

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: P395340

Luminaire Tested: **I3-CL-20L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395340  
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 (5700K)  
Description: CORELITE I3, CLEAR TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2252.7 lumens  
Efficiency: N/A  
Efficacy: 134.9 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

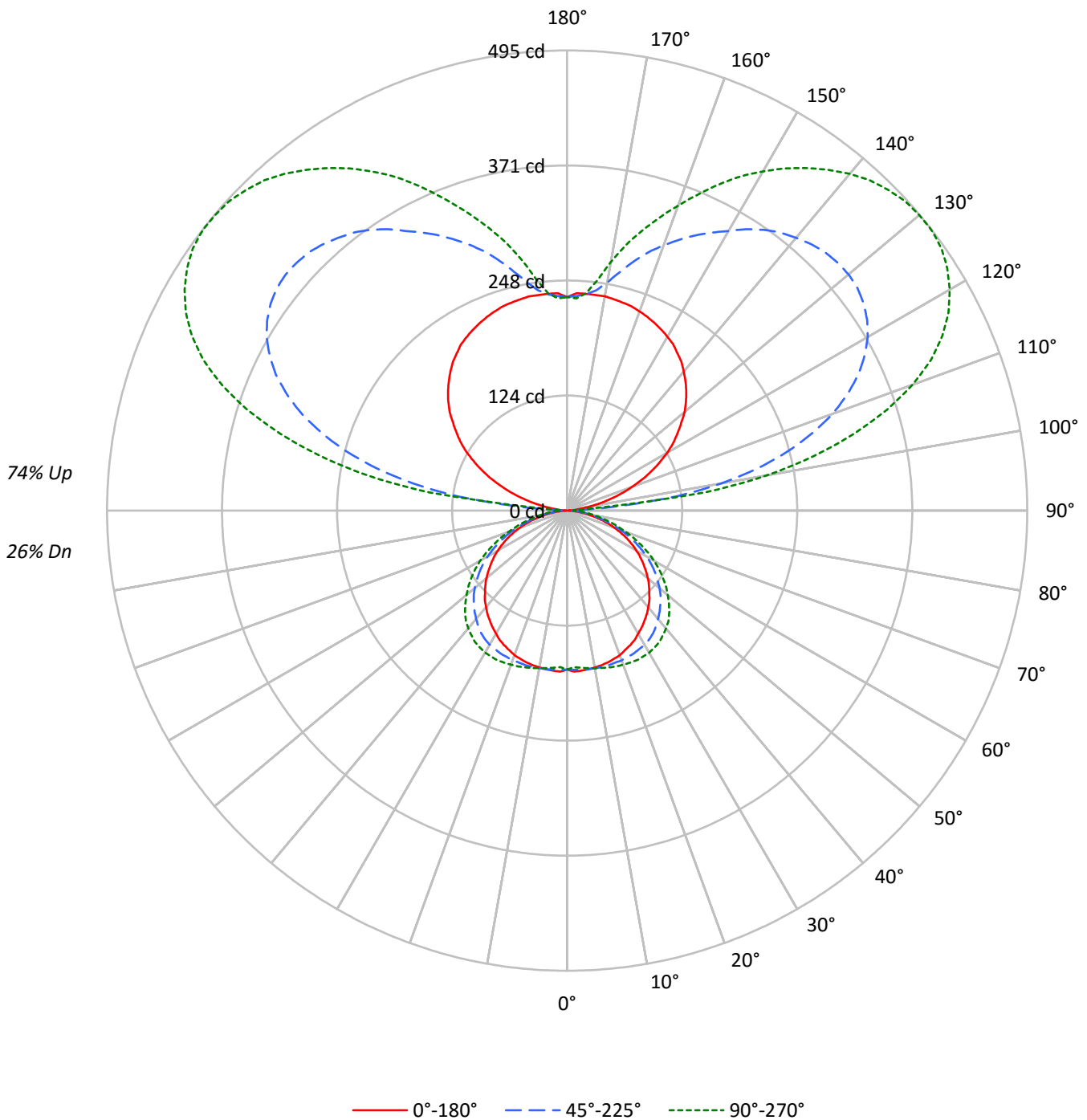
Input Watts (W): 16.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	939	939	939
5°	950	925	910
10°	950	918	908
15°	951	915	912
20°	953	915	920
25°	951	916	932
30°	947	917	939
35°	944	912	940
40°	941	893	928
45°	931	871	905
50°	923	842	864
55°	903	800	815
60°	882	744	752
65°	845	668	667
70°	786	568	565
75°	678	452	453
80°	525	322	332
85°	310	198	223



