

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: P395387

Luminaire Tested: **I3-CL-40L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395387
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 (3000K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490.6 lumens
Efficiency: N/A
Efficacy: 126.0 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

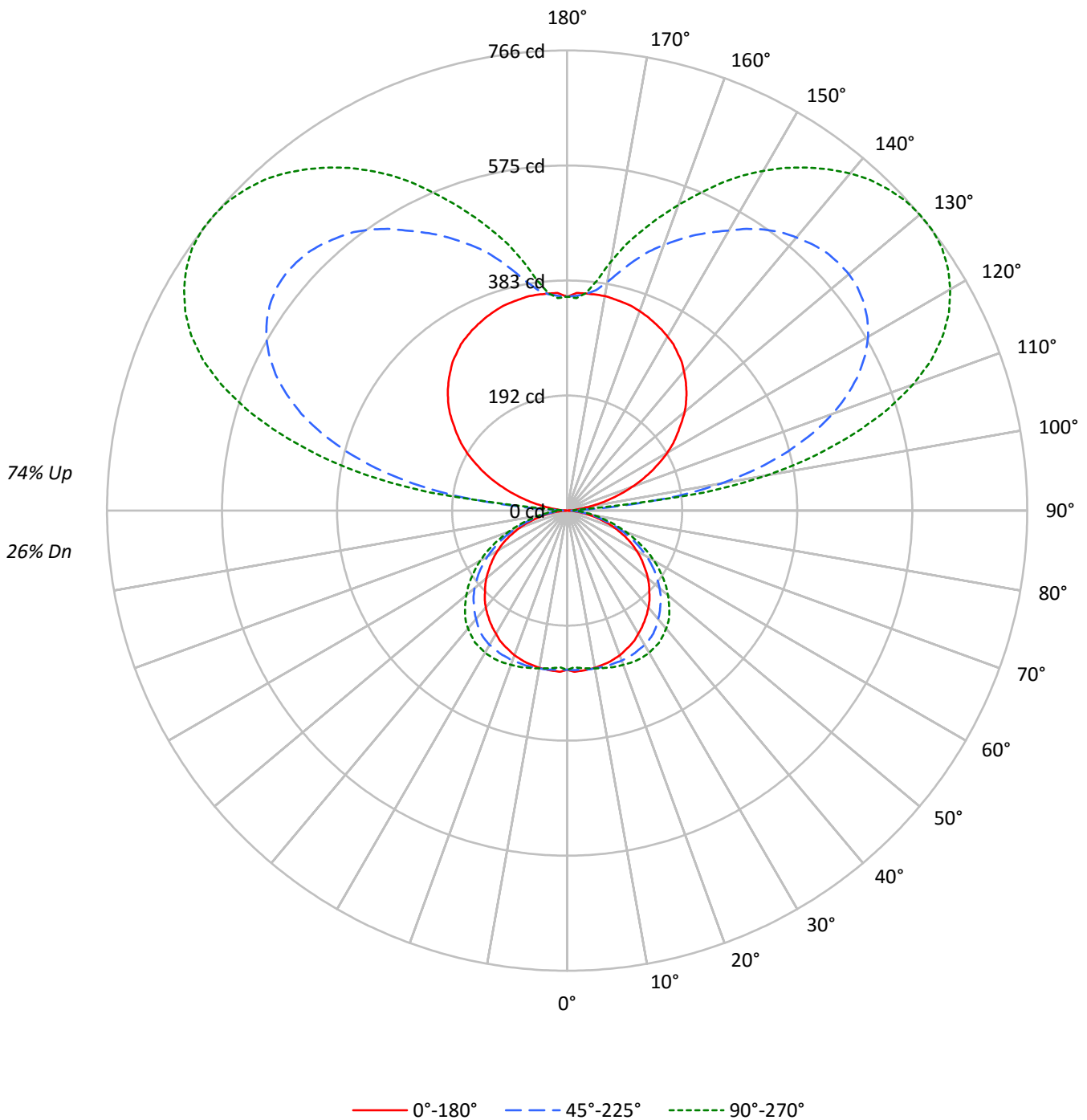
Input Watts (W): 27.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395387

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395387

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3000K)

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°	1456	1456	1456
5°	1472	1433	1410
10°	1472	1422	1406
15°	1475	1417	1413
20°	1477	1418	1426
25°	1475	1419	1444
30°	1466	1421	1455
35°	1463	1414	1456
40°	1458	1383	1438
45°	1443	1350	1402
50°	1430	1305	1340
55°	1400	1240	1262
60°	1366	1152	1165
65°	1310	1035	1033
70°	1216	881	875
75°	1050	702	702
80°	813	499	515
85°	479	308	345



