

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: P395341

Luminaire Tested: **I3-CL-20L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395341  
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 (6500K)  
Description: CORELITE I3, CLEAR TOP COVER  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2257.0 lumens  
Efficiency: N/A  
Efficacy: 133.6 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

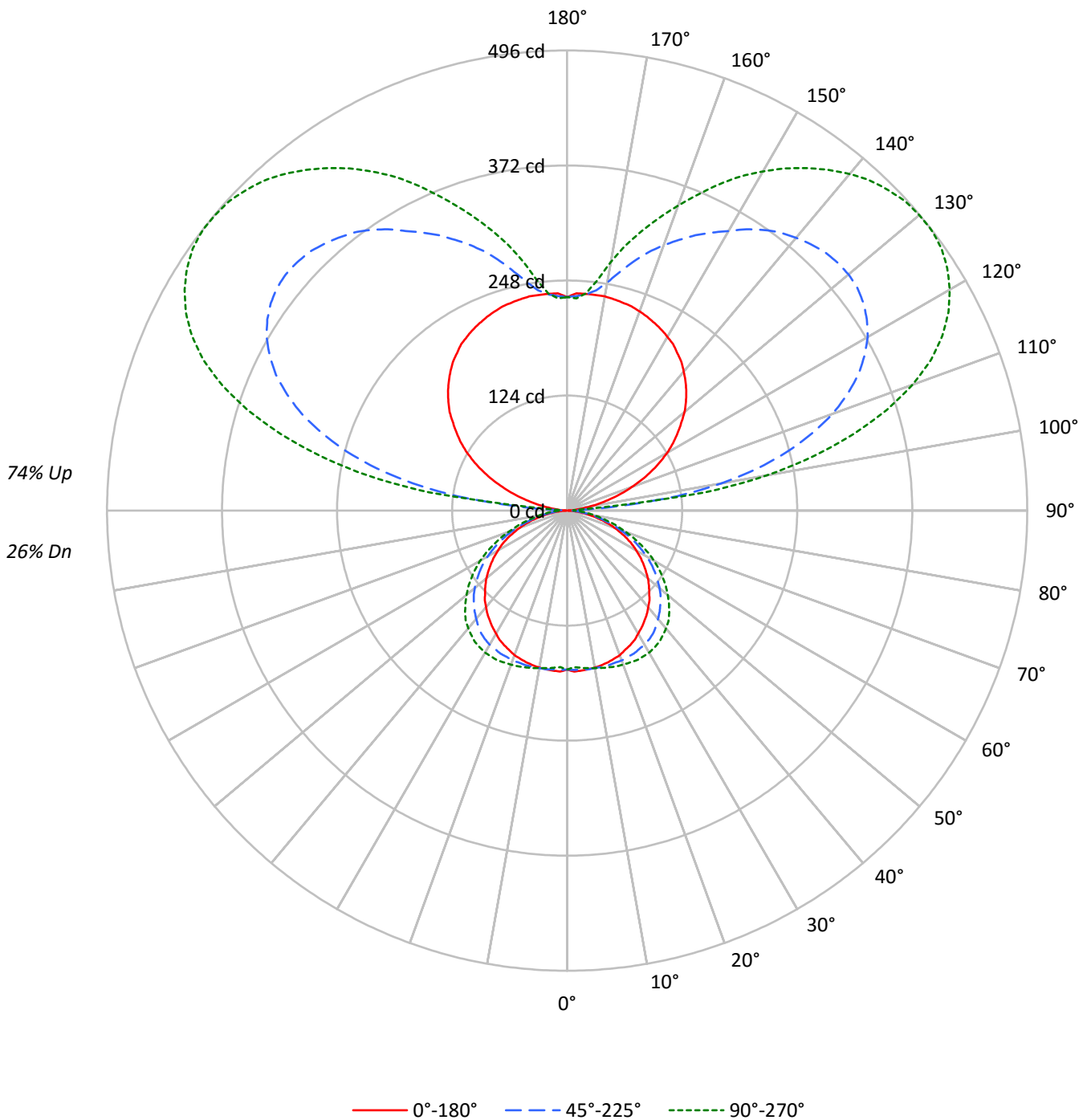
Input Watts (W): 16.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	942	942	942
5°	952	927	912
10°	952	920	909
15°	953	916	914
20°	955	917	922
25°	953	918	934
30°	948	919	940
35°	946	914	942
40°	942	894	930
45°	933	873	907
50°	925	844	866
55°	905	802	816
60°	883	745	753
65°	847	669	668
70°	787	569	565
75°	678	453	454
80°	525	322	333
85°	310	200	223



