

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: P395419

Luminaire Tested: **I3-CL-50L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395419
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-50L82765-1D-UNV-W2A-W-4 (6500K)
Description: CORELITE I3, CLEAR TOP COVER
5000 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: 4825.2 lumens
Efficiency: N/A
Efficacy: 130.1 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

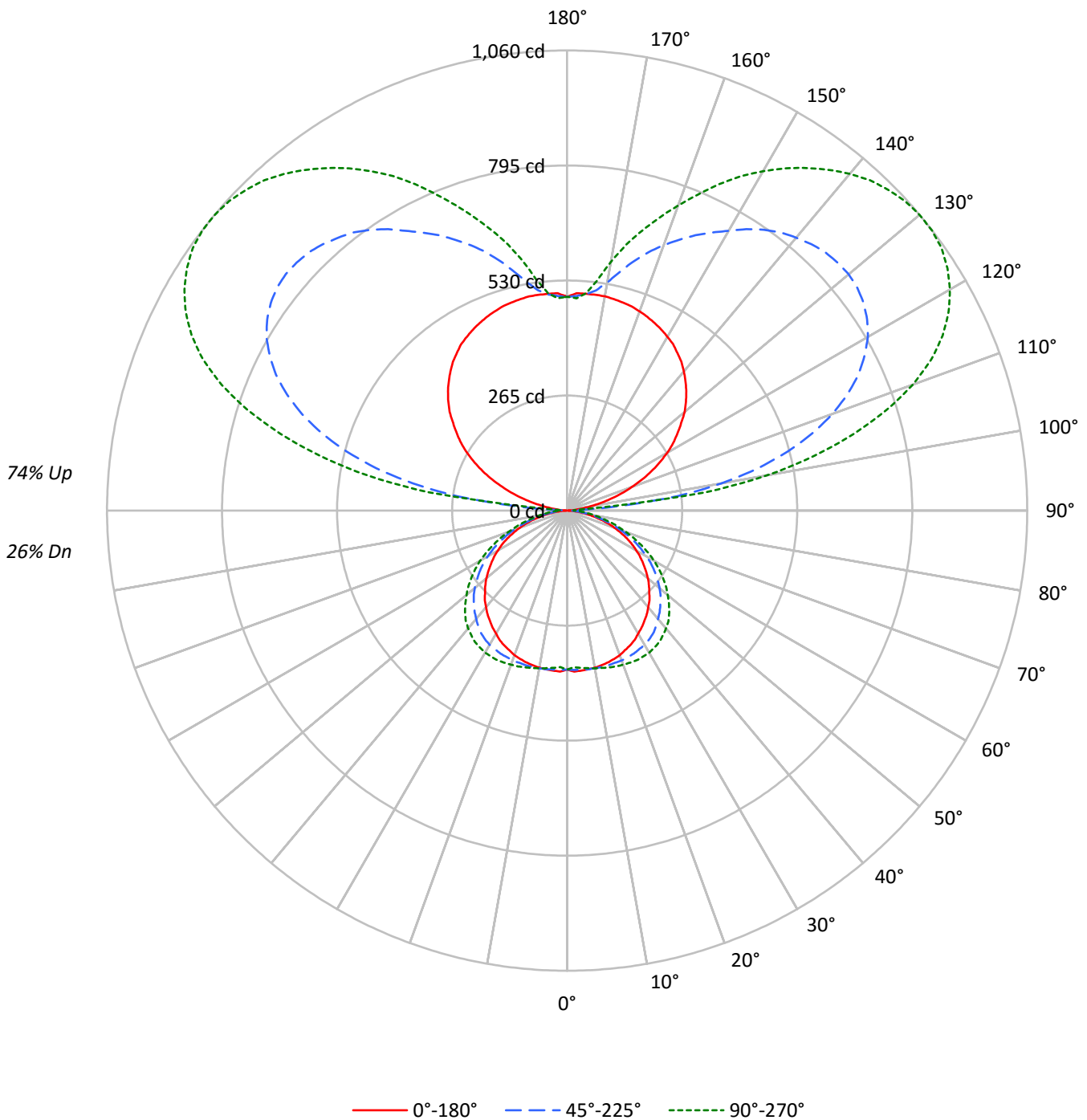
Input Watts (W): 37.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2013	2013	2013
5°	2034	1982	1949
10°	2036	1966	1944
15°	2038	1959	1953
20°	2042	1960	1971
25°	2039	1962	1997
30°	2027	1965	2011
35°	2022	1954	2013
40°	2015	1912	1988
45°	1994	1866	1938
50°	1976	1805	1851
55°	1935	1714	1745
60°	1888	1593	1611
65°	1810	1431	1428
70°	1682	1218	1209
75°	1451	969	971
80°	1125	688	711
85°	662	426	477



