

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: P395408

Luminaire Tested: **I3-CL-40L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395408
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-40L93050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, CLEAR TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

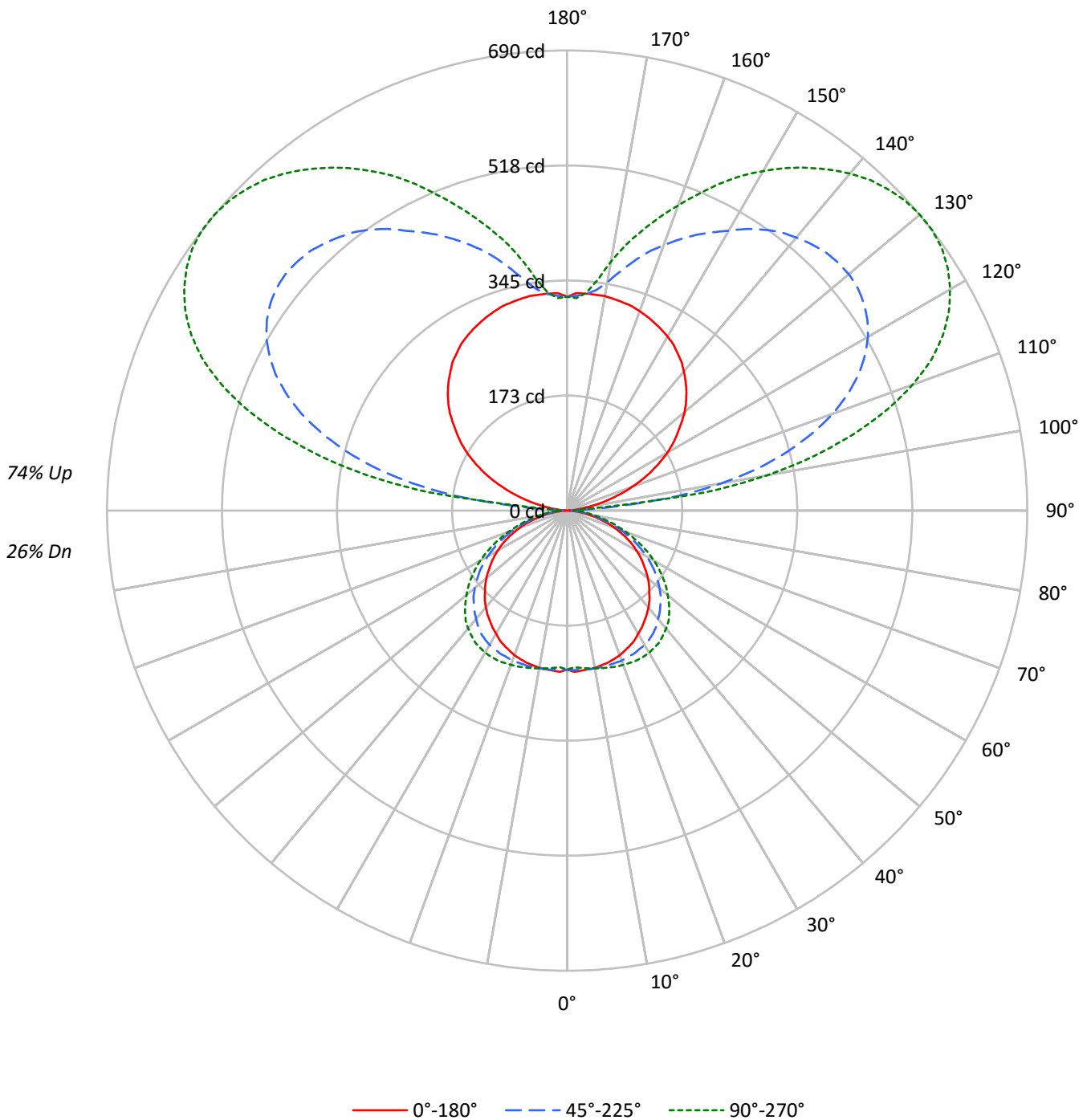
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-40L93050-1D-UNV-W2A-W-4 (3500K)

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	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°	1311	1311	1311
5°	1325	1291	1270
10°	1326	1281	1266
15°	1328	1276	1273
20°	1330	1277	1284
25°	1328	1278	1301
30°	1320	1280	1310
35°	1317	1273	1311
40°	1313	1246	1295
45°	1299	1215	1262
50°	1287	1175	1206
55°	1261	1116	1137
60°	1230	1038	1049
65°	1180	932	930
70°	1095	793	788
75°	946	631	632
80°	734	448	463
85°	429	278	311



