

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: P395369

Luminaire Tested: **I3-CL-30L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395369
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-30L83050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, CLEAR TOP COVER
3000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2775.9 lumens
Efficiency: N/A
Efficacy: 134.1 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

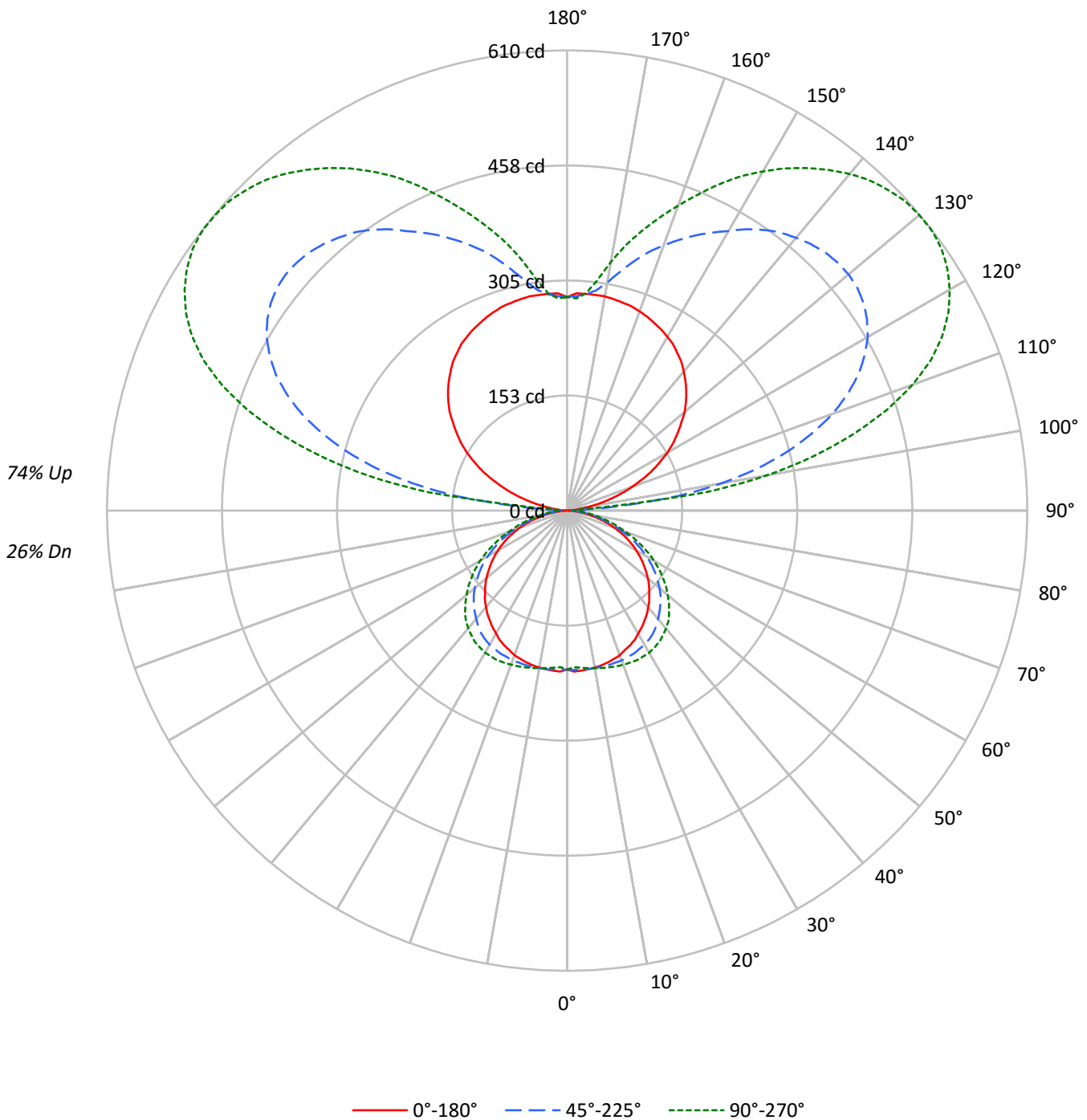
Input Watts (W): 20.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1158	1158	1158
5°	1170	1140	1122
10°	1171	1131	1118
15°	1173	1127	1124
20°	1174	1127	1134
25°	1173	1129	1149
30°	1166	1130	1157
35°	1163	1124	1158
40°	1159	1100	1143
45°	1147	1073	1115
50°	1137	1038	1065
55°	1114	986	1004
60°	1086	917	927
65°	1042	823	821
70°	967	700	695
75°	836	558	558
80°	648	396	408
85°	382	245	274



