

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: P395336

Luminaire Tested: **I3-CL-20L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395336
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-20L82765-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, CLEAR TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2110.1 lumens
Efficiency: N/A
Efficacy: 129.5 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

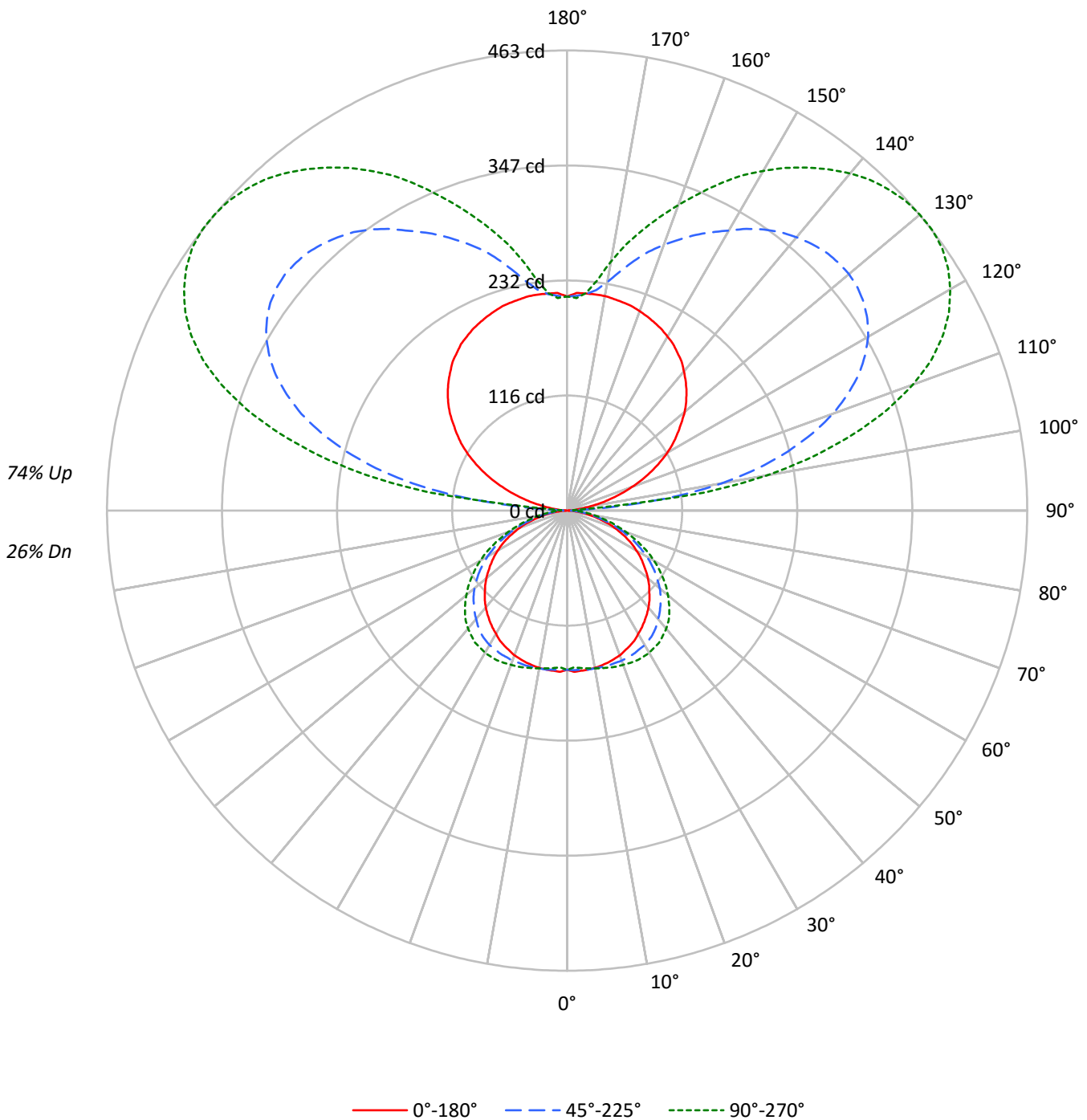
Input Watts (W): 16.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P395336

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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	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°	880	880	880
5°	889	867	852
10°	890	860	850
15°	891	857	854
20°	893	857	862
25°	891	858	873
30°	886	859	879
35°	884	854	880
40°	881	836	869
45°	872	816	848
50°	864	789	810
55°	846	749	763
60°	825	697	705
65°	791	625	624
70°	735	532	528
75°	634	423	425
80°	492	300	311
85°	289	186	208



