

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: P395421

Luminaire Tested: **I3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395421
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-50L83050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4617.4 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

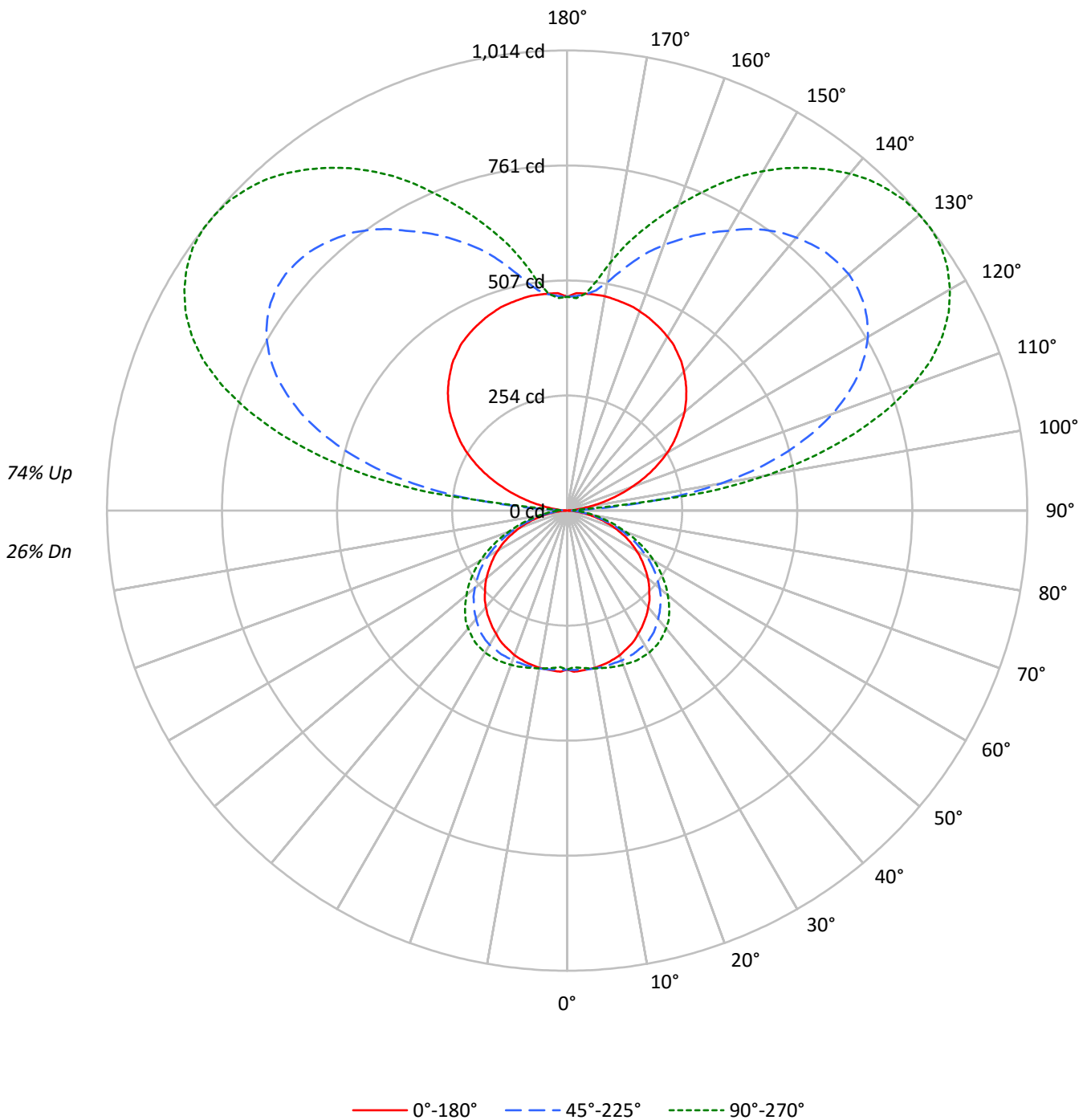
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395421

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395421

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

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°	1926	1926	1926
5°	1946	1896	1865
10°	1948	1881	1860
15°	1951	1875	1869
20°	1954	1875	1886
25°	1951	1877	1911
30°	1940	1880	1925
35°	1935	1870	1926
40°	1928	1830	1902
45°	1909	1785	1854
50°	1891	1727	1772
55°	1852	1640	1670
60°	1806	1524	1542
65°	1733	1369	1367
70°	1609	1166	1157
75°	1389	928	929
80°	1076	659	680
85°	632	408	456