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CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.2	0.7
10°-20°	59.9	2.2
20°-30°	96.0	3.5
30°-40°	122.8	4.4
40°-50°	133.9	4.8
50°-60°	125.4	4.5
60°-70°	97.3	3.5
70°-80°	55.8	2.0
80°-90°	17.8	0.6
90°-100°	71.6	2.6
100°-110°	278.3	10.0
110°-120°	378.9	13.6
120°-130°	393.3	14.2
130°-140°	348.9	12.6
140°-150°	270.7	9.8
150°-160°	180.7	6.5
160°-170°	96.3	3.5
170°-180°	28.2	1.0
0°-30°	176.0	6.3
0°-40°	298.8	10.8
0°-60°	558.1	20.1
0°-90°	729.1	26.3
90°-120°	728.8	26.3
90°-150°	1741.7	62.7
90°-180°	2047.0	73.7
0°-180°	2775.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	211	211	211	211	211	
5°	213	211	211	211	209	20
15°	208	208	212	215	215	59
25°	197	199	209	217	219	91
35°	178	182	199	209	213	112
45°	154	161	175	186	191	119
55°	123	130	142	152	155	110
65°	87	91	99	106	108	86
75°	46	48	52	58	59	49
85°	9	10	16	20	21	11
90°	1	2	5	8	9	1
95°	9	51	70	14	13	12
105°	59	178	302	359	394	63
115°	123	276	426	500	549	122
125°	178	325	480	563	606	160
135°	223	342	484	568	601	172
145°	255	342	454	527	554	160
155°	274	323	403	456	477	127
165°	285	297	342	374	384	81
175°	288	287	288	289	289	28
180°	283	283	283	283	283	



