

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: P395359

Luminaire Tested: **I3-CL-20L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395359  
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 (5000K)  
Description: CORELITE I3, CLEAR TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2017.3 lumens  
Efficiency: N/A  
Efficacy: 119.4 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

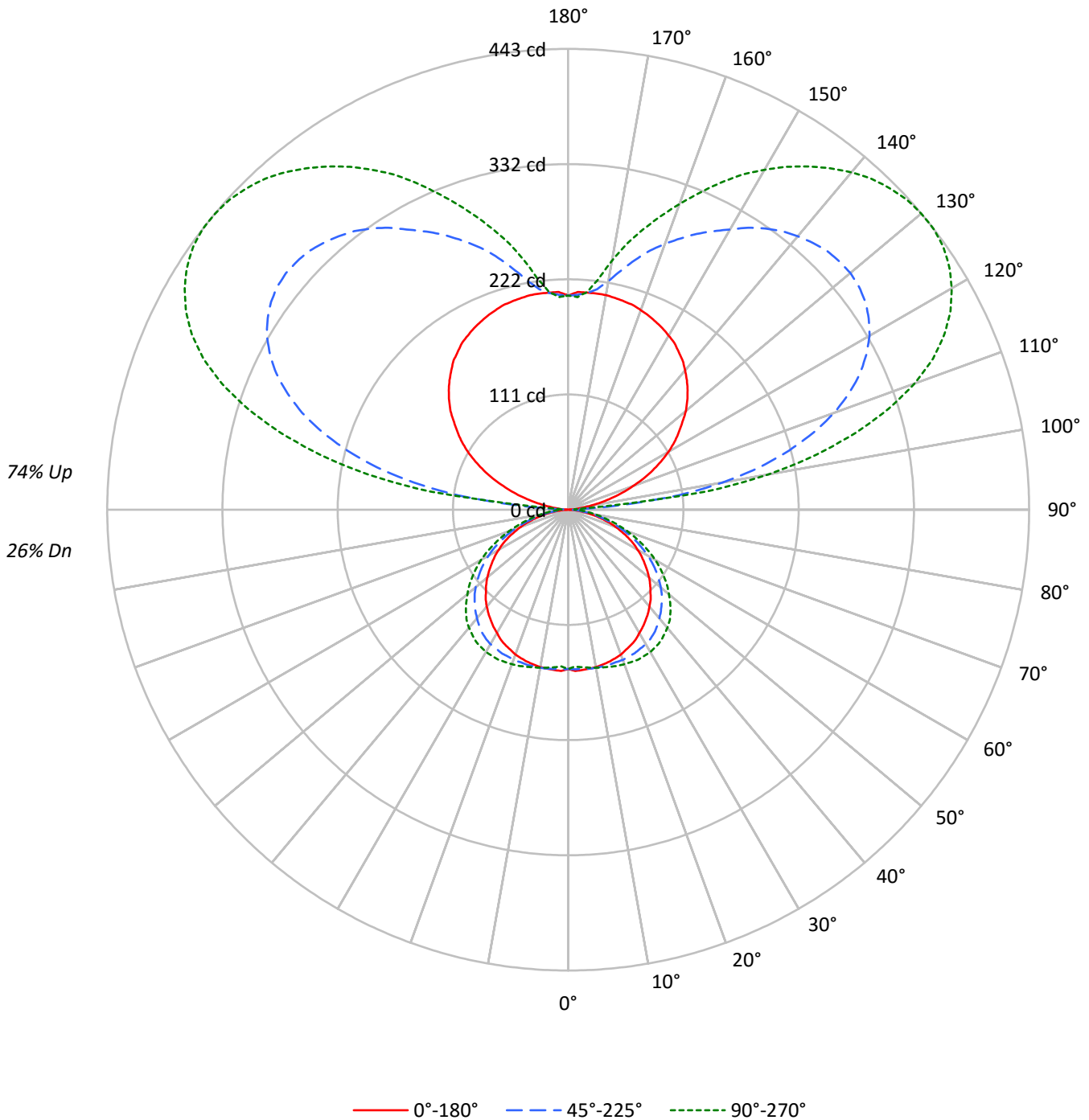
Input Watts (W): 16.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	842	842	842
5°	850	828	815
10°	851	822	813
15°	852	819	816
20°	854	819	824
25°	852	820	835
30°	847	822	841
35°	845	817	842
40°	842	800	831
45°	834	780	810
50°	826	755	774
55°	809	716	730
60°	789	666	673
65°	757	598	597
70°	704	509	506
75°	607	405	406
80°	472	288	297
85°	276	178	199



