

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: P395393

Luminaire Tested: **I3-CL-40L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395393  
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-40L82765-1D-UNV-W2A-W-4 (6500K)  
Description: CORELITE I3, CLEAR TOP COVER  
4000 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: 3864.1 lumens  
Efficiency: N/A  
Efficacy: 132.8 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

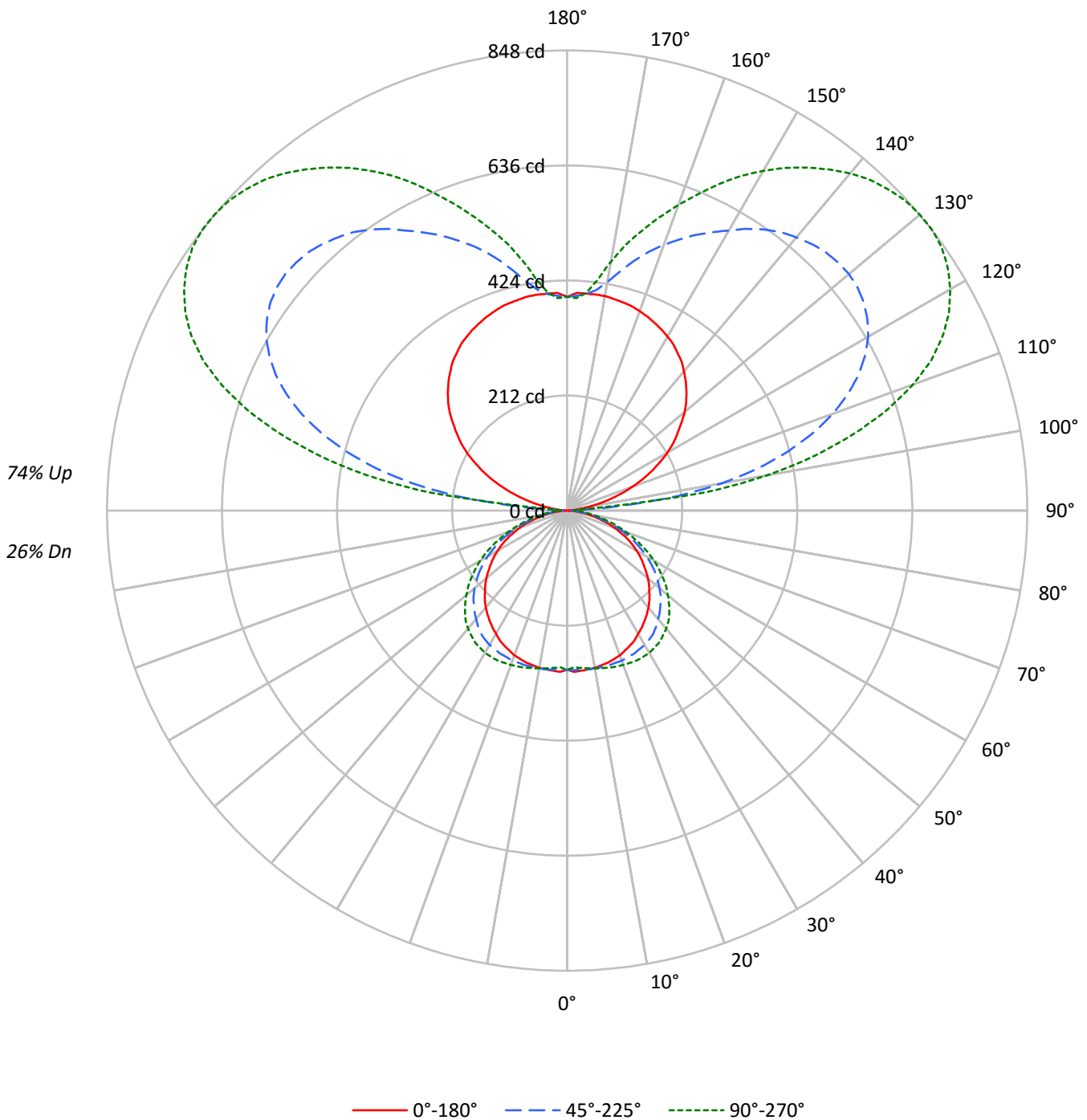
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (6500K)

