

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: P395335

Luminaire Tested: **I3-CL-20L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395335
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 (3000K)
Description: CORELITE I3, CLEAR TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.8 lumens
Efficiency: N/A
Efficacy: 126.6 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

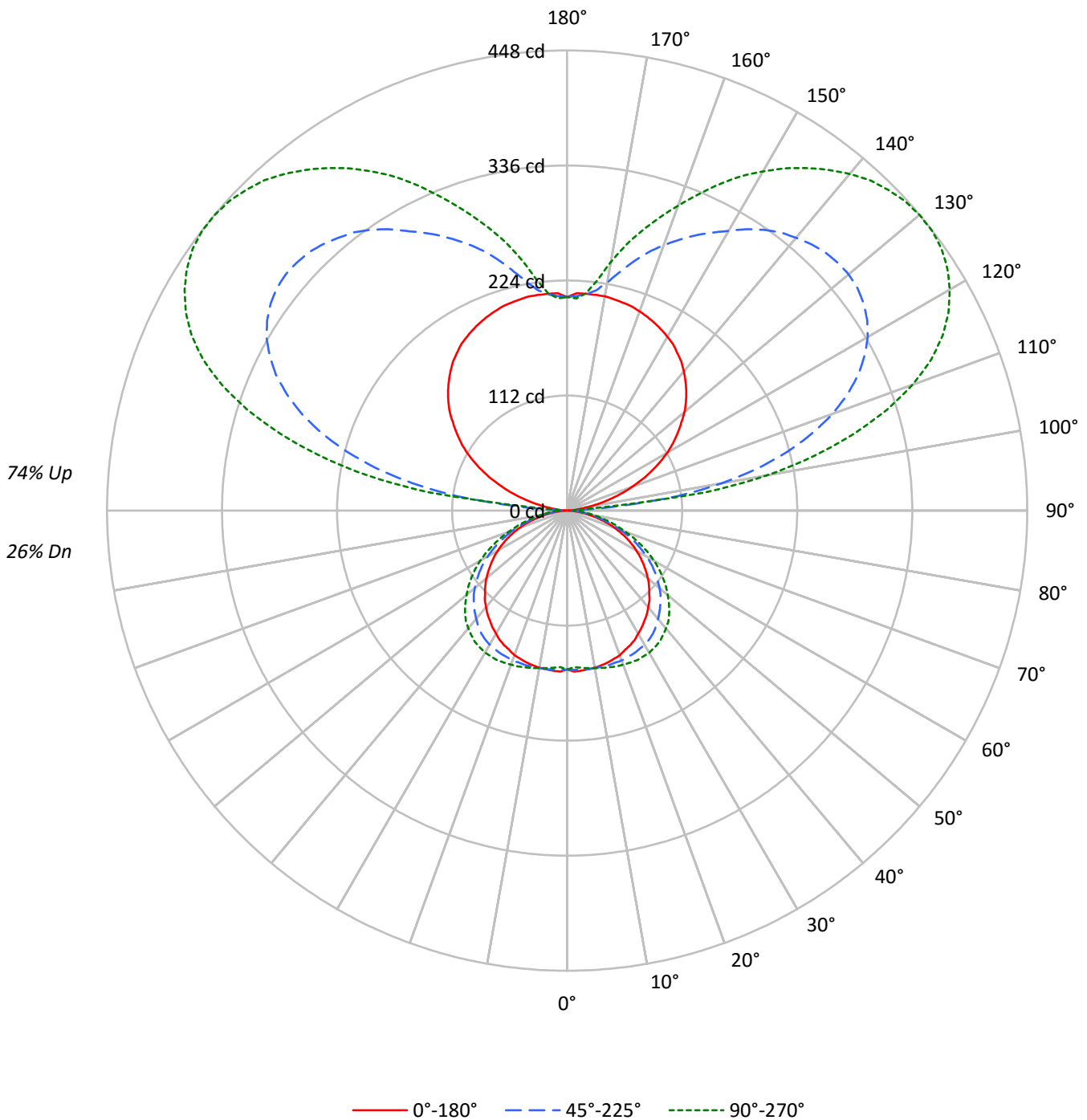
Input Watts (W): 16.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	850	850	850
5°	860	837	823
10°	860	831	821
15°	861	828	825
20°	863	828	833
25°	861	829	844
30°	857	830	850
35°	854	825	851
40°	851	808	840
45°	843	788	819
50°	835	762	782
55°	818	724	738
60°	798	673	681
65°	765	605	604
70°	711	515	511
75°	614	409	410
80°	477	290	300
85°	280	180	202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	0.7
10°-20°	44.0	2.2
20°-30°	70.5	3.5
30°-40°	90.2	4.4
40°-50°	98.3	4.8
50°-60°	92.1	4.5
60°-70°	71.5	3.5
70°-80°	41.0	2.0
80°-90°	13.1	0.6
90°-100°	52.6	2.6
100°-110°	204.4	10.0
110°-120°	278.3	13.6
120°-130°	288.9	14.2
130°-140°	256.3	12.6
140°-150°	198.8	9.8
150°-160°	132.7	6.5
160°-170°	70.7	3.5
170°-180°	20.7	1.0
0°-30°	129.3	6.3
0°-40°	219.5	10.8
0°-60°	409.9	20.1
0°-90°	535.5	26.3
90°-120°	535.3	26.3
90°-150°	1279.2	62.7
90°-180°	1503.0	73.7
0°-180°	2038.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	155	155	155	155	155	
5°	156	155	155	155	154	15
15°	153	152	156	158	158	43
25°	145	146	154	159	161	67
35°	131	134	146	154	156	82
45°	113	118	128	137	140	87
55°	90	96	104	111	114	81
65°	64	67	73	78	80	63
75°	34	35	38	42	43	36
85°	7	8	12	15	15	8
90°	0	2	4	6	7	1
95°	7	37	51	10	10	9
105°	43	131	222	264	289	46
115°	90	202	313	368	403	89
125°	131	239	352	414	445	117
135°	164	251	356	417	442	126
145°	187	251	334	387	407	117
155°	201	238	296	335	351	93
165°	210	218	251	275	282	59
175°	212	211	211	212	212	20
180°	208	208	208	208	208	