TEST NUMBER: P395369

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	210.6	210.6	210.6	210.6	210.6	210.6	210.6	210.6	210.6	210.6	210.6
2.5°	213.6	212.9	212.9	211.4	211.4	210.6	210.6	210.6	210.6	210.6	211.4
5°	212.9	212.9	212.1	211.4	211.4	210.6	210.6	210.6	210.6	210.6	211.4
7.5°	212.1	212.1	211.4	210.6	210.6	210.6	210.6	210.6	210.6	210.6	212.1
10°	211.4	211.4	210.6	209.9	209.9	209.9	209.9	210.6	210.6	210.6	212.1
12.5°	209.9	209.2	209.2	208.4	208.4	208.4	209.2	209.2	209.9	210.6	212.1
15°	208.4	208.4	207.7	206.9	207.7	207.7	207.7	208.4	209.2	209.9	212.1
17.5°	206.2	206.2	205.4	205.4	205.4	206.2	206.2	206.9	208.4	209.9	211.4
20°	203.9	203.2	203.2	203.2	203.9	203.9	204.7	206.2	206.9	209.2	211.4
22.5°	200.2	200.9	200.2	200.2	200.9	201.7	202.4	203.9	205.4	207.7	209.9
25°	197.2	197.2	197.2	197.2	198.7	198.7	200.2	201.7	203.9	206.2	209.2
27.5°	193.5	193.5	193.5	194.2	195.0	195.7	196.5	198.7	200.9	203.9	206.9
30°	188.2	188.2	188.2	188.2	190.5	191.2	192.7	195.7	197.9	201.7	205.4
32.5°	183.8	183.8	183.8	184.5	186.0	186.7	188.2	192.0	195.0	198.7	202.4
35°	178.5	178.5	179.3	179.3	181.5	182.3	183.8	186.7	189.7	194.2	198.7
37.5°	173.3	173.3	174.0	174.8	176.3	177.8	179.3	182.3	185.2	189.0	193.5
40°	167.3	167.3	168.1	168.8	171.1	172.6	174.0	177.0	180.0	183.8	187.5
42.5°	161.3	161.3	162.1	162.8	165.1	166.6	168.1	171.8	174.8	178.5	181.5
45°	153.9	154.6	155.4	156.9	159.1	160.6	162.1	165.1	168.8	171.8	174.8
47.5°	147.2	147.9	148.6	150.1	152.4	153.9	155.4	158.4	161.3	164.3	168.1
50°	139.7	140.4	141.2	142.7	144.9	146.4	147.9	150.9	153.9	156.1	159.9
52.5°	131.5	132.2	133.0	134.5	137.4	138.2	139.7	142.7	144.9	147.9	150.9
55°	123.3	124.0	124.7	126.2	128.5	130.0	130.7	133.7	135.9	138.9	141.9
57.5°	115.0	115.8	116.5	118.0	119.5	121.0	121.8	124.0	127.0	129.2	132.2
60°	106.1	106.8	107.6	108.3	110.6	111.3	112.0	114.3	116.5	119.5	121.8
62.5°	97.1	97.1	97.9	98.6	100.8	101.6	102.3	103.8	106.8	108.3	110.6
65°	87.4	87.4	88.1	88.9	90.4	91.1	91.9	93.4	95.6	97.1	99.3
67.5°	76.9	76.9	77.7	78.4	79.9	80.7	80.7	82.9	84.4	85.9	87.4
70°	67.2	67.2	68.0	68.0	68.7	69.5	70.2	71.7	72.5	74.7	75.4
72.5°	56.8	56.8	56.8	56.8	58.3	58.3	59.0	60.5	61.3	62.7	64.2
75°	45.6	45.6	46.3	46.3	47.1	47.8	48.6	49.3	50.8	51.5	52.3
77.5°	35.9	35.1	35.9	36.6	37.3	37.3	38.1	38.8	39.6	41.1	41.8
80°	25.4	25.4	25.4	26.1	26.9	26.9	27.6	28.4	29.1	30.6	31.4
82.5°	16.4	16.4	17.2	17.2	17.9	18.7	18.7	19.4	20.2	21.7	22.4
85°	9.0	9.0	9.0	9.7	10.5	10.5	11.2	12.0	13.4	14.2	15.7
87.5°	3.0	3.0	3.7	4.5	5.2	5.2	6.0	6.7	7.5	9.0	9.7
90°	0.7	0.7	0.7	1.5	1.5	2.2	2.2	3.0	3.7	4.5	5.2
92.5°	3.0	5.2	8.2	12.0	11.2	12.0	8.2	5.2	5.2	5.2	6.0
95°	9.0	13.4	21.7	34.4	44.8	50.8	56.0	61.3	71.7	72.5	69.5
97.5°	17.9	24.7	39.6	56.0	74.7	84.4	91.9	107.6	124.0	134.5	147.2
100°	29.9	39.6	59.0	81.4	103.1	115.8	127.7	150.1	170.3	188.2	207.7
102.5°	44.1	55.3	79.2	106.8	133.7	147.9	160.6	186.7	214.4	238.3	259.2
105°	59.0	71.7	100.1	131.5	162.1	178.5	194.2	222.6	251.7	277.9	302.5
107.5°	75.4	88.9	119.5	154.6	189.0	207.7	224.8	255.5	286.1	314.5	340.6
110°	91.1	106.1	138.2	176.3	215.1	233.8	251.0	284.6	316.7	346.6	374.2