TEST NUMBER: P395408

CATALOG NUMBER: I3-CL-40L93050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	0.7
10°-20°	67.8	2.2
20°-30°	108.7	3.5
30°-40°	139.0	4.4
40°-50°	151.6	4.8
50°-60°	142.0	4.5
60°-70°	110.2	3.5
70°-80°	63.2	2.0
80°-90°	20.2	0.6
90°-100°	81.1	2.6
100°-110°	315.1	10.0
110°-120°	429.0	13.6
120°-130°	445.3	14.2
130°-140°	395.0	12.6
140°-150°	306.5	9.8
150°-160°	204.6	6.5
160°-170°	109.0	3.5
170°-180°	31.9	1.0
0°-30°	199.3	6.3
0°-40°	338.3	10.8
0°-60°	631.9	20.1
0°-90°	825.5	26.3
90°-120°	825.2	26.3
90°-150°	1972.1	62.7
90°-180°	2318.0	73.8
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	238	238	238	238	238	
5°	241	238	239	238	237	23
15°	236	235	240	244	244	67
25°	223	225	237	245	248	103
35°	202	206	225	237	241	127
45°	174	182	198	211	216	135
55°	140	147	161	172	175	125
65°	99	103	112	120	123	98
75°	52	54	59	65	67	55
85°	10	12	18	23	24	12
90°	1	2	6	8	10	1
95°	10	58	79	16	15	13
105°	67	202	342	407	446	71
115°	140	312	482	567	622	138
125°	202	368	543	638	686	181
135°	253	387	548	643	681	195
145°	288	387	514	597	628	181
155°	310	366	456	517	540	143
165°	323	337	387	424	435	91
175°	326	325	326	327	327	31
180°	321	321	321	321	321	



TEST NUMBER: P395408

CATALOG NUMBER: I3-CL-40L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5
2.5°	241.9	241.0	241.0	239.4	239.4	238.5	238.5	238.5	238.5	238.5	239.4
5°	241.0	241.0	240.2	239.4	239.4	238.5	238.5	238.5	238.5	238.5	239.4
7.5°	240.2	240.2	239.4	238.5	238.5	238.5	238.5	238.5	238.5	238.5	240.2
10°	239.4	239.4	238.5	237.7	237.7	237.7	237.7	238.5	238.5	238.5	240.2
12.5°	237.7	236.8	236.8	236.0	236.0	236.0	236.8	236.8	237.7	238.5	240.2
15°	236.0	236.0	235.1	234.3	235.1	235.1	235.1	236.0	236.8	237.7	240.2
17.5°	233.4	233.4	232.6	232.6	232.6	233.4	233.4	234.3	236.0	237.7	239.4
20°	230.9	230.1	230.1	230.1	230.9	230.9	231.7	233.4	234.3	236.8	239.4
22.5°	226.7	227.5	226.7	226.7	227.5	228.4	229.2	230.9	232.6	235.1	237.7
25°	223.3	223.3	223.3	223.3	225.0	225.0	226.7	228.4	230.9	233.4	236.8
27.5°	219.1	219.1	219.1	219.9	220.7	221.6	222.4	225.0	227.5	230.9	234.3
30°	213.1	213.1	213.1	213.1	215.7	216.5	218.2	221.6	224.1	228.4	232.6
32.5°	208.1	208.1	208.1	208.9	210.6	211.4	213.1	217.4	220.7	225.0	229.2
35°	202.1	202.1	203.0	203.0	205.5	206.4	208.1	211.4	214.8	219.9	225.0
37.5°	196.2	196.2	197.1	197.9	199.6	201.3	203.0	206.4	209.8	214.0	219.1
40°	189.5	189.5	190.3	191.1	193.7	195.4	197.1	200.5	203.8	208.1	212.3
42.5°	182.7	182.7	183.5	184.4	186.9	188.6	190.3	194.5	197.9	202.1	205.5
45°	174.2	175.1	175.9	177.6	180.2	181.8	183.5	186.9	191.1	194.5	197.9
47.5°	166.6	167.5	168.3	170.0	172.5	174.2	175.9	179.3	182.7	186.1	190.3
50°	158.2	159.0	159.9	161.5	164.1	165.8	167.5	170.8	174.2	176.8	181.0
52.5°	148.9	149.7	150.5	152.2	155.6	156.5	158.2	161.5	164.1	167.5	170.8
55°	139.6	140.4	141.2	142.9	145.5	147.2	148.0	151.4	153.9	157.3	160.7
57.5°	130.3	131.1	131.9	133.6	135.3	137.0	137.9	140.4	143.8	146.3	149.7
60°	120.1	120.9	121.8	122.6	125.2	126.0	126.9	129.4	131.9	135.3	137.9
62.5°	110.0	110.0	110.8	111.6	114.2	115.0	115.9	117.6	120.9	122.6	125.2
65°	99.0	99.0	99.8	100.6	102.3	103.2	104.0	105.7	108.3	110.0	112.5
67.5°	87.1	87.1	88.0	88.8	90.5	91.3	91.3	93.9	95.6	97.3	99.0
70°	76.1	76.1	77.0	77.0	77.8	78.7	79.5	81.2	82.0	84.6	85.4
72.5°	64.3	64.3	64.3	64.3	66.0	66.0	66.8	68.5	69.4	71.0	72.7
75°	51.6	51.6	52.4	52.4	53.3	54.1	55.0	55.8	57.5	58.4	59.2
77.5°	40.6	39.8	40.6	41.4	42.3	42.3	43.1	44.0	44.8	46.5	47.4
80°	28.8	28.8	28.8	29.6	30.4	30.4	31.3	32.1	33.0	34.7	35.5
82.5°	18.6	18.6	19.5	19.5	20.3	21.1	21.1	22.0	22.8	24.5	25.4
85°	10.1	10.1	10.1	11.0	11.8	11.8	12.7	13.5	15.2	16.1	17.8
87.5°	3.4	3.4	4.2	5.1	5.9	5.9	6.8	7.6	8.5	10.1	11.0
90°	0.8	0.8	0.8	1.7	1.7	2.5	2.5	3.4	4.2	5.1	5.9
92.5°	3.4	5.9	9.3	13.5	12.7	13.5	9.3	5.9	5.9	5.9	6.8
95°	10.1	15.2	24.5	38.9	50.7	57.5	63.4	69.4	81.2	82.0	78.7
97.5°	20.3	27.9	44.8	63.4	84.6	95.6	104.0	121.8	140.4	152.2	166.6
100°	33.8	44.8	66.8	92.2	116.7	131.1	144.6	170.0	192.8	213.1	235.1
102.5°	49.9	62.6	89.7	120.9	151.4	167.5	181.8	211.4	242.7	269.8	293.5
105°	66.8	81.2	113.3	148.9	183.5	202.1	219.9	252.0	285.0	314.6	342.5
107.5°	85.4	100.6	135.3	175.1	214.0	235.1	254.6	289.3	323.9	356.1	385.7
110°	103.2	120.1	156.5	199.6	243.6	264.7	284.2	322.2	358.6	392.4	423.7