TEST NUMBER: P395387

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	0.7
10°-20°	75.3	2.2
20°-30°	120.7	3.5
30°-40°	154.4	4.4
40°-50°	168.3	4.8
50°-60°	157.7	4.5
60°-70°	122.4	3.5
70°-80°	70.1	2.0
80°-90°	22.4	0.6
90°-100°	90.0	2.6
100°-110°	350.0	10.0
110°-120°	476.5	13.6
120°-130°	494.6	14.2
130°-140°	438.7	12.6
140°-150°	340.4	9.8
150°-160°	227.2	6.5
160°-170°	121.1	3.5
170°-180°	35.4	1.0
0°-30°	221.4	6.3
0°-40°	375.8	10.8
0°-60°	701.8	20.1
0°-90°	916.8	26.3
90°-120°	916.5	26.3
90°-150°	2190.2	62.7
90°-180°	2574.0	73.7
0°-180°	3490.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	265	265	265	265	265	
5°	268	265	266	265	263	25
15°	262	261	267	270	270	74
25°	248	250	263	272	275	114
35°	224	229	250	263	268	141
45°	194	202	220	234	240	150
55°	155	163	178	191	194	139
65°	110	115	125	133	136	108
75°	57	60	66	72	74	61
85°	11	13	20	25	26	14
90°	1	3	7	9	11	1
95°	11	64	87	18	17	15
105°	74	224	380	452	495	79
115°	155	347	535	629	690	153
125°	224	409	603	708	762	201
135°	281	430	609	714	756	216
145°	320	430	571	663	697	201
155°	345	407	506	574	600	159
165°	359	374	430	471	483	102
175°	363	361	362	364	364	35
180°	356	356	356	356	356	



TEST NUMBER: P395387

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9
2.5°	268.6	267.7	267.7	265.8	265.8	264.9	264.9	264.9	264.9	264.9	265.8
5°	267.7	267.7	266.8	265.8	265.8	264.9	264.9	264.9	264.9	264.9	265.8
7.5°	266.8	266.8	265.8	264.9	264.9	264.9	264.9	264.9	264.9	264.9	266.8
10°	265.8	265.8	264.9	263.9	263.9	263.9	263.9	264.9	264.9	264.9	266.8
12.5°	263.9	263.0	263.0	262.1	262.1	262.1	263.0	263.0	263.9	264.9	266.8
15°	262.1	262.1	261.1	260.2	261.1	261.1	261.1	262.1	263.0	263.9	266.8
17.5°	259.3	259.3	258.3	258.3	258.3	259.3	259.3	260.2	262.1	263.9	265.8
20°	256.4	255.5	255.5	255.5	256.4	256.4	257.4	259.3	260.2	263.0	265.8
22.5°	251.7	252.7	251.7	251.7	252.7	253.6	254.6	256.4	258.3	261.1	263.9
25°	248.0	248.0	248.0	248.0	249.9	249.9	251.7	253.6	256.4	259.3	263.0
27.5°	243.3	243.3	243.3	244.2	245.2	246.1	247.0	249.9	252.7	256.4	260.2
30°	236.7	236.7	236.7	236.7	239.5	240.5	242.3	246.1	248.9	253.6	258.3
32.5°	231.1	231.1	231.1	232.0	233.9	234.8	236.7	241.4	245.2	249.9	254.6
35°	224.5	224.5	225.4	225.4	228.3	229.2	231.1	234.8	238.6	244.2	249.9
37.5°	217.9	217.9	218.9	219.8	221.7	223.6	225.4	229.2	232.9	237.6	243.3
40°	210.4	210.4	211.3	212.3	215.1	217.0	218.9	222.6	226.4	231.1	235.8
42.5°	202.9	202.9	203.8	204.8	207.6	209.5	211.3	216.0	219.8	224.5	228.3
45°	193.5	194.4	195.4	197.3	200.1	202.0	203.8	207.6	212.3	216.0	219.8
47.5°	185.0	186.0	186.9	188.8	191.6	193.5	195.4	199.1	202.9	206.6	211.3
50°	175.7	176.6	177.5	179.4	182.2	184.1	186.0	189.7	193.5	196.3	201.0
52.5°	165.3	166.3	167.2	169.1	172.8	173.8	175.7	179.4	182.2	186.0	189.7
55°	155.0	155.9	156.9	158.7	161.6	163.4	164.4	168.1	171.0	174.7	178.5
57.5°	144.7	145.6	146.5	148.4	150.3	152.2	153.1	155.9	159.7	162.5	166.3
60°	133.4	134.3	135.3	136.2	139.0	140.0	140.9	143.7	146.5	150.3	153.1
62.5°	122.1	122.1	123.1	124.0	126.8	127.7	128.7	130.6	134.3	136.2	139.0
65°	109.9	109.9	110.8	111.8	113.7	114.6	115.5	117.4	120.2	122.1	124.9
67.5°	96.7	96.7	97.7	98.6	100.5	101.4	101.4	104.3	106.1	108.0	109.9
70°	84.5	84.5	85.5	85.5	86.4	87.4	88.3	90.2	91.1	93.9	94.9
72.5°	71.4	71.4	71.4	71.4	73.3	73.3	74.2	76.1	77.0	78.9	80.8
75°	57.3	57.3	58.2	58.2	59.2	60.1	61.1	62.0	63.9	64.8	65.8
77.5°	45.1	44.1	45.1	46.0	47.0	47.0	47.9	48.8	49.8	51.7	52.6
80°	31.9	31.9	31.9	32.9	33.8	33.8	34.8	35.7	36.6	38.5	39.5
82.5°	20.7	20.7	21.6	21.6	22.5	23.5	23.5	24.4	25.4	27.2	28.2
85°	11.3	11.3	11.3	12.2	13.2	13.2	14.1	15.0	16.9	17.8	19.7
87.5°	3.8	3.8	4.7	5.6	6.6	6.6	7.5	8.5	9.4	11.3	12.2
90°	0.9	0.9	0.9	1.9	1.9	2.8	2.8	3.8	4.7	5.6	6.6
92.5°	3.8	6.6	10.3	15.0	14.1	15.0	10.3	6.6	6.6	6.6	7.5
95°	11.3	16.9	27.2	43.2	56.4	63.9	70.4	77.0	90.2	91.1	87.4
97.5°	22.5	31.0	49.8	70.4	93.9	106.1	115.5	135.3	155.9	169.1	185.0
100°	37.6	49.8	74.2	102.4	129.6	145.6	160.6	188.8	214.2	236.7	261.1
102.5°	55.4	69.5	99.6	134.3	168.1	186.0	202.0	234.8	269.6	299.6	325.9
105°	74.2	90.2	125.9	165.3	203.8	224.5	244.2	279.9	316.5	349.4	380.4
107.5°	94.9	111.8	150.3	194.4	237.6	261.1	282.7	321.2	359.8	395.5	428.3
110°	114.6	133.4	173.8	221.7	270.5	294.0	315.6	357.9	398.3	435.8	470.6