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.6	0.7
10°-20°	43.5	2.2
20°-30°	69.8	3.5
30°-40°	89.2	4.4
40°-50°	97.3	4.8
50°-60°	91.2	4.5
60°-70°	70.7	3.5
70°-80°	40.5	2.0
80°-90°	13.0	0.6
90°-100°	52.0	2.6
100°-110°	202.2	10.0
110°-120°	275.4	13.6
120°-130°	285.8	14.2
130°-140°	253.5	12.6
140°-150°	196.7	9.8
150°-160°	131.3	6.5
160°-170°	70.0	3.5
170°-180°	20.5	1.0
0°-30°	127.9	6.3
0°-40°	217.1	10.8
0°-60°	405.6	20.1
0°-90°	529.8	26.3
90°-120°	529.6	26.3
90°-150°	1265.7	62.7
90°-180°	1487.0	73.7
0°-180°	2017.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	153	153	153	153	153	
5°	155	153	154	153	152	15
15°	151	151	154	156	156	43
25°	143	144	152	157	159	66
35°	130	132	144	152	155	81
45°	112	117	127	135	139	86
55°	90	94	103	110	112	80
65°	64	66	72	77	79	63
75°	33	35	38	42	43	35
85°	6	8	11	15	15	8
90°	0	2	4	5	6	1
95°	6	37	50	10	10	9
105°	43	130	220	261	286	46
115°	90	200	309	364	399	88
125°	130	236	348	409	440	116
135°	162	249	352	413	437	125
145°	185	249	330	383	403	116
155°	199	235	293	332	347	92
165°	207	216	249	272	279	59
175°	210	208	209	210	210	20
180°	206	206	206	206	206	



TEST NUMBER: P395359

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1
2.5°	155.2	154.7	154.7	153.6	153.6	153.1	153.1	153.1	153.1	153.1	153.6
5°	154.7	154.7	154.2	153.6	153.6	153.1	153.1	153.1	153.1	153.1	153.6
7.5°	154.2	154.2	153.6	153.1	153.1	153.1	153.1	153.1	153.1	153.1	154.2
10°	153.6	153.6	153.1	152.5	152.5	152.5	152.5	153.1	153.1	153.1	154.2
12.5°	152.5	152.0	152.0	151.4	151.4	151.4	152.0	152.0	152.5	153.1	154.2
15°	151.4	151.4	150.9	150.4	150.9	150.9	150.9	151.4	152.0	152.5	154.2
17.5°	149.8	149.8	149.3	149.3	149.3	149.8	149.8	150.4	151.4	152.5	153.6
20°	148.2	147.6	147.6	147.6	148.2	148.2	148.7	149.8	150.4	152.0	153.6
22.5°	145.5	146.0	145.5	145.5	146.0	146.6	147.1	148.2	149.3	150.9	152.5
25°	143.3	143.3	143.3	143.3	144.4	144.4	145.5	146.6	148.2	149.8	152.0
27.5°	140.6	140.6	140.6	141.1	141.7	142.2	142.8	144.4	146.0	148.2	150.4
30°	136.8	136.8	136.8	136.8	138.4	139.0	140.1	142.2	143.8	146.6	149.3
32.5°	133.5	133.5	133.5	134.1	135.2	135.7	136.8	139.5	141.7	144.4	147.1
35°	129.7	129.7	130.3	130.3	131.9	132.5	133.5	135.7	137.9	141.1	144.4
37.5°	125.9	125.9	126.5	127.0	128.1	129.2	130.3	132.5	134.6	137.3	140.6
40°	121.6	121.6	122.1	122.7	124.3	125.4	126.5	128.7	130.8	133.5	136.3
42.5°	117.3	117.3	117.8	118.3	120.0	121.1	122.1	124.9	127.0	129.7	131.9
45°	111.8	112.4	112.9	114.0	115.6	116.7	117.8	120.0	122.7	124.9	127.0
47.5°	106.9	107.5	108.0	109.1	110.7	111.8	112.9	115.1	117.3	119.4	122.1
50°	101.5	102.1	102.6	103.7	105.3	106.4	107.5	109.7	111.8	113.5	116.2
52.5°	95.5	96.1	96.6	97.7	99.9	100.4	101.5	103.7	105.3	107.5	109.7
55°	89.6	90.1	90.7	91.7	93.4	94.5	95.0	97.2	98.8	101.0	103.1
57.5°	83.6	84.1	84.7	85.8	86.9	87.9	88.5	90.1	92.3	93.9	96.1
60°	77.1	77.6	78.2	78.7	80.3	80.9	81.4	83.1	84.7	86.9	88.5
62.5°	70.6	70.6	71.1	71.7	73.3	73.8	74.4	75.5	77.6	78.7	80.3
65°	63.5	63.5	64.1	64.6	65.7	66.2	66.8	67.9	69.5	70.6	72.2
67.5°	55.9	55.9	56.5	57.0	58.1	58.6	58.6	60.3	61.3	62.4	63.5
70°	48.9	48.9	49.4	49.4	49.9	50.5	51.0	52.1	52.7	54.3	54.8
72.5°	41.3	41.3	41.3	41.3	42.3	42.3	42.9	44.0	44.5	45.6	46.7
75°	33.1	33.1	33.7	33.7	34.2	34.7	35.3	35.8	36.9	37.5	38.0
77.5°	26.1	25.5	26.1	26.6	27.1	27.1	27.7	28.2	28.8	29.9	30.4
80°	18.5	18.5	18.5	19.0	19.5	19.5	20.1	20.6	21.2	22.3	22.8
82.5°	11.9	11.9	12.5	12.5	13.0	13.6	13.6	14.1	14.7	15.7	16.3
85°	6.5	6.5	6.5	7.1	7.6	7.6	8.1	8.7	9.8	10.3	11.4
87.5°	2.2	2.2	2.7	3.3	3.8	3.8	4.3	4.9	5.4	6.5	7.1
90°	0.5	0.5	0.5	1.1	1.1	1.6	1.6	2.2	2.7	3.3	3.8
92.5°	2.2	3.8	6.0	8.7	8.1	8.7	6.0	3.8	3.8	3.8	4.3
95°	6.5	9.8	15.7	25.0	32.6	36.9	40.7	44.5	52.1	52.7	50.5
97.5°	13.0	17.9	28.8	40.7	54.3	61.3	66.8	78.2	90.1	97.7	106.9
100°	21.7	28.8	42.9	59.2	74.9	84.1	92.8	109.1	123.8	136.8	150.9
102.5°	32.0	40.2	57.5	77.6	97.2	107.5	116.7	135.7	155.8	173.2	188.4
105°	42.9	52.1	72.7	95.5	117.8	129.7	141.1	161.8	182.9	201.9	219.8
107.5°	54.8	64.6	86.9	112.4	137.3	150.9	163.4	185.6	207.9	228.5	247.5
110°	66.2	77.1	100.4	128.1	156.3	169.9	182.4	206.8	230.2	251.9	272.0



