

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: P395356

Luminaire Tested: **I3-CL-20L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395356  
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-20L93050-1D-UNV-W2A-W-4 (3500K)  
Description: CORELITE I3, CLEAR TOP COVER  
2000 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: 1835.8 lumens  
Efficiency: N/A  
Efficacy: 111.3 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

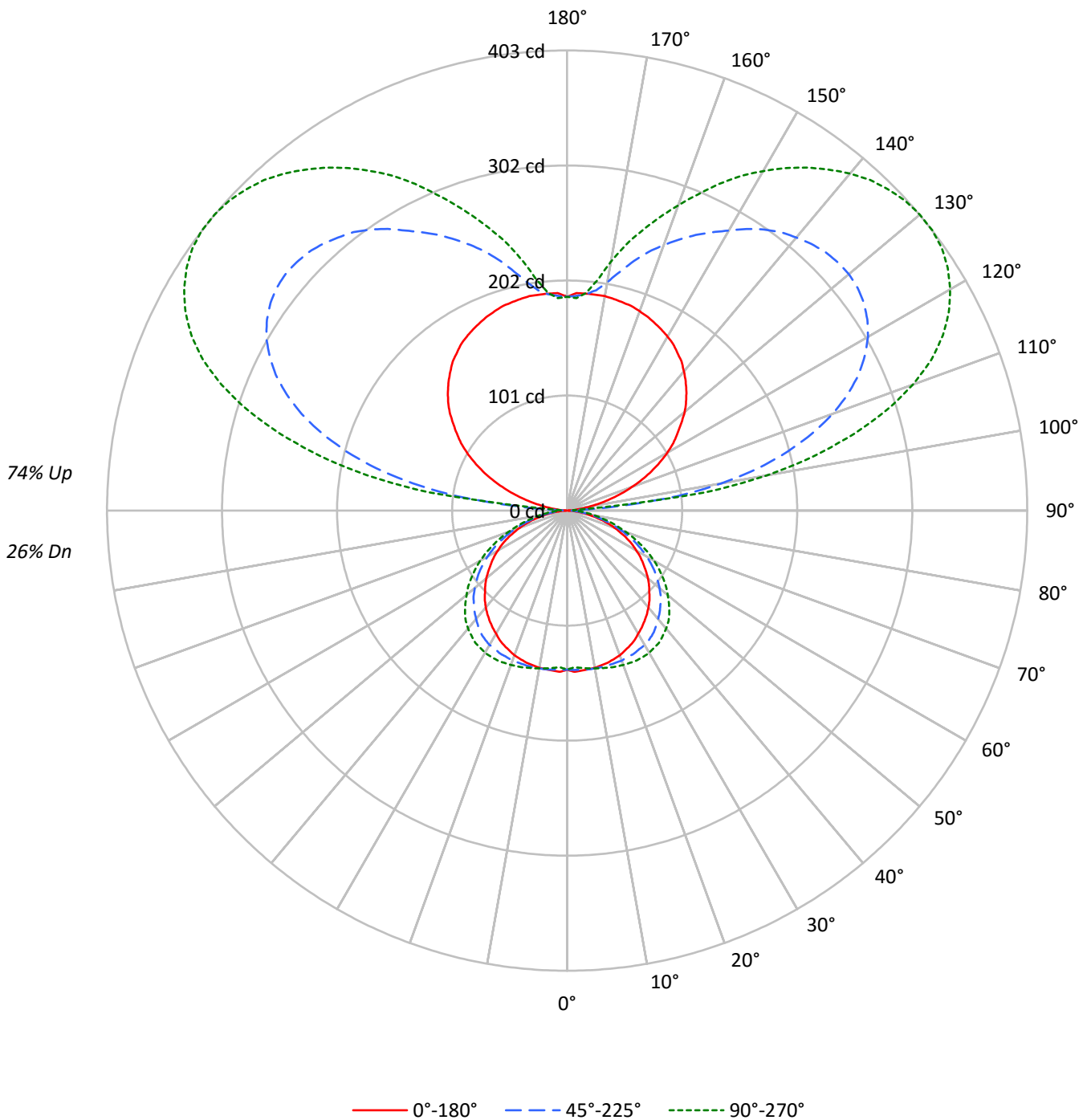
Input Watts (W): 16.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	766	766	766
5°	774	754	741
10°	774	748	740
15°	775	745	743
20°	777	746	750
25°	775	746	760
30°	771	748	765
35°	770	743	766
40°	767	727	756
45°	759	710	737
50°	752	686	704
55°	736	652	664
60°	718	606	613
65°	689	544	543
70°	640	463	460
75°	552	369	369
80°	428	261	270
85°	250	162	181



