

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: P395579

Luminaire Tested: **I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, FROSTED TOP COVER
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4837.7 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

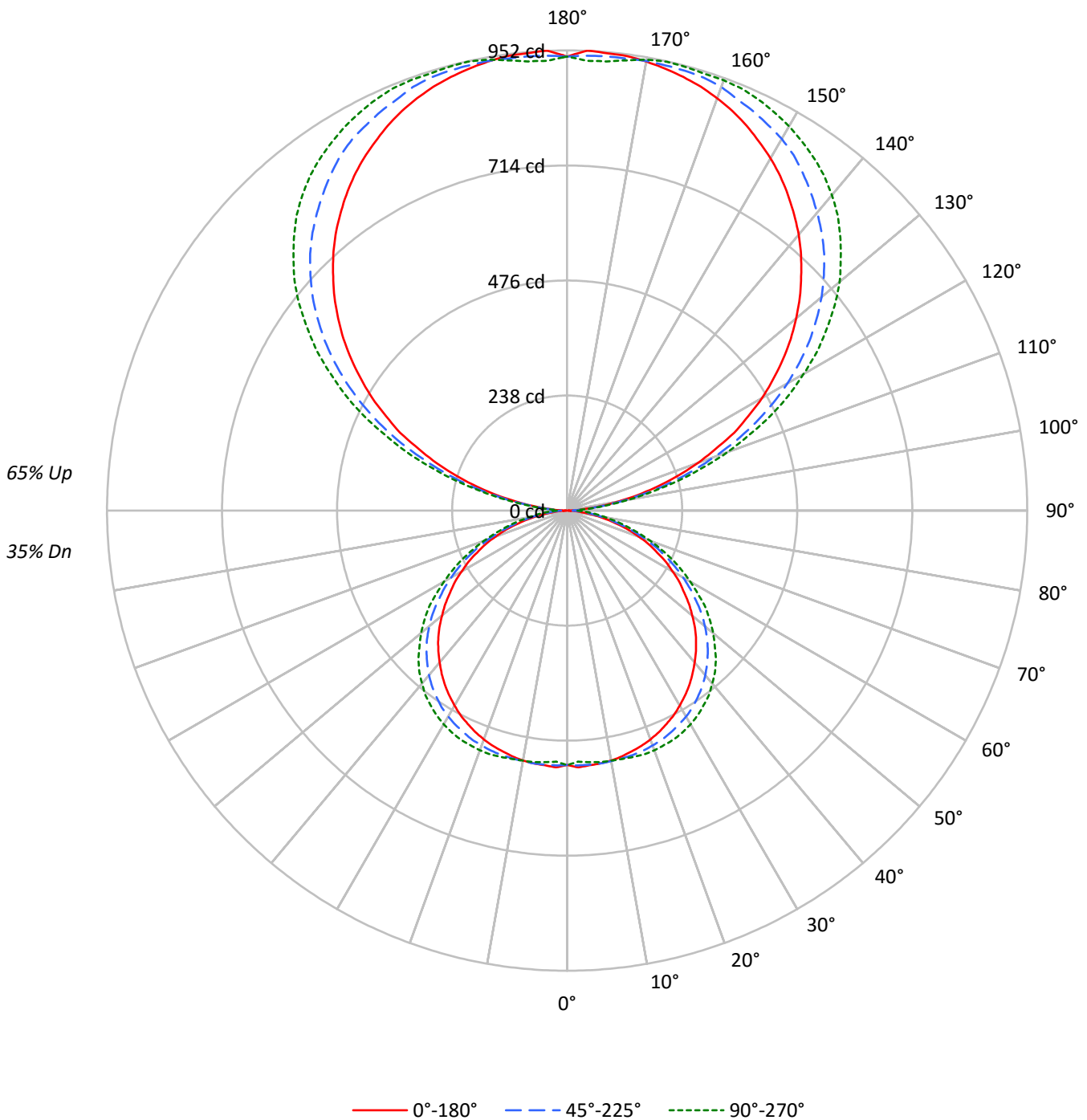
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395579

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395579

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2893	2893	2893
5°	2908	2845	2801
10°	2908	2806	2767
15°	2902	2782	2757
20°	2902	2758	2753
25°	2895	2734	2742
30°	2885	2708	2717
35°	2871	2664	2677
40°	2842	2608	2618
45°	2813	2528	2538
50°	2748	2416	2414
55°	2669	2263	2270
60°	2580	2085	2050
65°	2453	1869	1821
70°	2278	1593	1538
75°	1983	1265	1224
80°	1548	899	896
85°	840	515	589