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.4	0.7
10°-20°	48.6	2.2
20°-30°	77.9	3.5
30°-40°	99.6	4.4
40°-50°	108.6	4.8
50°-60°	101.8	4.5
60°-70°	79.0	3.5
70°-80°	45.3	2.0
80°-90°	14.5	0.6
90°-100°	58.1	2.6
100°-110°	225.9	10.0
110°-120°	307.5	13.6
120°-130°	319.2	14.2
130°-140°	283.1	12.6
140°-150°	219.7	9.8
150°-160°	146.6	6.5
160°-170°	78.1	3.5
170°-180°	22.9	1.0
0°-30°	142.9	6.3
0°-40°	242.5	10.8
0°-60°	452.9	20.1
0°-90°	591.6	26.3
90°-120°	591.4	26.3
90°-150°	1413.4	62.7
90°-180°	1661.0	73.7
0°-180°	2252.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	171	171	171	171	171	
5°	173	171	172	171	170	16
15°	169	168	172	175	175	48
25°	160	161	170	176	178	74
35°	145	148	161	170	173	91
45°	125	130	142	151	155	97
55°	100	106	115	123	126	89
65°	71	74	81	86	88	70
75°	37	39	42	47	48	39
85°	7	8	13	16	17	9
90°	1	2	4	6	7	1
95°	7	41	56	12	11	10
105°	48	145	246	292	320	51
115°	100	224	346	406	446	99
125°	145	264	389	457	492	130
135°	181	278	393	461	488	140
145°	207	278	369	428	450	130
155°	222	262	327	370	387	103
165°	232	241	278	304	312	66
175°	234	233	233	235	235	22
180°	230	230	230	230	230	