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.3	0.7
10°-20°	39.6	2.2
20°-30°	63.5	3.5
30°-40°	81.2	4.4
40°-50°	88.5	4.8
50°-60°	83.0	4.5
60°-70°	64.4	3.5
70°-80°	36.9	2.0
80°-90°	11.8	0.6
90°-100°	47.3	2.6
100°-110°	184.1	10.0
110°-120°	250.6	13.6
120°-130°	260.1	14.2
130°-140°	230.7	12.6
140°-150°	179.0	9.8
150°-160°	119.5	6.5
160°-170°	63.7	3.5
170°-180°	18.6	1.0
0°-30°	116.4	6.3
0°-40°	197.6	10.8
0°-60°	369.1	20.1
0°-90°	482.2	26.3
90°-120°	482.0	26.3
90°-150°	1151.9	62.7
90°-180°	1354.0	73.8
0°-180°	1835.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	139	139	139	139	139	
5°	141	139	140	139	138	13
15°	138	137	140	142	142	39
25°	130	131	138	143	145	60
35°	118	120	131	138	141	74
45°	102	106	116	123	126	79
55°	82	86	94	100	102	73
65°	58	60	66	70	72	57
75°	30	32	35	38	39	32
85°	6	7	10	13	14	7
90°	0	2	4	5	6	1
95°	6	34	46	9	9	8
105°	39	118	200	238	260	42
115°	82	182	282	331	363	80
125°	118	215	317	372	401	106
135°	148	226	320	375	398	114
145°	168	226	300	349	367	106
155°	181	214	266	302	316	84
165°	189	197	226	248	254	53
175°	191	190	190	191	191	18
180°	187	187	187	187	187	



TEST NUMBER: P395356

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3
2.5°	141.3	140.8	140.8	139.8	139.8	139.3	139.3	139.3	139.3	139.3	139.8
5°	140.8	140.8	140.3	139.8	139.8	139.3	139.3	139.3	139.3	139.3	139.8
7.5°	140.3	140.3	139.8	139.3	139.3	139.3	139.3	139.3	139.3	139.3	140.3
10°	139.8	139.8	139.3	138.8	138.8	138.8	138.8	139.3	139.3	139.3	140.3
12.5°	138.8	138.3	138.3	137.8	137.8	137.8	138.3	138.3	138.8	139.3	140.3
15°	137.8	137.8	137.3	136.8	137.3	137.3	137.3	137.8	138.3	138.8	140.3
17.5°	136.3	136.3	135.9	135.9	135.9	136.3	136.3	136.8	137.8	138.8	139.8
20°	134.9	134.4	134.4	134.4	134.9	134.9	135.4	136.3	136.8	138.3	139.8
22.5°	132.4	132.9	132.4	132.4	132.9	133.4	133.9	134.9	135.9	137.3	138.8
25°	130.4	130.4	130.4	130.4	131.4	131.4	132.4	133.4	134.9	136.3	138.3
27.5°	127.9	127.9	127.9	128.4	128.9	129.4	129.9	131.4	132.9	134.9	136.8
30°	124.5	124.5	124.5	124.5	126.0	126.5	127.5	129.4	130.9	133.4	135.9
32.5°	121.5	121.5	121.5	122.0	123.0	123.5	124.5	127.0	128.9	131.4	133.9
35°	118.1	118.1	118.6	118.6	120.0	120.5	121.5	123.5	125.5	128.4	131.4
37.5°	114.6	114.6	115.1	115.6	116.6	117.6	118.6	120.5	122.5	125.0	127.9
40°	110.7	110.7	111.2	111.6	113.1	114.1	115.1	117.1	119.1	121.5	124.0
42.5°	106.7	106.7	107.2	107.7	109.2	110.2	111.2	113.6	115.6	118.1	120.0
45°	101.8	102.3	102.8	103.7	105.2	106.2	107.2	109.2	111.6	113.6	115.6
47.5°	97.3	97.8	98.3	99.3	100.8	101.8	102.8	104.7	106.7	108.7	111.2
50°	92.4	92.9	93.4	94.4	95.8	96.8	97.8	99.8	101.8	103.2	105.7
52.5°	86.9	87.4	87.9	88.9	90.9	91.4	92.4	94.4	95.8	97.8	99.8
55°	81.5	82.0	82.5	83.5	85.0	86.0	86.5	88.4	89.9	91.9	93.9
57.5°	76.1	76.6	77.1	78.1	79.0	80.0	80.5	82.0	84.0	85.5	87.4
60°	70.1	70.6	71.1	71.6	73.1	73.6	74.1	75.6	77.1	79.0	80.5
62.5°	64.2	64.2	64.7	65.2	66.7	67.2	67.7	68.7	70.6	71.6	73.1
65°	57.8	57.8	58.3	58.8	59.8	60.3	60.8	61.8	63.2	64.2	65.7
67.5°	50.9	50.9	51.4	51.9	52.9	53.4	53.4	54.8	55.8	56.8	57.8
70°	44.5	44.5	45.0	45.0	45.4	45.9	46.4	47.4	47.9	49.4	49.9
72.5°	37.5	37.5	37.5	37.5	38.5	38.5	39.0	40.0	40.5	41.5	42.5
75°	30.1	30.1	30.6	30.6	31.1	31.6	32.1	32.6	33.6	34.1	34.6
77.5°	23.7	23.2	23.7	24.2	24.7	24.7	25.2	25.7	26.2	27.2	27.7
80°	16.8	16.8	16.8	17.3	17.8	17.8	18.3	18.8	19.3	20.3	20.7
82.5°	10.9	10.9	11.4	11.4	11.9	12.4	12.4	12.8	13.3	14.3	14.8
85°	5.9	5.9	5.9	6.4	6.9	6.9	7.4	7.9	8.9	9.4	10.4
87.5°	2.0	2.0	2.5	3.0	3.5	3.5	4.0	4.4	4.9	5.9	6.4
90°	0.5	0.5	0.5	1.0	1.0	1.5	1.5	2.0	2.5	3.0	3.5
92.5°	2.0	3.5	5.4	7.9	7.4	7.9	5.4	3.5	3.5	3.5	4.0
95°	5.9	8.9	14.3	22.7	29.6	33.6	37.1	40.5	47.4	47.9	45.9
97.5°	11.9	16.3	26.2	37.1	49.4	55.8	60.8	71.1	82.0	88.9	97.3
100°	19.8	26.2	39.0	53.8	68.2	76.6	84.5	99.3	112.6	124.5	137.3
102.5°	29.1	36.6	52.4	70.6	88.4	97.8	106.2	123.5	141.8	157.6	171.4
105°	39.0	47.4	66.2	86.9	107.2	118.1	128.4	147.2	166.5	183.8	200.1
107.5°	49.9	58.8	79.0	102.3	125.0	137.3	148.7	169.0	189.2	208.0	225.3
110°	60.3	70.1	91.4	116.6	142.3	154.6	166.0	188.2	209.5	229.2	247.5