### 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°	1612	1612	1612
5°	1629	1587	1561
10°	1630	1574	1557
15°	1632	1569	1565
20°	1635	1570	1578
25°	1632	1571	1599
30°	1623	1573	1611
35°	1619	1565	1612
40°	1613	1531	1592
45°	1597	1494	1552
50°	1582	1445	1483
55°	1550	1373	1397
60°	1512	1276	1290
65°	1450	1146	1144
70°	1347	975	968
75°	1162	776	777
80°	903	552	569
85°	530	340	382



TEST NUMBER: P395393

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (6500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.1	0.7
10°-20°	83.3	2.2
20°-30°	133.6	3.5
30°-40°	170.9	4.4
40°-50°	186.4	4.8
50°-60°	174.6	4.5
60°-70°	135.5	3.5
70°-80°	77.6	2.0
80°-90°	24.8	0.6
90°-100°	99.7	2.6
100°-110°	387.4	10.0
110°-120°	527.5	13.6
120°-130°	547.5	14.2
130°-140°	485.7	12.6
140°-150°	376.8	9.8
150°-160°	251.5	6.5
160°-170°	134.0	3.5
170°-180°	39.2	1.0
0°-30°	245.0	6.3
0°-40°	416.0	10.8
0°-60°	776.9	20.1
0°-90°	1014.9	26.3
90°-120°	1014.5	26.3
90°-150°	2424.5	62.7
90°-180°	2849.0	73.7
0°-180°	3864.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	296	293	294	293	291	28
15°	290	289	295	300	300	82
25°	274	277	291	302	305	126
35°	248	254	277	291	296	156
45°	214	224	243	259	266	166
55°	172	181	198	211	215	153
65°	122	127	138	148	151	120
75°	63	66	73	80	82	68
85°	12	15	22	28	29	15
90°	1	3	7	10	12	1
95°	12	71	97	20	19	16
105°	82	248	421	500	548	88
115°	172	384	593	697	764	169
125°	248	452	668	784	843	222
135°	311	476	674	790	837	240
145°	355	476	632	734	772	222
155°	382	450	560	635	664	176
165°	397	414	476	521	534	112
175°	401	399	400	402	402	38
180°	394	394	394	394	394	



