

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: P395390

Luminaire Tested: **I3-CL-40L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395390
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 (4500K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

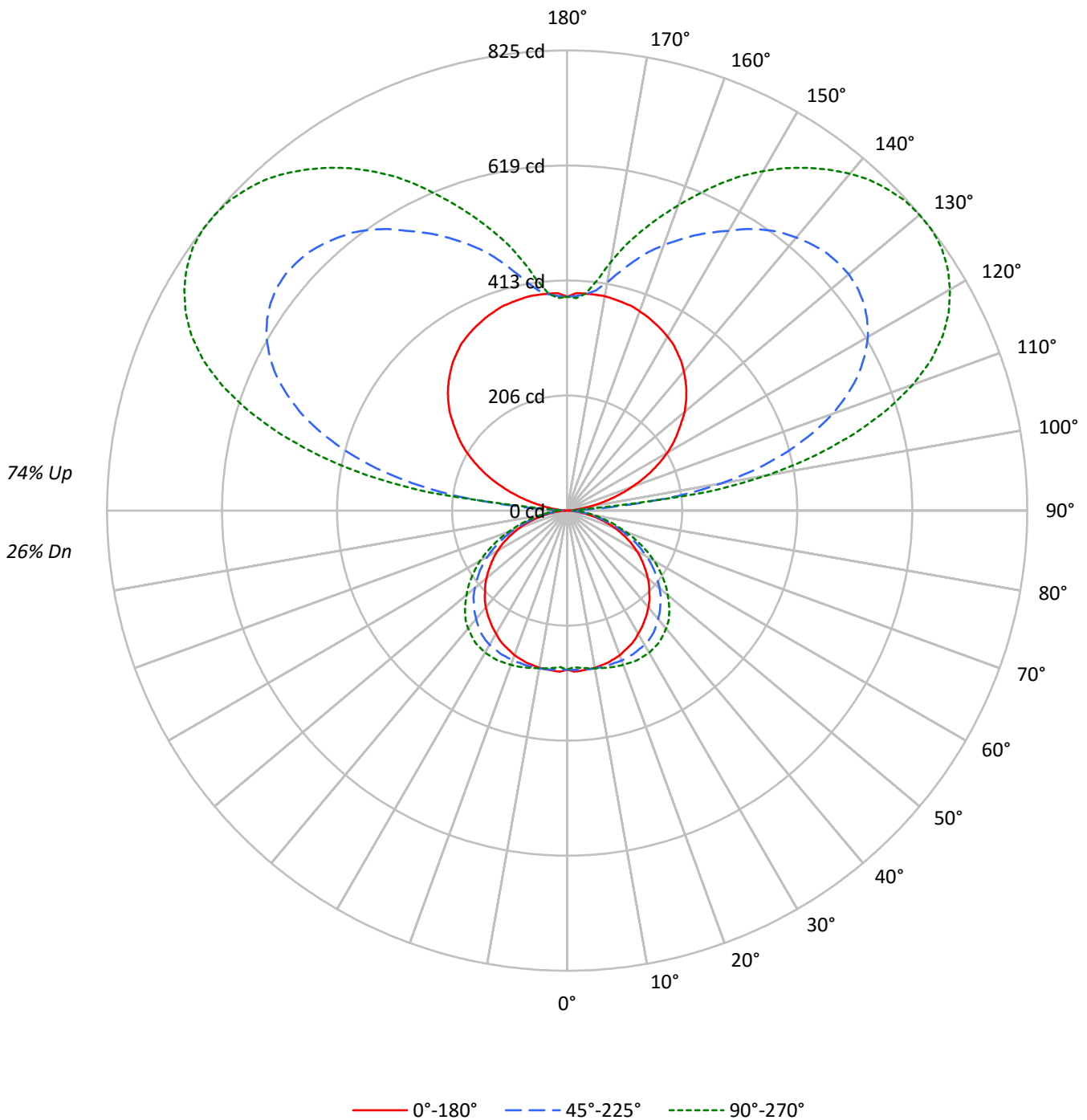
Lumens per Lamp: N/A
Luminaire Lumens: 3756.9 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (A_{in}): 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



TEST NUMBER: P395390
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Luminous Intensity Polar Plot





TEST NUMBER: P395390

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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°	1567	1567	1567
5°	1584	1543	1518
10°	1585	1531	1513
15°	1587	1525	1521
20°	1590	1526	1535
25°	1587	1528	1555
30°	1578	1530	1566
35°	1574	1521	1567
40°	1569	1489	1547
45°	1553	1453	1509
50°	1538	1405	1442
55°	1507	1334	1359
60°	1470	1241	1254
65°	1410	1114	1112
70°	1309	948	941
75°	1131	755	756
80°	877	537	553
85°	513	331	371