TEST NUMBER: P395579

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.0
10°-20°	147.6	3.1
20°-30°	232.8	4.8
30°-40°	292.6	6.0
40°-50°	314.6	6.5
50°-60°	289.4	6.0
60°-70°	221.7	4.6
70°-80°	126.2	2.6
80°-90°	39.4	0.8
90°-100°	52.7	1.1
100°-110°	229.3	4.7
110°-120°	419.7	8.7
120°-130°	541.0	11.2
130°-140°	575.7	11.9
140°-150°	529.6	10.9
150°-160°	419.6	8.7
160°-170°	265.7	5.5
170°-180°	90.0	1.9
0°-30°	430.6	8.9
0°-40°	723.1	14.9
0°-60°	1327.0	27.4
0°-90°	1714.4	35.4
90°-120°	701.7	14.5
90°-150°	2348.0	48.5
90°-180°	3123.0	64.6
0°-180°	4837.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	526	526	526	526	526	
5°	529	524	528	525	522	50
15°	516	513	524	528	528	146
25°	487	488	507	518	522	225
35°	441	446	471	487	492	275
45°	377	386	412	429	435	291
55°	296	307	326	343	350	265
65°	206	212	226	236	240	204
75°	108	111	119	125	129	114
85°	20	25	33	42	45	25
90°	1	4	12	17	20	3
95°	36	34	38	44	45	44
105°	194	203	219	232	236	206
115°	381	398	430	452	464	374
125°	545	569	612	642	656	487
135°	685	707	752	784	799	528
145°	797	814	851	876	890	499
155°	879	889	912	930	938	405
165°	929	929	942	948	950	262
175°	950	943	943	939	933	90
180°	939	939	939	939	939	



TEST NUMBER: P395579

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4
2.5°	531.6	530.3	529.0	526.4	526.4	525.0	525.0	525.0	525.0	526.4	527.7
5°	529.0	529.0	527.7	525.0	525.0	523.7	523.7	525.0	523.7	525.0	527.7
7.5°	527.7	527.7	526.4	523.7	523.7	523.7	523.7	523.7	523.7	525.0	527.7
10°	525.0	525.0	522.4	521.1	521.1	521.1	521.1	522.4	522.4	523.7	526.4
12.5°	521.1	519.8	518.5	517.1	517.1	517.1	518.5	519.8	519.8	522.4	525.0
15°	515.8	515.8	514.5	513.2	513.2	513.2	514.5	515.8	517.1	519.8	523.7
17.5°	510.5	510.5	509.2	509.2	509.2	509.2	510.5	511.9	514.5	517.1	521.1
20°	503.9	503.9	502.6	502.6	502.6	503.9	503.9	506.6	509.2	513.2	517.1
22.5°	496.0	496.0	496.0	494.7	496.0	497.3	498.7	501.3	503.9	507.9	513.2
25°	486.8	486.8	486.8	486.8	488.1	488.1	490.7	493.4	496.0	501.3	506.6
27.5°	477.6	477.6	477.6	476.2	478.9	480.2	481.5	485.5	488.1	494.7	500.0
30°	465.7	465.7	465.7	467.0	468.3	469.6	472.3	476.2	478.9	485.5	492.1
32.5°	453.8	453.8	453.8	453.8	457.8	459.1	460.4	464.4	469.6	476.2	482.8
35°	440.6	440.6	440.6	441.9	444.6	445.9	448.5	452.5	457.8	464.4	471.0
37.5°	426.1	427.4	427.4	428.7	431.4	434.0	436.7	440.6	445.9	452.5	459.1
40°	410.3	411.6	411.6	412.9	415.6	418.2	420.8	426.1	431.4	438.0	444.6
42.5°	394.4	395.8	395.8	398.4	401.0	403.7	406.3	411.6	416.9	423.5	428.7
45°	377.3	378.6	378.6	381.3	385.2	386.5	390.5	395.8	401.0	406.3	411.6
47.5°	358.8	360.1	360.1	362.8	366.7	369.4	372.0	377.3	381.3	387.8	393.1
50°	337.7	339.0	340.4	343.0	348.3	350.9	353.5	357.5	362.8	366.7	372.0
52.5°	317.9	317.9	319.3	321.9	325.8	328.5	329.8	333.8	340.4	345.6	350.9
55°	295.5	296.8	298.1	300.8	304.7	307.4	308.7	312.7	316.6	320.6	325.8
57.5°	275.7	275.7	277.0	279.7	283.6	285.0	286.3	288.9	294.2	298.1	302.1
60°	252.0	253.3	254.6	257.2	259.9	262.5	262.5	266.5	270.4	274.4	277.0
62.5°	230.9	230.9	232.2	234.8	236.1	238.8	238.8	242.7	245.4	249.3	252.0
65°	205.8	207.1	208.4	209.8	212.4	212.4	213.7	216.4	219.0	221.6	225.6
67.5°	183.4	183.4	184.7	186.0	187.3	187.3	188.6	191.3	193.9	196.6	199.2
70°	158.3	159.6	159.6	159.6	160.9	162.3	163.6	164.9	167.5	168.9	171.5
72.5°	133.2	133.2	134.6	134.6	135.9	137.2	138.5	139.8	141.2	143.8	145.1
75°	108.2	108.2	109.5	109.5	110.8	110.8	110.8	113.5	114.8	117.4	118.7
77.5°	83.1	84.4	84.4	84.4	85.7	87.1	87.1	88.4	91.0	92.3	93.7
80°	60.7	60.7	60.7	60.7	62.0	63.3	64.6	64.6	67.3	69.9	71.2
82.5°	38.3	38.3	39.6	40.9	40.9	42.2	43.5	44.9	47.5	48.8	50.1
85°	19.8	19.8	21.1	22.4	23.7	25.1	25.1	26.4	29.0	31.7	33.0
87.5°	6.6	7.9	7.9	9.2	10.6	11.9	13.2	14.5	17.1	19.8	21.1
90°	1.3	1.3	1.3	2.6	4.0	4.0	5.3	6.6	7.9	9.2	11.9
92.5°	11.9	11.9	10.6	11.9	11.9	11.9	11.9	13.2	14.5	14.5	17.1
95°	35.6	34.3	34.3	34.3	34.3	34.3	34.3	35.6	36.9	36.9	38.3
97.5°	68.6	68.6	67.3	67.3	68.6	68.6	68.6	69.9	72.6	71.2	73.9
100°	106.9	106.9	105.5	106.9	108.2	109.5	112.1	112.1	114.8	114.8	118.7
102.5°	150.4	150.4	149.1	151.7	153.0	155.7	155.7	158.3	162.3	162.3	167.5
105°	193.9	195.2	195.2	197.9	200.5	203.2	203.2	207.1	212.4	212.4	219.0
107.5°	241.4	242.7	242.7	245.4	248.0	250.7	252.0	257.2	262.5	263.8	271.8
110°	287.6	288.9	290.2	292.9	295.5	299.5	302.1	307.4	314.0	316.6	323.2