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CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	71.1	81.5	102.8	130.4	156.6	169.4	181.3	205.0	227.2	247.5	265.8
115°	81.5	91.4	113.6	142.3	169.0	182.3	195.1	219.3	242.6	262.8	281.6
117.5°	91.4	100.8	123.5	152.2	179.8	193.2	206.0	231.2	254.4	275.7	293.9
120°	101.3	109.7	134.4	160.6	188.7	202.1	215.4	240.6	264.3	285.5	304.3
122.5°	110.2	118.1	142.3	168.0	195.6	209.5	222.3	248.0	272.2	293.4	311.7
125°	118.1	125.5	149.7	173.9	201.6	214.9	228.2	253.4	277.6	298.4	317.2
127.5°	126.0	133.4	155.1	179.8	205.5	219.3	232.2	257.4	281.1	302.3	320.6
130°	134.4	139.8	160.6	185.3	209.5	222.3	235.6	259.8	283.1	303.8	322.1
132.5°	141.3	146.2	166.0	189.7	212.4	224.8	236.6	260.8	284.1	303.8	321.6
135°	147.7	151.7	169.9	193.7	214.9	226.3	237.6	260.3	283.1	302.8	320.1
137.5°	153.6	157.6	173.4	196.6	216.9	226.8	237.6	258.9	280.6	300.4	316.7
140°	159.1	162.0	176.4	198.1	217.9	227.2	236.6	256.4	276.6	295.9	312.2
142.5°	164.5	167.0	178.8	199.1	218.4	227.2	236.1	253.4	272.2	291.0	307.3
145°	168.5	170.9	180.8	199.6	217.9	226.3	234.2	250.5	267.3	284.5	300.4
147.5°	172.9	174.9	182.8	198.6	216.4	224.3	231.7	246.5	261.8	277.6	292.5
150°	175.9	177.8	183.8	197.6	213.9	221.3	228.7	242.6	256.4	270.2	283.1
152.5°	178.8	180.3	185.3	196.1	210.9	217.9	224.8	238.1	251.0	263.3	274.7
155°	181.3	182.8	186.2	195.1	207.5	213.9	220.3	233.2	245.0	255.9	266.3
157.5°	183.8	184.8	187.2	193.7	203.5	209.5	215.4	226.8	237.6	248.5	256.9
160°	185.7	186.2	188.2	193.2	200.1	204.5	210.0	220.3	230.2	239.6	247.5
162.5°	187.7	187.7	189.2	192.2	197.1	200.1	204.0	212.9	221.8	230.2	237.6
165°	188.7	188.7	189.7	191.7	194.6	196.6	199.1	205.0	211.9	219.3	226.3
167.5°	189.7	189.7	190.2	191.2	193.2	194.1	195.1	199.1	203.5	209.0	214.4
170°	190.7	190.2	190.2	191.2	191.7	192.2	192.7	194.6	196.6	200.1	203.0
172.5°	190.7	190.2	190.2	190.7	190.7	190.7	190.7	191.2	191.7	193.7	194.6
175°	190.7	190.2	190.2	190.2	190.2	189.7	189.7	189.7	189.7	189.7	190.2
177.5°	190.7	190.2	189.7	189.7	189.2	189.2	188.7	188.7	188.2	188.2	188.2
180°	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3
2.5°	139.8	139.8	139.3	139.3	138.8	138.8	138.3	137.8	137.3	137.3
5°	140.3	139.8	139.3	139.3	139.3	138.8	138.8	138.8	138.3	138.3
7.5°	140.3	140.3	140.3	139.8	139.8	139.8	139.8	139.8	139.3	139.3
10°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.3	140.3	140.3