TEST NUMBER: P395390

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	0.7
10°-20°	81.0	2.2
20°-30°	129.9	3.5
30°-40°	166.2	4.4
40°-50°	181.2	4.8
50°-60°	169.8	4.5
60°-70°	131.7	3.5
70°-80°	75.5	2.0
80°-90°	24.1	0.6
90°-100°	96.9	2.6
100°-110°	376.7	10.0
110°-120°	512.8	13.6
120°-130°	532.3	14.2
130°-140°	472.2	12.6
140°-150°	366.4	9.8
150°-160°	244.5	6.5
160°-170°	130.3	3.5
170°-180°	38.1	1.0
0°-30°	238.2	6.3
0°-40°	404.4	10.8
0°-60°	755.4	20.1
0°-90°	986.7	26.3
90°-120°	986.4	26.3
90°-150°	2357.2	62.7
90°-180°	2770.0	73.7
0°-180°	3756.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	285	285	285	285	285	
5°	288	285	286	285	283	27
15°	282	281	287	291	291	80
25°	267	269	283	293	296	123
35°	242	247	269	283	288	151
45°	208	217	237	252	259	161
55°	167	176	192	205	209	149
65°	118	123	134	144	147	117
75°	62	65	71	78	80	66
85°	12	14	21	27	28	15
90°	1	3	7	10	12	1
95°	12	69	94	19	18	16
105°	80	242	409	486	533	85
115°	167	373	576	677	743	164
125°	242	440	649	762	820	216
135°	302	463	655	768	814	233
145°	345	463	615	714	750	216
155°	371	438	545	618	646	171
165°	386	402	463	506	520	109
175°	390	388	389	391	391	37
180°	383	383	383	383	383	



TEST NUMBER: P395390

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
2.5°	289.1	288.1	288.1	286.1	286.1	285.1	285.1	285.1	285.1	285.1	286.1
5°	288.1	288.1	287.1	286.1	286.1	285.1	285.1	285.1	285.1	285.1	286.1
7.5°	287.1	287.1	286.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	287.1
10°	286.1	286.1	285.1	284.1	284.1	284.1	284.1	285.1	285.1	285.1	287.1
12.5°	284.1	283.1	283.1	282.1	282.1	282.1	283.1	283.1	284.1	285.1	287.1
15°	282.1	282.1	281.0	280.0	281.0	281.0	281.0	282.1	283.1	284.1	287.1
17.5°	279.0	279.0	278.0	278.0	278.0	279.0	279.0	280.0	282.1	284.1	286.1
20°	276.0	275.0	275.0	275.0	276.0	276.0	277.0	279.0	280.0	283.1	286.1
22.5°	270.9	271.9	270.9	270.9	271.9	273.0	274.0	276.0	278.0	281.0	284.1
25°	266.9	266.9	266.9	266.9	268.9	268.9	270.9	273.0	276.0	279.0	283.1
27.5°	261.8	261.8	261.8	262.8	263.9	264.9	265.9	268.9	271.9	276.0	280.0
30°	254.8	254.8	254.8	254.8	257.8	258.8	260.8	264.9	267.9	273.0	278.0
32.5°	248.7	248.7	248.7	249.7	251.7	252.7	254.8	259.8	263.9	268.9	274.0
35°	241.6	241.6	242.6	242.6	245.7	246.7	248.7	252.7	256.8	262.8	268.9
37.5°	234.5	234.5	235.6	236.6	238.6	240.6	242.6	246.7	250.7	255.8	261.8
40°	226.5	226.5	227.5	228.5	231.5	233.5	235.6	239.6	243.6	248.7	253.8
42.5°	218.4	218.4	219.4	220.4	223.4	225.4	227.5	232.5	236.6	241.6	245.7
45°	208.3	209.3	210.3	212.3	215.3	217.4	219.4	223.4	228.5	232.5	236.6
47.5°	199.2	200.2	201.2	203.2	206.2	208.3	210.3	214.3	218.4	222.4	227.5
50°	189.0	190.1	191.1	193.1	196.1	198.1	200.2	204.2	208.3	211.3	216.3
52.5°	177.9	178.9	180.0	182.0	186.0	187.0	189.0	193.1	196.1	200.2	204.2
55°	166.8	167.8	168.8	170.9	173.9	175.9	176.9	181.0	184.0	188.0	192.1
57.5°	155.7	156.7	157.7	159.7	161.8	163.8	164.8	167.8	171.9	174.9	178.9
60°	143.6	144.6	145.6	146.6	149.6	150.6	151.6	154.7	157.7	161.8	164.8
62.5°	131.4	131.4	132.4	133.4	136.5	137.5	138.5	140.5	144.6	146.6	149.6
65°	118.3	118.3	119.3	120.3	122.3	123.3	124.3	126.4	129.4	131.4	134.5
67.5°	104.1	104.1	105.1	106.2	108.2	109.2	109.2	112.2	114.2	116.3	118.3
70°	91.0	91.0	92.0	92.0	93.0	94.0	95.0	97.1	98.1	101.1	102.1
72.5°	76.8	76.8	76.8	76.8	78.9	78.9	79.9	81.9	82.9	84.9	86.9
75°	61.7	61.7	62.7	62.7	63.7	64.7	65.7	66.7	68.7	69.8	70.8
77.5°	48.5	47.5	48.5	49.5	50.5	50.5	51.6	52.6	53.6	55.6	56.6
80°	34.4	34.4	34.4	35.4	36.4	36.4	37.4	38.4	39.4	41.4	42.5
82.5°	22.2	22.2	23.3	23.3	24.3	25.3	25.3	26.3	27.3	29.3	30.3
85°	12.1	12.1	12.1	13.1	14.2	14.2	15.2	16.2	18.2	19.2	21.2
87.5°	4.0	4.0	5.1	6.1	7.1	7.1	8.1	9.1	10.1	12.1	13.1
90°	1.0	1.0	1.0	2.0	2.0	3.0	3.0	4.0	5.1	6.1	7.1
92.5°	4.0	7.1	11.1	16.2	15.2	16.2	11.1	7.1	7.1	7.1	8.1
95°	12.1	18.2	29.3	46.5	60.7	68.7	75.8	82.9	97.1	98.1	94.0
97.5°	24.3	33.4	53.6	75.8	101.1	114.2	124.3	145.6	167.8	182.0	199.2
100°	40.4	53.6	79.9	110.2	139.5	156.7	172.9	203.2	230.5	254.8	281.0
102.5°	59.6	74.8	107.2	144.6	181.0	200.2	217.4	252.7	290.1	322.5	350.8
105°	79.9	97.1	135.5	177.9	219.4	241.6	262.8	301.3	340.7	376.1	409.4
107.5°	102.1	120.3	161.8	209.3	255.8	281.0	304.3	345.7	387.2	425.6	461.0
110°	123.3	143.6	187.0	238.6	291.2	316.4	339.7	385.2	428.6	469.1	506.5



