.2	256.2	260.2	263.2	268.1	273.1
32.5°	244.3	244.3	244.3	245.3	247.3	248.3	250.2	255.2	259.2	264.2	269.1
35°	237.3	237.3	238.3	238.3	241.3	242.3	244.3	248.3	252.2	258.2	264.2
37.5°	230.4	230.4	231.4	232.4	234.4	236.3	238.3	242.3	246.3	251.2	257.2
40°	222.4	222.4	223.4	224.4	227.4	229.4	231.4	235.4	239.3	244.3	249.3
42.5°	214.5	214.5	215.5	216.5	219.5	221.4	223.4	228.4	232.4	237.3	241.3
45°	204.6	205.6	206.6	208.5	211.5	213.5	215.5	219.5	224.4	228.4	232.4
47.5°	195.6	196.6	197.6	199.6	202.6	204.6	206.6	210.5	214.5	218.5	223.4
50°	185.7	186.7	187.7	189.7	192.7	194.6	196.6	200.6	204.6	207.5	212.5
52.5°	174.8	175.8	176.8	178.7	182.7	183.7	185.7	189.7	192.7	196.6	200.6
55°	163.9	164.8	165.8	167.8	170.8	172.8	173.8	177.8	180.7	184.7	188.7
57.5°	152.9	153.9	154.9	156.9	158.9	160.9	161.9	164.8	168.8	171.8	175.8
60°	141.0	142.0	143.0	144.0	147.0	148.0	149.0	151.9	154.9	158.9	161.9
62.5°	129.1	129.1	130.1	131.1	134.1	135.1	136.0	138.0	142.0	144.0	147.0
65°	116.2	116.2	117.2	118.2	120.2	121.2	122.1	124.1	127.1	129.1	132.1
67.5°	102.3	102.3	103.3	104.3	106.3	107.2	107.2	110.2	112.2	114.2	116.2
70°	89.4	89.4	90.4	90.4	91.4	92.4	93.3	95.3	96.3	99.3	100.3
72.5°	75.5	75.5	75.5	75.5	77.5	77.5	78.5	80.4	81.4	83.4	85.4
75°	60.6	60.6	61.6	61.6	62.6	63.6	64.5	65.5	67.5	68.5	69.5
77.5°	47.7	46.7	47.7	48.7	49.7	49.7	50.6	51.6	52.6	54.6	55.6
80°	33.8	33.8	33.8	34.8	35.7	35.7	36.7	37.7	38.7	40.7	41.7
82.5°	21.8	21.8	22.8	22.8	23.8	24.8	24.8	25.8	26.8	28.8	29.8
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	7.9	8.9	9.9	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	7.9
95°	11.9	17.9	28.8	45.7	59.6	67.5	74.5	81.4	95.3	96.3	92.4
97.5°	23.8	32.8	52.6	74.5	99.3	112.2	122.1	143.0	164.8	178.7	195.6
100°	39.7	52.6	78.5	108.2	137.0	153.9	169.8	199.6	226.4	250.2	276.1
102.5°	58.6	73.5	105.3	142.0	177.8	196.6	213.5	248.3	285.0	316.8	344.6
105°	78.5	95.3	133.1	174.8	215.5	237.3	258.2	295.9	334.7	369.4	402.2
107.5°	100.3	118.2	158.9	205.6	251.2	276.1	298.9	339.6	380.3	418.1	452.8
110°	121.2	141.0	183.7	234.4	286.0	310.8	333.7	378.4	421.1	460.8	497.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	143.0	163.9	206.6	262.2	314.8	340.6	364.4	412.1	456.8	497.5	534.3
115°	163.9	183.7	228.4	286.0	339.6	366.4	392.3	440.9	487.6	528.3	566.0
117.5°	183.7	202.6	248.3	305.9	361.5	388.3	414.1	464.7	511.4	554.1	590.9
120°	203.6	220.5	270.1	322.7	379.3	406.2	433.0	483.6	531.3	574.0	611.7
122.5°	221.4	237.3	286.0	337.6	393.2	421.1	446.9	498.5	547.2	589.9	626.6
125°	237.3	252.2	300.9	349.6	405.2	432.0	458.8	509.4	558.1	599.8	637.5
127.5°	253.2	268.1	311.8	361.5	413.1	440.9	466.7	517.4	565.0	607.7	644.5
130°	270.1	281.0	322.7	372.4	421.1	446.9	473.7	522.3	569.0	610.7	647.5
132.5°	284.0	293.9	333.7	381.3	427.0	451.8	475.7	524.3	571.0	610.7	646.5
135°	296.9	304.9	341.6	389.3	432.0	454.8	477.7	523.3	569.0	608.7	643.5
137.5°	308.8	316.8	348.6	395.2	435.9	455.8	477.7	520.4	564.1	603.8	636.5
140°	319.8	325.7	354.5	398.2	437.9	456.8	475.7	515.4	556.1	594.8	627.6