TEST NUMBER: P395336

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.3	0.7
10°-20°	45.5	2.2
20°-30°	73.0	3.5
30°-40°	93.3	4.4
40°-50°	101.8	4.8
50°-60°	95.4	4.5
60°-70°	74.0	3.5
70°-80°	42.4	2.0
80°-90°	13.6	0.6
90°-100°	54.4	2.6
100°-110°	211.6	10.0
110°-120°	288.0	13.6
120°-130°	299.0	14.2
130°-140°	265.2	12.6
140°-150°	205.8	9.8
150°-160°	137.3	6.5
160°-170°	73.2	3.5
170°-180°	21.4	1.0
0°-30°	133.8	6.3
0°-40°	227.2	10.8
0°-60°	424.3	20.1
0°-90°	554.2	26.3
90°-120°	554.0	26.3
90°-150°	1324.0	62.7
90°-180°	1556.0	73.7
0°-180°	2110.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	160	160	160	160	160	
5°	162	160	161	160	159	15
15°	158	158	161	164	164	45
25°	150	151	159	165	166	69
35°	136	138	151	159	162	85
45°	117	122	133	141	145	90
55°	94	99	108	115	118	84
65°	66	69	76	81	82	65
75°	35	36	40	44	45	37
85°	7	8	12	15	16	8
90°	1	2	4	6	7	1
95°	7	39	53	11	10	9
105°	45	136	230	273	299	48
115°	94	210	324	380	417	92
125°	136	247	364	428	460	121
135°	170	260	368	432	457	131
145°	194	260	345	401	421	121
155°	208	246	306	347	363	96
165°	217	226	260	284	292	61
175°	219	218	219	220	220	21
180°	215	215	215	215	215	



TEST NUMBER: P395336

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	162.4	161.8	161.8	160.7	160.7	160.1	160.1	160.1	160.1	160.1	160.7
5°	161.8	161.8	161.3	160.7	160.7	160.1	160.1	160.1	160.1	160.1	160.7
7.5°	161.3	161.3	160.7	160.1	160.1	160.1	160.1	160.1	160.1	160.1	161.3
10°	160.7	160.7	160.1	159.6	159.6	159.6	159.6	160.1	160.1	160.1	161.3
12.5°	159.6	159.0	159.0	158.4	158.4	158.4	159.0	159.0	159.6	160.1	161.3
15°	158.4	158.4	157.9	157.3	157.9	157.9	157.9	158.4	159.0	159.6	161.3
17.5°	156.7	156.7	156.2	156.2	156.2	156.7	156.7	157.3	158.4	159.6	160.7
20°	155.0	154.4	154.4	154.4	155.0	155.0	155.6	156.7	157.3	159.0	160.7
22.5°	152.2	152.7	152.2	152.2	152.7	153.3	153.9	155.0	156.2	157.9	159.6
25°	149.9	149.9	149.9	149.9	151.0	151.0	152.2	153.3	155.0	156.7	159.0
27.5°	147.1	147.1	147.1	147.6	148.2	148.8	149.3	151.0	152.7	155.0	157.3
30°	143.1	143.1	143.1	143.1	144.8	145.4	146.5	148.8	150.5	153.3	156.2
32.5°	139.7	139.7	139.7	140.3	141.4	142.0	143.1	145.9	148.2	151.0	153.9
35°	135.7	135.7	136.3	136.3	138.0	138.5	139.7	142.0	144.2	147.6	151.0
37.5°	131.7	131.7	132.3	132.9	134.0	135.1	136.3	138.5	140.8	143.7	147.1
40°	127.2	127.2	127.8	128.3	130.0	131.2	132.3	134.6	136.8	139.7	142.5
42.5°	122.6	122.6	123.2	123.8	125.5	126.6	127.8	130.6	132.9	135.7	138.0
45°	117.0	117.5	118.1	119.2	120.9	122.1	123.2	125.5	128.3	130.6	132.9
47.5°	111.9	112.4	113.0	114.1	115.8	117.0	118.1	120.4	122.6	124.9	127.8
50°	106.2	106.8	107.3	108.5	110.2	111.3	112.4	114.7	117.0	118.7	121.5
52.5°	99.9	100.5	101.1	102.2	104.5	105.0	106.2	108.5	110.2	112.4	114.7
55°	93.7	94.3	94.8	96.0	97.7	98.8	99.4	101.6	103.3	105.6	107.9
57.5°	87.4	88.0	88.6	89.7	90.9	92.0	92.6	94.3	96.5	98.2	100.5
60°	80.6	81.2	81.8	82.3	84.0	84.6	85.2	86.9	88.6	90.9	92.6
62.5°	73.8	73.8	74.4	75.0	76.7	77.2	77.8	78.9	81.2	82.3	84.0
65°	66.4	66.4	67.0	67.6	68.7	69.3	69.8	71.0	72.7	73.8	75.5
67.5°	58.5	58.5	59.1	59.6	60.8	61.3	61.3	63.0	64.2	65.3	66.4
70°	51.1	51.1	51.7	51.7	52.2	52.8	53.4	54.5	55.1	56.8	57.3
72.5°	43.2	43.2	43.2	43.2	44.3	44.3	44.9	46.0	46.6	47.7	48.8
75°	34.6	34.6	35.2	35.2	35.8	36.3	36.9	37.5	38.6	39.2	39.7
77.5°	27.3	26.7	27.3	27.8	28.4	28.4	29.0	29.5	30.1	31.2	31.8
80°	19.3	19.3	19.3	19.9	20.4	20.4	21.0	21.6	22.1	23.3	23.8
82.5°	12.5	12.5	13.1	13.1	13.6	14.2	14.2	14.8	15.3	16.5	17.0
85°	6.8	6.8	6.8	7.4	7.9	7.9	8.5	9.1	10.2	10.8	11.9
87.5°	2.3	2.3	2.8	3.4	4.0	4.0	4.5	5.1	5.7	6.8	7.4
90°	0.6	0.6	0.6	1.1	1.1	1.7	1.7	2.3	2.8	3.4	4.0
92.5°	2.3	4.0	6.2	9.1	8.5	9.1	6.2	4.0	4.0	4.0	4.5
95°	6.8	10.2	16.5	26.1	34.1	38.6	42.6	46.6	54.5	55.1	52.8
97.5°	13.6	18.7	30.1	42.6	56.8	64.2	69.8	81.8	94.3	102.2	111.9
100°	22.7	30.1	44.9	61.9	78.4	88.0	97.1	114.1	129.5	143.1	157.9
102.5°	33.5	42.0	60.2	81.2	101.6	112.4	122.1	142.0	163.0	181.1	197.0
105°	44.9	54.5	76.1	99.9	123.2	135.7	147.6	169.2	191.4	211.2	230.0
107.5°	57.3	67.6	90.9	117.5	143.7	157.9	170.9	194.2	217.5	239.1	258.9
110°	69.3	80.6	105.0	134.0	163.5	177.7	190.8	216.3	240.8	263.5	284.5