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CATALOG NUMBER: I3-CL-40L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	121.8	139.6	175.9	223.3	268.1	290.1	310.4	351.0	389.1	423.7	455.0
115°	139.6	156.5	194.5	243.6	289.3	312.1	334.1	375.5	415.3	450.0	482.1
117.5°	156.5	172.5	211.4	260.5	307.9	330.7	352.7	395.8	435.6	471.9	503.2
120°	173.4	187.8	230.1	274.9	323.1	345.9	368.8	411.9	452.5	488.9	521.0
122.5°	188.6	202.1	243.6	287.6	334.9	358.6	380.6	424.6	466.0	502.4	533.7
125°	202.1	214.8	256.3	297.7	345.1	367.9	390.8	433.9	475.3	510.9	543.0
127.5°	215.7	228.4	265.6	307.9	351.8	375.5	397.5	440.7	481.2	517.6	548.9
130°	230.1	239.4	274.9	317.2	358.6	380.6	403.4	444.9	484.6	520.2	551.4
132.5°	241.9	250.4	284.2	324.8	363.7	384.8	405.1	446.6	486.3	520.2	550.6
135°	252.9	259.7	290.9	331.5	367.9	387.4	406.8	445.7	484.6	518.5	548.1
137.5°	263.0	269.8	296.9	336.6	371.3	388.2	406.8	443.2	480.4	514.2	542.1
140°	272.3	277.4	301.9	339.2	373.0	389.1	405.1	439.0	473.6	506.6	534.5
142.5°	281.6	285.9	306.2	340.8	373.8	389.1	404.3	433.9	466.0	498.2	526.1
145°	288.4	292.6	309.6	341.7	373.0	387.4	400.9	428.8	457.6	487.2	514.2
147.5°	296.0	299.4	312.9	340.0	370.5	384.0	396.7	422.0	448.3	475.3	500.7
150°	301.1	304.5	314.6	338.3	366.2	378.9	391.6	415.3	439.0	462.6	484.6
152.5°	306.2	308.7	317.2	335.8	361.1	373.0	384.8	407.7	429.7	450.8	470.3
155°	310.4	312.9	318.9	334.1	355.2	366.2	377.2	399.2	419.5	438.1	455.9
157.5°	314.6	316.3	320.6	331.5	348.5	358.6	368.8	388.2	406.8	425.4	439.8
160°	318.0	318.9	322.2	330.7	342.5	350.2	359.5	377.2	394.1	410.2	423.7
162.5°	321.4	321.4	323.9	329.0	337.5	342.5	349.3	364.5	379.8	394.1	406.8
165°	323.1	323.1	324.8	328.2	333.2	336.6	340.8	351.0	362.8	375.5	387.4
167.5°	324.8	324.8	325.6	327.3	330.7	332.4	334.1	340.8	348.5	357.8	367.1
170°	326.5	325.6	325.6	327.3	328.2	329.0	329.9	333.2	336.6	342.5	347.6
172.5°	326.5	325.6	325.6	326.5	326.5	326.5	326.5	327.3	328.2	331.5	333.2
175°	326.5	325.6	325.6	325.6	325.6	324.8	324.8	324.8	324.8	324.8	325.6
177.5°	326.5	325.6	324.8	324.8	323.9	323.9	323.1	323.1	322.2	322.2	322.2
180°	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6