TEST NUMBER: P395335

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7
2.5°	156.9	156.4	156.4	155.3	155.3	154.7	154.7	154.7	154.7	154.7	155.3
5°	156.4	156.4	155.8	155.3	155.3	154.7	154.7	154.7	154.7	154.7	155.3
7.5°	155.8	155.8	155.3	154.7	154.7	154.7	154.7	154.7	154.7	154.7	155.8
10°	155.3	155.3	154.7	154.2	154.2	154.2	154.2	154.7	154.7	154.7	155.8
12.5°	154.2	153.6	153.6	153.1	153.1	153.1	153.6	153.6	154.2	154.7	155.8
15°	153.1	153.1	152.5	152.0	152.5	152.5	152.5	153.1	153.6	154.2	155.8
17.5°	151.4	151.4	150.9	150.9	150.9	151.4	151.4	152.0	153.1	154.2	155.3
20°	149.8	149.2	149.2	149.2	149.8	149.8	150.3	151.4	152.0	153.6	155.3
22.5°	147.0	147.6	147.0	147.0	147.6	148.1	148.7	149.8	150.9	152.5	154.2
25°	144.8	144.8	144.8	144.8	145.9	145.9	147.0	148.1	149.8	151.4	153.6
27.5°	142.1	142.1	142.1	142.6	143.2	143.7	144.3	145.9	147.6	149.8	152.0
30°	138.3	138.3	138.3	138.3	139.9	140.5	141.5	143.7	145.4	148.1	150.9
32.5°	135.0	135.0	135.0	135.5	136.6	137.2	138.3	141.0	143.2	145.9	148.7
35°	131.1	131.1	131.7	131.7	133.3	133.9	135.0	137.2	139.4	142.6	145.9
37.5°	127.3	127.3	127.8	128.4	129.5	130.6	131.7	133.9	136.1	138.8	142.1
40°	122.9	122.9	123.4	124.0	125.6	126.7	127.8	130.0	132.2	135.0	137.7
42.5°	118.5	118.5	119.1	119.6	121.2	122.3	123.4	126.2	128.4	131.1	133.3
45°	113.0	113.6	114.1	115.2	116.9	118.0	119.1	121.2	124.0	126.2	128.4
47.5°	108.1	108.6	109.2	110.3	111.9	113.0	114.1	116.3	118.5	120.7	123.4
50°	102.6	103.1	103.7	104.8	106.4	107.5	108.6	110.8	113.0	114.7	117.4
52.5°	96.6	97.1	97.7	98.8	101.0	101.5	102.6	104.8	106.4	108.6	110.8
55°	90.5	91.1	91.6	92.7	94.4	95.5	96.0	98.2	99.9	102.0	104.2
57.5°	84.5	85.0	85.6	86.7	87.8	88.9	89.4	91.1	93.3	94.9	97.1
60°	77.9	78.5	79.0	79.6	81.2	81.7	82.3	83.9	85.6	87.8	89.4
62.5°	71.3	71.3	71.9	72.4	74.1	74.6	75.2	76.3	78.5	79.6	81.2
65°	64.2	64.2	64.7	65.3	66.4	66.9	67.5	68.6	70.2	71.3	73.0
67.5°	56.5	56.5	57.1	57.6	58.7	59.3	59.3	60.9	62.0	63.1	64.2
70°	49.4	49.4	49.9	49.9	50.5	51.0	51.6	52.7	53.2	54.9	55.4
72.5°	41.7	41.7	41.7	41.7	42.8	42.8	43.3	44.4	45.0	46.1	47.2
75°	33.5	33.5	34.0	34.0	34.6	35.1	35.7	36.2	37.3	37.9	38.4
77.5°	26.3	25.8	26.3	26.9	27.4	27.4	28.0	28.5	29.1	30.2	30.7
80°	18.7	18.7	18.7	19.2	19.8	19.8	20.3	20.8	21.4	22.5	23.0
82.5°	12.1	12.1	12.6	12.6	13.2	13.7	13.7	14.3	14.8	15.9	16.5
85°	6.6	6.6	6.6	7.1	7.7	7.7	8.2	8.8	9.9	10.4	11.5
87.5°	2.2	2.2	2.7	3.3	3.8	3.8	4.4	4.9	5.5	6.6	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	8.8	8.2	8.8	6.0	3.8	3.8	3.8	4.4
95°	6.6	9.9	15.9	25.2	32.9	37.3	41.1	45.0	52.7	53.2	51.0
97.5°	13.2	18.1	29.1	41.1	54.9	62.0	67.5	79.0	91.1	98.8	108.1
100°	21.9	29.1	43.3	59.8	75.7	85.0	93.8	110.3	125.1	138.3	152.5
102.5°	32.4	40.6	58.2	78.5	98.2	108.6	118.0	137.2	157.5	175.0	190.4
105°	43.3	52.7	73.5	96.6	119.1	131.1	142.6	163.5	184.9	204.1	222.2
107.5°	55.4	65.3	87.8	113.6	138.8	152.5	165.1	187.6	210.1	231.0	250.2
110°	66.9	77.9	101.5	129.5	158.0	171.7	184.3	209.0	232.6	254.6	274.9