TEST NUMBER: P395419

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	0.7
10°-20°	104.1	2.2
20°-30°	166.9	3.5
30°-40°	213.4	4.4
40°-50°	232.7	4.8
50°-60°	218.0	4.5
60°-70°	169.2	3.5
70°-80°	97.0	2.0
80°-90°	31.0	0.6
90°-100°	124.4	2.6
100°-110°	483.8	10.0
110°-120°	658.6	13.6
120°-130°	683.7	14.2
130°-140°	606.4	12.6
140°-150°	470.5	9.8
150°-160°	314.0	6.5
160°-170°	167.4	3.5
170°-180°	49.0	1.0
0°-30°	306.0	6.3
0°-40°	519.4	10.8
0°-60°	970.2	20.1
0°-90°	1267.3	26.3
90°-120°	1266.8	26.3
90°-150°	3027.5	62.7
90°-180°	3558.0	73.7
0°-180°	4825.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	366	366	366	366	366	
5°	370	366	368	366	364	35
15°	362	361	369	374	374	102
25°	343	345	364	376	380	158
35°	310	317	345	364	370	194
45°	268	279	304	323	332	207
55°	214	226	247	264	269	192
65°	152	158	173	184	188	150
75°	79	83	91	100	103	85
85°	16	18	27	35	36	19
90°	1	4	9	13	16	2
95°	16	88	121	25	23	20
105°	103	310	526	624	684	109
115°	214	479	740	870	954	211
125°	310	565	834	979	1053	278
135°	388	595	841	987	1045	299
145°	443	595	789	917	963	277
155°	476	562	700	793	830	220
165°	496	517	595	650	667	140
175°	501	499	500	502	502	48
180°	492	492	492	492	492	