TEST NUMBER: P395359

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	78.2	89.6	112.9	143.3	172.1	186.2	199.2	225.3	249.7	272.0	292.0
115°	89.6	100.4	124.9	156.3	185.6	200.3	214.4	241.0	266.5	288.8	309.4
117.5°	100.4	110.7	135.7	167.2	197.6	212.2	226.4	254.0	279.6	302.9	323.0
120°	111.3	120.5	147.6	176.4	207.4	222.0	236.7	264.4	290.4	313.8	334.4
122.5°	121.1	129.7	156.3	184.6	215.0	230.2	244.3	272.5	299.1	322.4	342.5
125°	129.7	137.9	164.5	191.1	221.5	236.1	250.8	278.5	305.1	327.9	348.5
127.5°	138.4	146.6	170.4	197.6	225.8	241.0	255.1	282.8	308.9	332.2	352.3
130°	147.6	153.6	176.4	203.6	230.2	244.3	258.9	285.5	311.0	333.8	353.9
132.5°	155.2	160.7	182.4	208.4	233.4	247.0	260.0	286.6	312.1	333.8	353.4
135°	162.3	166.6	186.7	212.8	236.1	248.6	261.1	286.1	311.0	332.8	351.8
137.5°	168.8	173.2	190.5	216.0	238.3	249.2	261.1	284.4	308.3	330.0	348.0
140°	174.8	178.0	193.8	217.7	239.4	249.7	260.0	281.7	304.0	325.2	343.1
142.5°	180.8	183.5	196.5	218.8	239.9	249.7	259.5	278.5	299.1	319.7	337.6
145°	185.1	187.8	198.7	219.3	239.4	248.6	257.3	275.2	293.7	312.7	330.0
147.5°	190.0	192.2	200.8	218.2	237.8	246.4	254.6	270.9	287.7	305.1	321.4
150°	193.2	195.4	201.9	217.1	235.0	243.2	251.3	266.5	281.7	296.9	311.0
152.5°	196.5	198.1	203.6	215.5	231.8	239.4	247.0	261.6	275.8	289.3	301.8
155°	199.2	200.8	204.6	214.4	228.0	235.0	242.1	256.2	269.2	281.2	292.6
157.5°	201.9	203.0	205.7	212.8	223.6	230.2	236.7	249.2	261.1	273.0	282.3
160°	204.1	204.6	206.8	212.2	219.8	224.7	230.7	242.1	253.0	263.3	272.0
162.5°	206.3	206.3	207.9	211.2	216.6	219.8	224.2	234.0	243.7	253.0	261.1
165°	207.4	207.4	208.4	210.6	213.9	216.0	218.8	225.3	232.9	241.0	248.6
167.5°	208.4	208.4	209.0	210.1	212.2	213.3	214.4	218.8	223.6	229.6	235.6
170°	209.5	209.0	209.0	210.1	210.6	211.2	211.7	213.9	216.0	219.8	223.1
172.5°	209.5	209.0	209.0	209.5	209.5	209.5	209.5	210.1	210.6	212.8	213.9
175°	209.5	209.0	209.0	209.0	209.0	208.4	208.4	208.4	208.4	208.4	209.0
177.5°	209.5	209.0	208.4	208.4	207.9	207.9	207.4	207.4	206.8	206.8	206.8
180°	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7