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CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	81.8	93.7	118.1	149.9	180.0	194.8	208.4	235.6	261.2	284.5	305.5
115°	93.7	105.0	130.6	163.5	194.2	209.5	224.3	252.1	278.8	302.1	323.7
117.5°	105.0	115.8	142.0	174.9	206.7	222.0	236.8	265.7	292.4	316.8	337.9
120°	116.4	126.1	154.4	184.5	216.9	232.2	247.6	276.5	303.8	328.2	349.8
122.5°	126.6	135.7	163.5	193.1	224.9	240.8	255.5	285.0	312.9	337.3	358.3
125°	135.7	144.2	172.0	199.9	231.7	247.0	262.3	291.3	319.1	343.0	364.5
127.5°	144.8	153.3	178.3	206.7	236.2	252.1	266.9	295.8	323.1	347.5	368.5
130°	154.4	160.7	184.5	212.9	240.8	255.5	270.9	298.7	325.4	349.2	370.2
132.5°	162.4	168.1	190.8	218.0	244.2	258.4	272.0	299.8	326.5	349.2	369.7
135°	169.8	174.3	195.3	222.6	247.0	260.1	273.1	299.2	325.4	348.1	367.9
137.5°	176.6	181.1	199.3	226.0	249.3	260.6	273.1	297.5	322.5	345.2	364.0
140°	182.8	186.2	202.7	227.7	250.4	261.2	272.0	294.7	318.0	340.1	358.9
142.5°	189.1	191.9	205.6	228.8	251.0	261.2	271.4	291.3	312.9	334.4	353.2
145°	193.6	196.5	207.8	229.4	250.4	260.1	269.1	287.9	307.2	327.1	345.2
147.5°	198.7	201.0	210.1	228.3	248.7	257.8	266.3	283.3	300.9	319.1	336.1
150°	202.1	204.4	211.2	227.1	245.9	254.4	262.9	278.8	294.7	310.6	325.4
152.5°	205.6	207.3	212.9	225.4	242.5	250.4	258.4	273.7	288.5	302.6	315.7
155°	208.4	210.1	214.1	224.3	238.5	245.9	253.2	268.0	281.6	294.1	306.1
157.5°	211.2	212.4	215.2	222.6	233.9	240.8	247.6	260.6	273.1	285.6	295.3
160°	213.5	214.1	216.3	222.0	230.0	235.1	241.3	253.2	264.6	275.4	284.5
162.5°	215.8	215.8	217.5	220.9	226.6	230.0	234.5	244.7	255.0	264.6	273.1
165°	216.9	216.9	218.0	220.3	223.7	226.0	228.8	235.6	243.6	252.1	260.1
167.5°	218.0	218.0	218.6	219.7	222.0	223.2	224.3	228.8	233.9	240.2	246.4
170°	219.2	218.6	218.6	219.7	220.3	220.9	221.5	223.7	226.0	230.0	233.4
172.5°	219.2	218.6	218.6	219.2	219.2	219.2	219.2	219.7	220.3	222.6	223.7
175°	219.2	218.6	218.6	218.6	218.6	218.0	218.0	218.0	218.0	218.0	218.6
177.5°	219.2	218.6	218.0	218.0	217.5	217.5	216.9	216.9	216.3	216.3	216.3
180°	215.2	215.2	215.2	215.2	215.2	215.2	215.2	215.2	215.2	215.2	215.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	160.7	160.7	160.1	160.1	159.6	159.6	159.0	158.4	157.9	157.9
5°	161.3	160.7	160.1	160.1	160.1	159.6	159.6	159.6	159.0	159.0
7.5°	161.3	161.3	161.3	160.7	160.7	160.7	160.7	160.7	160.1	160.1
10°	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.3	161.3	161.3