TEST NUMBER: P395408

CATALOG NUMBER: I3-CL-40L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5	238.5
2.5°	239.4	239.4	238.5	238.5	237.7	237.7	236.8	236.0	235.1	235.1
5°	240.2	239.4	238.5	238.5	238.5	237.7	237.7	237.7	236.8	236.8
7.5°	240.2	240.2	240.2	239.4	239.4	239.4	239.4	239.4	238.5	238.5
10°	241.0	241.0	241.0	241.0	241.0	241.0	241.0	240.2	240.2	240.2
12.5°	241.0	241.0	241.0	241.9	241.9	241.9	241.9	241.9	241.9	241.9
15°	241.9	241.9	242.7	242.7	243.6	243.6	244.4	244.4	244.4	243.6
17.5°	241.0	241.9	242.7	243.6	244.4	244.4	245.3	245.3	245.3	245.3
20°	241.0	242.7	243.6	244.4	245.3	245.3	246.1	247.0	247.0	246.1
22.5°	240.2	241.9	242.7	244.4	245.3	245.3	247.0	247.0	247.0	247.0
25°	239.4	241.0	242.7	244.4	245.3	245.3	247.0	247.0	247.8	247.8
27.5°	237.7	239.4	241.9	243.6	244.4	245.3	246.1	247.0	247.0	247.0
30°	235.1	237.7	240.2	241.9	242.7	243.6	244.4	245.3	246.1	246.1
32.5°	231.7	234.3	236.8	239.4	240.2	241.0	242.7	243.6	243.6	243.6
35°	228.4	230.9	233.4	236.0	236.8	237.7	239.4	240.2	241.0	241.0
37.5°	223.3	225.8	228.4	230.9	231.7	233.4	235.1	236.0	236.0	236.0
40°	215.7	219.9	223.3	225.8	226.7	228.4	229.2	230.9	230.9	230.9
42.5°	208.9	212.3	214.8	218.2	219.1	221.6	223.3	224.1	225.0	225.0
45°	201.3	204.7	207.2	209.8	210.6	212.3	214.0	214.8	215.7	216.5
47.5°	193.7	196.2	198.8	201.3	202.1	203.8	205.5	206.4	207.2	207.2
50°	184.4	186.9	189.5	192.0	192.8	194.5	195.4	196.2	197.1	197.1
52.5°	174.2	176.8	179.3	181.8	182.7	183.5	185.2	186.1	186.9	186.9
55°	164.1	166.6	168.3	170.8	171.7	172.5	173.4	175.1	175.9	175.1
57.5°	152.2	154.8	156.5	159.0	159.9	160.7	161.5	162.4	163.2	163.2
60°	139.6	142.1	144.6	146.3	147.2	148.0	148.9	149.7	150.5	150.5
62.5°	126.9	129.4	131.1	133.6	134.5	134.5	135.3	136.2	137.0	137.0
65°	114.2	116.7	117.6	120.1	120.1	120.9	121.8	122.6	122.6	122.6
67.5°	100.6	103.2	104.0	105.7	105.7	106.6	107.4	108.3	108.3	108.3
70°	88.0	88.8	90.5	91.3	92.2	92.2	93.0	93.9	94.7	93.9
72.5°	74.4	75.3	77.0	77.8	77.8	78.7	78.7	79.5	80.3	80.3
75°	60.9	62.6	63.4	64.3	65.1	65.1	66.0	66.8	66.8	66.8
77.5°	48.2	49.9	50.7	51.6	52.4	52.4	53.3	53.3	54.1	53.3
80°	37.2	38.1	38.9	39.8	40.6	40.6	41.4	42.3	42.3	42.3
82.5°	27.1	27.9	29.6	30.4	30.4	30.4	32.1	32.1	33.0	32.1
85°	18.6	19.5	21.1	22.0	22.8	22.8	22.8	23.7	24.5	23.7
87.5°	11.8	13.5	14.4	15.2	15.2	15.2	16.1	16.9	16.9	16.9
90°	6.8	6.8	7.6	8.5	8.5	9.3	9.3	10.1	10.1	10.1
92.5°	6.8	7.6	7.6	7.6	8.5	8.5	8.5	9.3	9.3	9.3
95°	57.5	41.4	23.7	18.6	16.1	16.1	15.2	16.1	15.2	15.2
97.5°	174.2	188.6	195.4	204.7	209.8	208.9	205.5	208.9	206.4	208.9
100°	247.8	261.3	271.5	274.0	279.1	281.6	290.9	297.7	301.1	305.3
102.5°	307.9	323.9	335.8	342.5	347.6	351.0	362.0	372.1	377.2	380.6
105°	362.8	379.8	394.1	400.9	406.8	410.2	422.0	433.9	441.5	445.7
107.5°	406.8	426.3	441.5	451.6	457.6	463.5	477.9	489.7	499.0	503.2
110°	446.6	466.0	482.1	493.9	500.7	506.6	522.7	536.2	546.4	551.4