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CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (6500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.4	0.7
10°-20°	48.7	2.2
20°-30°	78.1	3.5
30°-40°	99.8	4.4
40°-50°	108.9	4.8
50°-60°	102.0	4.5
60°-70°	79.1	3.5
70°-80°	45.4	2.0
80°-90°	14.5	0.6
90°-100°	58.2	2.6
100°-110°	226.3	10.0
110°-120°	308.1	13.6
120°-130°	319.8	14.2
130°-140°	283.7	12.6
140°-150°	220.1	9.8
150°-160°	146.9	6.5
160°-170°	78.3	3.5
170°-180°	22.9	1.0
0°-30°	143.1	6.3
0°-40°	243.0	10.8
0°-60°	453.8	20.1
0°-90°	592.8	26.3
90°-120°	592.6	26.3
90°-150°	1416.1	62.7
90°-180°	1664.0	73.7
0°-180°	2257.0	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	169	172	175	175	48
25°	160	162	170	176	178	74
35°	145	148	162	170	173	91
45°	125	131	142	151	156	97
55°	100	106	115	123	126	90
65°	71	74	81	86	88	70
75°	37	39	42	47	48	40
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	407	446	99
125°	145	264	390	458	493	130
135°	182	278	394	462	489	140
145°	207	278	369	429	451	130
155°	223	263	327	371	388	103
165°	232	242	278	304	312	66
175°	234	233	234	235	235	22
180°	230	230	230	230	230	



TEST NUMBER: P395341

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	171.3	171.3	171.3	171.3	171.3	171.3	171.3	171.3	171.3	171.3	171.3
2.5°	173.7	173.1	173.1	171.9	171.9	171.3	171.3	171.3	171.3	171.3	171.9
5°	173.1	173.1	172.5	171.9	171.9	171.3	171.3	171.3	171.3	171.3	171.9
7.5°	172.5	172.5	171.9	171.3	171.3	171.3	171.3	171.3	171.3	171.3	172.5
10°	171.9	171.9	171.3	170.7	170.7	170.7	170.7	171.3	171.3	171.3	172.5
12.5°	170.7	170.1	170.1	169.4	169.4	169.4	170.1	170.1	170.7	171.3	172.5
15°	169.4	169.4	168.8	168.2	168.8	168.8	168.8	169.4	170.1	170.7	172.5
17.5°	167.6	167.6	167.0	167.0	167.0	167.6	167.6	168.2	169.4	170.7	171.9
20°	165.8	165.2	165.2	165.2	165.8	165.8	166.4	167.6	168.2	170.1	171.9
22.5°	162.8	163.4	162.8	162.8	163.4	164.0	164.6	165.8	167.0	168.8	170.7
25°	160.3	160.3	160.3	160.3	161.6	161.6	162.8	164.0	165.8	167.6	170.1
27.5°	157.3	157.3	157.3	157.9	158.5	159.1	159.7	161.6	163.4	165.8	168.2
30°	153.1	153.1	153.1	153.1	154.9	155.5	156.7	159.1	160.9	164.0	167.0
32.5°	149.4	149.4	149.4	150.0	151.2	151.8	153.1	156.1	158.5	161.6	164.6
35°	145.2	145.2	145.8	145.8	147.6	148.2	149.4	151.8	154.3	157.9	161.6
37.5°	140.9	140.9	141.5	142.1	143.3	144.5	145.8	148.2	150.6	153.7	157.3
40°	136.0	136.0	136.7	137.3	139.1	140.3	141.5	143.9	146.4	149.4	152.4
42.5°	131.2	131.2	131.8	132.4	134.2	135.4	136.7	139.7	142.1	145.2	147.6
45°	125.1	125.7	126.3	127.5	129.4	130.6	131.8	134.2	137.3	139.7	142.1
47.5°	119.6	120.3	120.9	122.1	123.9	125.1	126.3	128.8	131.2	133.6	136.7
50°	113.6	114.2	114.8	116.0	117.8	119.0	120.3	122.7	125.1	126.9	130.0
52.5°	106.9	107.5	108.1	109.3	111.8	112.4	113.6	116.0	117.8	120.3	122.7
55°	100.2	100.8	101.4	102.6	104.5	105.7	106.3	108.7	110.5	113.0	115.4
57.5°	93.5	94.1	94.7	96.0	97.2	98.4	99.0	100.8	103.2	105.1	107.5
60°	86.2	86.8	87.5	88.1	89.9	90.5	91.1	92.9	94.7	97.2	99.0
62.5°	79.0	79.0	79.6	80.2	82.0	82.6	83.2	84.4	86.8	88.1	89.9
65°	71.1	71.1	71.7	72.3	73.5	74.1	74.7	75.9	77.7	79.0	80.8
67.5°	62.6	62.6	63.2	63.8	65.0	65.6	65.6	67.4	68.6	69.8	71.1
70°	54.7	54.7	55.3	55.3	55.9	56.5	57.1	58.3	58.9	60.7	61.3
72.5°	46.2	46.2	46.2	46.2	47.4	47.4	48.0	49.2	49.8	51.0	52.2
75°	37.0	37.0	37.7	37.7	38.3	38.9	39.5	40.1	41.3	41.9	42.5
77.5°	29.2	28.5	29.2	29.8	30.4	30.4	31.0	31.6	32.2	33.4	34.0
80°	20.6	20.6	20.6	21.3	21.9	21.9	22.5	23.1	23.7	24.9	25.5
82.5°	13.4	13.4	14.0	14.0	14.6	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	12.8
87.5°	2.4	2.4	3.0	3.6	4.3	4.3	4.9	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	4.3
92.5°	2.4	4.3	6.7	9.7	9.1	9.7	6.7	4.3	4.3	4.3	4.9
95°	7.3	10.9	17.6	27.9	36.4	41.3	45.6	49.8	58.3	58.9	56.5
97.5°	14.6	20.0	32.2	45.6	60.7	68.6	74.7	87.5	100.8	109.3	119.6
100°	24.3	32.2	48.0	66.2	83.8	94.1	103.9	122.1	138.5	153.1	168.8
102.5°	35.8	44.9	64.4	86.8	108.7	120.3	130.6	151.8	174.3	193.7	210.7
105°	48.0	58.3	81.4	106.9	131.8	145.2	157.9	181.0	204.7	225.9	246.0
107.5°	61.3	72.3	97.2	125.7	153.7	168.8	182.8	207.7	232.6	255.7	276.9
110°	74.1	86.2	112.4	143.3	174.9	190.1	204.1	231.4	257.5	281.8	304.3