12.5°	140.8	140.8	140.8	141.3	141.3	141.3	141.3	141.3	141.3	141.3
15°	141.3	141.3	141.8	141.8	142.3	142.3	142.8	142.8	142.8	142.3
17.5°	140.8	141.3	141.8	142.3	142.8	142.8	143.3	143.3	143.3	143.3
20°	140.8	141.8	142.3	142.8	143.3	143.3	143.8	144.3	144.3	143.8
22.5°	140.3	141.3	141.8	142.8	143.3	143.3	144.3	144.3	144.3	144.3
25°	139.8	140.8	141.8	142.8	143.3	143.3	144.3	144.3	144.7	144.7
27.5°	138.8	139.8	141.3	142.3	142.8	143.3	143.8	144.3	144.3	144.3
30°	137.3	138.8	140.3	141.3	141.8	142.3	142.8	143.3	143.8	143.8
32.5°	135.4	136.8	138.3	139.8	140.3	140.8	141.8	142.3	142.3	142.3
35°	133.4	134.9	136.3	137.8	138.3	138.8	139.8	140.3	140.8	140.8
37.5°	130.4	131.9	133.4	134.9	135.4	136.3	137.3	137.8	137.8	137.8
40°	126.0	128.4	130.4	131.9	132.4	133.4	133.9	134.9	134.9	134.9
42.5°	122.0	124.0	125.5	127.5	127.9	129.4	130.4	130.9	131.4	131.4
45°	117.6	119.6	121.0	122.5	123.0	124.0	125.0	125.5	126.0	126.5
47.5°	113.1	114.6	116.1	117.6	118.1	119.1	120.0	120.5	121.0	121.0
50°	107.7	109.2	110.7	112.1	112.6	113.6	114.1	114.6	115.1	115.1
52.5°	101.8	103.2	104.7	106.2	106.7	107.2	108.2	108.7	109.2	109.2
55°	95.8	97.3	98.3	99.8	100.3	100.8	101.3	102.3	102.8	102.3
57.5°	88.9	90.4	91.4	92.9	93.4	93.9	94.4	94.8	95.3	95.3
60°	81.5	83.0	84.5	85.5	86.0	86.5	86.9	87.4	87.9	87.9
62.5°	74.1	75.6	76.6	78.1	78.5	78.5	79.0	79.5	80.0	80.0
65°	66.7	68.2	68.7	70.1	70.1	70.6	71.1	71.6	71.6	71.6
67.5°	58.8	60.3	60.8	61.8	61.8	62.2	62.7	63.2	63.2	63.2
70°	51.4	51.9	52.9	53.4	53.8	53.8	54.3	54.8	55.3	54.8
72.5°	43.5	44.0	45.0	45.4	45.4	45.9	45.9	46.4	46.9	46.9
75°	35.6	36.6	37.1	37.5	38.0	38.0	38.5	39.0	39.0	39.0
77.5°	28.2	29.1	29.6	30.1	30.6	30.6	31.1	31.1	31.6	31.1
80°	21.7	22.2	22.7	23.2	23.7	23.7	24.2	24.7	24.7	24.7
82.5°	15.8	16.3	17.3	17.8	17.8	17.8	18.8	18.8	19.3	18.8
85°	10.9	11.4	12.4	12.8	13.3	13.3	13.3	13.8	14.3	13.8
87.5°	6.9	7.9	8.4	8.9	8.9	8.9	9.4	9.9	9.9	9.9
90°	4.0	4.0	4.4	4.9	4.9	5.4	5.4	5.9	5.9	5.9
92.5°	4.0	4.4	4.4	4.4	4.9	4.9	4.9	5.4	5.4	5.4
95°	33.6	24.2	13.8	10.9	9.4	9.4	8.9	9.4	8.9	8.9
97.5°	101.8	110.2	114.1	119.6	122.5	122.0	120.0	122.0	120.5	122.0
100°	144.7	152.6	158.6	160.1	163.0	164.5	169.9	173.9	175.9	178.3
102.5°	179.8	189.2	196.1	200.1	203.0	205.0	211.4	217.4	220.3	222.3
105°	211.9	221.8	230.2	234.2	237.6	239.6	246.5	253.4	257.9	260.3
107.5°	237.6	249.0	257.9	263.8	267.3	270.7	279.1	286.0	291.5	293.9
110°	260.8	272.2	281.6	288.5	292.5	295.9	305.3	313.2	319.1	322.1