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CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	145.6	166.8	210.3	266.9	320.5	346.8	371.0	419.5	465.0	506.5	543.9
115°	166.8	187.0	232.5	291.2	345.7	373.0	399.3	448.9	496.4	537.8	576.2
117.5°	187.0	206.2	252.7	311.4	368.0	395.3	421.6	473.1	520.6	564.1	601.5
120°	207.2	224.4	275.0	328.6	386.2	413.5	440.8	492.3	540.9	584.3	622.7
122.5°	225.4	241.6	291.2	343.7	400.3	428.6	454.9	507.5	557.0	600.5	637.9
125°	241.6	256.8	306.3	355.9	412.5	439.8	467.1	518.6	568.2	610.6	649.0
127.5°	257.8	273.0	317.4	368.0	420.6	448.9	475.1	526.7	575.2	618.7	656.1
130°	275.0	286.1	328.6	379.1	428.6	454.9	482.2	531.8	579.3	621.7	659.1
132.5°	289.1	299.2	339.7	388.2	434.7	460.0	484.2	533.8	581.3	621.7	658.1
135°	302.3	310.4	347.8	396.3	439.8	463.0	486.3	532.8	579.3	619.7	655.1
137.5°	314.4	322.5	354.8	402.4	443.8	464.0	486.3	529.7	574.2	614.7	648.0
140°	325.5	331.6	360.9	405.4	445.8	465.0	484.2	524.7	566.1	605.6	638.9
142.5°	336.6	341.7	366.0	407.4	446.8	465.0	483.2	518.6	557.0	595.5	628.8
145°	344.7	349.8	370.0	408.4	445.8	463.0	479.2	512.6	546.9	582.3	614.7
147.5°	353.8	357.9	374.1	406.4	442.8	459.0	474.1	504.5	535.8	568.2	598.5
150°	359.9	363.9	376.1	404.4	437.7	452.9	468.1	496.4	524.7	553.0	579.3
152.5°	366.0	369.0	379.1	401.3	431.7	445.8	460.0	487.3	513.6	538.8	562.1
155°	371.0	374.1	381.1	399.3	424.6	437.7	450.9	477.2	501.4	523.7	544.9
157.5°	376.1	378.1	383.2	396.3	416.5	428.6	440.8	464.0	486.3	508.5	525.7
160°	380.1	381.1	385.2	395.3	409.4	418.5	429.7	450.9	471.1	490.3	506.5
162.5°	384.2	384.2	387.2	393.3	403.4	409.4	417.5	435.7	453.9	471.1	486.3
165°	386.2	386.2	388.2	392.3	398.3	402.4	407.4	419.5	433.7	448.9	463.0
167.5°	388.2	388.2	389.2	391.2	395.3	397.3	399.3	407.4	416.5	427.6	438.8
170°	390.2	389.2	389.2	391.2	392.3	393.3	394.3	398.3	402.4	409.4	415.5
172.5°	390.2	389.2	389.2	390.2	390.2	390.2	390.2	391.2	392.3	396.3	398.3
175°	390.2	389.2	389.2	389.2	389.2	388.2	388.2	388.2	388.2	388.2	389.2
177.5°	390.2	389.2	388.2	388.2	387.2	387.2	386.2	386.2	385.2	385.2	385.2
180°	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
2.5°	286.1	286.1	285.1	285.1	284.1	284.1	283.1	282.1	281.0	281.0
5°	287.1	286.1	285.1	285.1	285.1	284.1	284.1	284.1	283.1	283.1
7.5°	287.1	287.1	287.1	286.1	286.1	286.1	286.1	286.1	285.1	285.1
10°	288.1	288.1	288.1	288.1	288.1	288.1	288.1	287.1	287.1	287.1
12.5°	288.1	288.1	288.1	289.1	289.1	289.1	289.1	289.1	289.1	289.1