TEST NUMBER: P395341

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	87.5	100.2	126.3	160.3	192.5	208.3	222.9	252.0	279.4	304.3	326.7
115°	100.2	112.4	139.7	174.9	207.7	224.1	239.9	269.7	298.2	323.1	346.2
117.5°	112.4	123.9	151.8	187.1	221.1	237.5	253.3	284.2	312.8	338.9	361.4
120°	124.5	134.8	165.2	197.4	232.0	248.4	264.8	295.8	324.9	351.0	374.1
122.5°	135.4	145.2	174.9	206.5	240.5	257.5	273.3	304.9	334.6	360.8	383.2
125°	145.2	154.3	184.0	213.8	247.8	264.2	280.6	311.6	341.3	366.8	389.9
127.5°	154.9	164.0	190.7	221.1	252.7	269.7	285.5	316.4	345.6	371.7	394.2
130°	165.2	171.9	197.4	227.8	257.5	273.3	289.7	319.5	348.0	373.5	396.0
132.5°	173.7	179.8	204.1	233.2	261.2	276.3	290.9	320.7	349.2	373.5	395.4
135°	181.6	186.5	208.9	238.1	264.2	278.2	292.1	320.1	348.0	372.3	393.6
137.5°	188.9	193.7	213.2	241.7	266.6	278.8	292.1	318.2	345.0	369.3	389.3
140°	195.6	199.2	216.8	243.5	267.8	279.4	290.9	315.2	340.1	363.8	383.8
142.5°	202.2	205.3	219.9	244.8	268.4	279.4	290.3	311.6	334.6	357.7	377.8
145°	207.1	210.1	222.3	245.4	267.8	278.2	287.9	307.9	328.6	349.8	369.3
147.5°	212.6	215.0	224.7	244.2	266.0	275.7	284.8	303.1	321.9	341.3	359.5
150°	216.2	218.6	225.9	242.9	263.0	272.1	281.2	298.2	315.2	332.2	348.0
152.5°	219.9	221.7	227.8	241.1	259.3	267.8	276.3	292.7	308.5	323.7	337.7
155°	222.9	224.7	229.0	239.9	255.1	263.0	270.9	286.7	301.2	314.6	327.4
157.5°	225.9	227.1	230.2	238.1	250.2	257.5	264.8	278.8	292.1	305.5	315.8
160°	228.4	229.0	231.4	237.5	246.0	251.4	258.1	270.9	283.0	294.6	304.3
162.5°	230.8	230.8	232.6	236.3	242.3	246.0	250.8	261.8	272.7	283.0	292.1
165°	232.0	232.0	233.2	235.6	239.3	241.7	244.8	252.0	260.5	269.7	278.2
167.5°	233.2	233.2	233.8	235.0	237.5	238.7	239.9	244.8	250.2	256.9	263.6
170°	234.4	233.8	233.8	235.0	235.6	236.3	236.9	239.3	241.7	246.0	249.6
172.5°	234.4	233.8	233.8	234.4	234.4	234.4	234.4	235.0	235.6	238.1	239.3
175°	234.4	233.8	233.8	233.8	233.8	233.2	233.2	233.2	233.2	233.2	233.8
177.5°	234.4	233.8	233.2	233.2	232.6	232.6	232.0	232.0	231.4	231.4	231.4
180°	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	171.3	171.3	171.3	171.3	171.3	171.3	171.3	171.3	171.3	171.3
2.5°	171.9	171.9	171.3	171.3	170.7	170.7	170.1	169.4	168.8	168.8
5°	172.5	171.9	171.3	171.3	171.3	170.7	170.7	170.7	170.1	170.1
7.5°	172.5	172.5	172.5	171.9	171.9	171.9	171.9	171.9	171.3	171.3
10°	173.1	173.1	173.1	173.1	173.1	173.1	173.1	172.5	172.5	172.5