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CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	79.0	90.5	114.1	144.8	173.9	188.2	201.4	227.7	252.4	274.9	295.2
115°	90.5	101.5	126.2	158.0	187.6	202.4	216.7	243.6	269.4	291.9	312.7
117.5°	101.5	111.9	137.2	169.0	199.7	214.5	228.8	256.8	282.6	306.1	326.4
120°	112.5	121.8	149.2	178.3	209.6	224.4	239.2	267.2	293.5	317.1	338.0
122.5°	122.3	131.1	158.0	186.5	217.3	232.6	246.9	275.4	302.3	325.9	346.2
125°	131.1	139.4	166.2	193.1	223.8	238.7	253.5	281.5	308.3	331.4	352.2
127.5°	139.9	148.1	172.3	199.7	228.2	243.6	257.9	285.8	312.2	335.8	356.1
130°	149.2	155.3	178.3	205.7	232.6	246.9	261.7	288.6	314.4	337.4	357.7
132.5°	156.9	162.4	184.3	210.7	235.9	249.6	262.8	289.7	315.5	337.4	357.2
135°	164.0	168.4	188.7	215.1	238.7	251.3	263.9	289.1	314.4	336.3	355.5
137.5°	170.6	175.0	192.6	218.4	240.9	251.8	263.9	287.5	311.6	333.6	351.7
140°	176.7	180.0	195.9	220.0	242.0	252.4	262.8	284.7	307.2	328.6	346.7
142.5°	182.7	185.4	198.6	221.1	242.5	252.4	262.3	281.5	302.3	323.1	341.3
145°	187.1	189.8	200.8	221.7	242.0	251.3	260.1	278.2	296.8	316.0	333.6
147.5°	192.0	194.2	203.0	220.6	240.3	249.1	257.3	273.8	290.8	308.3	324.8
150°	195.3	197.5	204.1	219.5	237.6	245.8	254.0	269.4	284.7	300.1	314.4
152.5°	198.6	200.3	205.7	217.8	234.3	242.0	249.6	264.4	278.7	292.4	305.0
155°	201.4	203.0	206.8	216.7	230.4	237.6	244.7	259.0	272.1	284.2	295.7
157.5°	204.1	205.2	207.9	215.1	226.0	232.6	239.2	251.8	263.9	276.0	285.3
160°	206.3	206.8	209.0	214.5	222.2	227.1	233.2	244.7	255.7	266.1	274.9
162.5°	208.5	208.5	210.1	213.4	218.9	222.2	226.6	236.5	246.3	255.7	263.9
165°	209.6	209.6	210.7	212.9	216.2	218.4	221.1	227.7	235.4	243.6	251.3
167.5°	210.7	210.7	211.2	212.3	214.5	215.6	216.7	221.1	226.0	232.1	238.1
170°	211.8	211.2	211.2	212.3	212.9	213.4	214.0	216.2	218.4	222.2	225.5
172.5°	211.8	211.2	211.2	211.8	211.8	211.8	211.8	212.3	212.9	215.1	216.2
175°	211.8	211.2	211.2	211.2	211.2	210.7	210.7	210.7	210.7	210.7	211.2
177.5°	211.8	211.2	210.7	210.7	210.1	210.1	209.6	209.6	209.0	209.0	209.0
180°	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7	154.7
2.5°	155.3	155.3	154.7	154.7	154.2	154.2	153.6	153.1	152.5	152.5
5°	155.8	155.3	154.7	154.7	154.7	154.2	154.2	154.2	153.6	153.6
7.5°	155.8	155.8	155.8	155.3	155.3	155.3	155.3	155.3	154.7	154.7
10°	156.4	156.4	156.4	156.4	156.4	156.4	156.4	155.8	155.8	155.8