TEST NUMBER: P395419

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2
2.5°	371.3	370.0	370.0	367.5	367.5	366.2	366.2	366.2	366.2	366.2	367.5
5°	370.0	370.0	368.8	367.5	367.5	366.2	366.2	366.2	366.2	366.2	367.5
7.5°	368.8	368.8	367.5	366.2	366.2	366.2	366.2	366.2	366.2	366.2	368.8
10°	367.5	367.5	366.2	364.9	364.9	364.9	364.9	366.2	366.2	366.2	368.8
12.5°	364.9	363.6	363.6	362.3	362.3	362.3	363.6	363.6	364.9	366.2	368.8
15°	362.3	362.3	361.0	359.7	361.0	361.0	361.0	362.3	363.6	364.9	368.8
17.5°	358.4	358.4	357.1	357.1	357.1	358.4	358.4	359.7	362.3	364.9	367.5
20°	354.5	353.2	353.2	353.2	354.5	354.5	355.8	358.4	359.7	363.6	367.5
22.5°	348.0	349.3	348.0	348.0	349.3	350.6	351.9	354.5	357.1	361.0	364.9
25°	342.8	342.8	342.8	342.8	345.4	345.4	348.0	350.6	354.5	358.4	363.6
27.5°	336.3	336.3	336.3	337.6	338.9	340.2	341.5	345.4	349.3	354.5	359.7
30°	327.2	327.2	327.2	327.2	331.1	332.4	335.0	340.2	344.1	350.6	357.1
32.5°	319.4	319.4	319.4	320.7	323.3	324.6	327.2	333.7	338.9	345.4	351.9
35°	310.3	310.3	311.6	311.6	315.5	316.8	319.4	324.6	329.8	337.6	345.4
37.5°	301.2	301.2	302.5	303.8	306.4	309.0	311.6	316.8	322.0	328.5	336.3
40°	290.8	290.8	292.1	293.4	297.3	299.9	302.5	307.7	312.9	319.4	325.9
42.5°	280.5	280.5	281.8	283.1	286.9	289.5	292.1	298.6	303.8	310.3	315.5
45°	267.5	268.8	270.1	272.7	276.6	279.2	281.8	286.9	293.4	298.6	303.8
47.5°	255.8	257.1	258.4	261.0	264.9	267.5	270.1	275.3	280.5	285.7	292.1
50°	242.8	244.1	245.4	248.0	251.9	254.5	257.1	262.3	267.5	271.4	277.9
52.5°	228.5	229.8	231.1	233.7	238.9	240.2	242.8	248.0	251.9	257.1	262.3
55°	214.2	215.5	216.8	219.4	223.3	225.9	227.2	232.4	236.3	241.5	246.7
57.5°	200.0	201.3	202.6	205.1	207.7	210.3	211.6	215.5	220.7	224.6	229.8
60°	184.4	185.7	187.0	188.3	192.2	193.5	194.8	198.7	202.6	207.7	211.6
62.5°	168.8	168.8	170.1	171.4	175.3	176.6	177.9	180.5	185.7	188.3	192.2
65°	151.9	151.9	153.2	154.5	157.1	158.4	159.7	162.3	166.2	168.8	172.7
67.5°	133.7	133.7	135.0	136.3	138.9	140.2	140.2	144.1	146.7	149.3	151.9
70°	116.9	116.9	118.2	118.2	119.5	120.8	122.1	124.6	125.9	129.8	131.1
72.5°	98.7	98.7	98.7	98.7	101.3	101.3	102.6	105.2	106.5	109.1	111.7
75°	79.2	79.2	80.5	80.5	81.8	83.1	84.4	85.7	88.3	89.6	90.9
77.5°	62.3	61.0	62.3	63.6	64.9	64.9	66.2	67.5	68.8	71.4	72.7
80°	44.1	44.1	44.1	45.4	46.7	46.7	48.0	49.3	50.6	53.2	54.5
82.5°	28.6	28.6	29.9	29.9	31.2	32.5	32.5	33.8	35.1	37.7	39.0
85°	15.6	15.6	15.6	16.9	18.2	18.2	19.5	20.8	23.4	24.7	27.3
87.5°	5.2	5.2	6.5	7.8	9.1	9.1	10.4	11.7	13.0	15.6	16.9
90°	1.3	1.3	1.3	2.6	2.6	3.9	3.9	5.2	6.5	7.8	9.1
92.5°	5.2	9.1	14.3	20.8	19.5	20.8	14.3	9.1	9.1	9.1	10.4
95°	15.6	23.4	37.7	59.7	77.9	88.3	97.4	106.5	124.6	125.9	120.8
97.5°	31.2	42.8	68.8	97.4	129.8	146.7	159.7	187.0	215.5	233.7	255.8
100°	51.9	68.8	102.6	141.5	179.2	201.3	222.0	261.0	296.0	327.2	361.0
102.5°	76.6	96.1	137.6	185.7	232.4	257.1	279.2	324.6	372.6	414.2	450.6
105°	102.6	124.6	174.0	228.5	281.8	310.3	337.6	386.9	437.6	483.0	525.9
107.5°	131.1	154.5	207.7	268.8	328.5	361.0	390.8	444.1	497.3	546.6	592.1
110°	158.4	184.4	240.2	306.4	373.9	406.4	436.3	494.7	550.5	602.5	650.5



