

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: P395422

Luminaire Tested: **I3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395422
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 (4000K)
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4862.1 lumens
Efficiency: N/A
Efficacy: 133.9 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

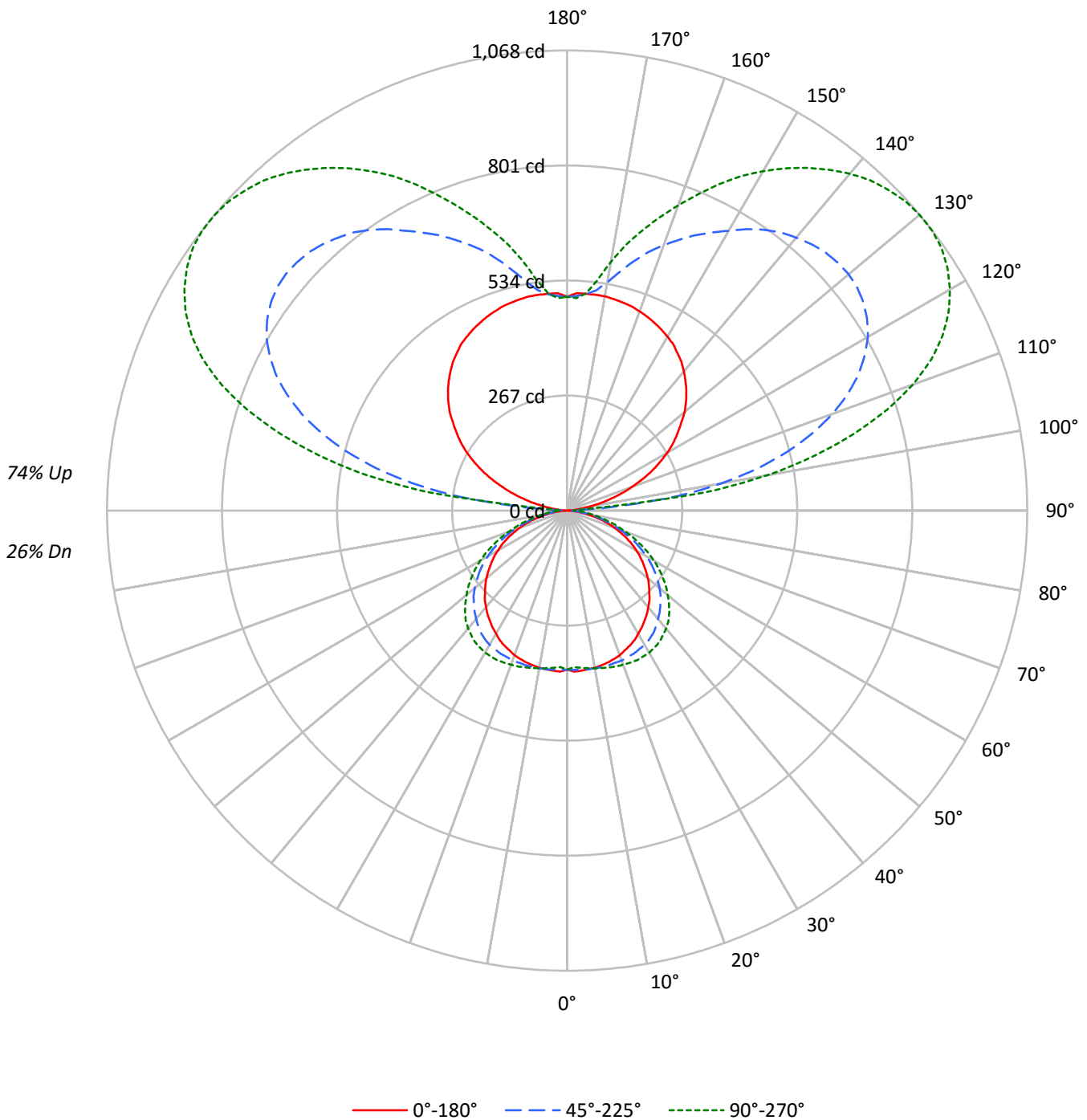
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395422

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395422

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

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°	2028	2028	2028
5°	2050	1997	1964
10°	2051	1981	1959
15°	2054	1974	1968
20°	2057	1975	1986
25°	2054	1977	2012
30°	2042	1980	2026
35°	2037	1969	2029
40°	2031	1927	2003
45°	2009	1880	1952
50°	1991	1818	1865
55°	1950	1727	1758
60°	1902	1606	1623
65°	1825	1441	1439
70°	1695	1227	1218
75°	1462	977	979
80°	1135	694	716
85°	666	429	480



