

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: P395386

Luminaire Tested: **I3-CL-40L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395386
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 (2700K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3394.5 lumens
Efficiency: N/A
Efficacy: 121.7 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

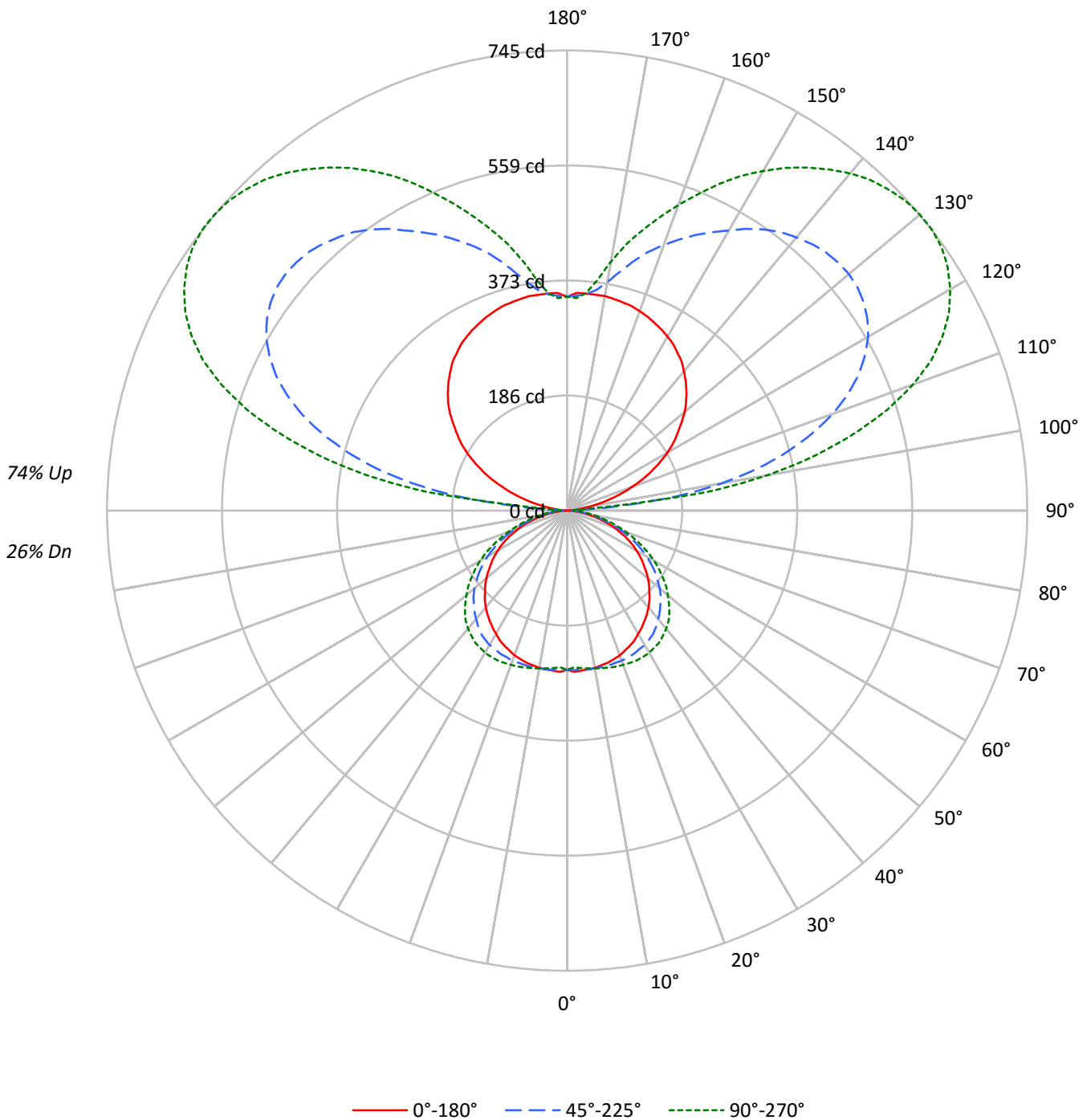
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1416	1416	1416
5°	1431	1394	1371
10°	1432	1383	1367
15°	1434	1378	1374
20°	1437	1379	1387
25°	1434	1380	1405
30°	1426	1382	1415
35°	1422	1375	1416
40°	1417	1345	1398
45°	1403	1312	1363
50°	1390	1270	1302
55°	1361	1206	1228
60°	1328	1121	1133
65°	1274	1006	1004
70°	1183	857	851
75°	1021	681	683
80°	793	485	500
85°	467	300	336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	0.7
10°-20°	73.2	2.2
20°-30°	117.4	3.5
30°-40°	150.1	4.4
40°-50°	163.7	4.8
50°-60°	153.4	4.5
60°-70°	119.0	3.5
70°-80°	68.2	2.0
80°-90°	21.8	0.6
90°-100°	87.5	2.6
100°-110°	340.3	10.0
110°-120°	463.3	13.6
120°-130°	481.0	14.2
130°-140°	426.6	12.6
140°-150°	331.0	9.8
150°-160°	220.9	6.5
160°-170°	117.7	3.5
170°-180°	34.5	1.0
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0°-30°	215.3	6.3
0°-40°	365.4	10.8
0°-60°	682.5	20.1
0°-90°	891.5	26.3
90°-120°	891.2	26.3
90°-150°	2129.8	62.7
90°-180°	2503.0	73.7
0°-180°	3394.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	258	258	258	258	258	
5°	260	258	258	258	256	25
15°	255	254	259	263	263	72
25°	241	243	256	265	268	111
35°	218	223	243	256	260	137
45°	188	196	214	227	234	145
55°	151	159	174	185	189	135
65°	107	111	122	130	132	105
75°	56	58	64	70	72	59
85°	11	13	19	25	26	13
90°	1	3	6	9	11	1
95°	11	62	85	17	16	14
105°	72	218	370	439	481	77
115°	151	337	521	612	671	149
125°	218	397	586	689	741	195
135°	273	418	592	694	735	210
145°	312	418	555	645	678	195
155°	335	396	492	558	584	155
165°	349	364	418	458	470	99
175°	353	351	352	354	354	34
180°	346	346	346	346	346	