TEST NUMBER: P395340

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9
2.5°	173.4	172.8	172.8	171.5	171.5	170.9	170.9	170.9	170.9	170.9	171.5
5°	172.8	172.8	172.2	171.5	171.5	170.9	170.9	170.9	170.9	170.9	171.5
7.5°	172.2	172.2	171.5	170.9	170.9	170.9	170.9	170.9	170.9	170.9	172.2
10°	171.5	171.5	170.9	170.3	170.3	170.3	170.3	170.9	170.9	170.9	172.2
12.5°	170.3	169.7	169.7	169.1	169.1	169.1	169.7	169.7	170.3	170.9	172.2
15°	169.1	169.1	168.5	167.9	168.5	168.5	168.5	169.1	169.7	170.3	172.2
17.5°	167.3	167.3	166.7	166.7	166.7	167.3	167.3	167.9	169.1	170.3	171.5
20°	165.5	164.9	164.9	164.9	165.5	165.5	166.1	167.3	167.9	169.7	171.5
22.5°	162.5	163.1	162.5	162.5	163.1	163.7	164.3	165.5	166.7	168.5	170.3
25°	160.0	160.0	160.0	160.0	161.2	161.2	162.5	163.7	165.5	167.3	169.7
27.5°	157.0	157.0	157.0	157.6	158.2	158.8	159.4	161.2	163.1	165.5	167.9
30°	152.8	152.8	152.8	152.8	154.6	155.2	156.4	158.8	160.6	163.7	166.7
32.5°	149.1	149.1	149.1	149.7	150.9	151.5	152.8	155.8	158.2	161.2	164.3
35°	144.9	144.9	145.5	145.5	147.3	147.9	149.1	151.5	154.0	157.6	161.2
37.5°	140.6	140.6	141.2	141.8	143.1	144.3	145.5	147.9	150.3	153.4	157.0
40°	135.8	135.8	136.4	137.0	138.8	140.0	141.2	143.7	146.1	149.1	152.2
42.5°	130.9	130.9	131.5	132.1	134.0	135.2	136.4	139.4	141.8	144.9	147.3
45°	124.9	125.5	126.1	127.3	129.1	130.3	131.5	134.0	137.0	139.4	141.8
47.5°	119.4	120.0	120.6	121.8	123.7	124.9	126.1	128.5	130.9	133.4	136.4
50°	113.4	114.0	114.6	115.8	117.6	118.8	120.0	122.4	124.9	126.7	129.7
52.5°	106.7	107.3	107.9	109.1	111.5	112.1	113.4	115.8	117.6	120.0	122.4
55°	100.0	100.6	101.2	102.4	104.3	105.5	106.1	108.5	110.3	112.7	115.2
57.5°	93.4	94.0	94.6	95.8	97.0	98.2	98.8	100.6	103.1	104.9	107.3
60°	86.1	86.7	87.3	87.9	89.7	90.3	90.9	92.7	94.6	97.0	98.8
62.5°	78.8	78.8	79.4	80.0	81.8	82.4	83.0	84.3	86.7	87.9	89.7
65°	70.9	70.9	71.5	72.1	73.3	74.0	74.6	75.8	77.6	78.8	80.6
67.5°	62.4	62.4	63.0	63.6	64.9	65.5	65.5	67.3	68.5	69.7	70.9
70°	54.6	54.6	55.2	55.2	55.8	56.4	57.0	58.2	58.8	60.6	61.2
72.5°	46.1	46.1	46.1	46.1	47.3	47.3	47.9	49.1	49.7	50.9	52.1
75°	37.0	37.0	37.6	37.6	38.2	38.8	39.4	40.0	41.2	41.8	42.4
77.5°	29.1	28.5	29.1	29.7	30.3	30.3	30.9	31.5	32.1	33.3	33.9
80°	20.6	20.6	20.6	21.2	21.8	21.8	22.4	23.0	23.6	24.9	25.5
82.5°	13.3	13.3	13.9	13.9	14.5	15.2	15.2	15.8	16.4	17.6	18.2
85°	7.3	7.3	7.3	7.9	8.5	8.5	9.1	9.7	10.9	11.5	12.7
87.5°	2.4	2.4	3.0	3.6	4.2	4.2	4.8	5.5	6.1	7.3	7.9
90°	0.6	0.6	0.6	1.2	1.2	1.8	1.8	2.4	3.0	3.6	4.2
92.5°	2.4	4.2	6.7	9.7	9.1	9.7	6.7	4.2	4.2	4.2	4.8
95°	7.3	10.9	17.6	27.9	36.4	41.2	45.5	49.7	58.2	58.8	56.4
97.5°	14.5	20.0	32.1	45.5	60.6	68.5	74.6	87.3	100.6	109.1	119.4
100°	24.2	32.1	47.9	66.1	83.7	94.0	103.7	121.8	138.2	152.8	168.5
102.5°	35.8	44.9	64.3	86.7	108.5	120.0	130.3	151.5	174.0	193.4	210.3
105°	47.9	58.2	81.2	106.7	131.5	144.9	157.6	180.6	204.3	225.5	245.5
107.5°	61.2	72.1	97.0	125.5	153.4	168.5	182.5	207.3	232.2	255.2	276.4
110°	74.0	86.1	112.1	143.1	174.6	189.7	203.7	231.0	257.0	281.3	303.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	87.3	100.0	126.1	160.0	192.2	207.9	222.5	251.6	278.8	303.7	326.1
115°	100.0	112.1	139.4	174.6	207.3	223.7	239.4	269.1	297.6	322.5	345.5
117.5°	112.1	123.7	151.5	186.7	220.6	237.0	252.8	283.7	312.2	338.2	360.7
120°	124.3	134.6	164.9	197.0	231.6	247.9	264.3	295.2	324.3	350.4	373.4
122.5°	135.2	144.9	174.6	206.1	240.0	257.0	272.8	304.3	334.0	360.1	382.5
125°	144.9	154.0	183.7	213.4	247.3	263.7	280.1	311.0	340.7	366.1	389.2
127.5°	154.6	163.7	190.3	220.6	252.2	269.1	284.9	315.8	344.9	371.0	393.4
130°	164.9	171.5	197.0	227.3	257.0	272.8	289.1	318.9	347.3	372.8	395.2
132.5°	173.4	179.4	203.7	232.8	260.7	275.8	290.4	320.1	348.6	372.8	394.6
135°	181.2	186.1	208.5	237.6	263.7	277.6	291.6	319.5	347.3	371.6	392.8
137.5°	188.5	193.4	212.8	241.3	266.1	278.2	291.6	317.6	344.3	368.6	388.6
140°	195.2	198.8	216.4	243.1	267.3	278.8	290.4	314.6	339.5	363.1	383.1