TEST NUMBER: P395408

CATALOG NUMBER: I3-CL-40L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	479.6	500.7	516.8	529.5	536.2	544.7	559.9	575.1	585.3	591.2
115°	506.6	528.6	545.5	559.1	566.7	574.3	592.0	607.3	617.4	621.6
117.5°	529.5	551.4	569.2	582.7	591.2	599.7	617.4	631.0	641.9	645.3
120°	548.1	570.1	587.8	603.0	611.5	619.1	636.0	650.4	660.6	663.1
122.5°	560.8	583.6	602.2	619.1	626.7	634.3	650.4	664.8	674.1	676.6
125°	570.1	593.7	612.3	630.1	637.7	645.3	660.6	674.9	682.5	685.9
127.5°	576.0	599.7	620.0	636.9	645.3	652.1	667.3	680.0	687.6	690.2
130°	577.7	602.2	622.5	640.3	647.9	654.6	669.0	681.7	688.5	690.2
132.5°	577.7	601.4	622.5	639.4	647.0	653.8	667.3	679.2	685.9	687.6
135°	574.3	597.1	618.3	635.2	642.8	649.6	663.1	673.2	680.0	680.9
137.5°	568.4	590.4	610.7	627.6	635.2	641.9	653.8	664.8	670.7	672.4
140°	560.8	581.1	601.4	617.4	625.0	631.0	642.8	652.1	658.0	659.7
142.5°	550.6	570.9	589.5	605.6	611.5	618.3	628.4	637.7	642.8	644.5
145°	539.6	559.1	576.0	590.4	597.1	603.0	612.3	620.8	625.9	627.6
147.5°	525.2	544.7	560.8	574.3	580.2	586.1	594.6	602.2	607.3	609.0
150°	507.5	525.2	542.1	554.8	560.8	566.7	575.1	581.9	587.0	587.8
152.5°	489.7	506.6	521.0	533.7	539.6	545.5	553.1	559.9	565.8	565.8
155°	472.8	487.2	500.7	511.7	516.8	521.8	529.5	535.4	540.5	540.5
157.5°	455.0	468.6	479.6	489.7	493.9	498.2	504.9	510.0	514.2	513.4
160°	438.1	448.3	458.4	466.9	471.1	474.5	479.6	483.8	488.0	487.2
162.5°	419.5	428.8	437.3	443.2	446.6	449.1	454.2	458.4	461.0	461.0
165°	398.4	406.8	414.4	420.4	423.7	425.4	429.7	432.2	434.7	434.7
167.5°	376.4	383.1	389.9	395.0	398.4	400.1	404.3	406.0	409.4	408.5
170°	354.4	359.5	364.5	368.8	370.5	372.1	375.5	377.2	378.9	378.9
172.5°	336.6	338.3	340.8	344.2	344.2	345.1	346.8	347.6	348.5	348.5
175°	326.5	327.3	327.3	327.3	327.3	327.3	328.2	327.3	328.2	327.3
177.5°	322.2	322.2	321.4	321.4	320.6	321.4	320.6	319.7	319.7	318.9
180°	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6

(END OF REPORT)