TEST NUMBER: P395386

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	257.6	257.6	257.6	257.6	257.6	257.6	257.6	257.6	257.6	257.6	257.6
2.5°	261.2	260.3	260.3	258.5	258.5	257.6	257.6	257.6	257.6	257.6	258.5
5°	260.3	260.3	259.4	258.5	258.5	257.6	257.6	257.6	257.6	257.6	258.5
7.5°	259.4	259.4	258.5	257.6	257.6	257.6	257.6	257.6	257.6	257.6	259.4
10°	258.5	258.5	257.6	256.7	256.7	256.7	256.7	257.6	257.6	257.6	259.4
12.5°	256.7	255.8	255.8	254.9	254.9	254.9	255.8	255.8	256.7	257.6	259.4
15°	254.9	254.9	253.9	253.0	253.9	253.9	253.9	254.9	255.8	256.7	259.4
17.5°	252.1	252.1	251.2	251.2	251.2	252.1	252.1	253.0	254.9	256.7	258.5
20°	249.4	248.5	248.5	248.5	249.4	249.4	250.3	252.1	253.0	255.8	258.5
22.5°	244.8	245.7	244.8	244.8	245.7	246.6	247.5	249.4	251.2	253.9	256.7
25°	241.1	241.1	241.1	241.1	243.0	243.0	244.8	246.6	249.4	252.1	255.8
27.5°	236.6	236.6	236.6	237.5	238.4	239.3	240.2	243.0	245.7	249.4	253.0
30°	230.2	230.2	230.2	230.2	232.9	233.8	235.7	239.3	242.1	246.6	251.2
32.5°	224.7	224.7	224.7	225.6	227.4	228.4	230.2	234.8	238.4	243.0	247.5
35°	218.3	218.3	219.2	219.2	222.0	222.9	224.7	228.4	232.0	237.5	243.0
37.5°	211.9	211.9	212.8	213.7	215.6	217.4	219.2	222.9	226.5	231.1	236.6
40°	204.6	204.6	205.5	206.4	209.2	211.0	212.8	216.5	220.1	224.7	229.3
42.5°	197.3	197.3	198.2	199.1	201.9	203.7	205.5	210.1	213.7	218.3	222.0
45°	188.2	189.1	190.0	191.8	194.6	196.4	198.2	201.9	206.4	210.1	213.7
47.5°	179.9	180.9	181.8	183.6	186.3	188.2	190.0	193.6	197.3	201.0	205.5
50°	170.8	171.7	172.6	174.5	177.2	179.0	180.9	184.5	188.2	190.9	195.5
52.5°	160.8	161.7	162.6	164.4	168.1	169.0	170.8	174.5	177.2	180.9	184.5
55°	150.7	151.6	152.5	154.4	157.1	158.9	159.9	163.5	166.2	169.9	173.6
57.5°	140.7	141.6	142.5	144.3	146.2	148.0	148.9	151.6	155.3	158.0	161.7
60°	129.7	130.6	131.5	132.4	135.2	136.1	137.0	139.8	142.5	146.2	148.9
62.5°	118.7	118.7	119.7	120.6	123.3	124.2	125.1	127.0	130.6	132.4	135.2
65°	106.9	106.9	107.8	108.7	110.5	111.4	112.4	114.2	116.9	118.7	121.5
67.5°	94.1	94.1	95.0	95.9	97.7	98.7	98.7	101.4	103.2	105.0	106.9
70°	82.2	82.2	83.1	83.1	84.0	85.0	85.9	87.7	88.6	91.3	92.3
72.5°	69.4	69.4	69.4	69.4	71.2	71.2	72.2	74.0	74.9	76.7	78.6
75°	55.7	55.7	56.6	56.6	57.5	58.5	59.4	60.3	62.1	63.0	63.9
77.5°	43.8	42.9	43.8	44.8	45.7	45.7	46.6	47.5	48.4	50.2	51.2
80°	31.1	31.1	31.1	32.0	32.9	32.9	33.8	34.7	35.6	37.5	38.4
82.5°	20.1	20.1	21.0	21.0	21.9	22.8	22.8	23.7	24.7	26.5	27.4
85°	11.0	11.0	11.0	11.9	12.8	12.8	13.7	14.6	16.4	17.4	19.2
87.5°	3.7	3.7	4.6	5.5	6.4	6.4	7.3	8.2	9.1	11.0	11.9
90°	0.9	0.9	0.9	1.8	1.8	2.7	2.7	3.7	4.6	5.5	6.4
92.5°	3.7	6.4	10.0	14.6	13.7	14.6	10.0	6.4	6.4	6.4	7.3
95°	11.0	16.4	26.5	42.0	54.8	62.1	68.5	74.9	87.7	88.6	85.0
97.5°	21.9	30.1	48.4	68.5	91.3	103.2	112.4	131.5	151.6	164.4	179.9
100°	36.5	48.4	72.2	99.6	126.1	141.6	156.2	183.6	208.3	230.2	253.9
102.5°	53.9	67.6	96.8	130.6	163.5	180.9	196.4	228.4	262.2	291.4	317.0
105°	72.2	87.7	122.4	160.8	198.2	218.3	237.5	272.2	307.8	339.8	369.9
107.5°	92.3	108.7	146.2	189.1	231.1	253.9	274.9	312.4	349.8	384.6	416.5
110°	111.4	129.7	169.0	215.6	263.1	285.9	306.9	348.0	387.3	423.8	457.6