12.5°	156.4	156.4	156.4	156.9	156.9	156.9	156.9	156.9	156.9	156.9
15°	156.9	156.9	157.5	157.5	158.0	158.0	158.6	158.6	158.6	158.0
17.5°	156.4	156.9	157.5	158.0	158.6	158.6	159.1	159.1	159.1	159.1
20°	156.4	157.5	158.0	158.6	159.1	159.1	159.7	160.2	160.2	159.7
22.5°	155.8	156.9	157.5	158.6	159.1	159.1	160.2	160.2	160.2	160.2
25°	155.3	156.4	157.5	158.6	159.1	159.1	160.2	160.2	160.8	160.8
27.5°	154.2	155.3	156.9	158.0	158.6	159.1	159.7	160.2	160.2	160.2
30°	152.5	154.2	155.8	156.9	157.5	158.0	158.6	159.1	159.7	159.7
32.5°	150.3	152.0	153.6	155.3	155.8	156.4	157.5	158.0	158.0	158.0
35°	148.1	149.8	151.4	153.1	153.6	154.2	155.3	155.8	156.4	156.4
37.5°	144.8	146.5	148.1	149.8	150.3	151.4	152.5	153.1	153.1	153.1
40°	139.9	142.6	144.8	146.5	147.0	148.1	148.7	149.8	149.8	149.8
42.5°	135.5	137.7	139.4	141.5	142.1	143.7	144.8	145.4	145.9	145.9
45°	130.6	132.8	134.4	136.1	136.6	137.7	138.8	139.4	139.9	140.5
47.5°	125.6	127.3	128.9	130.6	131.1	132.2	133.3	133.9	134.4	134.4
50°	119.6	121.2	122.9	124.5	125.1	126.2	126.7	127.3	127.8	127.8
52.5°	113.0	114.7	116.3	118.0	118.5	119.1	120.2	120.7	121.2	121.2
55°	106.4	108.1	109.2	110.8	111.4	111.9	112.5	113.6	114.1	113.6
57.5°	98.8	100.4	101.5	103.1	103.7	104.2	104.8	105.3	105.9	105.9
60°	90.5	92.2	93.8	94.9	95.5	96.0	96.6	97.1	97.7	97.7
62.5°	82.3	83.9	85.0	86.7	87.2	87.2	87.8	88.3	88.9	88.9
65°	74.1	75.7	76.3	77.9	77.9	78.5	79.0	79.6	79.6	79.6
67.5°	65.3	66.9	67.5	68.6	68.6	69.1	69.7	70.2	70.2	70.2
70°	57.1	57.6	58.7	59.3	59.8	59.8	60.4	60.9	61.4	60.9
72.5°	48.3	48.8	49.9	50.5	50.5	51.0	51.0	51.6	52.1	52.1
75°	39.5	40.6	41.1	41.7	42.2	42.2	42.8	43.3	43.3	43.3
77.5°	31.3	32.4	32.9	33.5	34.0	34.0	34.6	34.6	35.1	34.6
80°	24.1	24.7	25.2	25.8	26.3	26.3	26.9	27.4	27.4	27.4
82.5°	17.6	18.1	19.2	19.8	19.8	19.8	20.8	20.8	21.4	20.8
85°	12.1	12.6	13.7	14.3	14.8	14.8	14.8	15.4	15.9	15.4
87.5°	7.7	8.8	9.3	9.9	9.9	9.9	10.4	11.0	11.0	11.0
90°	4.4	4.4	4.9	5.5	5.5	6.0	6.0	6.6	6.6	6.6
92.5°	4.4	4.9	4.9	4.9	5.5	5.5	5.5	6.0	6.0	6.0
95°	37.3	26.9	15.4	12.1	10.4	10.4	9.9	10.4	9.9	9.9
97.5°	113.0	122.3	126.7	132.8	136.1	135.5	133.3	135.5	133.9	135.5
100°	160.8	169.5	176.1	177.8	181.1	182.7	188.7	193.1	195.3	198.1
102.5°	199.7	210.1	217.8	222.2	225.5	227.7	234.8	241.4	244.7	246.9
105°	235.4	246.3	255.7	260.1	263.9	266.1	273.8	281.5	286.4	289.1
107.5°	263.9	276.5	286.4	293.0	296.8	300.7	310.0	317.7	323.7	326.4
110°	289.7	302.3	312.7	320.4	324.8	328.6	339.1	347.8	354.4	357.7