TEST NUMBER: P395387

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	135.3	155.0	195.4	248.0	297.8	322.2	344.7	389.8	432.1	470.6	505.4
115°	155.0	173.8	216.0	270.5	321.2	346.6	371.0	417.1	461.2	499.7	535.4
117.5°	173.8	191.6	234.8	289.3	341.9	367.3	391.7	439.6	483.7	524.1	558.9
120°	192.6	208.5	255.5	305.3	358.8	384.2	409.5	457.4	502.5	542.9	578.6
122.5°	209.5	224.5	270.5	319.4	372.0	398.3	422.7	471.5	517.6	558.0	592.7
125°	224.5	238.6	284.6	330.6	383.2	408.6	434.0	481.9	527.9	567.3	603.0
127.5°	239.5	253.6	294.9	341.9	390.8	417.1	441.5	489.4	534.5	574.9	609.6
130°	255.5	265.8	305.3	352.2	398.3	422.7	448.1	494.1	538.2	577.7	612.4
132.5°	268.6	278.0	315.6	360.7	403.9	427.4	449.9	496.0	540.1	577.7	611.5
135°	280.9	288.4	323.1	368.2	408.6	430.2	451.8	495.0	538.2	575.8	608.7
137.5°	292.1	299.6	329.7	373.8	412.4	431.1	451.8	492.2	533.5	571.1	602.1
140°	302.5	308.1	335.3	376.7	414.2	432.1	449.9	487.5	526.0	562.6	593.6
142.5°	312.8	317.5	340.0	378.5	415.2	432.1	449.0	481.9	517.6	553.3	584.3
145°	320.3	325.0	343.8	379.5	414.2	430.2	445.2	476.2	508.2	541.0	571.1
147.5°	328.8	332.5	347.5	377.6	411.4	426.4	440.5	468.7	497.8	527.9	556.1
150°	334.4	338.2	349.4	375.7	406.7	420.8	434.9	461.2	487.5	513.8	538.2
152.5°	340.0	342.8	352.2	372.9	401.1	414.2	427.4	452.7	477.2	500.7	522.3
155°	344.7	347.5	354.1	371.0	394.5	406.7	418.9	443.4	465.9	486.6	506.3
157.5°	349.4	351.3	356.0	368.2	387.0	398.3	409.5	431.1	451.8	472.5	488.4
160°	353.2	354.1	357.9	367.3	380.4	388.9	399.2	418.9	437.7	455.6	470.6
162.5°	356.9	356.9	359.8	365.4	374.8	380.4	387.9	404.8	421.8	437.7	451.8
165°	358.8	358.8	360.7	364.5	370.1	373.8	378.5	389.8	403.0	417.1	430.2
167.5°	360.7	360.7	361.6	363.5	367.3	369.2	371.0	378.5	387.0	397.3	407.7
170°	362.6	361.6	361.6	363.5	364.5	365.4	366.3	370.1	373.8	380.4	386.1
172.5°	362.6	361.6	361.6	362.6	362.6	362.6	362.6	363.5	364.5	368.2	370.1
175°	362.6	361.6	361.6	361.6	361.6	360.7	360.7	360.7	360.7	360.7	361.6
177.5°	362.6	361.6	360.7	360.7	359.8	359.8	358.8	358.8	357.9	357.9	357.9
180°	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0