TEST NUMBER: P395386

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	131.5	150.7	190.0	241.1	289.6	313.3	335.2	379.1	420.2	457.6	491.4
115°	150.7	169.0	210.1	263.1	312.4	337.1	360.8	405.6	448.5	486.0	520.7
117.5°	169.0	186.3	228.4	281.3	332.5	357.2	380.9	427.5	470.4	509.7	543.5
120°	187.3	202.8	248.5	296.9	348.9	373.6	398.3	444.8	488.7	528.0	562.7
122.5°	203.7	218.3	263.1	310.6	361.7	387.3	411.0	458.5	503.3	542.6	576.4
125°	218.3	232.0	276.8	321.5	372.7	397.3	422.0	468.6	513.4	551.7	586.4
127.5°	232.9	246.6	286.8	332.5	380.0	405.6	429.3	475.9	519.7	559.0	592.8
130°	248.5	258.5	296.9	342.5	387.3	411.0	435.7	480.5	523.4	561.8	595.6
132.5°	261.2	270.4	306.9	350.8	392.8	415.6	437.5	482.3	525.2	561.8	594.7
135°	273.1	280.4	314.2	358.1	397.3	418.4	439.4	481.4	523.4	559.9	591.9
137.5°	284.1	291.4	320.6	363.6	401.0	419.3	439.4	478.6	518.8	555.4	585.5
140°	294.1	299.6	326.1	366.3	402.8	420.2	437.5	474.1	511.5	547.2	577.3
142.5°	304.2	308.7	330.7	368.1	403.7	420.2	436.6	468.6	503.3	538.0	568.2
145°	311.5	316.1	334.3	369.0	402.8	418.4	433.0	463.1	494.2	526.1	555.4
147.5°	319.7	323.4	338.0	367.2	400.1	414.7	428.4	455.8	484.1	513.4	540.8
150°	325.2	328.8	339.8	365.4	395.5	409.2	422.9	448.5	474.1	499.7	523.4
152.5°	330.7	333.4	342.5	362.6	390.0	402.8	415.6	440.3	464.0	486.9	507.9
155°	335.2	338.0	344.4	360.8	383.6	395.5	407.4	431.1	453.1	473.2	492.3
157.5°	339.8	341.6	346.2	358.1	376.3	387.3	398.3	419.3	439.4	459.5	475.0
160°	343.5	344.4	348.0	357.2	369.9	378.2	388.2	407.4	425.7	443.0	457.6
162.5°	347.1	347.1	349.8	355.3	364.5	369.9	377.3	393.7	410.1	425.7	439.4
165°	348.9	348.9	350.8	354.4	359.9	363.6	368.1	379.1	391.9	405.6	418.4
167.5°	350.8	350.8	351.7	353.5	357.2	359.0	360.8	368.1	376.3	386.4	396.4
170°	352.6	351.7	351.7	353.5	354.4	355.3	356.2	359.9	363.6	369.9	375.4
172.5°	352.6	351.7	351.7	352.6	352.6	352.6	352.6	353.5	354.4	358.1	359.9
175°	352.6	351.7	351.7	351.7	351.7	350.8	350.8	350.8	350.8	350.8	351.7
177.5°	352.6	351.7	350.8	350.8	349.8	349.8	348.9	348.9	348.0	348.0	348.0
180°	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	257.6	257.6	257.6	257.6	257.6	257.6	257.6	257.6	257.6	257.6
2.5°	258.5	258.5	257.6	257.6	256.7	256.7	255.8	254.9	253.9	253.9
5°	259.4	258.5	257.6	257.6	257.6	256.7	256.7	256.7	255.8	255.8
7.5°	259.4	259.4	259.4	258.5	258.5	258.5	258.5	258.5	257.6	257.6
10°	260.3	260.3	260.3	260.3	260.3	260.3	260.3	259.4	259.4	259.4
12.5°	260.3	260.3	260.3	261.2	261.2	261.2	261.2	261.2	261.2	261.2