142.5°	330.7	335.6	359.5	400.2	438.9	456.8	474.7	509.4	547.2	584.9	617.7
145°	338.6	343.6	363.5	401.2	437.9	454.8	470.7	503.5	537.2	572.0	603.8
147.5°	347.6	351.5	367.4	399.2	435.0	450.8	465.7	495.5	526.3	558.1	587.9
150°	353.5	357.5	369.4	397.2	430.0	444.9	459.8	487.6	515.4	543.2	569.0
152.5°	359.5	362.5	372.4	394.2	424.0	437.9	451.8	478.6	504.5	529.3	552.1
155°	364.4	367.4	374.4	392.3	417.1	430.0	442.9	468.7	492.6	514.4	535.3
157.5°	369.4	371.4	376.4	389.3	409.1	421.1	433.0	455.8	477.7	499.5	516.4
160°	373.4	374.4	378.4	388.3	402.2	411.1	422.0	442.9	462.8	481.6	497.5
162.5°	377.4	377.4	380.3	386.3	396.2	402.2	410.1	428.0	445.9	462.8	477.7
165°	379.3	379.3	381.3	385.3	391.3	395.2	400.2	412.1	426.0	440.9	454.8
167.5°	381.3	381.3	382.3	384.3	388.3	390.3	392.3	400.2	409.1	420.1	431.0
170°	383.3	382.3	382.3	384.3	385.3	386.3	387.3	391.3	395.2	402.2	408.1
172.5°	383.3	382.3	382.3	383.3	383.3	383.3	383.3	384.3	385.3	389.3	391.3
175°	383.3	382.3	382.3	382.3	382.3	381.3	381.3	381.3	381.3	381.3	382.3
177.5°	383.3	382.3	381.3	381.3	380.3	380.3	379.3	379.3	378.4	378.4	378.4
180°	376.4	376.4	376.4	376.4	376.4	376.4	376.4	376.4	376.4	376.4	376.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0	280.0
2.5°	281.0	281.0	280.0	280.0	279.0	279.0	278.1	277.1	276.1	276.1
5°	282.0	281.0	280.0	280.0	280.0	279.0	279.0	279.0	278.1	278.1
7.5°	282.0	282.0	282.0	281.0	281.0	281.0	281.0	281.0	280.0	280.0
10°	283.0	283.0	283.0	283.0	283.0	283.0	283.0	282.0	282.0	282.0
12.5°	283.0	283.0	283.0	284.0	284.0	284.0	284.0	284.0	284.0	284.0
15°	284.0	284.0	285.0	285.0	286.0	286.0	287.0	287.0	287.0	286.0
17.5°	283.0	284.0	285.0	286.0	287.0	287.0	288.0	288.0	288.0	288.0
20°	283.0	285.0	286.0	287.0	288.0	288.0	289.0	290.0	290.0	289.0
22.5°	282.0	284.0	285.0	287.0	288.0	288.0	290.0	290.0	290.0	290.0
25°	281.0	283.0	285.0	287.0	288.0	288.0	290.0	290.0	291.0	291.0
27.5°	279.0	281.0	284.0	286.0	287.0	288.0	289.0	290.0	290.0	290.0
30°	276.1	279.0	282.0	284.0	285.0	286.0	287.0	288.0	289.0	289.0
32.5°	272.1	275.1	278.1	281.0	282.0	283.0	285.0	286.0	286.0	286.0
35°	268.1	271.1	274.1	277.1	278.1	279.0	281.0	282.0	283.0	283.0
37.5°	262.2	265.1	268.1	271.1	272.1	274.1	276.1	277.1	277.1	277.1
40°	253.2	258.2	262.2	265.1	266.1	268.1	269.1	271.1	271.1	271.1
42.5°	245.3	249.3	252.2	256.2	257.2	260.2	262.2	263.2	264.2	264.2
45°	236.3	240.3	243.3	246.3	247.3	249.3	251.2	252.2	253.2	254.2
47.5°	227.4	230.4	233.4	236.3	237.3	239.3	241.3	242.3	243.3	243.3
50°	216.5	219.5	222.4	225.4	226.4	228.4	229.4	230.4	231.4	231.4
52.5°	204.6	207.5	210.5	213.5	214.5	215.5	217.5	218.5	219.5	219.5
55°	192.7	195.6	197.6	200.6	201.6	202.6	203.6	205.6	206.6	205.6
57.5°	178.7	181.7	183.7	186.7	187.7	188.7	189.7	190.7	191.7	191.7
60°	163.9	166.8	169.8	171.8	172.8	173.8	174.8	175.8	176.8	176.8
62.5°	149.0	151.9	153.9	156.9	157.9	157.9	158.9	159.9	160.9	160.9
65°	134.1	137.0	138.0	141.0	141.0	142.0	143.0	144.0	144.0	144.0
67.5°	118.2	121.2	122.1	124.1	124.1	125.1	126.1	127.1	127.1	127.1