TEST NUMBER: P395421

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	0.7
10°-20°	99.6	2.2
20°-30°	159.7	3.5
30°-40°	204.2	4.4
40°-50°	222.7	4.8
50°-60°	208.6	4.5
60°-70°	161.9	3.5
70°-80°	92.8	2.0
80°-90°	29.7	0.6
90°-100°	119.1	2.6
100°-110°	462.9	10.0
110°-120°	630.3	13.6
120°-130°	654.2	14.2
130°-140°	580.3	12.6
140°-150°	450.3	9.8
150°-160°	300.5	6.5
160°-170°	160.2	3.5
170°-180°	46.9	1.0
0°-30°	292.8	6.3
0°-40°	497.0	10.8
0°-60°	928.4	20.1
0°-90°	1212.7	26.3
90°-120°	1212.3	26.3
90°-150°	2897.1	62.7
90°-180°	3405.0	73.7
0°-180°	4617.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	354	350	352	350	348	34
15°	347	345	353	358	358	98
25°	328	330	348	360	364	151
35°	297	303	330	348	354	186
45°	256	267	291	309	318	198
55°	205	216	236	252	257	183
65°	145	152	165	176	180	143
75°	76	80	87	96	98	81
85°	15	17	26	34	35	18
90°	1	4	9	12	15	2
95°	15	84	116	24	22	20
105°	98	297	503	598	655	105
115°	205	458	708	832	913	202
125°	297	540	798	937	1008	266
135°	372	569	805	944	1000	286
145°	424	569	755	877	922	265
155°	456	538	670	759	794	211
165°	475	494	569	622	639	134
175°	480	477	478	481	481	46
180°	471	471	471	471	471	



TEST NUMBER: P395421

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4
2.5°	355.4	354.1	354.1	351.6	351.6	350.4	350.4	350.4	350.4	350.4	351.6
5°	354.1	354.1	352.9	351.6	351.6	350.4	350.4	350.4	350.4	350.4	351.6
7.5°	352.9	352.9	351.6	350.4	350.4	350.4	350.4	350.4	350.4	350.4	352.9
10°	351.6	351.6	350.4	349.1	349.1	349.1	349.1	350.4	350.4	350.4	352.9
12.5°	349.1	347.9	347.9	346.7	346.7	346.7	347.9	347.9	349.1	350.4	352.9
15°	346.7	346.7	345.4	344.2	345.4	345.4	345.4	346.7	347.9	349.1	352.9
17.5°	342.9	342.9	341.7	341.7	341.7	342.9	342.9	344.2	346.7	349.1	351.6
20°	339.2	338.0	338.0	338.0	339.2	339.2	340.4	342.9	344.2	347.9	351.6
22.5°	333.0	334.2	333.0	333.0	334.2	335.5	336.7	339.2	341.7	345.4	349.1
25°	328.0	328.0	328.0	328.0	330.5	330.5	333.0	335.5	339.2	342.9	347.9
27.5°	321.8	321.8	321.8	323.1	324.3	325.5	326.8	330.5	334.2	339.2	344.2
30°	313.1	313.1	313.1	313.1	316.8	318.1	320.6	325.5	329.3	335.5	341.7
32.5°	305.7	305.7	305.7	306.9	309.4	310.6	313.1	319.3	324.3	330.5	336.7
35°	297.0	297.0	298.2	298.2	301.9	303.2	305.7	310.6	315.6	323.1	330.5
37.5°	288.3	288.3	289.5	290.7	293.2	295.7	298.2	303.2	308.1	314.4	321.8
40°	278.3	278.3	279.6	280.8	284.5	287.0	289.5	294.5	299.4	305.7	311.9
42.5°	268.4	268.4	269.6	270.9	274.6	277.1	279.6	285.8	290.7	297.0	301.9
45°	256.0	257.2	258.4	260.9	264.7	267.1	269.6	274.6	280.8	285.8	290.7
47.5°	244.8	246.0	247.3	249.7	253.5	256.0	258.4	263.4	268.4	273.4	279.6
50°	232.3	233.6	234.8	237.3	241.0	243.5	246.0	251.0	256.0	259.7	265.9
52.5°	218.7	219.9	221.2	223.7	228.6	229.9	232.3	237.3	241.0	246.0	251.0
55°	205.0	206.3	207.5	210.0	213.7	216.2	217.4	222.4	226.1	231.1	236.1
57.5°	191.3	192.6	193.8	196.3	198.8	201.3	202.5	206.3	211.2	215.0	219.9
60°	176.4	177.7	178.9	180.2	183.9	185.1	186.4	190.1	193.8	198.8	202.5
62.5°	161.5	161.5	162.8	164.0	167.7	169.0	170.2	172.7	177.7	180.2	183.9
65°	145.4	145.4	146.6	147.9	150.3	151.6	152.8	155.3	159.0	161.5	165.3
67.5°	128.0	128.0	129.2	130.5	132.9	134.2	134.2	137.9	140.4	142.9	145.4
70°	111.8	111.8	113.1	113.1	114.3	115.6	116.8	119.3	120.5	124.3	125.5
72.5°	94.4	94.4	94.4	94.4	96.9	96.9	98.2	100.6	101.9	104.4	106.9
75°	75.8	75.8	77.0	77.0	78.3	79.5	80.8	82.0	84.5	85.7	87.0
77.5°	59.6	58.4	59.6	60.9	62.1	62.1	63.4	64.6	65.9	68.3	69.6
80°	42.2	42.2	42.2	43.5	44.7	44.7	46.0	47.2	48.5	50.9	52.2
82.5°	27.3	27.3	28.6	28.6	29.8	31.1	31.1	32.3	33.5	36.0	37.3
85°	14.9	14.9	14.9	16.2	17.4	17.4	18.6	19.9	22.4	23.6	26.1
87.5°	5.0	5.0	6.2	7.5	8.7	8.7	9.9	11.2	12.4	14.9	16.2
90°	1.2	1.2	1.2	2.5	2.5	3.7	3.7	5.0	6.2	7.5	8.7
92.5°	5.0	8.7	13.7	19.9	18.6	19.9	13.7	8.7	8.7	8.7	9.9
95°	14.9	22.4	36.0	57.2	74.6	84.5	93.2	101.9	119.3	120.5	115.6
97.5°	29.8	41.0	65.9	93.2	124.3	140.4	152.8	178.9	206.3	223.7	244.8
100°	49.7	65.9	98.2	135.4	171.5	192.6	212.5	249.7	283.3	313.1	345.4
102.5°	73.3	91.9	131.7	177.7	222.4	246.0	267.1	310.6	356.6	396.4	431.1
105°	98.2	119.3	166.5	218.7	269.6	297.0	323.1	370.3	418.7	462.2	503.2
107.5°	125.5	147.9	198.8	257.2	314.4	345.4	374.0	424.9	475.9	523.1	566.6
110°	151.6	176.4	229.9	293.2	357.8	388.9	417.5	473.4	526.8	576.5	622.5