TEST NUMBER: P395393

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2
2.5°	297.4	296.3	296.3	294.3	294.3	293.2	293.2	293.2	293.2	293.2	294.3
5°	296.3	296.3	295.3	294.3	294.3	293.2	293.2	293.2	293.2	293.2	294.3
7.5°	295.3	295.3	294.3	293.2	293.2	293.2	293.2	293.2	293.2	293.2	295.3
10°	294.3	294.3	293.2	292.2	292.2	292.2	292.2	293.2	293.2	293.2	295.3
12.5°	292.2	291.1	291.1	290.1	290.1	290.1	291.1	291.1	292.2	293.2	295.3
15°	290.1	290.1	289.1	288.0	289.1	289.1	289.1	290.1	291.1	292.2	295.3
17.5°	287.0	287.0	285.9	285.9	285.9	287.0	287.0	288.0	290.1	292.2	294.3
20°	283.9	282.8	282.8	282.8	283.9	283.9	284.9	287.0	288.0	291.1	294.3
22.5°	278.7	279.7	278.7	278.7	279.7	280.7	281.8	283.9	285.9	289.1	292.2
25°	274.5	274.5	274.5	274.5	276.6	276.6	278.7	280.7	283.9	287.0	291.1
27.5°	269.3	269.3	269.3	270.4	271.4	272.4	273.5	276.6	279.7	283.9	288.0
30°	262.0	262.0	262.0	262.0	265.2	266.2	268.3	272.4	275.6	280.7	285.9
32.5°	255.8	255.8	255.8	256.8	258.9	260.0	262.0	267.2	271.4	276.6	281.8
35°	248.5	248.5	249.6	249.6	252.7	253.7	255.8	260.0	264.1	270.4	276.6
37.5°	241.2	241.2	242.3	243.3	245.4	247.5	249.6	253.7	257.9	263.1	269.3
40°	232.9	232.9	234.0	235.0	238.1	240.2	242.3	246.4	250.6	255.8	261.0
42.5°	224.6	224.6	225.6	226.7	229.8	231.9	234.0	239.2	243.3	248.5	252.7
45°	214.2	215.2	216.3	218.4	221.5	223.6	225.6	229.8	235.0	239.2	243.3
47.5°	204.8	205.9	206.9	209.0	212.1	214.2	216.3	220.4	224.6	228.8	234.0
50°	194.4	195.5	196.5	198.6	201.7	203.8	205.9	210.0	214.2	217.3	222.5
52.5°	183.0	184.0	185.1	187.2	191.3	192.4	194.4	198.6	201.7	205.9	210.0
55°	171.6	172.6	173.6	175.7	178.8	180.9	182.0	186.1	189.2	193.4	197.6
57.5°	160.1	161.2	162.2	164.3	166.4	168.4	169.5	172.6	176.8	179.9	184.0
60°	147.7	148.7	149.7	150.8	153.9	154.9	156.0	159.1	162.2	166.4	169.5
62.5°	135.2	135.2	136.2	137.3	140.4	141.4	142.5	144.5	148.7	150.8	153.9
65°	121.7	121.7	122.7	123.7	125.8	126.9	127.9	130.0	133.1	135.2	138.3
67.5°	107.1	107.1	108.1	109.2	111.3	112.3	112.3	115.4	117.5	119.6	121.7
70°	93.6	93.6	94.6	94.6	95.7	96.7	97.7	99.8	100.9	104.0	105.0
72.5°	79.0	79.0	79.0	79.0	81.1	81.1	82.1	84.2	85.3	87.3	89.4
75°	63.4	63.4	64.5	64.5	65.5	66.5	67.6	68.6	70.7	71.7	72.8
77.5°	49.9	48.9	49.9	51.0	52.0	52.0	53.0	54.1	55.1	57.2	58.2
80°	35.4	35.4	35.4	36.4	37.4	37.4	38.5	39.5	40.6	42.6	43.7
82.5°	22.9	22.9	23.9	23.9	25.0	26.0	26.0	27.0	28.1	30.2	31.2
85°	12.5	12.5	12.5	13.5	14.6	14.6	15.6	16.6	18.7	19.8	21.8
87.5°	4.2	4.2	5.2	6.2	7.3	7.3	8.3	9.4	10.4	12.5	13.5
90°	1.0	1.0	1.0	2.1	2.1	3.1	3.1	4.2	5.2	6.2	7.3
92.5°	4.2	7.3	11.4	16.6	15.6	16.6	11.4	7.3	7.3	7.3	8.3
95°	12.5	18.7	30.2	47.8	62.4	70.7	78.0	85.3	99.8	100.9	96.7
97.5°	25.0	34.3	55.1	78.0	104.0	117.5	127.9	149.7	172.6	187.2	204.8
100°	41.6	55.1	82.1	113.3	143.5	161.2	177.8	209.0	237.1	262.0	289.1
102.5°	61.3	76.9	110.2	148.7	186.1	205.9	223.6	260.0	298.4	331.7	360.8
105°	82.1	99.8	139.3	183.0	225.6	248.5	270.4	309.9	350.4	386.8	421.1
107.5°	105.0	123.7	166.4	215.2	263.1	289.1	313.0	355.6	398.2	437.8	474.2
110°	126.9	147.7	192.4	245.4	299.5	325.5	349.4	396.2	440.9	482.5	520.9