TEST NUMBER: P395359

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1
2.5°	153.6	153.6	153.1	153.1	152.5	152.5	152.0	151.4	150.9	150.9
5°	154.2	153.6	153.1	153.1	153.1	152.5	152.5	152.5	152.0	152.0
7.5°	154.2	154.2	154.2	153.6	153.6	153.6	153.6	153.6	153.1	153.1
10°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.2	154.2	154.2
12.5°	154.7	154.7	154.7	155.2	155.2	155.2	155.2	155.2	155.2	155.2
15°	155.2	155.2	155.8	155.8	156.3	156.3	156.9	156.9	156.9	156.3
17.5°	154.7	155.2	155.8	156.3	156.9	156.9	157.4	157.4	157.4	157.4
20°	154.7	155.8	156.3	156.9	157.4	157.4	158.0	158.5	158.5	158.0
22.5°	154.2	155.2	155.8	156.9	157.4	157.4	158.5	158.5	158.5	158.5
25°	153.6	154.7	155.8	156.9	157.4	157.4	158.5	158.5	159.0	159.0
27.5°	152.5	153.6	155.2	156.3	156.9	157.4	158.0	158.5	158.5	158.5
30°	150.9	152.5	154.2	155.2	155.8	156.3	156.9	157.4	158.0	158.0
32.5°	148.7	150.4	152.0	153.6	154.2	154.7	155.8	156.3	156.3	156.3
35°	146.6	148.2	149.8	151.4	152.0	152.5	153.6	154.2	154.7	154.7
37.5°	143.3	144.9	146.6	148.2	148.7	149.8	150.9	151.4	151.4	151.4
40°	138.4	141.1	143.3	144.9	145.5	146.6	147.1	148.2	148.2	148.2
42.5°	134.1	136.3	137.9	140.1	140.6	142.2	143.3	143.8	144.4	144.4
45°	129.2	131.4	133.0	134.6	135.2	136.3	137.3	137.9	138.4	139.0
47.5°	124.3	125.9	127.6	129.2	129.7	130.8	131.9	132.5	133.0	133.0
50°	118.3	120.0	121.6	123.2	123.8	124.9	125.4	125.9	126.5	126.5
52.5°	111.8	113.5	115.1	116.7	117.3	117.8	118.9	119.4	120.0	120.0
55°	105.3	106.9	108.0	109.7	110.2	110.7	111.3	112.4	112.9	112.4
57.5°	97.7	99.3	100.4	102.1	102.6	103.1	103.7	104.2	104.8	104.8
60°	89.6	91.2	92.8	93.9	94.5	95.0	95.5	96.1	96.6	96.6
62.5°	81.4	83.1	84.1	85.8	86.3	86.3	86.9	87.4	87.9	87.9
65°	73.3	74.9	75.5	77.1	77.1	77.6	78.2	78.7	78.7	78.7
67.5°	64.6	66.2	66.8	67.9	67.9	68.4	68.9	69.5	69.5	69.5
70°	56.5	57.0	58.1	58.6	59.2	59.2	59.7	60.3	60.8	60.3
72.5°	47.8	48.3	49.4	49.9	49.9	50.5	50.5	51.0	51.6	51.6
75°	39.1	40.2	40.7	41.3	41.8	41.8	42.3	42.9	42.9	42.9
77.5°	30.9	32.0	32.6	33.1	33.7	33.7	34.2	34.2	34.7	34.2
80°	23.9	24.4	25.0	25.5	26.1	26.1	26.6	27.1	27.1	27.1
82.5°	17.4	17.9	19.0	19.5	19.5	19.5	20.6	20.6	21.2	20.6
85°	11.9	12.5	13.6	14.1	14.7	14.7	14.7	15.2	15.7	15.2
87.5°	7.6	8.7	9.2	9.8	9.8	9.8	10.3	10.9	10.9	10.9
90°	4.3	4.3	4.9	5.4	5.4	6.0	6.0	6.5	6.5	6.5
92.5°	4.3	4.9	4.9	4.9	5.4	5.4	5.4	6.0	6.0	6.0
95°	36.9	26.6	15.2	11.9	10.3	10.3	9.8	10.3	9.8	9.8
97.5°	111.8	121.1	125.4	131.4	134.6	134.1	131.9	134.1	132.5	134.1
100°	159.0	167.7	174.2	175.9	179.1	180.8	186.7	191.1	193.2	196.0
102.5°	197.6	207.9	215.5	219.8	223.1	225.3	232.3	238.8	242.1	244.3
105°	232.9	243.7	253.0	257.3	261.1	263.3	270.9	278.5	283.4	286.1
107.5°	261.1	273.6	283.4	289.9	293.7	297.5	306.7	314.3	320.3	323.0
110°	286.6	299.1	309.4	317.0	321.4	325.2	335.5	344.2	350.7	353.9