15°	289.1	289.1	290.1	290.1	291.2	291.2	292.2	292.2	292.2	291.2
17.5°	288.1	289.1	290.1	291.2	292.2	292.2	293.2	293.2	293.2	293.2
20°	288.1	290.1	291.2	292.2	293.2	293.2	294.2	295.2	295.2	294.2
22.5°	287.1	289.1	290.1	292.2	293.2	293.2	295.2	295.2	295.2	295.2
25°	286.1	288.1	290.1	292.2	293.2	293.2	295.2	295.2	296.2	296.2
27.5°	284.1	286.1	289.1	291.2	292.2	293.2	294.2	295.2	295.2	295.2
30°	281.0	284.1	287.1	289.1	290.1	291.2	292.2	293.2	294.2	294.2
32.5°	277.0	280.0	283.1	286.1	287.1	288.1	290.1	291.2	291.2	291.2
35°	273.0	276.0	279.0	282.1	283.1	284.1	286.1	287.1	288.1	288.1
37.5°	266.9	269.9	273.0	276.0	277.0	279.0	281.0	282.1	282.1	282.1
40°	257.8	262.8	266.9	269.9	270.9	273.0	274.0	276.0	276.0	276.0
42.5°	249.7	253.8	256.8	260.8	261.8	264.9	266.9	267.9	268.9	268.9
45°	240.6	244.7	247.7	250.7	251.7	253.8	255.8	256.8	257.8	258.8
47.5°	231.5	234.5	237.6	240.6	241.6	243.6	245.7	246.7	247.7	247.7
50°	220.4	223.4	226.5	229.5	230.5	232.5	233.5	234.5	235.6	235.6
52.5°	208.3	211.3	214.3	217.4	218.4	219.4	221.4	222.4	223.4	223.4
55°	196.1	199.2	201.2	204.2	205.2	206.2	207.2	209.3	210.3	209.3
57.5°	182.0	185.0	187.0	190.1	191.1	192.1	193.1	194.1	195.1	195.1
60°	166.8	169.8	172.9	174.9	175.9	176.9	177.9	178.9	180.0	180.0
62.5°	151.6	154.7	156.7	159.7	160.7	160.7	161.8	162.8	163.8	163.8
65°	136.5	139.5	140.5	143.6	143.6	144.6	145.6	146.6	146.6	146.6
67.5°	120.3	123.3	124.3	126.4	126.4	127.4	128.4	129.4	129.4	129.4
70°	105.1	106.2	108.2	109.2	110.2	110.2	111.2	112.2	113.2	112.2
72.5°	89.0	90.0	92.0	93.0	93.0	94.0	94.0	95.0	96.0	96.0
75°	72.8	74.8	75.8	76.8	77.8	77.8	78.9	79.9	79.9	79.9
77.5°	57.6	59.6	60.7	61.7	62.7	62.7	63.7	63.7	64.7	63.7
80°	44.5	45.5	46.5	47.5	48.5	48.5	49.5	50.5	50.5	50.5
82.5°	32.4	33.4	35.4	36.4	36.4	36.4	38.4	38.4	39.4	38.4
85°	22.2	23.3	25.3	26.3	27.3	27.3	27.3	28.3	29.3	28.3
87.5°	14.2	16.2	17.2	18.2	18.2	18.2	19.2	20.2	20.2	20.2
90°	8.1	8.1	9.1	10.1	10.1	11.1	11.1	12.1	12.1	12.1
92.5°	8.1	9.1	9.1	9.1	10.1	10.1	10.1	11.1	11.1	11.1
95°	68.7	49.5	28.3	22.2	19.2	19.2	18.2	19.2	18.2	18.2
97.5°	208.3	225.4	233.5	244.7	250.7	249.7	245.7	249.7	246.7	249.7
100°	296.2	312.4	324.5	327.5	333.6	336.6	347.8	355.9	359.9	365.0
102.5°	368.0	387.2	401.3	409.4	415.5	419.5	432.7	444.8	450.9	454.9
105°	433.7	453.9	471.1	479.2	486.3	490.3	504.5	518.6	527.7	532.8
107.5°	486.3	509.5	527.7	539.9	546.9	554.0	571.2	585.3	596.5	601.5
110°	533.8	557.0	576.2	590.4	598.5	605.6	624.8	640.9	653.1	659.1