TEST NUMBER: P395393

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	149.7	171.6	216.3	274.5	329.6	356.7	381.6	431.5	478.3	520.9	559.4
115°	171.6	192.4	239.2	299.5	355.6	383.7	410.7	461.7	510.5	553.2	592.7
117.5°	192.4	212.1	260.0	320.3	378.5	406.6	433.6	486.6	535.5	580.2	618.7
120°	213.2	230.8	282.8	337.9	397.2	425.3	453.4	506.4	556.3	601.0	640.5
122.5°	231.9	248.5	299.5	353.5	411.8	440.9	467.9	522.0	572.9	617.6	656.1
125°	248.5	264.1	315.1	366.0	424.2	452.3	480.4	533.4	584.4	628.0	667.6
127.5°	265.2	280.7	326.5	378.5	432.6	461.7	488.7	541.7	591.7	636.4	674.8
130°	282.8	294.3	337.9	389.9	440.9	467.9	496.0	546.9	595.8	639.5	678.0
132.5°	297.4	307.8	349.4	399.3	447.1	473.1	498.1	549.0	597.9	639.5	676.9
135°	310.9	319.2	357.7	407.6	452.3	476.2	500.1	548.0	595.8	637.4	673.8
137.5°	323.4	331.7	365.0	413.8	456.5	477.3	500.1	544.9	590.6	632.2	666.5
140°	334.8	341.1	371.2	417.0	458.6	478.3	498.1	539.7	582.3	622.8	657.2
142.5°	346.3	351.5	376.4	419.0	459.6	478.3	497.0	533.4	572.9	612.4	646.8
145°	354.6	359.8	380.6	420.1	458.6	476.2	492.9	527.2	562.5	598.9	632.2
147.5°	363.9	368.1	384.7	418.0	455.4	472.1	487.7	518.9	551.1	584.4	615.6
150°	370.2	374.3	386.8	415.9	450.2	465.8	481.4	510.5	539.7	568.8	595.8
152.5°	376.4	379.5	389.9	412.8	444.0	458.6	473.1	501.2	528.2	554.2	578.1
155°	381.6	384.7	392.0	410.7	436.7	450.2	463.8	490.8	515.7	538.6	560.5
157.5°	386.8	388.9	394.1	407.6	428.4	440.9	453.4	477.3	500.1	523.0	540.7
160°	391.0	392.0	396.2	406.6	421.1	430.5	441.9	463.8	484.6	504.3	520.9
162.5°	395.1	395.1	398.2	404.5	414.9	421.1	429.4	448.2	466.9	484.6	500.1
165°	397.2	397.2	399.3	403.4	409.7	413.8	419.0	431.5	446.1	461.7	476.2
167.5°	399.3	399.3	400.3	402.4	406.6	408.6	410.7	419.0	428.4	439.8	451.3
170°	401.4	400.3	400.3	402.4	403.4	404.5	405.5	409.7	413.8	421.1	427.4
172.5°	401.4	400.3	400.3	401.4	401.4	401.4	401.4	402.4	403.4	407.6	409.7
175°	401.4	400.3	400.3	400.3	400.3	399.3	399.3	399.3	399.3	399.3	400.3
177.5°	401.4	400.3	399.3	399.3	398.2	398.2	397.2	397.2	396.2	396.2	396.2
180°	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1