TEST NUMBER: P395419

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	187.0	214.2	270.1	342.8	411.6	445.4	476.5	538.8	597.3	650.5	698.5
115°	214.2	240.2	298.6	373.9	444.1	479.1	512.9	576.5	637.5	690.8	740.1
117.5°	240.2	264.9	324.6	399.9	472.6	507.7	541.4	607.7	668.7	724.5	772.6
120°	266.2	288.2	353.2	422.0	496.0	531.1	566.1	632.3	694.7	750.5	799.8
122.5°	289.5	310.3	373.9	441.5	514.2	550.5	584.3	651.8	715.4	771.3	819.3
125°	310.3	329.8	393.4	457.0	529.8	564.8	599.9	666.1	729.7	784.2	833.6
127.5°	331.1	350.6	407.7	472.6	540.1	576.5	610.3	676.5	738.8	794.6	842.7
130°	353.2	367.5	422.0	486.9	550.5	584.3	619.3	683.0	744.0	798.5	846.6
132.5°	371.3	384.3	436.3	498.6	558.3	590.8	621.9	685.6	746.6	798.5	845.3
135°	388.2	398.6	446.7	509.0	564.8	594.7	624.5	684.3	744.0	795.9	841.4
137.5°	403.8	414.2	455.7	516.8	570.0	596.0	624.5	680.4	737.5	789.4	832.3
140°	418.1	425.9	463.5	520.7	572.6	597.3	621.9	673.9	727.1	777.8	820.6
142.5°	432.4	438.9	470.0	523.3	573.9	597.3	620.6	666.1	715.4	764.8	807.6
145°	442.8	449.3	475.2	524.6	572.6	594.7	615.4	658.3	702.4	747.9	789.4
147.5°	454.4	459.6	480.4	522.0	568.7	589.5	609.0	647.9	688.2	729.7	768.7
150°	462.2	467.4	483.0	519.4	562.2	581.7	601.2	637.5	673.9	710.2	744.0
152.5°	470.0	473.9	486.9	515.5	554.4	572.6	590.8	625.8	659.6	692.1	721.9
155°	476.5	480.4	489.5	512.9	545.3	562.2	579.1	612.9	644.0	672.6	699.8
157.5°	483.0	485.6	492.1	509.0	534.9	550.5	566.1	596.0	624.5	653.1	675.2
160°	488.2	489.5	494.7	507.7	525.9	537.5	551.8	579.1	605.1	629.7	650.5
162.5°	493.4	493.4	497.3	505.1	518.1	525.9	536.2	559.6	583.0	605.1	624.5
165°	496.0	496.0	498.6	503.8	511.6	516.8	523.3	538.8	557.0	576.5	594.7
167.5°	498.6	498.6	499.9	502.5	507.7	510.3	512.9	523.3	534.9	549.2	563.5
170°	501.2	499.9	499.9	502.5	503.8	505.1	506.4	511.6	516.8	525.9	533.6
172.5°	501.2	499.9	499.9	501.2	501.2	501.2	501.2	502.5	503.8	509.0	511.6
175°	501.2	499.9	499.9	499.9	499.9	498.6	498.6	498.6	498.6	498.6	499.9
177.5°	501.2	499.9	498.6	498.6	497.3	497.3	496.0	496.0	494.7	494.7	494.7
180°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1