142.5°	201.9	204.9	219.4	244.3	267.9	278.8	289.8	311.0	334.0	357.0	377.0
145°	206.7	209.7	221.9	244.9	267.3	277.6	287.3	307.3	327.9	349.2	368.6
147.5°	212.2	214.6	224.3	243.7	265.5	275.2	284.3	302.5	321.3	340.7	358.9
150°	215.8	218.2	225.5	242.5	262.5	271.6	280.7	297.6	314.6	331.6	347.3
152.5°	219.4	221.3	227.3	240.7	258.8	267.3	275.8	292.2	307.9	323.1	337.0
155°	222.5	224.3	228.5	239.4	254.6	262.5	270.4	286.1	300.7	314.0	326.7
157.5°	225.5	226.7	229.7	237.6	249.7	257.0	264.3	278.2	291.6	304.9	315.2
160°	227.9	228.5	231.0	237.0	245.5	251.0	257.6	270.4	282.5	294.0	303.7
162.5°	230.3	230.3	232.2	235.8	241.9	245.5	250.4	261.3	272.2	282.5	291.6
165°	231.6	231.6	232.8	235.2	238.8	241.3	244.3	251.6	260.1	269.1	277.6
167.5°	232.8	232.8	233.4	234.6	237.0	238.2	239.4	244.3	249.7	256.4	263.1
170°	234.0	233.4	233.4	234.6	235.2	235.8	236.4	238.8	241.3	245.5	249.1
172.5°	234.0	233.4	233.4	234.0	234.0	234.0	234.0	234.6	235.2	237.6	238.8
175°	234.0	233.4	233.4	233.4	233.4	232.8	232.8	232.8	232.8	232.8	233.4
177.5°	234.0	233.4	232.8	232.8	232.2	232.2	231.6	231.6	231.0	231.0	231.0
180°	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9
2.5°	171.5	171.5	170.9	170.9	170.3	170.3	169.7	169.1	168.5	168.5
5°	172.2	171.5	170.9	170.9	170.9	170.3	170.3	170.3	169.7	169.7
7.5°	172.2	172.2	172.2	171.5	171.5	171.5	171.5	171.5	170.9	170.9
10°	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.2	172.2	172.2
12.5°	172.8	172.8	172.8	173.4	173.4	173.4	173.4	173.4	173.4	173.4
15°	173.4	173.4	174.0	174.0	174.6	174.6	175.2	175.2	175.2	174.6
17.5°	172.8	173.4	174.0	174.6	175.2	175.2	175.8	175.8	175.8	175.8
20°	172.8	174.0	174.6	175.2	175.8	175.8	176.4	177.0	177.0	176.4
22.5°	172.2	173.4	174.0	175.2	175.8	175.8	177.0	177.0	177.0	177.0
25°	171.5	172.8	174.0	175.2	175.8	175.8	177.0	177.0	177.6	177.6
27.5°	170.3	171.5	173.4	174.6	175.2	175.8	176.4	177.0	177.0	177.0
30°	168.5	170.3	172.2	173.4	174.0	174.6	175.2	175.8	176.4	176.4
32.5°	166.1	167.9	169.7	171.5	172.2	172.8	174.0	174.6	174.6	174.6
35°	163.7	165.5	167.3	169.1	169.7	170.3	171.5	172.2	172.8	172.8
37.5°	160.0	161.8	163.7	165.5	166.1	167.3	168.5	169.1	169.1	169.1
40°	154.6	157.6	160.0	161.8	162.5	163.7	164.3	165.5	165.5	165.5
42.5°	149.7	152.2	154.0	156.4	157.0	158.8	160.0	160.6	161.2	161.2
45°	144.3	146.7	148.5	150.3	150.9	152.2	153.4	154.0	154.6	155.2
47.5°	138.8	140.6	142.5	144.3	144.9	146.1	147.3	147.9	148.5	148.5
50°	132.1	134.0	135.8	137.6	138.2	139.4	140.0	140.6	141.2	141.2
52.5°	124.9	126.7	128.5	130.3	130.9	131.5	132.8	133.4	134.0	134.0
55°	117.6	119.4	120.6	122.4	123.1	123.7	124.3	125.5	126.1	125.5
57.5°	109.1	110.9	112.1	114.0	114.6	115.2	115.8	116.4	117.0	117.0
60°	100.0	101.8	103.7	104.9	105.5	106.1	106.7	107.3	107.9	107.9
62.5°	90.9	92.7	94.0	95.8	96.4	96.4	97.0	97.6	98.2	98.2
65°	81.8	83.7	84.3	86.1	86.1	86.7	87.3	87.9	87.9	87.9
67.5°	72.1	74.0	74.6	75.8	75.8	76.4	77.0	77.6	77.6	77.6
70°	63.0	63.6	64.9	65.5	66.1	66.1	66.7	67.3	67.9	67.3
72.5°	53.3	53.9	55.2	55.8	55.8	56.4	56.4	57.0	57.6	57.6
75°	43.6	44.9	45.5	46.1	46.7	46.7	47.3	47.9	47.9	47.9
77.5°	34.6	35.8	36.4	37.0	37.6	37.6	38.2	38.2	38.8	38.2
80°	26.7	27.3	27.9	28.5	29.1	29.1	29.7	30.3	30.3	30.3
82.5°	19.4	20.0	21.2	21.8	21.8	21.8	23.0	23.0	23.6	23.0
85°	13.3	13.9	15.2	15.8	16.4	16.4	16.4	17.0	17.6	17.0
87.5°	8.5	9.7	10.3	10.9	10.9	10.9	11.5	12.1	12.1	12.1
90°	4.8	4.8	5.5	6.1	6.1	6.7	6.7	7.3	7.3	7.3
92.5°	4.8	5.5	5.5	5.5	6.1	6.1	6.1	6.7	6.7	6.7
95°	41.2	29.7	17.0	13.3	11.5	11.5	10.9	11.5	10.9	10.9
97.5°	124.9	135.2	140.0	146.7	150.3	149.7	147.3	149.7	147.9	149.7
100°	177.6	187.3	194.6	196.4	200.0	201.9	208.5	213.4	215.8	218.8
102.5°	220.6	232.2	240.7	245.5	249.1	251.6	259.4	266.7	270.4	272.8
105°	260.1	272.2	282.5	287.3	291.6	294.0	302.5	311.0	316.4	319.5
107.5°	291.6	305.5	316.4	323.7	327.9	332.2	342.5	351.0	357.6	360.7
110°	320.1	334.0	345.5	354.0	358.9	363.1	374.6	384.3	391.6	395.2