TEST NUMBER: P395579

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	331.1	336.4	337.7	341.7	345.6	349.6	352.2	358.8	366.7	370.7	378.6
115°	381.3	383.9	385.2	389.2	394.4	398.4	401.0	407.6	415.6	420.8	430.1
117.5°	422.1	428.7	430.1	434.0	439.3	443.3	445.9	453.8	463.0	469.6	478.9
120°	465.7	471.0	476.2	478.9	482.8	488.1	490.7	498.7	509.2	515.8	526.4
122.5°	505.3	510.5	515.8	519.8	525.0	527.7	531.6	540.9	551.4	559.3	569.9
125°	544.8	551.4	555.4	559.3	565.9	568.6	572.5	581.8	592.3	601.6	612.1
127.5°	583.1	587.1	593.6	596.3	602.9	605.5	609.5	620.0	630.6	639.8	650.4
130°	618.7	624.0	629.3	630.6	638.5	642.5	646.4	655.7	667.5	676.8	687.3
132.5°	653.0	655.7	662.2	666.2	672.8	676.8	680.7	688.6	700.5	709.7	720.3
135°	684.7	687.3	695.2	699.2	703.1	707.1	712.4	720.3	732.2	741.4	752.0
137.5°	716.3	719.0	726.9	730.8	733.5	737.4	741.4	749.3	761.2	770.4	779.7
140°	745.4	748.0	753.3	758.5	761.2	763.8	767.8	775.7	786.3	795.5	804.7
142.5°	771.7	774.4	779.7	784.9	788.9	788.9	792.8	799.4	811.3	820.6	828.5
145°	796.8	798.1	803.4	808.7	814.0	814.0	815.3	821.9	832.4	843.0	850.9
147.5°	820.6	821.9	825.8	831.1	835.1	836.4	839.0	841.7	852.2	862.8	872.0
150°	841.7	843.0	845.6	850.9	853.5	856.2	858.8	860.1	868.0	877.3	887.8
152.5°	860.1	861.4	864.1	868.0	870.7	873.3	876.0	879.9	883.9	893.1	899.7
155°	878.6	879.9	881.2	885.2	887.8	889.2	890.5	895.7	899.7	905.0	911.6
157.5°	894.4	894.4	895.7	898.4	901.0	901.0	902.3	907.6	911.6	916.9	920.8
160°	907.6	907.6	908.9	911.6	911.6	912.9	914.2	918.2	920.8	927.4	932.7
162.5°	919.5	918.2	919.5	920.8	920.8	920.8	922.1	924.8	928.7	934.0	939.3
165°	928.7	928.7	928.7	930.0	930.0	928.7	928.7	931.4	934.0	938.0	941.9
167.5°	936.6	936.6	935.3	936.6	935.3	935.3	934.0	935.3	936.6	940.6	943.2
170°	943.2	941.9	941.9	941.9	940.6	939.3	939.3	939.3	939.3	941.9	944.6
172.5°	948.5	947.2	945.9	945.9	943.2	941.9	941.9	940.6	940.6	941.9	943.2
175°	949.8	948.5	947.2	947.2	944.6	943.2	941.9	941.9	940.6	941.9	943.2
177.5°	952.5	951.2	948.5	948.5	945.9	943.2	943.2	941.9	940.6	941.9	941.9
180°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3