12.5°	173.1	173.1	173.1	173.7	173.7	173.7	173.7	173.7	173.7	173.7
15°	173.7	173.7	174.3	174.3	174.9	174.9	175.5	175.5	175.5	174.9
17.5°	173.1	173.7	174.3	174.9	175.5	175.5	176.1	176.1	176.1	176.1
20°	173.1	174.3	174.9	175.5	176.1	176.1	176.7	177.3	177.3	176.7
22.5°	172.5	173.7	174.3	175.5	176.1	176.1	177.3	177.3	177.3	177.3
25°	171.9	173.1	174.3	175.5	176.1	176.1	177.3	177.3	178.0	178.0
27.5°	170.7	171.9	173.7	174.9	175.5	176.1	176.7	177.3	177.3	177.3
30°	168.8	170.7	172.5	173.7	174.3	174.9	175.5	176.1	176.7	176.7
32.5°	166.4	168.2	170.1	171.9	172.5	173.1	174.3	174.9	174.9	174.9
35°	164.0	165.8	167.6	169.4	170.1	170.7	171.9	172.5	173.1	173.1
37.5°	160.3	162.2	164.0	165.8	166.4	167.6	168.8	169.4	169.4	169.4
40°	154.9	157.9	160.3	162.2	162.8	164.0	164.6	165.8	165.8	165.8
42.5°	150.0	152.4	154.3	156.7	157.3	159.1	160.3	160.9	161.6	161.6
45°	144.5	147.0	148.8	150.6	151.2	152.4	153.7	154.3	154.9	155.5
47.5°	139.1	140.9	142.7	144.5	145.2	146.4	147.6	148.2	148.8	148.8
50°	132.4	134.2	136.0	137.9	138.5	139.7	140.3	140.9	141.5	141.5
52.5°	125.1	126.9	128.8	130.6	131.2	131.8	133.0	133.6	134.2	134.2
55°	117.8	119.6	120.9	122.7	123.3	123.9	124.5	125.7	126.3	125.7
57.5°	109.3	111.1	112.4	114.2	114.8	115.4	116.0	116.6	117.2	117.2
60°	100.2	102.0	103.9	105.1	105.7	106.3	106.9	107.5	108.1	108.1
62.5°	91.1	92.9	94.1	96.0	96.6	96.6	97.2	97.8	98.4	98.4
65°	82.0	83.8	84.4	86.2	86.2	86.8	87.5	88.1	88.1	88.1
67.5°	72.3	74.1	74.7	75.9	75.9	76.5	77.1	77.7	77.7	77.7
70°	63.2	63.8	65.0	65.6	66.2	66.2	66.8	67.4	68.0	67.4
72.5°	53.4	54.1	55.3	55.9	55.9	56.5	56.5	57.1	57.7	57.7
75°	43.7	44.9	45.6	46.2	46.8	46.8	47.4	48.0	48.0	48.0
77.5°	34.6	35.8	36.4	37.0	37.7	37.7	38.3	38.3	38.9	38.3
80°	26.7	27.3	27.9	28.5	29.2	29.2	29.8	30.4	30.4	30.4
82.5°	19.4	20.0	21.3	21.9	21.9	21.9	23.1	23.1	23.7	23.1
85°	13.4	14.0	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°	4.9	4.9	5.5	6.1	6.1	6.7	6.7	7.3	7.3	7.3
92.5°	4.9	5.5	5.5	5.5	6.1	6.1	6.1	6.7	6.7	6.7
95°	41.3	29.8	17.0	13.4	11.5	11.5	10.9	11.5	10.9	10.9
97.5°	125.1	135.4	140.3	147.0	150.6	150.0	147.6	150.0	148.2	150.0
100°	178.0	187.7	195.0	196.8	200.4	202.2	208.9	213.8	216.2	219.3
102.5°	221.1	232.6	241.1	246.0	249.6	252.0	259.9	267.2	270.9	273.3
105°	260.5	272.7	283.0	287.9	292.1	294.6	303.1	311.6	317.0	320.1
107.5°	292.1	306.1	317.0	324.3	328.6	332.8	343.1	351.7	358.3	361.4
110°	320.7	334.6	346.2	354.7	359.5	363.8	375.3	385.1	392.3	396.0