TEST NUMBER: P395421

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	178.9	205.0	258.4	328.0	393.9	426.2	456.0	515.6	571.6	622.5	668.5
115°	205.0	229.9	285.8	357.8	424.9	458.5	490.8	551.7	610.1	661.0	708.2
117.5°	229.9	253.5	310.6	382.7	452.3	485.8	518.1	581.5	639.9	693.3	739.3
120°	254.7	275.8	338.0	403.8	474.6	508.2	541.7	605.1	664.7	718.2	765.4
122.5°	277.1	297.0	357.8	422.5	492.0	526.8	559.1	623.7	684.6	738.0	784.0
125°	297.0	315.6	376.5	437.4	506.9	540.5	574.0	637.4	698.3	750.5	797.7
127.5°	316.8	335.5	390.1	452.3	516.9	551.7	584.0	647.3	707.0	760.4	806.4
130°	338.0	351.6	403.8	465.9	526.8	559.1	592.7	653.6	712.0	764.1	810.1
132.5°	355.4	367.8	417.5	477.1	534.3	565.3	595.2	656.0	714.4	764.1	808.9
135°	371.5	381.4	427.4	487.1	540.5	569.1	597.6	654.8	712.0	761.7	805.1
137.5°	386.4	396.4	436.1	494.5	545.5	570.3	597.6	651.1	705.7	755.4	796.4
140°	400.1	407.5	443.6	498.2	547.9	571.6	595.2	644.9	695.8	744.3	785.3
142.5°	413.8	420.0	449.8	500.7	549.2	571.6	593.9	637.4	684.6	731.8	772.8
145°	423.7	429.9	454.8	502.0	547.9	569.1	588.9	629.9	672.2	715.7	755.4
147.5°	434.9	439.8	459.7	499.5	544.2	564.1	582.7	620.0	658.5	698.3	735.6
150°	442.3	447.3	462.2	497.0	538.0	556.6	575.3	610.1	644.9	679.6	712.0
152.5°	449.8	453.5	465.9	493.3	530.5	547.9	565.3	598.9	631.2	662.3	690.8
155°	456.0	459.7	468.4	490.8	521.9	538.0	554.2	586.5	616.3	643.6	669.7
157.5°	462.2	464.7	470.9	487.1	511.9	526.8	541.7	570.3	597.6	625.0	646.1
160°	467.2	468.4	473.4	485.8	503.2	514.4	528.1	554.2	579.0	602.6	622.5
162.5°	472.2	472.2	475.9	483.3	495.8	503.2	513.2	535.5	557.9	579.0	597.6
165°	474.6	474.6	477.1	482.1	489.5	494.5	500.7	515.6	533.0	551.7	569.1
167.5°	477.1	477.1	478.4	480.8	485.8	488.3	490.8	500.7	511.9	525.6	539.2
170°	479.6	478.4	478.4	480.8	482.1	483.3	484.6	489.5	494.5	503.2	510.7
172.5°	479.6	478.4	478.4	479.6	479.6	479.6	479.6	480.8	482.1	487.1	489.5
175°	479.6	478.4	478.4	478.4	478.4	477.1	477.1	477.1	477.1	477.1	478.4
177.5°	479.6	478.4	477.1	477.1	475.9	475.9	474.6	474.6	473.4	473.4	473.4
180°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9