TEST NUMBER: P395387

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9	264.9
2.5°	265.8	265.8	264.9	264.9	263.9	263.9	263.0	262.1	261.1	261.1
5°	266.8	265.8	264.9	264.9	264.9	263.9	263.9	263.9	263.0	263.0
7.5°	266.8	266.8	266.8	265.8	265.8	265.8	265.8	265.8	264.9	264.9
10°	267.7	267.7	267.7	267.7	267.7	267.7	267.7	266.8	266.8	266.8
12.5°	267.7	267.7	267.7	268.6	268.6	268.6	268.6	268.6	268.6	268.6
15°	268.6	268.6	269.6	269.6	270.5	270.5	271.5	271.5	271.5	270.5
17.5°	267.7	268.6	269.6	270.5	271.5	271.5	272.4	272.4	272.4	272.4
20°	267.7	269.6	270.5	271.5	272.4	272.4	273.3	274.3	274.3	273.3
22.5°	266.8	268.6	269.6	271.5	272.4	272.4	274.3	274.3	274.3	274.3
25°	265.8	267.7	269.6	271.5	272.4	272.4	274.3	274.3	275.2	275.2
27.5°	263.9	265.8	268.6	270.5	271.5	272.4	273.3	274.3	274.3	274.3
30°	261.1	263.9	266.8	268.6	269.6	270.5	271.5	272.4	273.3	273.3
32.5°	257.4	260.2	263.0	265.8	266.8	267.7	269.6	270.5	270.5	270.5
35°	253.6	256.4	259.3	262.1	263.0	263.9	265.8	266.8	267.7	267.7
37.5°	248.0	250.8	253.6	256.4	257.4	259.3	261.1	262.1	262.1	262.1
40°	239.5	244.2	248.0	250.8	251.7	253.6	254.6	256.4	256.4	256.4
42.5°	232.0	235.8	238.6	242.3	243.3	246.1	248.0	248.9	249.9	249.9
45°	223.6	227.3	230.1	232.9	233.9	235.8	237.6	238.6	239.5	240.5
47.5°	215.1	217.9	220.7	223.6	224.5	226.4	228.3	229.2	230.1	230.1
50°	204.8	207.6	210.4	213.2	214.2	216.0	217.0	217.9	218.9	218.9
52.5°	193.5	196.3	199.1	202.0	202.9	203.8	205.7	206.6	207.6	207.6
55°	182.2	185.0	186.9	189.7	190.7	191.6	192.6	194.4	195.4	194.4
57.5°	169.1	171.9	173.8	176.6	177.5	178.5	179.4	180.3	181.3	181.3
60°	155.0	157.8	160.6	162.5	163.4	164.4	165.3	166.3	167.2	167.2
62.5°	140.9	143.7	145.6	148.4	149.4	149.4	150.3	151.2	152.2	152.2
65°	126.8	129.6	130.6	133.4	133.4	134.3	135.3	136.2	136.2	136.2
67.5°	111.8	114.6	115.5	117.4	117.4	118.4	119.3	120.2	120.2	120.2
70°	97.7	98.6	100.5	101.4	102.4	102.4	103.3	104.3	105.2	104.3
72.5°	82.7	83.6	85.5	86.4	86.4	87.4	87.4	88.3	89.2	89.2
75°	67.6	69.5	70.4	71.4	72.3	72.3	73.3	74.2	74.2	74.2
77.5°	53.5	55.4	56.4	57.3	58.2	58.2	59.2	59.2	60.1	59.2
80°	41.3	42.3	43.2	44.1	45.1	45.1	46.0	47.0	47.0	47.0
82.5°	30.1	31.0	32.9	33.8	33.8	33.8	35.7	35.7	36.6	35.7
85°	20.7	21.6	23.5	24.4	25.4	25.4	25.4	26.3	27.2	26.3
87.5°	13.2	15.0	16.0	16.9	16.9	16.9	17.8	18.8	18.8	18.8
90°	7.5	7.5	8.5	9.4	9.4	10.3	10.3	11.3	11.3	11.3
92.5°	7.5	8.5	8.5	8.5	9.4	9.4	9.4	10.3	10.3	10.3
95°	63.9	46.0	26.3	20.7	17.8	17.8	16.9	17.8	16.9	16.9
97.5°	193.5	209.5	217.0	227.3	232.9	232.0	228.3	232.0	229.2	232.0
100°	275.2	290.2	301.5	304.3	310.0	312.8	323.1	330.6	334.4	339.1
102.5°	341.9	359.8	372.9	380.4	386.1	389.8	402.0	413.3	418.9	422.7
105°	403.0	421.8	437.7	445.2	451.8	455.6	468.7	481.9	490.3	495.0
107.5°	451.8	473.4	490.3	501.6	508.2	514.7	530.7	543.9	554.2	558.9
110°	496.0	517.6	535.4	548.6	556.1	562.6	580.5	595.5	606.8	612.4



