

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: P395394

Luminaire Tested: **I3-CL-40L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395394
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-40L83050-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3498.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

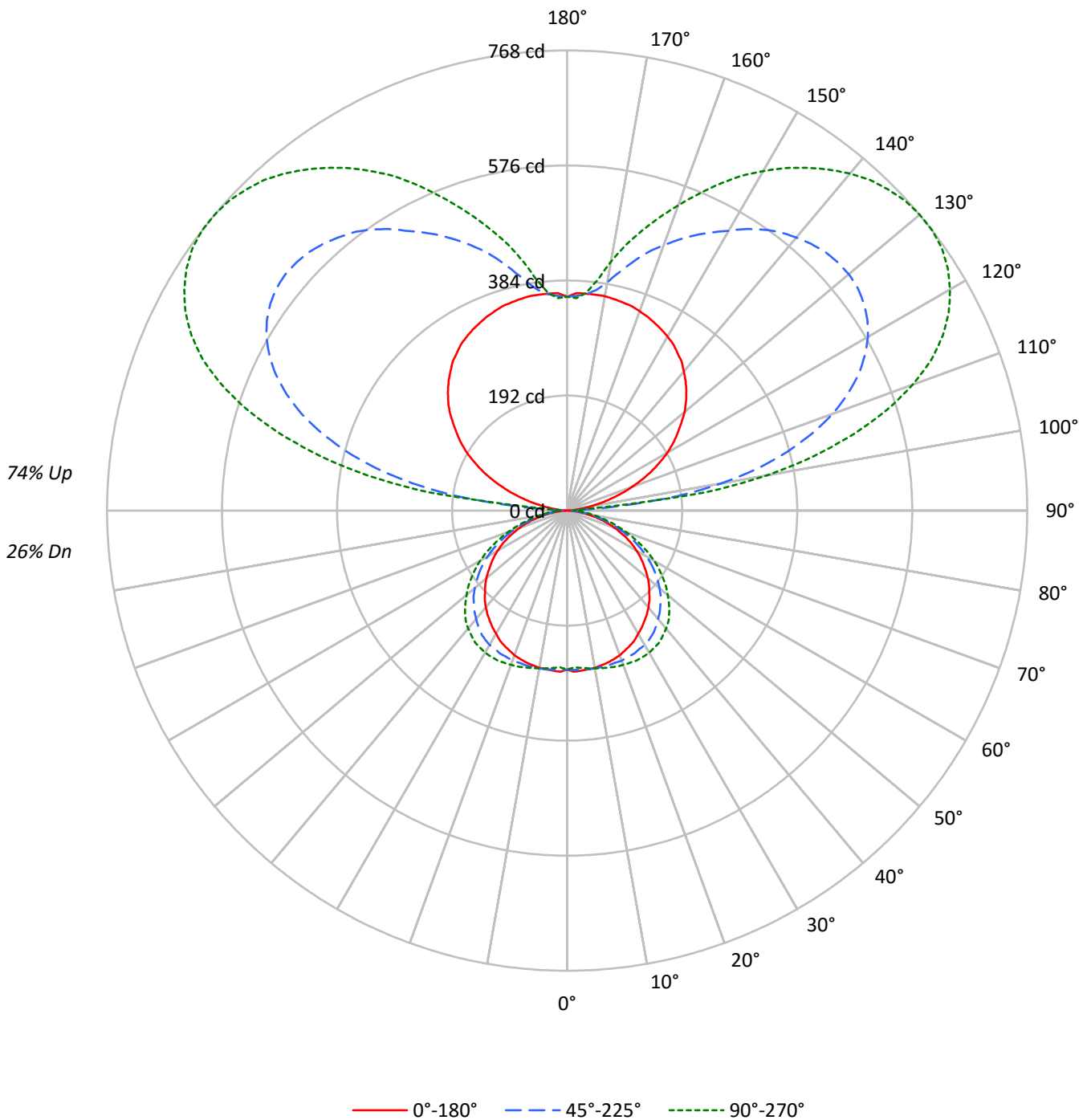
Input Watts (W): 27.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1459	1459	1459
5°	1475	1436	1413
10°	1476	1425	1409
15°	1477	1420	1416
20°	1480	1421	1429
25°	1478	1422	1448
30°	1469	1425	1458
35°	1466	1417	1460
40°	1461	1386	1441
45°	1446	1353	1405
50°	1432	1308	1342
55°	1403	1242	1265
60°	1369	1155	1168
65°	1312	1037	1035
70°	1219	883	877
75°	1052	703	704
80°	816	499	516
85°	479	309	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.7
10°-20°	75.5	2.2
20°-30°	121.0	3.5
30°-40°	154.7	4.4
40°-50°	168.7	4.8
50°-60°	158.1	4.5
60°-70°	122.6	3.5
70°-80°	70.3	2.0
80°-90°	22.5	0.6
90°-100°	90.2	2.6
100°-110°	350.7	10.0
110°-120°	477.5	13.6
120°-130°	495.6	14.2
130°-140°	439.6	12.6
140°-150°	341.1	9.8
150°-160°	227.7	6.5
160°-170°	121.3	3.5
170°-180°	35.5	1.0
0°-30°	221.8	6.3
0°-40°	376.6	10.8
0°-60°	703.3	20.1
0°-90°	918.7	26.3
90°-120°	918.4	26.3
90°-150°	2194.8	62.7
90°-180°	2579.0	73.7
0°-180°	3498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	265	265	265	265	265	
5°	268	265	266	265	264	26
15°	263	262	267	271	271	74
25°	248	250	264	273	276	115
35°	225	230	250	264	268	141
45°	194	202	220	234	241	150
55°	155	164	179	191	195	139
65°	110	115	125	134	136	109
75°	57	60	66	72	74	61
85°	11	13	20	25	26	14
90°	1	3	7	9	11	1
95°	11	64	88	18	17	15
105°	74	225	381	453	496	79
115°	155	347	536	631	692	153
125°	225	410	604	710	763	201
135°	281	431	610	715	758	217
145°	321	431	572	665	698	201
155°	346	408	507	575	602	160
165°	360	375	431	472	484	102
175°	363	362	362	364	364	35
180°	357	357	357	357	357	



TEST NUMBER: P395394

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4
2.5°	269.2	268.3	268.3	266.4	266.4	265.4	265.4	265.4	265.4	265.4	266.4
5°	268.3	268.3	267.3	266.4	266.4	265.4	265.4	265.4	265.4	265.4	266.4
7.5°	267.3	267.3	266.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	267.3
10°	266.4	266.4	265.4	264.5	264.5	264.5	264.5	265.4	265.4	265.4	267.3
12.5°	264.5	263.6	263.6	262.6	262.6	262.6	263.6	263.6	264.5	265.4	267.3