TEST NUMBER: P395422

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	0.7
10°-20°	104.9	2.2
20°-30°	168.1	3.5
30°-40°	215.1	4.4
40°-50°	234.5	4.8
50°-60°	219.7	4.5
60°-70°	170.5	3.5
70°-80°	97.7	2.0
80°-90°	31.2	0.6
90°-100°	125.4	2.6
100°-110°	487.5	10.0
110°-120°	663.7	13.6
120°-130°	688.9	14.2
130°-140°	611.1	12.6
140°-150°	474.1	9.8
150°-160°	316.4	6.5
160°-170°	168.7	3.5
170°-180°	49.3	1.0
0°-30°	308.3	6.3
0°-40°	523.4	10.8
0°-60°	977.6	20.1
0°-90°	1277.0	26.3
90°-120°	1276.5	26.3
90°-150°	3050.6	62.7
90°-180°	3585.0	73.7
0°-180°	4862.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	369	369	369	369	369	
5°	373	369	370	369	366	35
15°	365	364	372	377	377	103
25°	345	348	366	379	383	159
35°	313	319	348	366	373	196
45°	270	281	306	326	335	208
55°	216	228	249	266	271	193
65°	153	160	174	186	190	151
75°	80	84	92	101	103	85
85°	16	18	28	35	37	19
90°	1	4	9	13	16	2
95°	16	89	122	25	24	21
105°	103	313	530	629	690	110
115°	216	483	746	877	962	213
125°	313	569	840	986	1061	280
135°	391	599	848	994	1053	302
145°	446	599	796	924	971	280
155°	480	566	705	799	836	222
165°	500	521	599	656	672	141
175°	505	502	504	506	506	48
180°	496	496	496	496	496	



TEST NUMBER: P395422

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0
2.5°	374.2	372.9	372.9	370.3	370.3	369.0	369.0	369.0	369.0	369.0	370.3
5°	372.9	372.9	371.6	370.3	370.3	369.0	369.0	369.0	369.0	369.0	370.3
7.5°	371.6	371.6	370.3	369.0	369.0	369.0	369.0	369.0	369.0	369.0	371.6
10°	370.3	370.3	369.0	367.6	367.6	367.6	367.6	369.0	369.0	369.0	371.6
12.5°	367.6	366.3	366.3	365.0	365.0	365.0	366.3	366.3	367.6	369.0	371.6
15°	365.0	365.0	363.7	362.4	363.7	363.7	363.7	365.0	366.3	367.6	371.6
17.5°	361.1	361.1	359.8	359.8	359.8	361.1	361.1	362.4	365.0	367.6	370.3
20°	357.2	355.9	355.9	355.9	357.2	357.2	358.5	361.1	362.4	366.3	370.3
22.5°	350.6	351.9	350.6	350.6	351.9	353.3	354.6	357.2	359.8	363.7	367.6
25°	345.4	345.4	345.4	345.4	348.0	348.0	350.6	353.3	357.2	361.1	366.3
27.5°	338.9	338.9	338.9	340.2	341.5	342.8	344.1	348.0	351.9	357.2	362.4
30°	329.7	329.7	329.7	329.7	333.6	334.9	337.6	342.8	346.7	353.3	359.8
32.5°	321.9	321.9	321.9	323.2	325.8	327.1	329.7	336.2	341.5	348.0	354.6
35°	312.7	312.7	314.0	314.0	317.9	319.2	321.9	327.1	332.3	340.2	348.0
37.5°	303.5	303.5	304.8	306.2	308.8	311.4	314.0	319.2	324.5	331.0	338.9
40°	293.1	293.1	294.4	295.7	299.6	302.2	304.8	310.1	315.3	321.9	328.4
42.5°	282.6	282.6	283.9	285.2	289.1	291.8	294.4	300.9	306.2	312.7	317.9
45°	269.5	270.8	272.1	274.8	278.7	281.3	283.9	289.1	295.7	300.9	306.2
47.5°	257.7	259.1	260.4	263.0	266.9	269.5	272.1	277.4	282.6	287.8	294.4
50°	244.7	246.0	247.3	249.9	253.8	256.4	259.1	264.3	269.5	273.4	280.0
52.5°	230.3	231.6	232.9	235.5	240.7	242.0	244.7	249.9	253.8	259.1	264.3
55°	215.9	217.2	218.5	221.1	225.0	227.7	229.0	234.2	238.1	243.4	248.6
57.5°	201.5	202.8	204.1	206.7	209.3	212.0	213.3	217.2	222.4	226.3	231.6
60°	185.8	187.1	188.4	189.7	193.6	194.9	196.3	200.2	204.1	209.3	213.3
62.5°	170.1	170.1	171.4	172.7	176.6	177.9	179.2	181.9	187.1	189.7	193.6
65°	153.1	153.1	154.4	155.7	158.3	159.6	160.9	163.5	167.5	170.1	174.0
67.5°	134.8	134.8	136.1	137.4	140.0	141.3	141.3	145.2	147.8	150.5	153.1
70°	117.8	117.8	119.1	119.1	120.4	121.7	123.0	125.6	126.9	130.8	132.1
72.5°	99.4	99.4	99.4	99.4	102.1	102.1	103.4	106.0	107.3	109.9	112.5
75°	79.8	79.8	81.1	81.1	82.4	83.7	85.0	86.4	89.0	90.3	91.6
77.5°	62.8	61.5	62.8	64.1	65.4	65.4	66.7	68.0	69.3	72.0	73.3
80°	44.5	44.5	44.5	45.8	47.1	47.1	48.4	49.7	51.0	53.6	55.0
82.5°	28.8	28.8	30.1	30.1	31.4	32.7	32.7	34.0	35.3	37.9	39.3
85°	15.7	15.7	15.7	17.0	18.3	18.3	19.6	20.9	23.6	24.9	27.5
87.5°	5.2	5.2	6.5	7.9	9.2	9.2	10.5	11.8	13.1	15.7	17.0
90°	1.3	1.3	1.3	2.6	2.6	3.9	3.9	5.2	6.5	7.9	9.2
92.5°	5.2	9.2	14.4	20.9	19.6	20.9	14.4	9.2	9.2	9.2	10.5
95°	15.7	23.6	37.9	60.2	78.5	89.0	98.1	107.3	125.6	126.9	121.7
97.5°	31.4	43.2	69.3	98.1	130.8	147.8	160.9	188.4	217.2	235.5	257.7
100°	52.3	69.3	103.4	142.6	180.6	202.8	223.7	263.0	298.3	329.7	363.7
102.5°	77.2	96.8	138.7	187.1	234.2	259.1	281.3	327.1	375.5	417.4	454.0
105°	103.4	125.6	175.3	230.3	283.9	312.7	340.2	389.9	440.9	486.7	529.9
107.5°	132.1	155.7	209.3	270.8	331.0	363.7	393.8	447.5	501.1	550.8	596.6
110°	159.6	185.8	242.0	308.8	376.8	409.5	439.6	498.5	554.7	607.1	655.5