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CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2
2.5°	367.5	367.5	366.2	366.2	364.9	364.9	363.6	362.3	361.0	361.0
5°	368.8	367.5	366.2	366.2	366.2	364.9	364.9	364.9	363.6	363.6
7.5°	368.8	368.8	368.8	367.5	367.5	367.5	367.5	367.5	366.2	366.2
10°	370.0	370.0	370.0	370.0	370.0	370.0	370.0	368.8	368.8	368.8
12.5°	370.0	370.0	370.0	371.3	371.3	371.3	371.3	371.3	371.3	371.3
15°	371.3	371.3	372.6	372.6	373.9	373.9	375.2	375.2	375.2	373.9
17.5°	370.0	371.3	372.6	373.9	375.2	375.2	376.5	376.5	376.5	376.5
20°	370.0	372.6	373.9	375.2	376.5	376.5	377.8	379.1	379.1	377.8
22.5°	368.8	371.3	372.6	375.2	376.5	376.5	379.1	379.1	379.1	379.1
25°	367.5	370.0	372.6	375.2	376.5	376.5	379.1	379.1	380.4	380.4
27.5°	364.9	367.5	371.3	373.9	375.2	376.5	377.8	379.1	379.1	379.1
30°	361.0	364.9	368.8	371.3	372.6	373.9	375.2	376.5	377.8	377.8
32.5°	355.8	359.7	363.6	367.5	368.8	370.0	372.6	373.9	373.9	373.9
35°	350.6	354.5	358.4	362.3	363.6	364.9	367.5	368.8	370.0	370.0
37.5°	342.8	346.7	350.6	354.5	355.8	358.4	361.0	362.3	362.3	362.3
40°	331.1	337.6	342.8	346.7	348.0	350.6	351.9	354.5	354.5	354.5
42.5°	320.7	325.9	329.8	335.0	336.3	340.2	342.8	344.1	345.4	345.4
45°	309.0	314.2	318.1	322.0	323.3	325.9	328.5	329.8	331.1	332.4
47.5°	297.3	301.2	305.1	309.0	310.3	312.9	315.5	316.8	318.1	318.1
50°	283.1	286.9	290.8	294.7	296.0	298.6	299.9	301.2	302.5	302.5
52.5°	267.5	271.4	275.3	279.2	280.5	281.8	284.4	285.7	286.9	286.9
55°	251.9	255.8	258.4	262.3	263.6	264.9	266.2	268.8	270.1	268.8
57.5°	233.7	237.6	240.2	244.1	245.4	246.7	248.0	249.3	250.6	250.6
60°	214.2	218.1	222.0	224.6	225.9	227.2	228.5	229.8	231.1	231.1
62.5°	194.8	198.7	201.3	205.1	206.4	206.4	207.7	209.0	210.3	210.3
65°	175.3	179.2	180.5	184.4	184.4	185.7	187.0	188.3	188.3	188.3
67.5°	154.5	158.4	159.7	162.3	162.3	163.6	164.9	166.2	166.2	166.2
70°	135.0	136.3	138.9	140.2	141.5	141.5	142.8	144.1	145.4	144.1
72.5°	114.3	115.6	118.2	119.5	119.5	120.8	120.8	122.1	123.3	123.3
75°	93.5	96.1	97.4	98.7	100.0	100.0	101.3	102.6	102.6	102.6
77.5°	74.0	76.6	77.9	79.2	80.5	80.5	81.8	81.8	83.1	81.8
80°	57.1	58.4	59.7	61.0	62.3	62.3	63.6	64.9	64.9	64.9
82.5°	41.5	42.8	45.4	46.7	46.7	46.7	49.3	49.3	50.6	49.3
85°	28.6	29.9	32.5	33.8	35.1	35.1	35.1	36.4	37.7	36.4
87.5°	18.2	20.8	22.1	23.4	23.4	23.4	24.7	26.0	26.0	26.0
90°	10.4	10.4	11.7	13.0	13.0	14.3	14.3	15.6	15.6	15.6
92.5°	10.4	11.7	11.7	11.7	13.0	13.0	13.0	14.3	14.3	14.3
95°	88.3	63.6	36.4	28.6	24.7	24.7	23.4	24.7	23.4	23.4
97.5°	267.5	289.5	299.9	314.2	322.0	320.7	315.5	320.7	316.8	320.7
100°	380.4	401.2	416.8	420.7	428.5	432.4	446.7	457.0	462.2	468.7
102.5°	472.6	497.3	515.5	525.9	533.6	538.8	555.7	571.3	579.1	584.3
105°	557.0	583.0	605.1	615.4	624.5	629.7	647.9	666.1	677.8	684.3
107.5°	624.5	654.4	677.8	693.4	702.4	711.5	733.6	751.8	766.1	772.6
110°	685.6	715.4	740.1	758.3	768.7	777.8	802.4	823.2	838.8	846.6