15°	262.6	262.6	261.7	260.7	261.7	261.7	261.7	262.6	263.6	264.5	267.3
17.5°	259.8	259.8	258.9	258.9	258.9	259.8	259.8	260.7	262.6	264.5	266.4
20°	257.0	256.0	256.0	256.0	257.0	257.0	257.9	259.8	260.7	263.6	266.4
22.5°	252.3	253.2	252.3	252.3	253.2	254.2	255.1	257.0	258.9	261.7	264.5
25°	248.5	248.5	248.5	248.5	250.4	250.4	252.3	254.2	257.0	259.8	263.6
27.5°	243.8	243.8	243.8	244.7	245.7	246.6	247.6	250.4	253.2	257.0	260.7
30°	237.2	237.2	237.2	237.2	240.0	241.0	242.9	246.6	249.4	254.2	258.9
32.5°	231.6	231.6	231.6	232.5	234.4	235.3	237.2	241.9	245.7	250.4	255.1
35°	225.0	225.0	225.9	225.9	228.7	229.7	231.6	235.3	239.1	244.7	250.4
37.5°	218.4	218.4	219.3	220.3	222.1	224.0	225.9	229.7	233.4	238.1	243.8
40°	210.9	210.9	211.8	212.7	215.6	217.4	219.3	223.1	226.9	231.6	236.3
42.5°	203.3	203.3	204.3	205.2	208.0	209.9	211.8	216.5	220.3	225.0	228.7
45°	193.9	194.8	195.8	197.7	200.5	202.4	204.3	208.0	212.7	216.5	220.3
47.5°	185.4	186.4	187.3	189.2	192.0	193.9	195.8	199.6	203.3	207.1	211.8
50°	176.0	177.0	177.9	179.8	182.6	184.5	186.4	190.1	193.9	196.7	201.4
52.5°	165.7	166.6	167.6	169.4	173.2	174.1	176.0	179.8	182.6	186.4	190.1
55°	155.3	156.3	157.2	159.1	161.9	163.8	164.7	168.5	171.3	175.1	178.8
57.5°	145.0	145.9	146.8	148.7	150.6	152.5	153.4	156.3	160.0	162.8	166.6
60°	133.7	134.6	135.5	136.5	139.3	140.3	141.2	144.0	146.8	150.6	153.4
62.5°	122.4	122.4	123.3	124.3	127.1	128.0	129.0	130.8	134.6	136.5	139.3
65°	110.1	110.1	111.1	112.0	113.9	114.8	115.8	117.7	120.5	122.4	125.2
67.5°	97.0	97.0	97.9	98.8	100.7	101.7	101.7	104.5	106.4	108.2	110.1
70°	84.7	84.7	85.7	85.7	86.6	87.5	88.5	90.4	91.3	94.1	95.1
72.5°	71.5	71.5	71.5	71.5	73.4	73.4	74.4	76.2	77.2	79.1	81.0
75°	57.4	57.4	58.4	58.4	59.3	60.2	61.2	62.1	64.0	64.9	65.9
77.5°	45.2	44.2	45.2	46.1	47.1	47.1	48.0	48.9	49.9	51.8	52.7
80°	32.0	32.0	32.0	32.9	33.9	33.9	34.8	35.8	36.7	38.6	39.5
82.5°	20.7	20.7	21.6	21.6	22.6	23.5	23.5	24.5	25.4	27.3	28.2
85°	11.3	11.3	11.3	12.2	13.2	13.2	14.1	15.1	16.9	17.9	19.8
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	10.4	15.1	14.1	15.1	10.4	6.6	6.6	6.6	7.5
95°	11.3	16.9	27.3	43.3	56.5	64.0	70.6	77.2	90.4	91.3	87.5
97.5°	22.6	31.1	49.9	70.6	94.1	106.4	115.8	135.5	156.3	169.4	185.4
100°	37.7	49.9	74.4	102.6	129.9	145.9	161.0	189.2	214.6	237.2	261.7
102.5°	55.5	69.7	99.8	134.6	168.5	186.4	202.4	235.3	270.2	300.3	326.6