TEST NUMBER: P395335

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	311.1	324.8	335.2	343.4	347.8	353.3	363.2	373.1	379.7	383.5
115°	328.6	342.9	353.9	362.7	367.6	372.5	384.0	393.9	400.5	403.3
117.5°	343.4	357.7	369.2	378.0	383.5	389.0	400.5	409.3	416.4	418.6
120°	355.5	369.8	381.3	391.2	396.7	401.6	412.6	421.9	428.5	430.1
122.5°	363.7	378.6	390.6	401.6	406.5	411.5	421.9	431.2	437.3	438.9
125°	369.8	385.1	397.2	408.7	413.7	418.6	428.5	437.8	442.8	444.9
127.5°	373.6	389.0	402.2	413.1	418.6	423.0	432.9	441.1	446.0	447.7
130°	374.7	390.6	403.8	415.3	420.3	424.6	434.0	442.2	446.6	447.7
132.5°	374.7	390.1	403.8	414.8	419.7	424.1	432.9	440.6	444.9	446.0
135°	372.5	387.3	401.1	412.0	417.0	421.4	430.1	436.7	441.1	441.7
137.5°	368.7	383.0	396.1	407.1	412.0	416.4	424.1	431.2	435.1	436.2
140°	363.7	376.9	390.1	400.5	405.4	409.3	417.0	423.0	426.8	427.9
142.5°	357.2	370.3	382.4	392.8	396.7	401.1	407.6	413.7	417.0	418.1
145°	350.0	362.7	373.6	383.0	387.3	391.2	397.2	402.7	406.0	407.1
147.5°	340.7	353.3	363.7	372.5	376.4	380.2	385.7	390.6	393.9	395.0
150°	329.2	340.7	351.7	359.9	363.7	367.6	373.1	377.5	380.8	381.3
152.5°	317.7	328.6	338.0	346.2	350.0	353.9	358.8	363.2	367.0	367.0
155°	306.7	316.0	324.8	331.9	335.2	338.5	343.4	347.3	350.6	350.6
157.5°	295.2	303.9	311.1	317.7	320.4	323.1	327.5	330.8	333.6	333.0
160°	284.2	290.8	297.4	302.9	305.6	307.8	311.1	313.8	316.6	316.0
162.5°	272.1	278.2	283.6	287.5	289.7	291.3	294.6	297.4	299.0	299.0
165°	258.4	263.9	268.8	272.7	274.9	276.0	278.7	280.4	282.0	282.0
167.5°	244.1	248.5	252.9	256.2	258.4	259.5	262.3	263.3	265.5	265.0
170°	229.9	233.2	236.5	239.2	240.3	241.4	243.6	244.7	245.8	245.8
172.5°	218.4	219.5	221.1	223.3	223.3	223.8	224.9	225.5	226.0	226.0
175°	211.8	212.3	212.3	212.3	212.3	212.3	212.9	212.3	212.9	212.3
177.5°	209.0	209.0	208.5	208.5	207.9	208.5	207.9	207.4	207.4	206.8
180°	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9	207.9

(END OF REPORT)