TEST NUMBER: P395422

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	188.4	215.9	272.1	345.4	414.7	448.8	480.2	543.0	601.8	655.5	703.9
115°	215.9	242.0	300.9	376.8	447.5	482.8	516.8	580.9	642.4	696.0	745.8
117.5°	242.0	266.9	327.1	403.0	476.2	511.6	545.6	612.3	673.8	730.1	778.5
120°	268.2	290.5	355.9	425.2	499.8	535.1	570.4	637.2	700.0	756.2	805.9
122.5°	291.8	312.7	376.8	444.8	518.1	554.7	588.8	656.8	720.9	777.2	825.6
125°	312.7	332.3	396.4	460.5	533.8	569.1	604.5	671.2	735.3	790.2	840.0
127.5°	333.6	353.3	410.8	476.2	544.3	580.9	614.9	681.7	744.5	800.7	849.1
130°	355.9	370.3	425.2	490.6	554.7	588.8	624.1	688.2	749.7	804.6	853.0
132.5°	374.2	387.3	439.6	502.4	562.6	595.3	626.7	690.8	752.3	804.6	851.7
135°	391.2	401.7	450.1	512.9	569.1	599.2	629.3	689.5	749.7	802.0	847.8
137.5°	406.9	417.4	459.2	520.7	574.4	600.5	629.3	685.6	743.1	795.5	838.7
140°	421.3	429.1	467.1	524.7	577.0	601.8	626.7	679.0	732.7	783.7	826.9
142.5°	435.7	442.2	473.6	527.3	578.3	601.8	625.4	671.2	720.9	770.6	813.8
145°	446.1	452.7	478.9	528.6	577.0	599.2	620.2	663.3	707.8	753.6	795.5
147.5°	457.9	463.2	484.1	526.0	573.1	594.0	613.6	652.9	693.4	735.3	774.5
150°	465.8	471.0	486.7	523.3	566.5	586.1	605.8	642.4	679.0	715.7	749.7
152.5°	473.6	477.5	490.6	519.4	558.7	577.0	595.3	630.6	664.6	697.4	727.4
155°	480.2	484.1	493.3	516.8	549.5	566.5	583.5	617.5	648.9	677.7	705.2
157.5°	486.7	489.3	495.9	512.9	539.0	554.7	570.4	600.5	629.3	658.1	680.3
160°	491.9	493.3	498.5	511.6	529.9	541.7	556.1	583.5	609.7	634.6	655.5
162.5°	497.2	497.2	501.1	509.0	522.0	529.9	540.4	563.9	587.5	609.7	629.3
165°	499.8	499.8	502.4	507.6	515.5	520.7	527.3	543.0	561.3	580.9	599.2
167.5°	502.4	502.4	503.7	506.3	511.6	514.2	516.8	527.3	539.0	553.4	567.8
170°	505.0	503.7	503.7	506.3	507.6	509.0	510.3	515.5	520.7	529.9	537.7
172.5°	505.0	503.7	503.7	505.0	505.0	505.0	505.0	506.3	507.6	512.9	515.5
175°	505.0	503.7	503.7	503.7	503.7	502.4	502.4	502.4	502.4	502.4	503.7
177.5°	505.0	503.7	502.4	502.4	501.1	501.1	499.8	499.8	498.5	498.5	498.5
180°	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9