105°	74.4	90.4	126.1	165.7	204.3	225.0	244.7	280.5	317.2	350.2	381.2
107.5°	95.1	112.0	150.6	194.8	238.1	261.7	283.3	321.9	360.5	396.3	429.2
110°	114.8	133.7	174.1	222.1	271.1	294.6	316.3	358.6	399.1	436.8	471.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	135.5	155.3	195.8	248.5	298.4	322.9	345.5	390.6	433.0	471.6	506.4
115°	155.3	174.1	216.5	271.1	321.9	347.3	371.8	417.9	462.2	500.8	536.5
117.5°	174.1	192.0	235.3	289.9	342.6	368.0	392.5	440.5	484.8	525.2	560.1
120°	193.0	209.0	256.0	305.9	359.6	385.0	410.4	458.4	503.6	544.1	579.8
122.5°	209.9	225.0	271.1	320.0	372.8	399.1	423.6	472.5	518.7	559.1	594.0
125°	225.0	239.1	285.2	331.3	384.1	409.5	434.9	482.9	529.0	568.5	604.3
127.5°	240.0	254.2	295.6	342.6	391.6	417.9	442.4	490.4	535.6	576.1	610.9
130°	256.0	266.4	305.9	353.0	399.1	423.6	449.0	495.1	539.4	578.9	613.7
132.5°	269.2	278.6	316.3	361.5	404.8	428.3	450.9	497.0	541.2	578.9	612.8
135°	281.4	289.0	323.8	369.0	409.5	431.1	452.8	496.1	539.4	577.0	610.0
137.5°	292.7	300.3	330.4	374.6	413.2	432.1	452.8	493.2	534.7	572.3	603.4
140°	303.1	308.7	336.0	377.5	415.1	433.0	450.9	488.5	527.1	563.8	594.9
142.5°	313.5	318.2	340.8	379.3	416.1	433.0	449.9	482.9	518.7	554.4	585.5
145°	321.0	325.7	344.5	380.3	415.1	431.1	446.2	477.2	509.2	542.2	572.3
147.5°	329.5	333.2	348.3	378.4	412.3	427.4	441.5	469.7	498.9	529.0	557.3
150°	335.1	338.9	350.2	376.5	407.6	421.7	435.8	462.2	488.5	514.9	539.4
152.5°	340.8	343.6	353.0	373.7	401.9	415.1	428.3	453.7	478.2	501.7	523.4
155°	345.5	348.3	354.9	371.8	395.3	407.6	419.8	444.3	466.9	487.6	507.4
157.5°	350.2	352.0	356.8	369.0	387.8	399.1	410.4	432.1	452.8	473.5	489.5
160°	353.9	354.9	358.6	368.0	381.2	389.7	400.1	419.8	438.6	456.5	471.6
162.5°	357.7	357.7	360.5	366.2	375.6	381.2	388.8	405.7	422.6	438.6	452.8
165°	359.6	359.6	361.5	365.2	370.9	374.6	379.3	390.6	403.8	417.9	431.1
167.5°	361.5	361.5	362.4	364.3	368.0	369.9	371.8	379.3	387.8	398.2	408.5
170°	363.3	362.4	362.4	364.3	365.2	366.2	367.1	370.9	374.6	381.2	386.9
172.5°	363.3	362.4	362.4	363.3	363.3	363.3	363.3	364.3	365.2	369.0	370.9
175°	363.3	362.4	362.4	362.4	362.4	361.5	361.5	361.5	361.5	361.5	362.4
177.5°	363.3	362.4	361.5	361.5	360.5	360.5	359.6	359.6	358.6	358.6	358.6
180°	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4
2.5°	266.4	266.4	265.4	265.4	264.5	264.5	263.6	262.6	261.7	261.7