TEST NUMBER: P395390

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	573.2	598.5	617.7	632.9	640.9	651.1	669.3	687.5	699.6	706.7
115°	605.6	631.8	652.1	668.2	677.3	686.4	707.7	725.9	738.0	743.1
117.5°	632.9	659.1	680.4	696.5	706.7	716.8	738.0	754.2	767.3	771.4
120°	655.1	681.4	702.6	720.8	730.9	740.0	760.2	777.4	789.6	792.6
122.5°	670.3	697.6	719.8	740.0	749.1	758.2	777.4	794.6	805.7	808.8
125°	681.4	709.7	731.9	753.2	762.3	771.4	789.6	806.7	815.8	819.9
127.5°	688.5	716.8	741.0	761.3	771.4	779.4	797.6	812.8	821.9	824.9
130°	690.5	719.8	744.1	765.3	774.4	782.5	799.7	814.8	822.9	824.9
132.5°	690.5	718.8	744.1	764.3	773.4	781.5	797.6	811.8	819.9	821.9
135°	686.4	713.7	739.0	759.2	768.3	776.4	792.6	804.7	812.8	813.8
137.5°	679.4	705.6	729.9	750.1	759.2	767.3	781.5	794.6	801.7	803.7
140°	670.3	694.5	718.8	738.0	747.1	754.2	768.3	779.4	786.5	788.5
142.5°	658.1	682.4	704.6	723.8	730.9	739.0	751.1	762.3	768.3	770.3
145°	645.0	668.2	688.5	705.6	713.7	720.8	731.9	742.0	748.1	750.1
147.5°	627.8	651.1	670.3	686.4	693.5	700.6	710.7	719.8	725.9	727.9
150°	606.6	627.8	648.0	663.2	670.3	677.3	687.5	695.5	701.6	702.6
152.5°	585.3	605.6	622.7	637.9	645.0	652.1	661.2	669.3	676.3	676.3
155°	565.1	582.3	598.5	611.6	617.7	623.8	632.9	639.9	646.0	646.0
157.5°	543.9	560.1	573.2	585.3	590.4	595.5	603.5	609.6	614.7	613.7
160°	523.7	535.8	547.9	558.0	563.1	567.1	573.2	578.3	583.3	582.3
162.5°	501.4	512.6	522.7	529.7	533.8	536.8	542.9	547.9	551.0	551.0
165°	476.2	486.3	495.4	502.4	506.5	508.5	513.6	516.6	519.6	519.6
167.5°	449.9	458.0	466.1	472.1	476.2	478.2	483.2	485.3	489.3	488.3
170°	423.6	429.7	435.7	440.8	442.8	444.8	448.9	450.9	452.9	452.9
172.5°	402.4	404.4	407.4	411.5	411.5	412.5	414.5	415.5	416.5	416.5
175°	390.2	391.2	391.2	391.2	391.2	391.2	392.3	391.2	392.3	391.2
177.5°	385.2	385.2	384.2	384.2	383.2	384.2	383.2	382.1	382.1	381.1
180°	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2	383.2

(END OF REPORT)