TEST NUMBER: P395393

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2
2.5°	294.3	294.3	293.2	293.2	292.2	292.2	291.1	290.1	289.1	289.1
5°	295.3	294.3	293.2	293.2	293.2	292.2	292.2	292.2	291.1	291.1
7.5°	295.3	295.3	295.3	294.3	294.3	294.3	294.3	294.3	293.2	293.2
10°	296.3	296.3	296.3	296.3	296.3	296.3	296.3	295.3	295.3	295.3
12.5°	296.3	296.3	296.3	297.4	297.4	297.4	297.4	297.4	297.4	297.4
15°	297.4	297.4	298.4	298.4	299.5	299.5	300.5	300.5	300.5	299.5
17.5°	296.3	297.4	298.4	299.5	300.5	300.5	301.5	301.5	301.5	301.5
20°	296.3	298.4	299.5	300.5	301.5	301.5	302.6	303.6	303.6	302.6
22.5°	295.3	297.4	298.4	300.5	301.5	301.5	303.6	303.6	303.6	303.6
25°	294.3	296.3	298.4	300.5	301.5	301.5	303.6	303.6	304.7	304.7
27.5°	292.2	294.3	297.4	299.5	300.5	301.5	302.6	303.6	303.6	303.6
30°	289.1	292.2	295.3	297.4	298.4	299.5	300.5	301.5	302.6	302.6
32.5°	284.9	288.0	291.1	294.3	295.3	296.3	298.4	299.5	299.5	299.5
35°	280.7	283.9	287.0	290.1	291.1	292.2	294.3	295.3	296.3	296.3
37.5°	274.5	277.6	280.7	283.9	284.9	287.0	289.1	290.1	290.1	290.1
40°	265.2	270.4	274.5	277.6	278.7	280.7	281.8	283.9	283.9	283.9
42.5°	256.8	261.0	264.1	268.3	269.3	272.4	274.5	275.6	276.6	276.6
45°	247.5	251.6	254.8	257.9	258.9	261.0	263.1	264.1	265.2	266.2
47.5°	238.1	241.2	244.4	247.5	248.5	250.6	252.7	253.7	254.8	254.8
50°	226.7	229.8	232.9	236.0	237.1	239.2	240.2	241.2	242.3	242.3
52.5°	214.2	217.3	220.4	223.6	224.6	225.6	227.7	228.8	229.8	229.8
55°	201.7	204.8	206.9	210.0	211.1	212.1	213.2	215.2	216.3	215.2
57.5°	187.2	190.3	192.4	195.5	196.5	197.6	198.6	199.6	200.7	200.7
60°	171.6	174.7	177.8	179.9	180.9	182.0	183.0	184.0	185.1	185.1
62.5°	156.0	159.1	161.2	164.3	165.3	165.3	166.4	167.4	168.4	168.4
65°	140.4	143.5	144.5	147.7	147.7	148.7	149.7	150.8	150.8	150.8
67.5°	123.7	126.9	127.9	130.0	130.0	131.0	132.1	133.1	133.1	133.1
70°	108.1	109.2	111.3	112.3	113.3	113.3	114.4	115.4	116.5	115.4
72.5°	91.5	92.5	94.6	95.7	95.7	96.7	96.7	97.7	98.8	98.8
75°	74.9	76.9	78.0	79.0	80.1	80.1	81.1	82.1	82.1	82.1
77.5°	59.3	61.3	62.4	63.4	64.5	64.5	65.5	65.5	66.5	65.5
80°	45.8	46.8	47.8	48.9	49.9	49.9	51.0	52.0	52.0	52.0
82.5°	33.3	34.3	36.4	37.4	37.4	37.4	39.5	39.5	40.6	39.5
85°	22.9	23.9	26.0	27.0	28.1	28.1	28.1	29.1	30.2	29.1
87.5°	14.6	16.6	17.7	18.7	18.7	18.7	19.8	20.8	20.8	20.8
90°	8.3	8.3	9.4	10.4	10.4	11.4	11.4	12.5	12.5	12.5
92.5°	8.3	9.4	9.4	9.4	10.4	10.4	10.4	11.4	11.4	11.4
95°	70.7	51.0	29.1	22.9	19.8	19.8	18.7	19.8	18.7	18.7
97.5°	214.2	231.9	240.2	251.6	257.9	256.8	252.7	256.8	253.7	256.8
100°	304.7	321.3	333.8	336.9	343.1	346.3	357.7	366.0	370.2	375.4
102.5°	378.5	398.2	412.8	421.1	427.4	431.5	445.0	457.5	463.8	467.9
105°	446.1	466.9	484.6	492.9	500.1	504.3	518.9	533.4	542.8	548.0
107.5°	500.1	524.1	542.8	555.3	562.5	569.8	587.5	602.1	613.5	618.7
110°	549.0	572.9	592.7	607.3	615.6	622.8	642.6	659.2	671.7	678.0