TEST NUMBER: P395340

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	343.7	358.9	370.4	379.5	384.3	390.4	401.3	412.2	419.5	423.7
115°	363.1	378.9	391.0	400.7	406.1	411.6	424.3	435.2	442.5	445.5
117.5°	379.5	395.2	408.0	417.7	423.7	429.8	442.5	452.2	460.1	462.5
120°	392.8	408.6	421.3	432.2	438.3	443.7	455.8	466.2	473.4	475.2
122.5°	401.9	418.3	431.6	443.7	449.2	454.6	466.2	476.5	483.1	484.9
125°	408.6	425.5	438.9	451.6	457.1	462.5	473.4	483.7	489.2	491.6
127.5°	412.8	429.8	444.3	456.5	462.5	467.4	478.3	487.4	492.8	494.6
130°	414.0	431.6	446.1	458.9	464.3	469.2	479.5	488.6	493.4	494.6
132.5°	414.0	431.0	446.1	458.3	463.7	468.6	478.3	486.8	491.6	492.8
135°	411.6	428.0	443.1	455.2	460.7	465.5	475.2	482.5	487.4	488.0
137.5°	407.4	423.1	437.7	449.8	455.2	460.1	468.6	476.5	480.7	481.9
140°	401.9	416.4	431.0	442.5	448.0	452.2	460.7	467.4	471.6	472.8
142.5°	394.6	409.2	422.5	434.0	438.3	443.1	450.4	457.1	460.7	461.9
145°	386.7	400.7	412.8	423.1	428.0	432.2	438.9	444.9	448.6	449.8
147.5°	376.4	390.4	401.9	411.6	415.8	420.1	426.1	431.6	435.2	436.4
150°	363.7	376.4	388.6	397.7	401.9	406.1	412.2	417.1	420.7	421.3
152.5°	351.0	363.1	373.4	382.5	386.7	391.0	396.4	401.3	405.5	405.5
155°	338.9	349.2	358.9	366.7	370.4	374.0	379.5	383.7	387.3	387.3
157.5°	326.1	335.8	343.7	351.0	354.0	357.0	361.9	365.5	368.6	368.0
160°	314.0	321.3	328.5	334.6	337.6	340.1	343.7	346.7	349.8	349.2
162.5°	300.7	307.3	313.4	317.6	320.1	321.9	325.5	328.5	330.4	330.4
165°	285.5	291.6	297.0	301.3	303.7	304.9	307.9	309.8	311.6	311.6
167.5°	269.7	274.6	279.4	283.1	285.5	286.7	289.8	291.0	293.4	292.8
170°	254.0	257.6	261.3	264.3	265.5	266.7	269.1	270.4	271.6	271.6
172.5°	241.3	242.5	244.3	246.7	246.7	247.3	248.5	249.1	249.7	249.7
175°	234.0	234.6	234.6	234.6	234.6	234.6	235.2	234.6	235.2	234.6
177.5°	231.0	231.0	230.3	230.3	229.7	230.3	229.7	229.1	229.1	228.5
180°	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7	229.7

(END OF REPORT)