TEST NUMBER: P395369

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	107.6	123.3	155.4	197.2	236.8	256.2	274.1	310.0	343.6	374.2	401.9
115°	123.3	138.2	171.8	215.1	255.5	275.6	295.1	331.7	366.8	397.4	425.8
117.5°	138.2	152.4	186.7	230.1	271.9	292.1	311.5	349.6	384.7	416.8	444.4
120°	153.1	165.8	203.2	242.8	285.3	305.5	325.7	363.8	399.6	431.8	460.1
122.5°	166.6	178.5	215.1	254.0	295.8	316.7	336.1	375.0	411.6	443.7	471.3
125°	178.5	189.7	226.3	262.9	304.8	324.9	345.1	383.2	419.8	451.2	479.6
127.5°	190.5	201.7	234.5	271.9	310.7	331.7	351.1	389.2	425.0	457.1	484.8
130°	203.2	211.4	242.8	280.1	316.7	336.1	356.3	392.9	428.0	459.4	487.0
132.5°	213.6	221.1	251.0	286.8	321.2	339.9	357.8	394.4	429.5	459.4	486.3
135°	223.3	229.3	257.0	292.8	324.9	342.1	359.3	393.7	428.0	457.9	484.0
137.5°	232.3	238.3	262.2	297.3	327.9	342.9	359.3	391.4	424.3	454.2	478.8
140°	240.5	245.0	266.7	299.5	329.4	343.6	357.8	387.7	418.3	447.4	472.1
142.5°	248.7	252.5	270.4	301.0	330.2	343.6	357.1	383.2	411.6	440.0	464.6
145°	254.7	258.5	273.4	301.8	329.4	342.1	354.1	378.7	404.1	430.3	454.2
147.5°	261.4	264.4	276.4	300.3	327.2	339.1	350.3	372.7	395.9	419.8	442.2
150°	265.9	268.9	277.9	298.8	323.4	334.6	345.8	366.8	387.7	408.6	428.0
152.5°	270.4	272.6	280.1	296.5	319.0	329.4	339.9	360.0	379.5	398.1	415.3
155°	274.1	276.4	281.6	295.1	313.7	323.4	333.1	352.6	370.5	386.9	402.6
157.5°	277.9	279.4	283.1	292.8	307.8	316.7	325.7	342.9	359.3	375.7	388.4
160°	280.9	281.6	284.6	292.1	302.5	309.2	317.5	333.1	348.1	362.3	374.2
162.5°	283.8	283.8	286.1	290.6	298.0	302.5	308.5	321.9	335.4	348.1	359.3
165°	285.3	285.3	286.8	289.8	294.3	297.3	301.0	310.0	320.5	331.7	342.1
167.5°	286.8	286.8	287.6	289.1	292.1	293.6	295.1	301.0	307.8	316.0	324.2
170°	288.3	287.6	287.6	289.1	289.8	290.6	291.3	294.3	297.3	302.5	307.0
172.5°	288.3	287.6	287.6	288.3	288.3	288.3	288.3	289.1	289.8	292.8	294.3
175°	288.3	287.6	287.6	287.6	287.6	286.8	286.8	286.8	286.8	286.8	287.6
177.5°	288.3	287.6	286.8	286.8	286.1	286.1	285.3	285.3	284.6	284.6	284.6
180°	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1