12.5°	161.8	161.8	161.8	162.4	162.4	162.4	162.4	162.4	162.4	162.4
15°	162.4	162.4	163.0	163.0	163.5	163.5	164.1	164.1	164.1	163.5
17.5°	161.8	162.4	163.0	163.5	164.1	164.1	164.7	164.7	164.7	164.7
20°	161.8	163.0	163.5	164.1	164.7	164.7	165.2	165.8	165.8	165.2
22.5°	161.3	162.4	163.0	164.1	164.7	164.7	165.8	165.8	165.8	165.8
25°	160.7	161.8	163.0	164.1	164.7	164.7	165.8	165.8	166.4	166.4
27.5°	159.6	160.7	162.4	163.5	164.1	164.7	165.2	165.8	165.8	165.8
30°	157.9	159.6	161.3	162.4	163.0	163.5	164.1	164.7	165.2	165.2
32.5°	155.6	157.3	159.0	160.7	161.3	161.8	163.0	163.5	163.5	163.5
35°	153.3	155.0	156.7	158.4	159.0	159.6	160.7	161.3	161.8	161.8
37.5°	149.9	151.6	153.3	155.0	155.6	156.7	157.9	158.4	158.4	158.4
40°	144.8	147.6	149.9	151.6	152.2	153.3	153.9	155.0	155.0	155.0
42.5°	140.3	142.5	144.2	146.5	147.1	148.8	149.9	150.5	151.0	151.0
45°	135.1	137.4	139.1	140.8	141.4	142.5	143.7	144.2	144.8	145.4
47.5°	130.0	131.7	133.4	135.1	135.7	136.8	138.0	138.5	139.1	139.1
50°	123.8	125.5	127.2	128.9	129.5	130.6	131.2	131.7	132.3	132.3
52.5°	117.0	118.7	120.4	122.1	122.6	123.2	124.4	124.9	125.5	125.5
55°	110.2	111.9	113.0	114.7	115.3	115.8	116.4	117.5	118.1	117.5
57.5°	102.2	103.9	105.0	106.8	107.3	107.9	108.5	109.0	109.6	109.6
60°	93.7	95.4	97.1	98.2	98.8	99.4	99.9	100.5	101.1	101.1
62.5°	85.2	86.9	88.0	89.7	90.3	90.3	90.9	91.4	92.0	92.0
65°	76.7	78.4	78.9	80.6	80.6	81.2	81.8	82.3	82.3	82.3
67.5°	67.6	69.3	69.8	71.0	71.0	71.5	72.1	72.7	72.7	72.7
70°	59.1	59.6	60.8	61.3	61.9	61.9	62.5	63.0	63.6	63.0
72.5°	50.0	50.5	51.7	52.2	52.2	52.8	52.8	53.4	53.9	53.9
75°	40.9	42.0	42.6	43.2	43.7	43.7	44.3	44.9	44.9	44.9
77.5°	32.4	33.5	34.1	34.6	35.2	35.2	35.8	35.8	36.3	35.8
80°	25.0	25.6	26.1	26.7	27.3	27.3	27.8	28.4	28.4	28.4
82.5°	18.2	18.7	19.9	20.4	20.4	20.4	21.6	21.6	22.1	21.6
85°	12.5	13.1	14.2	14.8	15.3	15.3	15.3	15.9	16.5	15.9
87.5°	7.9	9.1	9.7	10.2	10.2	10.2	10.8	11.4	11.4	11.4
90°	4.5	4.5	5.1	5.7	5.7	6.2	6.2	6.8	6.8	6.8
92.5°	4.5	5.1	5.1	5.1	5.7	5.7	5.7	6.2	6.2	6.2
95°	38.6	27.8	15.9	12.5	10.8	10.8	10.2	10.8	10.2	10.2
97.5°	117.0	126.6	131.2	137.4	140.8	140.3	138.0	140.3	138.5	140.3
100°	166.4	175.5	182.3	184.0	187.4	189.1	195.3	199.9	202.1	205.0
102.5°	206.7	217.5	225.4	230.0	233.4	235.6	243.0	249.8	253.2	255.5
105°	243.6	255.0	264.6	269.1	273.1	275.4	283.3	291.3	296.4	299.2
107.5°	273.1	286.2	296.4	303.2	307.2	311.2	320.8	328.8	335.0	337.9
110°	299.8	312.9	323.7	331.6	336.1	340.1	350.9	360.0	366.8	370.2