TEST NUMBER: P395387

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	532.6	556.1	573.9	588.0	595.5	604.9	621.8	638.7	650.0	656.6
115°	562.6	587.1	605.9	620.9	629.3	637.8	657.5	674.4	685.7	690.4
117.5°	588.0	612.4	632.2	647.2	656.6	666.0	685.7	700.7	712.9	716.7
120°	608.7	633.1	652.8	669.7	679.1	687.6	706.4	722.3	733.6	736.4
122.5°	622.8	648.1	668.8	687.6	696.0	704.5	722.3	738.3	748.6	751.5
125°	633.1	659.4	680.1	699.8	708.2	716.7	733.6	749.6	758.0	761.8
127.5°	639.7	666.0	688.5	707.3	716.7	724.2	741.1	755.2	763.7	766.5
130°	641.6	668.8	691.3	711.1	719.5	727.0	743.0	757.1	764.6	766.5
132.5°	641.6	667.9	691.3	710.1	718.6	726.1	741.1	754.3	761.8	763.7
135°	637.8	663.2	686.6	705.4	713.9	721.4	736.4	747.7	755.2	756.1
137.5°	631.2	655.6	678.2	697.0	705.4	712.9	726.1	738.3	744.9	746.8
140°	622.8	645.3	667.9	685.7	694.2	700.7	713.9	724.2	730.8	732.7
142.5°	611.5	634.0	654.7	672.5	679.1	686.6	697.9	708.2	713.9	715.8
145°	599.3	620.9	639.7	655.6	663.2	669.7	680.1	689.5	695.1	697.0
147.5°	583.3	604.9	622.8	637.8	644.4	650.9	660.3	668.8	674.4	676.3
150°	563.6	583.3	602.1	616.2	622.8	629.3	638.7	646.2	651.9	652.8
152.5°	543.9	562.6	578.6	592.7	599.3	605.9	614.3	621.8	628.4	628.4
155°	525.1	541.0	556.1	568.3	573.9	579.6	588.0	594.6	600.2	600.2
157.5°	505.4	520.4	532.6	543.9	548.6	553.3	560.8	566.4	571.1	570.2
160°	486.6	497.8	509.1	518.5	523.2	527.0	532.6	537.3	542.0	541.0
162.5°	465.9	476.2	485.6	492.2	496.0	498.8	504.4	509.1	511.9	511.9
165°	442.4	451.8	460.3	466.8	470.6	472.5	477.2	480.0	482.8	482.8
167.5°	418.0	425.5	433.0	438.7	442.4	444.3	449.0	450.9	454.6	453.7
170°	393.6	399.2	404.8	409.5	411.4	413.3	417.1	418.9	420.8	420.8
172.5°	373.8	375.7	378.5	382.3	382.3	383.2	385.1	386.1	387.0	387.0
175°	362.6	363.5	363.5	363.5	363.5	363.5	364.5	363.5	364.5	363.5
177.5°	357.9	357.9	356.9	356.9	356.0	356.9	356.0	355.1	355.1	354.1
180°	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0

(END OF REPORT)