TEST NUMBER: P395421

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4
2.5°	351.6	351.6	350.4	350.4	349.1	349.1	347.9	346.7	345.4	345.4
5°	352.9	351.6	350.4	350.4	350.4	349.1	349.1	349.1	347.9	347.9
7.5°	352.9	352.9	352.9	351.6	351.6	351.6	351.6	351.6	350.4	350.4
10°	354.1	354.1	354.1	354.1	354.1	354.1	354.1	352.9	352.9	352.9
12.5°	354.1	354.1	354.1	355.4	355.4	355.4	355.4	355.4	355.4	355.4
15°	355.4	355.4	356.6	356.6	357.8	357.8	359.1	359.1	359.1	357.8
17.5°	354.1	355.4	356.6	357.8	359.1	359.1	360.3	360.3	360.3	360.3
20°	354.1	356.6	357.8	359.1	360.3	360.3	361.6	362.8	362.8	361.6
22.5°	352.9	355.4	356.6	359.1	360.3	360.3	362.8	362.8	362.8	362.8
25°	351.6	354.1	356.6	359.1	360.3	360.3	362.8	362.8	364.1	364.1
27.5°	349.1	351.6	355.4	357.8	359.1	360.3	361.6	362.8	362.8	362.8
30°	345.4	349.1	352.9	355.4	356.6	357.8	359.1	360.3	361.6	361.6
32.5°	340.4	344.2	347.9	351.6	352.9	354.1	356.6	357.8	357.8	357.8
35°	335.5	339.2	342.9	346.7	347.9	349.1	351.6	352.9	354.1	354.1
37.5°	328.0	331.7	335.5	339.2	340.4	342.9	345.4	346.7	346.7	346.7
40°	316.8	323.1	328.0	331.7	333.0	335.5	336.7	339.2	339.2	339.2
42.5°	306.9	311.9	315.6	320.6	321.8	325.5	328.0	329.3	330.5	330.5
45°	295.7	300.7	304.4	308.1	309.4	311.9	314.4	315.6	316.8	318.1
47.5°	284.5	288.3	292.0	295.7	297.0	299.4	301.9	303.2	304.4	304.4
50°	270.9	274.6	278.3	282.0	283.3	285.8	287.0	288.3	289.5	289.5
52.5°	256.0	259.7	263.4	267.1	268.4	269.6	272.1	273.4	274.6	274.6
55°	241.0	244.8	247.3	251.0	252.2	253.5	254.7	257.2	258.4	257.2
57.5°	223.7	227.4	229.9	233.6	234.8	236.1	237.3	238.6	239.8	239.8
60°	205.0	208.7	212.5	215.0	216.2	217.4	218.7	219.9	221.2	221.2
62.5°	186.4	190.1	192.6	196.3	197.6	197.6	198.8	200.0	201.3	201.3
65°	167.7	171.5	172.7	176.4	176.4	177.7	178.9	180.2	180.2	180.2
67.5°	147.9	151.6	152.8	155.3	155.3	156.6	157.8	159.0	159.0	159.0
70°	129.2	130.5	132.9	134.2	135.4	135.4	136.7	137.9	139.2	137.9
72.5°	109.3	110.6	113.1	114.3	114.3	115.6	115.6	116.8	118.0	118.0
75°	89.5	91.9	93.2	94.4	95.7	95.7	96.9	98.2	98.2	98.2
77.5°	70.8	73.3	74.6	75.8	77.0	77.0	78.3	78.3	79.5	78.3
80°	54.7	55.9	57.2	58.4	59.6	59.6	60.9	62.1	62.1	62.1
82.5°	39.8	41.0	43.5	44.7	44.7	44.7	47.2	47.2	48.5	47.2
85°	27.3	28.6	31.1	32.3	33.5	33.5	33.5	34.8	36.0	34.8
87.5°	17.4	19.9	21.1	22.4	22.4	22.4	23.6	24.9	24.9	24.9
90°	9.9	9.9	11.2	12.4	12.4	13.7	13.7	14.9	14.9	14.9
92.5°	9.9	11.2	11.2	11.2	12.4	12.4	12.4	13.7	13.7	13.7
95°	84.5	60.9	34.8	27.3	23.6	23.6	22.4	23.6	22.4	22.4
97.5°	256.0	277.1	287.0	300.7	308.1	306.9	301.9	306.9	303.2	306.9
100°	364.1	383.9	398.8	402.6	410.0	413.8	427.4	437.4	442.3	448.5
102.5°	452.3	475.9	493.3	503.2	510.7	515.6	531.8	546.7	554.2	559.1
105°	533.0	557.9	579.0	588.9	597.6	602.6	620.0	637.4	648.6	654.8
107.5°	597.6	626.2	648.6	663.5	672.2	680.9	702.0	719.4	733.1	739.3
110°	656.0	684.6	708.2	725.6	735.6	744.3	767.9	787.7	802.7	810.1