15°	261.2	261.2	262.2	262.2	263.1	263.1	264.0	264.0	264.0	263.1
17.5°	260.3	261.2	262.2	263.1	264.0	264.0	264.9	264.9	264.9	264.9
20°	260.3	262.2	263.1	264.0	264.9	264.9	265.8	266.7	266.7	265.8
22.5°	259.4	261.2	262.2	264.0	264.9	264.9	266.7	266.7	266.7	266.7
25°	258.5	260.3	262.2	264.0	264.9	264.9	266.7	266.7	267.6	267.6
27.5°	256.7	258.5	261.2	263.1	264.0	264.9	265.8	266.7	266.7	266.7
30°	253.9	256.7	259.4	261.2	262.2	263.1	264.0	264.9	265.8	265.8
32.5°	250.3	253.0	255.8	258.5	259.4	260.3	262.2	263.1	263.1	263.1
35°	246.6	249.4	252.1	254.9	255.8	256.7	258.5	259.4	260.3	260.3
37.5°	241.1	243.9	246.6	249.4	250.3	252.1	253.9	254.9	254.9	254.9
40°	232.9	237.5	241.1	243.9	244.8	246.6	247.5	249.4	249.4	249.4
42.5°	225.6	229.3	232.0	235.7	236.6	239.3	241.1	242.1	243.0	243.0
45°	217.4	221.1	223.8	226.5	227.4	229.3	231.1	232.0	232.9	233.8
47.5°	209.2	211.9	214.7	217.4	218.3	220.1	222.0	222.9	223.8	223.8
50°	199.1	201.9	204.6	207.4	208.3	210.1	211.0	211.9	212.8	212.8
52.5°	188.2	190.9	193.6	196.4	197.3	198.2	200.0	201.0	201.9	201.9
55°	177.2	179.9	181.8	184.5	185.4	186.3	187.3	189.1	190.0	189.1
57.5°	164.4	167.2	169.0	171.7	172.6	173.6	174.5	175.4	176.3	176.3
60°	150.7	153.5	156.2	158.0	158.9	159.9	160.8	161.7	162.6	162.6
62.5°	137.0	139.8	141.6	144.3	145.2	145.2	146.2	147.1	148.0	148.0
65°	123.3	126.1	127.0	129.7	129.7	130.6	131.5	132.4	132.4	132.4
67.5°	108.7	111.4	112.4	114.2	114.2	115.1	116.0	116.9	116.9	116.9
70°	95.0	95.9	97.7	98.7	99.6	99.6	100.5	101.4	102.3	101.4
72.5°	80.4	81.3	83.1	84.0	84.0	85.0	85.0	85.9	86.8	86.8
75°	65.8	67.6	68.5	69.4	70.3	70.3	71.2	72.2	72.2	72.2
77.5°	52.1	53.9	54.8	55.7	56.6	56.6	57.5	57.5	58.5	57.5
80°	40.2	41.1	42.0	42.9	43.8	43.8	44.8	45.7	45.7	45.7
82.5°	29.2	30.1	32.0	32.9	32.9	32.9	34.7	34.7	35.6	34.7
85°	20.1	21.0	22.8	23.7	24.7	24.7	24.7	25.6	26.5	25.6
87.5°	12.8	14.6	15.5	16.4	16.4	16.4	17.4	18.3	18.3	18.3
90°	7.3	7.3	8.2	9.1	9.1	10.0	10.0	11.0	11.0	11.0
92.5°	7.3	8.2	8.2	8.2	9.1	9.1	9.1	10.0	10.0	10.0
95°	62.1	44.8	25.6	20.1	17.4	17.4	16.4	17.4	16.4	16.4
97.5°	188.2	203.7	211.0	221.1	226.5	225.6	222.0	225.6	222.9	225.6
100°	267.6	282.3	293.2	296.0	301.4	304.2	314.2	321.5	325.2	329.8
102.5°	332.5	349.8	362.6	369.9	375.4	379.1	391.0	401.9	407.4	411.0
105°	391.9	410.1	425.7	433.0	439.4	443.0	455.8	468.6	476.8	481.4
107.5°	439.4	460.4	476.8	487.8	494.2	500.6	516.1	528.9	538.9	543.5
110°	482.3	503.3	520.7	533.5	540.8	547.2	564.5	579.1	590.1	595.6