TEST NUMBER: P395422

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0
2.5°	370.3	370.3	369.0	369.0	367.6	367.6	366.3	365.0	363.7	363.7
5°	371.6	370.3	369.0	369.0	369.0	367.6	367.6	367.6	366.3	366.3
7.5°	371.6	371.6	371.6	370.3	370.3	370.3	370.3	370.3	369.0	369.0
10°	372.9	372.9	372.9	372.9	372.9	372.9	372.9	371.6	371.6	371.6
12.5°	372.9	372.9	372.9	374.2	374.2	374.2	374.2	374.2	374.2	374.2
15°	374.2	374.2	375.5	375.5	376.8	376.8	378.1	378.1	378.1	376.8
17.5°	372.9	374.2	375.5	376.8	378.1	378.1	379.4	379.4	379.4	379.4
20°	372.9	375.5	376.8	378.1	379.4	379.4	380.7	382.0	382.0	380.7
22.5°	371.6	374.2	375.5	378.1	379.4	379.4	382.0	382.0	382.0	382.0
25°	370.3	372.9	375.5	378.1	379.4	379.4	382.0	382.0	383.3	383.3
27.5°	367.6	370.3	374.2	376.8	378.1	379.4	380.7	382.0	382.0	382.0
30°	363.7	367.6	371.6	374.2	375.5	376.8	378.1	379.4	380.7	380.7
32.5°	358.5	362.4	366.3	370.3	371.6	372.9	375.5	376.8	376.8	376.8
35°	353.3	357.2	361.1	365.0	366.3	367.6	370.3	371.6	372.9	372.9
37.5°	345.4	349.3	353.3	357.2	358.5	361.1	363.7	365.0	365.0	365.0
40°	333.6	340.2	345.4	349.3	350.6	353.3	354.6	357.2	357.2	357.2
42.5°	323.2	328.4	332.3	337.6	338.9	342.8	345.4	346.7	348.0	348.0
45°	311.4	316.6	320.5	324.5	325.8	328.4	331.0	332.3	333.6	334.9
47.5°	299.6	303.5	307.5	311.4	312.7	315.3	317.9	319.2	320.5	320.5
50°	285.2	289.1	293.1	297.0	298.3	300.9	302.2	303.5	304.8	304.8
52.5°	269.5	273.4	277.4	281.3	282.6	283.9	286.5	287.8	289.1	289.1
55°	253.8	257.7	260.4	264.3	265.6	266.9	268.2	270.8	272.1	270.8
57.5°	235.5	239.4	242.0	246.0	247.3	248.6	249.9	251.2	252.5	252.5
60°	215.9	219.8	223.7	226.3	227.7	229.0	230.3	231.6	232.9	232.9
62.5°	196.3	200.2	202.8	206.7	208.0	208.0	209.3	210.6	212.0	212.0
65°	176.6	180.6	181.9	185.8	185.8	187.1	188.4	189.7	189.7	189.7
67.5°	155.7	159.6	160.9	163.5	163.5	164.9	166.2	167.5	167.5	167.5
70°	136.1	137.4	140.0	141.3	142.6	142.6	143.9	145.2	146.5	145.2
72.5°	115.1	116.4	119.1	120.4	120.4	121.7	121.7	123.0	124.3	124.3
75°	94.2	96.8	98.1	99.4	100.7	100.7	102.1	103.4	103.4	103.4
77.5°	74.6	77.2	78.5	79.8	81.1	81.1	82.4	82.4	83.7	82.4
80°	57.6	58.9	60.2	61.5	62.8	62.8	64.1	65.4	65.4	65.4
82.5°	41.9	43.2	45.8	47.1	47.1	47.1	49.7	49.7	51.0	49.7
85°	28.8	30.1	32.7	34.0	35.3	35.3	35.3	36.6	37.9	36.6
87.5°	18.3	20.9	22.2	23.6	23.6	23.6	24.9	26.2	26.2	26.2
90°	10.5	10.5	11.8	13.1	13.1	14.4	14.4	15.7	15.7	15.7
92.5°	10.5	11.8	11.8	11.8	13.1	13.1	13.1	14.4	14.4	14.4
95°	89.0	64.1	36.6	28.8	24.9	24.9	23.6	24.9	23.6	23.6
97.5°	269.5	291.8	302.2	316.6	324.5	323.2	317.9	323.2	319.2	323.2
100°	383.3	404.3	420.0	423.9	431.8	435.7	450.1	460.5	465.8	472.3
102.5°	476.2	501.1	519.4	529.9	537.7	543.0	560.0	575.7	583.5	588.8
105°	561.3	587.5	609.7	620.2	629.3	634.6	652.9	671.2	683.0	689.5
107.5°	629.3	659.4	683.0	698.7	707.8	717.0	739.2	757.5	771.9	778.5
110°	690.8	720.9	745.8	764.1	774.5	783.7	808.6	829.5	845.2	853.0