5°	267.3	266.4	265.4	265.4	265.4	264.5	264.5	264.5	263.6	263.6
7.5°	267.3	267.3	267.3	266.4	266.4	266.4	266.4	266.4	265.4	265.4
10°	268.3	268.3	268.3	268.3	268.3	268.3	268.3	267.3	267.3	267.3
12.5°	268.3	268.3	268.3	269.2	269.2	269.2	269.2	269.2	269.2	269.2
15°	269.2	269.2	270.2	270.2	271.1	271.1	272.0	272.0	272.0	271.1
17.5°	268.3	269.2	270.2	271.1	272.0	272.0	273.0	273.0	273.0	273.0
20°	268.3	270.2	271.1	272.0	273.0	273.0	273.9	274.9	274.9	273.9
22.5°	267.3	269.2	270.2	272.0	273.0	273.0	274.9	274.9	274.9	274.9
25°	266.4	268.3	270.2	272.0	273.0	273.0	274.9	274.9	275.8	275.8
27.5°	264.5	266.4	269.2	271.1	272.0	273.0	273.9	274.9	274.9	274.9
30°	261.7	264.5	267.3	269.2	270.2	271.1	272.0	273.0	273.9	273.9
32.5°	257.9	260.7	263.6	266.4	267.3	268.3	270.2	271.1	271.1	271.1
35°	254.2	257.0	259.8	262.6	263.6	264.5	266.4	267.3	268.3	268.3
37.5°	248.5	251.3	254.2	257.0	257.9	259.8	261.7	262.6	262.6	262.6
40°	240.0	244.7	248.5	251.3	252.3	254.2	255.1	257.0	257.0	257.0
42.5°	232.5	236.3	239.1	242.9	243.8	246.6	248.5	249.4	250.4	250.4
45°	224.0	227.8	230.6	233.4	234.4	236.3	238.1	239.1	240.0	241.0
47.5°	215.6	218.4	221.2	224.0	225.0	226.9	228.7	229.7	230.6	230.6
50°	205.2	208.0	210.9	213.7	214.6	216.5	217.4	218.4	219.3	219.3
52.5°	193.9	196.7	199.6	202.4	203.3	204.3	206.1	207.1	208.0	208.0
55°	182.6	185.4	187.3	190.1	191.1	192.0	193.0	194.8	195.8	194.8
57.5°	169.4	172.3	174.1	177.0	177.9	178.8	179.8	180.7	181.7	181.7
60°	155.3	158.1	161.0	162.8	163.8	164.7	165.7	166.6	167.6	167.6
62.5°	141.2	144.0	145.9	148.7	149.7	149.7	150.6	151.5	152.5	152.5
65°	127.1	129.9	130.8	133.7	133.7	134.6	135.5	136.5	136.5	136.5
67.5°	112.0	114.8	115.8	117.7	117.7	118.6	119.5	120.5	120.5	120.5
70°	97.9	98.8	100.7	101.7	102.6	102.6	103.5	104.5	105.4	104.5
72.5°	82.8	83.8	85.7	86.6	86.6	87.5	87.5	88.5	89.4	89.4
75°	67.8	69.7	70.6	71.5	72.5	72.5	73.4	74.4	74.4	74.4
77.5°	53.7	55.5	56.5	57.4	58.4	58.4	59.3	59.3	60.2	59.3
80°	41.4	42.4	43.3	44.2	45.2	45.2	46.1	47.1	47.1	47.1
82.5°	30.1	31.1	32.9	33.9	33.9	33.9	35.8	35.8	36.7	35.8
85°	20.7	21.6	23.5	24.5	25.4	25.4	25.4	26.4	27.3	26.4
87.5°	13.2	15.1	16.0	16.9	16.9	16.9	17.9	18.8	18.8	18.8
90°	7.5	7.5	8.5	9.4	9.4	10.4	10.4	11.3	11.3	11.3
92.5°	7.5	8.5	8.5	8.5	9.4	9.4	9.4	10.4	10.4	10.4
95°	64.0	46.1	26.4	20.7	17.9	17.9	16.9	17.9	16.9	16.9