TEST NUMBER: P395386

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	517.9	540.8	558.1	571.8	579.1	588.3	604.7	621.1	632.1	638.5
115°	547.2	570.9	589.2	603.8	612.0	620.2	639.4	655.9	666.8	671.4
117.5°	571.8	595.6	614.7	629.4	638.5	647.6	666.8	681.4	693.3	697.0
120°	591.9	615.7	634.8	651.3	660.4	668.6	686.9	702.4	713.4	716.1
122.5°	605.6	630.3	650.4	668.6	676.9	685.1	702.4	718.0	728.0	730.8
125°	615.7	641.2	661.3	680.5	688.7	697.0	713.4	728.9	737.1	740.8
127.5°	622.1	647.6	669.6	687.8	697.0	704.3	720.7	734.4	742.6	745.4
130°	623.9	650.4	672.3	691.5	699.7	707.0	722.5	736.2	743.5	745.4
132.5°	623.9	649.5	672.3	690.6	698.8	706.1	720.7	733.5	740.8	742.6
135°	620.2	644.9	667.7	686.0	694.2	701.5	716.1	727.1	734.4	735.3
137.5°	613.8	637.6	659.5	677.8	686.0	693.3	706.1	718.0	724.4	726.2
140°	605.6	627.5	649.5	666.8	675.0	681.4	694.2	704.3	710.7	712.5
142.5°	594.7	616.6	636.7	654.0	660.4	667.7	678.7	688.7	694.2	696.0
145°	582.8	603.8	622.1	637.6	644.9	651.3	661.3	670.5	675.9	677.8
147.5°	567.2	588.3	605.6	620.2	626.6	633.0	642.2	650.4	655.9	657.7
150°	548.1	567.2	585.5	599.2	605.6	612.0	621.1	628.4	633.9	634.8
152.5°	528.9	547.2	562.7	576.4	582.8	589.2	597.4	604.7	611.1	611.1
155°	510.6	526.1	540.8	552.6	558.1	563.6	571.8	578.2	583.7	583.7
157.5°	491.4	506.0	517.9	528.9	533.5	538.0	545.3	550.8	555.4	554.5
160°	473.2	484.1	495.1	504.2	508.8	512.4	517.9	522.5	527.1	526.1
162.5°	453.1	463.1	472.3	478.6	482.3	485.0	490.5	495.1	497.8	497.8
165°	430.2	439.4	447.6	454.0	457.6	459.5	464.0	466.8	469.5	469.5
167.5°	406.5	413.8	421.1	426.6	430.2	432.1	436.6	438.5	442.1	441.2
170°	382.7	388.2	393.7	398.3	400.1	401.9	405.6	407.4	409.2	409.2
172.5°	363.6	365.4	368.1	371.8	371.8	372.7	374.5	375.4	376.3	376.3
175°	352.6	353.5	353.5	353.5	353.5	353.5	354.4	353.5	354.4	353.5
177.5°	348.0	348.0	347.1	347.1	346.2	347.1	346.2	345.3	345.3	344.4
180°	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2

(END OF REPORT)