TEST NUMBER: P395359

CATALOG NUMBER: I3-CL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	307.8	321.4	331.7	339.8	344.2	349.6	359.4	369.1	375.6	379.4
115°	325.2	339.3	350.1	358.8	363.7	368.6	380.0	389.8	396.3	399.0
117.5°	339.8	353.9	365.3	374.0	379.4	384.9	396.3	405.0	412.0	414.2
120°	351.8	365.9	377.3	387.0	392.5	397.4	408.2	417.4	423.9	425.6
122.5°	359.9	374.6	386.5	397.4	402.2	407.1	417.4	426.7	432.6	434.3
125°	365.9	381.1	393.0	404.4	409.3	414.2	423.9	433.2	438.1	440.2
127.5°	369.7	384.9	397.9	408.8	414.2	418.5	428.3	436.4	441.3	442.9
130°	370.8	386.5	399.5	410.9	415.8	420.2	429.4	437.5	441.9	442.9
132.5°	370.8	386.0	399.5	410.4	415.3	419.6	428.3	435.9	440.2	441.3
135°	368.6	383.2	396.8	407.7	412.6	416.9	425.6	432.1	436.4	437.0
137.5°	364.8	378.9	391.9	402.8	407.7	412.0	419.6	426.7	430.5	431.5
140°	359.9	372.9	386.0	396.3	401.2	405.0	412.6	418.5	422.3	423.4
142.5°	353.4	366.4	378.4	388.7	392.5	396.8	403.3	409.3	412.6	413.6
145°	346.3	358.8	369.7	378.9	383.2	387.0	393.0	398.4	401.7	402.8
147.5°	337.1	349.6	359.9	368.6	372.4	376.2	381.6	386.5	389.8	390.8
150°	325.7	337.1	348.0	356.1	359.9	363.7	369.1	373.5	376.7	377.3
152.5°	314.3	325.2	334.4	342.5	346.3	350.1	355.0	359.4	363.2	363.2
155°	303.4	312.7	321.4	328.4	331.7	334.9	339.8	343.6	346.9	346.9
157.5°	292.0	300.7	307.8	314.3	317.0	319.7	324.1	327.3	330.0	329.5
160°	281.2	287.7	294.2	299.6	302.4	304.5	307.8	310.5	313.2	312.7
162.5°	269.2	275.2	280.6	284.4	286.6	288.2	291.5	294.2	295.8	295.8
165°	255.7	261.1	266.0	269.8	272.0	273.0	275.8	277.4	279.0	279.0
167.5°	241.6	245.9	250.2	253.5	255.7	256.8	259.5	260.6	262.7	262.2
170°	227.4	230.7	234.0	236.7	237.8	238.8	241.0	242.1	243.2	243.2
172.5°	216.0	217.1	218.8	220.9	220.9	221.5	222.6	223.1	223.6	223.6
175°	209.5	210.1	210.1	210.1	210.1	210.1	210.6	210.1	210.6	210.1
177.5°	206.8	206.8	206.3	206.3	205.7	206.3	205.7	205.2	205.2	204.6
180°	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7

(END OF REPORT)