70°	103.3	104.3	106.3	107.2	108.2	108.2	109.2	110.2	111.2	110.2
72.5°	87.4	88.4	90.4	91.4	91.4	92.4	92.4	93.3	94.3	94.3
75°	71.5	73.5	74.5	75.5	76.5	76.5	77.5	78.5	78.5	78.5
77.5°	56.6	58.6	59.6	60.6	61.6	61.6	62.6	62.6	63.6	62.6
80°	43.7	44.7	45.7	46.7	47.7	47.7	48.7	49.7	49.7	49.7
82.5°	31.8	32.8	34.8	35.7	35.7	35.7	37.7	37.7	38.7	37.7
85°	21.8	22.8	24.8	25.8	26.8	26.8	26.8	27.8	28.8	27.8
87.5°	13.9	15.9	16.9	17.9	17.9	17.9	18.9	19.9	19.9	19.9
90°	7.9	7.9	8.9	9.9	9.9	10.9	10.9	11.9	11.9	11.9
92.5°	7.9	8.9	8.9	8.9	9.9	9.9	9.9	10.9	10.9	10.9
95°	67.5	48.7	27.8	21.8	18.9	18.9	17.9	18.9	17.9	17.9
97.5°	204.6	221.4	229.4	240.3	246.3	245.3	241.3	245.3	242.3	245.3
100°	291.0	306.9	318.8	321.7	327.7	330.7	341.6	349.6	353.5	358.5
102.5°	361.5	380.3	394.2	402.2	408.1	412.1	425.0	436.9	442.9	446.9
105°	426.0	445.9	462.8	470.7	477.7	481.6	495.5	509.4	518.4	523.3
107.5°	477.7	500.5	518.4	530.3	537.2	544.2	561.1	575.0	585.9	590.9
110°	524.3	547.2	566.0	579.9	587.9	594.8	613.7	629.6	641.5	647.5



TEST NUMBER: P395389

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	563.1	587.9	606.8	621.6	629.6	639.5	657.4	675.3	687.2	694.1
115°	594.8	620.7	640.5	656.4	665.3	674.3	695.1	713.0	724.9	729.9
117.5°	621.6	647.5	668.3	684.2	694.1	704.1	724.9	740.8	753.7	757.7
120°	643.5	669.3	690.2	708.0	718.0	726.9	746.8	763.7	775.6	778.5
122.5°	658.4	685.2	707.0	726.9	735.8	744.8	763.7	780.5	791.5	794.4
125°	669.3	697.1	719.0	739.8	748.8	757.7	775.6	792.5	801.4	805.4
127.5°	676.3	704.1	727.9	747.8	757.7	765.6	783.5	798.4	807.3	810.3
130°	678.3	707.0	730.9	751.7	760.7	768.6	785.5	800.4	808.3	810.3
132.5°	678.3	706.1	730.9	750.7	759.7	767.6	783.5	797.4	805.4	807.3
135°	674.3	701.1	725.9	745.8	754.7	762.7	778.5	790.5	798.4	799.4
137.5°	667.3	693.1	717.0	736.8	745.8	753.7	767.6	780.5	787.5	789.5
140°	658.4	682.2	706.1	724.9	733.9	740.8	754.7	765.6	772.6	774.6
142.5°	646.5	670.3	692.2	711.0	718.0	725.9	737.8	748.8	754.7	756.7
145°	633.6	656.4	676.3	693.1	701.1	708.0	719.0	728.9	734.9	736.8
147.5°	616.7	639.5	658.4	674.3	681.2	688.2	698.1	707.0	713.0	715.0
150°	595.8	616.7	636.5	651.4	658.4	665.3	675.3	683.2	689.2	690.2
152.5°	575.0	594.8	611.7	626.6	633.6	640.5	649.5	657.4	664.3	664.3
155°	555.1	572.0	587.9	600.8	606.8	612.7	621.6	628.6	634.6	634.6
157.5°	534.3	550.1	563.1	575.0	579.9	584.9	592.8	598.8	603.8	602.8
160°	514.4	526.3	538.2	548.2	553.1	557.1	563.1	568.0	573.0	572.0
162.5°	492.6	503.5	513.4	520.4	524.3	527.3	533.3	538.2	541.2	541.2
165°	467.7	477.7	486.6	493.5	497.5	499.5	504.5	507.4	510.4	510.4
167.5°	441.9	449.8	457.8	463.8	467.7	469.7	474.7	476.7	480.6	479.6
170°	416.1	422.0	428.0	433.0	435.0	436.9	440.9	442.9	444.9	444.9
172.5°	395.2	397.2	400.2	404.2	404.2	405.2	407.1	408.1	409.1	409.1
175°	383.3	384.3	384.3	384.3	384.3	384.3	385.3	384.3	385.3	384.3
177.5°	378.4	378.4	377.4	377.4	376.4	377.4	376.4	375.4	375.4	374.4
180°	376.4	376.4	376.4	376.4	376.4	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)