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CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	210.6	210.6	210.6	210.6	210.6	210.6	210.6	210.6	210.6	210.6
2.5°	211.4	211.4	210.6	210.6	209.9	209.9	209.2	208.4	207.7	207.7
5°	212.1	211.4	210.6	210.6	210.6	209.9	209.9	209.9	209.2	209.2
7.5°	212.1	212.1	212.1	211.4	211.4	211.4	211.4	211.4	210.6	210.6
10°	212.9	212.9	212.9	212.9	212.9	212.9	212.9	212.1	212.1	212.1
12.5°	212.9	212.9	212.9	213.6	213.6	213.6	213.6	213.6	213.6	213.6
15°	213.6	213.6	214.4	214.4	215.1	215.1	215.9	215.9	215.9	215.1
17.5°	212.9	213.6	214.4	215.1	215.9	215.9	216.6	216.6	216.6	216.6
20°	212.9	214.4	215.1	215.9	216.6	216.6	217.4	218.1	218.1	217.4
22.5°	212.1	213.6	214.4	215.9	216.6	216.6	218.1	218.1	218.1	218.1
25°	211.4	212.9	214.4	215.9	216.6	216.6	218.1	218.1	218.9	218.9
27.5°	209.9	211.4	213.6	215.1	215.9	216.6	217.4	218.1	218.1	218.1
30°	207.7	209.9	212.1	213.6	214.4	215.1	215.9	216.6	217.4	217.4
32.5°	204.7	206.9	209.2	211.4	212.1	212.9	214.4	215.1	215.1	215.1
35°	201.7	203.9	206.2	208.4	209.2	209.9	211.4	212.1	212.9	212.9
37.5°	197.2	199.4	201.7	203.9	204.7	206.2	207.7	208.4	208.4	208.4
40°	190.5	194.2	197.2	199.4	200.2	201.7	202.4	203.9	203.9	203.9
42.5°	184.5	187.5	189.7	192.7	193.5	195.7	197.2	197.9	198.7	198.7
45°	177.8	180.8	183.0	185.2	186.0	187.5	189.0	189.7	190.5	191.2
47.5°	171.1	173.3	175.5	177.8	178.5	180.0	181.5	182.3	183.0	183.0
50°	162.8	165.1	167.3	169.6	170.3	171.8	172.6	173.3	174.0	174.0
52.5°	153.9	156.1	158.4	160.6	161.3	162.1	163.6	164.3	165.1	165.1
55°	144.9	147.2	148.6	150.9	151.6	152.4	153.1	154.6	155.4	154.6
57.5°	134.5	136.7	138.2	140.4	141.2	141.9	142.7	143.4	144.2	144.2
60°	123.3	125.5	127.7	129.2	130.0	130.7	131.5	132.2	133.0	133.0
62.5°	112.0	114.3	115.8	118.0	118.8	118.8	119.5	120.3	121.0	121.0
65°	100.8	103.1	103.8	106.1	106.1	106.8	107.6	108.3	108.3	108.3
67.5°	88.9	91.1	91.9	93.4	93.4	94.1	94.9	95.6	95.6	95.6
70°	77.7	78.4	79.9	80.7	81.4	81.4	82.2	82.9	83.7	82.9
72.5°	65.7	66.5	68.0	68.7	68.7	69.5	69.5	70.2	71.0	71.0
75°	53.8	55.3	56.0	56.8	57.5	57.5	58.3	59.0	59.0	59.0
77.5°	42.6	44.1	44.8	45.6	46.3	46.3	47.1	47.1	47.8	47.1
80°	32.9	33.6	34.4	35.1	35.9	35.9	36.6	37.3	37.3	37.3
82.5°	23.9	24.7	26.1	26.9	26.9	26.9	28.4	28.4	29.1	28.4
85°	16.4	17.2	18.7	19.4	20.2	20.2	20.2	20.9	21.7	20.9
87.5°	10.5	12.0	12.7	13.4	13.4	13.4	14.2	14.9	14.9	14.9
90°	6.0	6.0	6.7	7.5	7.5	8.2	8.2	9.0	9.0	9.0
92.5°	6.0	6.7	6.7	6.7	7.5	7.5	7.5	8.2	8.2	8.2
95°	50.8	36.6	20.9	16.4	14.2	14.2	13.4	14.2	13.4	13.4
97.5°	153.9	166.6	172.6	180.8	185.2	184.5	181.5	184.5	182.3	184.5
100°	218.9	230.8	239.8	242.0	246.5	248.7	257.0	262.9	265.9	269.7
102.5°	271.9	286.1	296.5	302.5	307.0	310.0	319.7	328.7	333.1	336.1
105°	320.5	335.4	348.1	354.1	359.3	362.3	372.7	383.2	389.9	393.7
107.5°	359.3	376.5	389.9	398.9	404.1	409.3	422.0	432.5	440.7	444.4
110°	394.4	411.6	425.8	436.2	442.2	447.4	461.6	473.6	482.5	487.0