TEST NUMBER: P395356

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	280.1	292.5	301.8	309.3	313.2	318.1	327.0	335.9	341.9	345.3
115°	295.9	308.8	318.6	326.5	331.0	335.4	345.8	354.7	360.6	363.1
117.5°	309.3	322.1	332.5	340.4	345.3	350.3	360.6	368.5	375.0	376.9
120°	320.1	333.0	343.3	352.2	357.2	361.6	371.5	379.9	385.8	387.3
122.5°	327.5	340.9	351.7	361.6	366.1	370.5	379.9	388.3	393.7	395.2
125°	333.0	346.8	357.7	368.0	372.5	376.9	385.8	394.2	398.7	400.6
127.5°	336.4	350.3	362.1	372.0	376.9	380.9	389.8	397.2	401.6	403.1
130°	337.4	351.7	363.6	374.0	378.4	382.4	390.8	398.2	402.1	403.1
132.5°	337.4	351.2	363.6	373.5	377.9	381.9	389.8	396.7	400.6	401.6
135°	335.4	348.8	361.1	371.0	375.4	379.4	387.3	393.2	397.2	397.7
137.5°	332.0	344.8	356.7	366.6	371.0	375.0	381.9	388.3	391.7	392.7
140°	327.5	339.4	351.2	360.6	365.1	368.5	375.4	380.9	384.3	385.3
142.5°	321.6	333.5	344.3	353.7	357.2	361.1	367.0	372.5	375.4	376.4
145°	315.2	326.5	336.4	344.8	348.8	352.2	357.7	362.6	365.6	366.6
147.5°	306.8	318.1	327.5	335.4	338.9	342.3	347.3	351.7	354.7	355.7
150°	296.4	306.8	316.7	324.1	327.5	331.0	335.9	339.9	342.8	343.3
152.5°	286.0	295.9	304.3	311.7	315.2	318.6	323.1	327.0	330.5	330.5
155°	276.2	284.5	292.5	298.9	301.8	304.8	309.3	312.7	315.7	315.7
157.5°	265.8	273.7	280.1	286.0	288.5	291.0	294.9	297.9	300.4	299.9
160°	255.9	261.8	267.8	272.7	275.2	277.1	280.1	282.6	285.0	284.5
162.5°	245.0	250.5	255.4	258.9	260.8	262.3	265.3	267.8	269.2	269.2
165°	232.7	237.6	242.1	245.5	247.5	248.5	251.0	252.4	253.9	253.9
167.5°	219.8	223.8	227.7	230.7	232.7	233.7	236.1	237.1	239.1	238.6
170°	207.0	210.0	212.9	215.4	216.4	217.4	219.3	220.3	221.3	221.3
172.5°	196.6	197.6	199.1	201.1	201.1	201.6	202.5	203.0	203.5	203.5
175°	190.7	191.2	191.2	191.2	191.2	191.2	191.7	191.2	191.7	191.2
177.5°	188.2	188.2	187.7	187.7	187.2	187.7	187.2	186.7	186.7	186.2
180°	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2

(END OF REPORT)