TEST NUMBER: P395579

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4	526.4
2.5°	529.0	529.0	527.7	526.4	526.4	525.0	523.7	522.4	521.1	519.8
5°	529.0	527.7	526.4	526.4	525.0	525.0	525.0	523.7	522.4	522.4
7.5°	529.0	529.0	527.7	526.4	526.4	526.4	526.4	526.4	525.0	525.0
10°	529.0	527.7	527.7	527.7	526.4	527.7	527.7	526.4	526.4	525.0
12.5°	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	527.7	526.4
15°	525.0	526.4	526.4	527.7	527.7	527.7	529.0	529.0	527.7	527.7
17.5°	523.7	525.0	526.4	527.7	527.7	527.7	529.0	529.0	529.0	529.0
20°	521.1	522.4	523.7	525.0	525.0	526.4	526.4	527.7	527.7	527.7
22.5°	515.8	517.1	519.8	521.1	522.4	523.7	525.0	525.0	525.0	525.0
25°	510.5	513.2	514.5	517.1	518.5	519.8	521.1	521.1	521.1	522.4
27.5°	503.9	506.6	510.5	511.9	513.2	514.5	515.8	517.1	517.1	517.1
30°	496.0	500.0	502.6	505.3	506.6	507.9	509.2	509.2	510.5	510.5
32.5°	486.8	490.7	493.4	496.0	497.3	498.7	501.3	501.3	502.6	502.6
35°	474.9	478.9	482.8	485.5	486.8	488.1	490.7	492.1	492.1	492.1
37.5°	463.0	467.0	471.0	474.9	476.2	477.6	480.2	480.2	481.5	481.5
40°	448.5	452.5	456.4	460.4	460.4	463.0	464.4	465.7	467.0	467.0
42.5°	434.0	438.0	440.6	444.6	445.9	447.2	448.5	451.2	451.2	452.5
45°	416.9	420.8	423.5	427.4	428.7	430.1	432.7	434.0	435.3	435.3
47.5°	398.4	401.0	403.7	407.6	410.3	411.6	412.9	414.2	415.6	414.2
50°	377.3	379.9	383.9	387.8	389.2	390.5	393.1	393.1	394.4	394.4
52.5°	354.9	358.8	361.5	365.4	366.7	368.1	370.7	370.7	372.0	372.0
55°	329.8	332.4	335.1	341.7	343.0	344.3	347.0	347.0	348.3	349.6
57.5°	306.1	307.4	311.3	314.0	316.6	316.6	317.9	319.3	320.6	320.6
60°	281.0	282.3	285.0	288.9	288.9	290.2	292.9	292.9	294.2	294.2
62.5°	254.6	257.2	259.9	263.8	262.5	263.8	266.5	266.5	267.8	267.8
65°	228.2	229.5	232.2	234.8	236.1	236.1	237.5	238.8	240.1	240.1
67.5°	200.5	203.2	204.5	208.4	207.1	208.4	209.8	209.8	211.1	211.1
70°	174.1	175.5	178.1	179.4	179.4	180.7	182.1	182.1	182.1	183.4
72.5°	147.8	149.1	150.4	151.7	151.7	153.0	154.3	154.3	155.7	155.7
75°	120.0	122.7	124.0	126.6	125.3	126.6	129.3	129.3	129.3	129.3
77.5°	96.3	97.6	100.3	101.6	101.6	101.6	104.2	102.9	104.2	104.2
80°	72.6	73.9	76.5	77.8	77.8	79.2	80.5	80.5	80.5	81.8
82.5°	51.4	54.1	56.7	58.0	58.0	59.4	60.7	60.7	62.0	62.0
85°	35.6	38.3	40.9	40.9	42.2	43.5	44.9	44.9	44.9	44.9
87.5°	23.7	25.1	26.4	27.7	29.0	29.0	30.3	30.3	31.7	31.7
90°	13.2	14.5	15.8	17.1	17.1	18.5	18.5	19.8	19.8	19.8
92.5°	18.5	18.5	19.8	21.1	21.1	21.1	21.1	22.4	22.4	22.4
95°	39.6	40.9	40.9	43.5	43.5	43.5	44.9	44.9	44.9	44.9
97.5°	76.5	76.5	76.5	79.2	79.2	79.2	80.5	80.5	80.5	81.8
100°	120.0	121.4	121.4	125.3	124.0	126.6	126.6	126.6	126.6	128.0
102.5°	168.9	171.5	172.8	176.8	176.8	176.8	179.4	178.1	179.4	179.4
105°	221.6	224.3	225.6	229.5	232.2	232.2	234.8	233.5	234.8	236.1
107.5°	274.4	278.4	281.0	285.0	287.6	288.9	288.9	290.2	291.5	292.9
110°	328.5	332.4	339.0	343.0	344.3	347.0	348.3	349.6	350.9	353.5