TEST NUMBER: P395341

CATALOG NUMBER: I3-CL-20L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	344.4	359.5	371.1	380.2	385.1	391.1	402.1	413.0	420.3	424.5
115°	363.8	379.6	391.7	401.5	406.9	412.4	425.1	436.1	443.4	446.4
117.5°	380.2	396.0	408.7	418.5	424.5	430.6	443.4	453.1	461.0	463.4
120°	393.6	409.3	422.1	433.0	439.1	444.6	456.7	467.0	474.3	476.2
122.5°	402.7	419.1	432.4	444.6	450.0	455.5	467.0	477.4	484.1	485.9
125°	409.3	426.4	439.7	452.5	457.9	463.4	474.3	484.7	490.1	492.6
127.5°	413.6	430.6	445.2	457.3	463.4	468.3	479.2	488.3	493.8	495.6
130°	414.8	432.4	447.0	459.8	465.2	470.1	480.4	489.5	494.4	495.6
132.5°	414.8	431.8	447.0	459.2	464.6	469.5	479.2	487.7	492.6	493.8
135°	412.4	428.8	444.0	456.1	461.6	466.4	476.2	483.4	488.3	488.9
137.5°	408.1	423.9	438.5	450.6	456.1	461.0	469.5	477.4	481.6	482.8
140°	402.7	417.2	431.8	443.4	448.8	453.1	461.6	468.3	472.5	473.7
142.5°	395.4	410.0	423.3	434.9	439.1	444.0	451.3	457.9	461.6	462.8
145°	387.5	401.5	413.6	423.9	428.8	433.0	439.7	445.8	449.4	450.6
147.5°	377.2	391.1	402.7	412.4	416.6	420.9	427.0	432.4	436.1	437.3
150°	364.4	377.2	389.3	398.4	402.7	406.9	413.0	417.9	421.5	422.1
152.5°	351.7	363.8	374.1	383.2	387.5	391.7	397.2	402.1	406.3	406.3
155°	339.5	349.8	359.5	367.4	371.1	374.7	380.2	384.4	388.1	388.1
157.5°	326.7	336.5	344.4	351.7	354.7	357.7	362.6	366.2	369.3	368.7
160°	314.6	321.9	329.2	335.3	338.3	340.7	344.4	347.4	350.4	349.8
162.5°	301.2	307.9	314.0	318.2	320.7	322.5	326.1	329.2	331.0	331.0
165°	286.1	292.1	297.6	301.8	304.3	305.5	308.5	310.4	312.2	312.2
167.5°	270.3	275.1	280.0	283.6	286.1	287.3	290.3	291.5	294.0	293.3
170°	254.5	258.1	261.8	264.8	266.0	267.2	269.7	270.9	272.1	272.1
172.5°	241.7	242.9	244.8	247.2	247.2	247.8	249.0	249.6	250.2	250.2
175°	234.4	235.0	235.0	235.0	235.0	235.0	235.6	235.0	235.6	235.0
177.5°	231.4	231.4	230.8	230.8	230.2	230.8	230.2	229.6	229.6	229.0
180°	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2

(END OF REPORT)