TEST NUMBER: P395422

CATALOG NUMBER: I3-CL-50L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	741.8	774.5	799.4	819.0	829.5	842.6	866.1	889.7	905.4	914.5
115°	783.7	817.7	843.9	864.8	876.6	888.4	915.8	939.4	955.1	961.6
117.5°	819.0	853.0	880.5	901.5	914.5	927.6	955.1	976.0	993.0	998.3
120°	847.8	881.8	909.3	932.9	945.9	957.7	983.9	1006.1	1021.8	1025.8
122.5°	867.4	902.8	931.5	957.7	969.5	981.3	1006.1	1028.4	1042.8	1046.7
125°	881.8	918.5	947.2	974.7	986.5	998.3	1021.8	1044.1	1055.8	1061.1
127.5°	891.0	927.6	959.0	985.2	998.3	1008.7	1032.3	1051.9	1063.7	1067.6
130°	893.6	931.5	962.9	990.4	1002.2	1012.7	1034.9	1054.5	1065.0	1067.6
132.5°	893.6	930.2	962.9	989.1	1000.9	1011.4	1032.3	1050.6	1061.1	1063.7
135°	888.4	923.7	956.4	982.6	994.4	1004.8	1025.8	1041.5	1051.9	1053.2
137.5°	879.2	913.2	944.6	970.8	982.6	993.0	1011.4	1028.4	1037.5	1040.1
140°	867.4	898.8	930.2	955.1	966.9	976.0	994.4	1008.7	1017.9	1020.5
142.5°	851.7	883.1	911.9	936.8	945.9	956.4	972.1	986.5	994.4	997.0
145°	834.7	864.8	891.0	913.2	923.7	932.9	947.2	960.3	968.2	970.8
147.5°	812.5	842.6	867.4	888.4	897.5	906.7	919.8	931.5	939.4	942.0
150°	785.0	812.5	838.7	858.3	867.4	876.6	889.7	900.1	908.0	909.3
152.5°	757.5	783.7	805.9	825.6	834.7	843.9	855.7	866.1	875.3	875.3
155°	731.4	753.6	774.5	791.6	799.4	807.3	819.0	828.2	836.0	836.0
157.5°	703.9	724.8	741.8	757.5	764.1	770.6	781.1	788.9	795.5	794.2
160°	677.7	693.4	709.1	722.2	728.8	734.0	741.8	748.4	754.9	753.6
162.5°	648.9	663.3	676.4	685.6	690.8	694.7	702.6	709.1	713.1	713.1
165°	616.2	629.3	641.1	650.3	655.5	658.1	664.6	668.6	672.5	672.5
167.5°	582.2	592.7	603.2	611.0	616.2	618.9	625.4	628.0	633.2	631.9
170°	548.2	556.1	563.9	570.4	573.1	575.7	580.9	583.5	586.1	586.1
172.5°	520.7	523.3	527.3	532.5	532.5	533.8	536.4	537.7	539.0	539.0
175°	505.0	506.3	506.3	506.3	506.3	506.3	507.6	506.3	507.6	506.3
177.5°	498.5	498.5	497.2	497.2	495.9	497.2	495.9	494.6	494.6	493.3
180°	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9	495.9

(END OF REPORT)