TEST NUMBER: P395393

CATALOG NUMBER: I3-CL-40L82765-1D-UNV-W2A-W-4 (6500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	589.6	615.6	635.3	650.9	659.2	669.6	688.4	707.1	719.6	726.8
115°	622.8	649.9	670.7	687.3	696.7	706.0	727.9	746.6	759.1	764.3
117.5°	650.9	678.0	699.8	716.4	726.8	737.2	759.1	775.7	789.2	793.4
120°	673.8	700.8	722.7	741.4	751.8	761.1	781.9	799.6	812.1	815.2
122.5°	689.4	717.5	740.3	761.1	770.5	779.9	799.6	817.3	828.7	831.9
125°	700.8	729.9	752.8	774.7	784.0	793.4	812.1	829.8	839.1	843.3
127.5°	708.1	737.2	762.2	783.0	793.4	801.7	820.4	836.0	845.4	848.5
130°	710.2	740.3	765.3	787.1	796.5	804.8	822.5	838.1	846.4	848.5
132.5°	710.2	739.3	765.3	786.1	795.5	803.8	820.4	835.0	843.3	845.4
135°	706.0	734.1	760.1	780.9	790.3	798.6	815.2	827.7	836.0	837.0
137.5°	698.8	725.8	750.7	771.5	780.9	789.2	803.8	817.3	824.6	826.7
140°	689.4	714.4	739.3	759.1	768.4	775.7	790.3	801.7	809.0	811.1
142.5°	676.9	701.9	724.7	744.5	751.8	760.1	772.6	784.0	790.3	792.3
145°	663.4	687.3	708.1	725.8	734.1	741.4	752.8	763.2	769.5	771.5
147.5°	645.7	669.6	689.4	706.0	713.3	720.6	731.0	740.3	746.6	748.7
150°	623.9	645.7	666.5	682.1	689.4	696.7	707.1	715.4	721.6	722.7
152.5°	602.1	622.8	640.5	656.1	663.4	670.7	680.0	688.4	695.6	695.6
155°	581.3	598.9	615.6	629.1	635.3	641.6	650.9	658.2	664.4	664.4
157.5°	559.4	576.1	589.6	602.1	607.3	612.4	620.8	627.0	632.2	631.2
160°	538.6	551.1	563.6	574.0	579.2	583.3	589.6	594.8	600.0	598.9
162.5°	515.7	527.2	537.6	544.9	549.0	552.1	558.4	563.6	566.7	566.7
165°	489.8	500.1	509.5	516.8	520.9	523.0	528.2	531.3	534.5	534.5
167.5°	462.7	471.0	479.4	485.6	489.8	491.8	497.0	499.1	503.3	502.2
170°	435.7	441.9	448.2	453.4	455.4	457.5	461.7	463.8	465.8	465.8
172.5°	413.8	415.9	419.0	423.2	423.2	424.2	426.3	427.4	428.4	428.4
175°	401.4	402.4	402.4	402.4	402.4	402.4	403.4	402.4	403.4	402.4
177.5°	396.2	396.2	395.1	395.1	394.1	395.1	394.1	393.0	393.0	392.0
180°	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1	394.1

(END OF REPORT)