TEST NUMBER: P395336

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	322.0	336.1	346.9	355.5	360.0	365.7	375.9	386.1	392.9	396.9
115°	340.1	354.9	366.2	375.3	380.4	385.6	397.5	407.7	414.5	417.3
117.5°	355.5	370.2	382.1	391.2	396.9	402.6	414.5	423.6	431.0	433.2
120°	367.9	382.7	394.6	404.9	410.5	415.6	427.0	436.7	443.5	445.2
122.5°	376.5	391.8	404.3	415.6	420.8	425.9	436.7	446.3	452.6	454.3
125°	382.7	398.6	411.1	423.0	428.1	433.2	443.5	453.1	458.2	460.5
127.5°	386.7	402.6	416.2	427.6	433.2	437.8	448.0	456.5	461.6	463.3
130°	387.8	404.3	417.9	429.8	435.0	439.5	449.1	457.7	462.2	463.3
132.5°	387.8	403.7	417.9	429.3	434.4	438.9	448.0	456.0	460.5	461.6
135°	385.6	400.9	415.1	426.4	431.5	436.1	445.2	452.0	456.5	457.1
137.5°	381.6	396.3	410.0	421.3	426.4	431.0	438.9	446.3	450.3	451.4
140°	376.5	390.1	403.7	414.5	419.6	423.6	431.5	437.8	441.8	442.9
142.5°	369.7	383.3	395.8	406.6	410.5	415.1	421.9	428.1	431.5	432.7
145°	362.3	375.3	386.7	396.3	400.9	404.9	411.1	416.8	420.2	421.3
147.5°	352.6	365.7	376.5	385.6	389.5	393.5	399.2	404.3	407.7	408.8
150°	340.7	352.6	364.0	372.5	376.5	380.4	386.1	390.7	394.1	394.6
152.5°	328.8	340.1	349.8	358.3	362.3	366.2	371.4	375.9	379.9	379.9
155°	317.4	327.1	336.1	343.5	346.9	350.3	355.5	359.4	362.8	362.8
157.5°	305.5	314.6	322.0	328.8	331.6	334.4	339.0	342.4	345.2	344.7
160°	294.1	300.9	307.8	313.4	316.3	318.5	322.0	324.8	327.6	327.1
162.5°	281.6	287.9	293.6	297.5	299.8	301.5	304.9	307.8	309.5	309.5
165°	267.4	273.1	278.2	282.2	284.5	285.6	288.5	290.2	291.9	291.9
167.5°	252.7	257.2	261.8	265.2	267.4	268.6	271.4	272.6	274.8	274.3
170°	237.9	241.3	244.7	247.6	248.7	249.8	252.1	253.2	254.4	254.4
172.5°	226.0	227.1	228.8	231.1	231.1	231.7	232.8	233.4	233.9	233.9
175°	219.2	219.7	219.7	219.7	219.7	219.7	220.3	219.7	220.3	219.7
177.5°	216.3	216.3	215.8	215.8	215.2	215.8	215.2	214.6	214.6	214.1
180°	215.2	215.2	215.2	215.2	215.2	215.2	215.2	215.2	215.2	215.2

(END OF REPORT)