97.5°	193.9	209.9	217.4	227.8	233.4	232.5	228.7	232.5	229.7	232.5
100°	275.8	290.9	302.2	305.0	310.6	313.5	323.8	331.3	335.1	339.8
102.5°	342.6	360.5	373.7	381.2	386.9	390.6	402.9	414.2	419.8	423.6
105°	403.8	422.6	438.6	446.2	452.8	456.5	469.7	482.9	491.4	496.1
107.5°	452.8	474.4	491.4	502.7	509.2	515.8	531.8	545.0	555.4	560.1
110°	497.0	518.7	536.5	549.7	557.3	563.8	581.7	596.8	608.1	613.7



TEST NUMBER: P395394

CATALOG NUMBER: I3-CL-40L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	533.7	557.3	575.1	589.3	596.8	606.2	623.1	640.1	651.4	658.0
115°	563.8	588.3	607.1	622.2	630.7	639.1	658.9	675.9	687.2	691.9
117.5°	589.3	613.7	633.5	648.6	658.0	667.4	687.2	702.2	714.4	718.2
120°	610.0	634.4	654.2	671.1	680.6	689.0	707.9	723.9	735.2	738.0
122.5°	624.1	649.5	670.2	689.0	697.5	706.0	723.9	739.9	750.2	753.0
125°	634.4	660.8	681.5	701.3	709.7	718.2	735.2	751.2	759.6	763.4
127.5°	641.0	667.4	690.0	708.8	718.2	725.7	742.7	756.8	765.3	768.1
130°	642.9	670.2	692.8	712.6	721.0	728.6	744.6	758.7	766.2	768.1
132.5°	642.9	669.3	692.8	711.6	720.1	727.6	742.7	755.9	763.4	765.3
135°	639.1	664.6	688.1	706.9	715.4	722.9	738.0	749.3	756.8	757.7
137.5°	632.6	657.0	679.6	698.4	706.9	714.4	727.6	739.9	746.5	748.3
140°	624.1	646.7	669.3	687.2	695.6	702.2	715.4	725.7	732.3	734.2
142.5°	612.8	635.4	656.1	674.0	680.6	688.1	699.4	709.7	715.4	717.3
145°	600.6	622.2	641.0	657.0	664.6	671.1	681.5	690.9	696.6	698.4
147.5°	584.5	606.2	624.1	639.1	645.7	652.3	661.7	670.2	675.9	677.7
150°	564.8	584.5	603.4	617.5	624.1	630.7	640.1	647.6	653.3	654.2
152.5°	545.0	563.8	579.8	594.0	600.6	607.1	615.6	623.1	629.7	629.7
155°	526.2	542.2	557.3	569.5	575.1	580.8	589.3	595.8	601.5	601.5
157.5°	506.4	521.5	533.7	545.0	549.7	554.4	562.0	567.6	572.3	571.4
160°	487.6	498.9	510.2	519.6	524.3	528.1	533.7	538.4	543.1	542.2
162.5°	466.9	477.2	486.7	493.2	497.0	499.8	505.5	510.2	513.0	513.0
165°	443.4	452.8	461.2	467.8	471.6	473.5	478.2	481.0	483.8	483.8
167.5°	418.9	426.4	433.9	439.6	443.4	445.2	449.9	451.8	455.6	454.6
170°	394.4	400.1	405.7	410.4	412.3	414.2	417.9	419.8	421.7	421.7
172.5°	374.6	376.5	379.3	383.1	383.1	384.1	385.9	386.9	387.8	387.8
175°	363.3	364.3	364.3	364.3	364.3	364.3	365.2	364.3	365.2	364.3
177.5°	358.6	358.6	357.7	357.7	356.8	357.7	356.8	355.8	355.8	354.9
180°	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8

(END OF REPORT)