TEST NUMBER: P395419

CATALOG NUMBER: I3-CL-50L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	736.2	768.7	793.3	812.8	823.2	836.2	859.6	882.9	898.5	907.6
115°	777.8	811.5	837.5	858.3	869.9	881.6	908.9	932.3	947.8	954.3
117.5°	812.8	846.6	873.8	894.6	907.6	920.6	947.8	968.6	985.5	990.7
120°	841.4	875.1	902.4	925.8	938.8	950.4	976.4	998.5	1014.1	1018.0
122.5°	860.8	895.9	924.5	950.4	962.1	973.8	998.5	1020.6	1034.8	1038.7
125°	875.1	911.5	940.1	967.3	979.0	990.7	1014.1	1036.1	1047.8	1053.0
127.5°	884.2	920.6	951.7	977.7	990.7	1001.1	1024.5	1043.9	1055.6	1059.5
130°	886.8	924.5	955.6	982.9	994.6	1005.0	1027.0	1046.5	1056.9	1059.5
132.5°	886.8	923.2	955.6	981.6	993.3	1003.7	1024.5	1042.6	1053.0	1055.6
135°	881.6	916.7	949.1	975.1	986.8	997.2	1018.0	1033.5	1043.9	1045.2
137.5°	872.5	906.3	937.5	963.4	975.1	985.5	1003.7	1020.6	1029.6	1032.2
140°	860.8	892.0	923.2	947.8	959.5	968.6	986.8	1001.1	1010.2	1012.8
142.5°	845.3	876.4	905.0	929.7	938.8	949.1	964.7	979.0	986.8	989.4
145°	828.4	858.3	884.2	906.3	916.7	925.8	940.1	953.0	960.8	963.4
147.5°	806.3	836.2	860.8	881.6	890.7	899.8	912.8	924.5	932.3	934.9
150°	779.0	806.3	832.3	851.8	860.8	869.9	882.9	893.3	901.1	902.4
152.5°	751.8	777.8	799.8	819.3	828.4	837.5	849.2	859.6	868.6	868.6
155°	725.8	747.9	768.7	785.5	793.3	801.1	812.8	821.9	829.7	829.7
157.5°	698.5	719.3	736.2	751.8	758.3	764.8	775.2	782.9	789.4	788.1
160°	672.6	688.2	703.7	716.7	723.2	728.4	736.2	742.7	749.2	747.9
162.5°	644.0	658.3	671.3	680.4	685.6	689.5	697.2	703.7	707.6	707.6
165°	611.6	624.5	636.2	645.3	650.5	653.1	659.6	663.5	667.4	667.4
167.5°	577.8	588.2	598.6	606.4	611.6	614.2	620.6	623.2	628.4	627.1
170°	544.0	551.8	559.6	566.1	568.7	571.3	576.5	579.1	581.7	581.7
172.5°	516.8	519.4	523.3	528.5	528.5	529.8	532.4	533.6	534.9	534.9
175°	501.2	502.5	502.5	502.5	502.5	502.5	503.8	502.5	503.8	502.5
177.5°	494.7	494.7	493.4	493.4	492.1	493.4	492.1	490.8	490.8	489.5
180°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1

(END OF REPORT)