TEST NUMBER: P395579

CATALOG NUMBER: I3-FL-50L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	385.2	389.2	394.4	399.7	398.4	402.4	405.0	406.3	407.6	406.3
115°	436.7	441.9	447.2	452.5	452.5	455.1	460.4	461.7	461.7	464.4
117.5°	485.5	492.1	497.3	502.6	503.9	506.6	510.5	514.5	514.5	517.1
120°	533.0	540.9	546.2	551.4	554.1	555.4	559.3	564.6	564.6	564.6
122.5°	577.8	584.4	591.0	596.3	598.9	601.6	604.2	610.8	610.8	613.4
125°	620.0	627.9	634.5	639.8	642.5	645.1	650.4	654.3	655.7	655.7
127.5°	659.6	667.5	674.1	680.7	682.0	684.7	690.0	695.2	696.5	697.9
130°	696.5	704.5	711.1	717.7	720.3	721.6	728.2	732.2	734.8	736.1
132.5°	729.5	737.4	744.0	750.6	753.3	755.9	759.9	766.5	767.8	767.8
135°	759.9	767.8	774.4	782.3	783.6	786.3	791.5	795.5	798.1	799.4
137.5°	787.6	795.5	803.4	810.0	812.6	814.0	819.2	824.5	827.1	828.5
140°	812.6	820.6	828.5	833.7	835.1	839.0	843.0	848.3	850.9	852.2
142.5°	836.4	843.0	849.6	856.2	857.5	860.1	864.1	869.4	872.0	873.3
145°	857.5	864.1	869.4	874.6	876.0	878.6	882.6	886.5	889.2	890.5
147.5°	877.3	882.6	887.8	891.8	893.1	895.7	898.4	901.0	903.7	905.0
150°	894.4	897.1	902.3	905.0	906.3	908.9	911.6	914.2	916.9	918.2
152.5°	907.6	911.6	914.2	918.2	919.5	920.8	923.5	926.1	928.7	928.7
155°	918.2	922.1	924.8	928.7	930.0	931.4	934.0	935.3	938.0	938.0
157.5°	926.1	930.0	932.7	935.3	936.6	938.0	939.3	941.9	944.6	944.6
160°	935.3	936.6	938.0	940.6	940.6	941.9	943.2	944.6	947.2	947.2
162.5°	943.2	944.6	941.9	943.2	941.9	943.2	944.6	945.9	947.2	947.2
165°	945.9	948.5	947.2	948.5	948.5	948.5	948.5	949.8	949.8	949.8
167.5°	945.9	948.5	947.2	947.2	948.5	948.5	949.8	951.2	951.2	951.2
170°	945.9	947.2	945.9	944.6	945.9	945.9	945.9	947.2	947.2	947.2
172.5°	944.6	945.9	943.2	941.9	941.9	941.9	940.6	940.6	939.3	939.3
175°	943.2	943.2	940.6	939.3	939.3	939.3	936.6	935.3	934.0	932.7
177.5°	941.9	941.9	938.0	936.6	936.6	935.3	935.3	932.7	932.7	931.4
180°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3

(END OF REPORT)