TEST NUMBER: P395369

CATALOG NUMBER: I3-CL-30L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	423.5	442.2	456.4	467.6	473.6	481.1	494.5	507.9	516.9	522.1
115°	447.4	466.9	481.8	493.7	500.5	507.2	522.9	536.3	545.3	549.0
117.5°	467.6	487.0	502.7	514.7	522.1	529.6	545.3	557.2	567.0	569.9
120°	484.0	503.5	519.1	532.6	540.1	546.8	561.7	574.4	583.4	585.6
122.5°	495.2	515.4	531.8	546.8	553.5	560.2	574.4	587.1	595.3	597.6
125°	503.5	524.4	540.8	556.5	563.2	569.9	583.4	596.1	602.8	605.8
127.5°	508.7	529.6	547.5	562.5	569.9	575.9	589.4	600.6	607.3	609.5
130°	510.2	531.8	549.8	565.5	572.2	578.2	590.9	602.1	608.0	609.5
132.5°	510.2	531.1	549.8	564.7	571.4	577.4	589.4	599.8	605.8	607.3
135°	507.2	527.4	546.0	561.0	567.7	573.7	585.6	594.6	600.6	601.3
137.5°	502.0	521.4	539.3	554.3	561.0	567.0	577.4	587.1	592.3	593.8
140°	495.2	513.2	531.1	545.3	552.0	557.2	567.7	575.9	581.1	582.6
142.5°	486.3	504.2	520.6	534.8	540.1	546.0	555.0	563.2	567.7	569.2
145°	476.6	493.7	508.7	521.4	527.4	532.6	540.8	548.3	552.8	554.3
147.5°	463.9	481.1	495.2	507.2	512.4	517.7	525.1	531.8	536.3	537.8
150°	448.2	463.9	478.8	490.0	495.2	500.5	507.9	513.9	518.4	519.1
152.5°	432.5	447.4	460.1	471.3	476.6	481.8	488.5	494.5	499.7	499.7
155°	417.6	430.3	442.2	451.9	456.4	460.9	467.6	472.8	477.3	477.3
157.5°	401.9	413.8	423.5	432.5	436.2	440.0	445.9	450.4	454.2	453.4
160°	386.9	395.9	404.9	412.3	416.1	419.1	423.5	427.3	431.0	430.3
162.5°	370.5	378.7	386.2	391.4	394.4	396.6	401.1	404.9	407.1	407.1
165°	351.8	359.3	366.0	371.2	374.2	375.7	379.5	381.7	383.9	383.9
167.5°	332.4	338.4	344.4	348.8	351.8	353.3	357.1	358.5	361.5	360.8
170°	313.0	317.5	321.9	325.7	327.2	328.7	331.7	333.1	334.6	334.6
172.5°	297.3	298.8	301.0	304.0	304.0	304.8	306.3	307.0	307.8	307.8
175°	288.3	289.1	289.1	289.1	289.1	289.1	289.8	289.1	289.8	289.1
177.5°	284.6	284.6	283.8	283.8	283.1	283.8	283.1	282.4	282.4	281.6
180°	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1	283.1

(END OF REPORT)