TEST NUMBER: P395421

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	704.5	735.6	759.2	777.8	787.7	800.2	822.5	844.9	859.8	868.5
115°	744.3	776.6	801.4	821.3	832.5	843.7	869.8	892.1	907.0	913.2
117.5°	777.8	810.1	836.2	856.1	868.5	880.9	907.0	926.9	943.1	948.0
120°	805.1	837.4	863.5	885.9	898.3	909.5	934.4	955.5	970.4	974.1
122.5°	823.8	857.3	884.7	909.5	920.7	931.9	955.5	976.6	990.3	994.0
125°	837.4	872.2	899.6	925.7	936.8	948.0	970.4	991.5	1002.7	1007.7
127.5°	846.1	880.9	910.8	935.6	948.0	958.0	980.3	999.0	1010.2	1013.9
130°	848.6	884.7	914.5	940.6	951.8	961.7	982.8	1001.5	1011.4	1013.9
132.5°	848.6	883.4	914.5	939.3	950.5	960.5	980.3	997.7	1007.7	1010.2
135°	843.7	877.2	908.3	933.1	944.3	954.2	974.1	989.0	999.0	1000.2
137.5°	835.0	867.3	897.1	921.9	933.1	943.1	960.5	976.6	985.3	987.8
140°	823.8	853.6	883.4	907.0	918.2	926.9	944.3	958.0	966.7	969.2
142.5°	808.9	838.7	866.0	889.6	898.3	908.3	923.2	936.8	944.3	946.8
145°	792.7	821.3	846.1	867.3	877.2	885.9	899.6	912.0	919.5	921.9
147.5°	771.6	800.2	823.8	843.7	852.4	861.1	873.5	884.7	892.1	894.6
150°	745.5	771.6	796.4	815.1	823.8	832.5	844.9	854.8	862.3	863.5
152.5°	719.4	744.3	765.4	784.0	792.7	801.4	812.6	822.5	831.2	831.2
155°	694.6	715.7	735.6	751.7	759.2	766.6	777.8	786.5	794.0	794.0
157.5°	668.5	688.3	704.5	719.4	725.6	731.8	741.8	749.2	755.4	754.2
160°	643.6	658.5	673.4	685.9	692.1	697.0	704.5	710.7	716.9	715.7
162.5°	616.3	629.9	642.4	651.1	656.0	659.8	667.2	673.4	677.2	677.2
165°	585.2	597.6	608.8	617.5	622.5	625.0	631.2	634.9	638.6	638.6
167.5°	552.9	562.9	572.8	580.2	585.2	587.7	593.9	596.4	601.4	600.1
170°	520.6	528.1	535.5	541.7	544.2	546.7	551.7	554.2	556.6	556.6
172.5°	494.5	497.0	500.7	505.7	505.7	506.9	509.4	510.7	511.9	511.9
175°	479.6	480.8	480.8	480.8	480.8	480.8	482.1	480.8	482.1	480.8
177.5°	473.4	473.4	472.2	472.2	470.9	472.2	470.9	469.7	469.7	468.4
180°	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9	470.9

(END OF REPORT)