

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: P393811

Luminaire Tested: **I3-FL-50L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-FL-50L830-1D-UNV-STD-W-4  
Description: CORELITE I3, FROSTED TOP COVER  
5000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

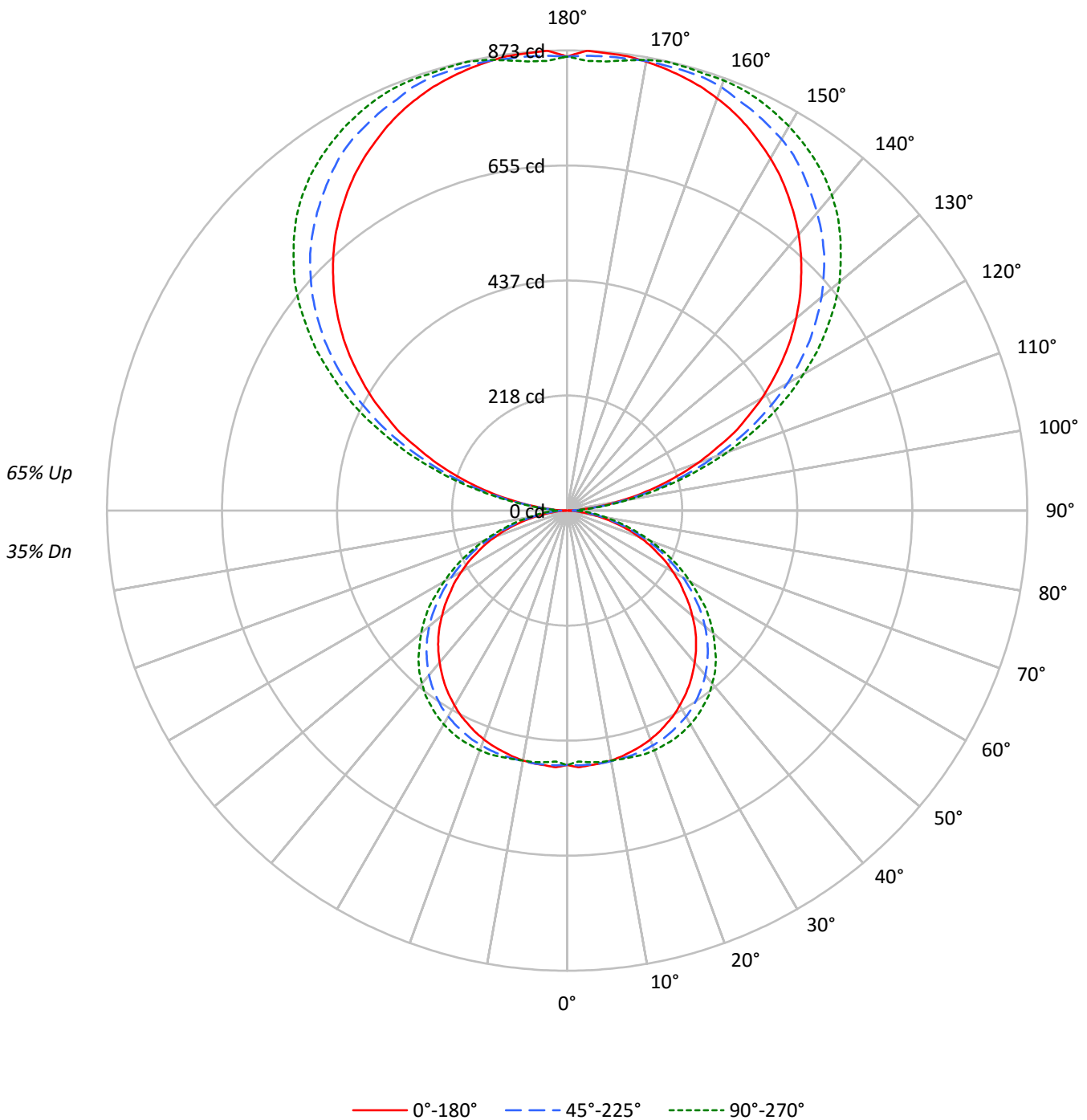
Lumens per Lamp: N/A  
Luminaire Lumens: 4435.5 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 33.5  
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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### 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	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°	2653	2653	2653
5°	2666	2609	2568
10°	2667	2573	2538
15°	2661	2551	2527
20°	2661	2529	2524
25°	2654	2506	2514
30°	2645	2483	2491
35°	2632	2443	2455
40°	2606	2391	2401
45°	2579	2318	2327
50°	2520	2215	2214
55°	2447	2075	2081
60°	2365	1912	1880
65°	2249	1713	1669
70°	2088	1460	1410
75°	1818	1161	1121
80°	1418	824	821
85°	768	472	539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.0	1.0
10°-20°	135.3	3.1
20°-30°	213.4	4.8
30°-40°	268.2	6.0
40°-50°	288.4	6.5
50°-60°	265.3	6.0
60°-70°	203.2	4.6
70°-80°	115.7	2.6
80°-90°	36.1	0.8
90°-100°	48.3	1.1
100°-110°	210.2	4.7
110°-120°	384.8	8.7
120°-130°	496.0	11.2
130°-140°	527.8	11.9
140°-150°	485.6	10.9
150°-160°	384.7	8.7
160°-170°	243.6	5.5
170°-180°	82.5	1.9
0°-30°	394.8	8.9
0°-40°	663.0	14.9
0°-60°	1216.7	27.4
0°-90°	1571.8	35.4
90°-120°	643.4	14.5
90°-150°	2152.8	48.5
90°-180°	2864.0	64.6
0°-180°	4435.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	483	483	483	483	483	
5°	485	480	484	481	479	46
15°	473	470	480	484	484	134
25°	446	448	464	475	479	206
35°	404	409	432	446	451	253
45°	346	354	377	393	399	266
55°	271	282	299	314	320	243
65°	189	195	207	216	220	187
75°	99	102	109	115	118	105
85°	18	23	30	39	41	23
90°	1	4	11	16	18	3
95°	33	31	35	40	41	41
105°	178	186	201	213	216	189
115°	350	365	394	415	426	343
125°	500	521	561	589	601	446
135°	628	648	689	718	733	484
145°	731	746	780	803	816	457
155°	806	815	836	853	860	371
165°	852	852	864	870	871	241
175°	871	865	865	861	855	83
180°	861	861	861	861	861	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6
2.5°	487.4	486.2	485.0	482.6	482.6	481.4	481.4	481.4	481.4	482.6	483.8
5°	485.0	485.0	483.8	481.4	481.4	480.2	480.2	481.4	480.2	481.4	483.8
7.5°	483.8	483.8	482.6	480.2	480.2	480.2	480.2	480.2	480.2	481.4	483.8
10°	481.4	481.4	479.0	477.8	477.8	477.8	477.8	479.0	479.0	480.2	482.6
12.5°	477.8	476.6	475.4	474.1	474.1	474.1	475.4	476.6	476.6	479.0	481.4
15°	472.9	472.9	471.7	470.5	470.5	470.5	471.7	472.9	474.1	476.6	480.2
17.5°	468.1	468.1	466.9	466.9	466.9	466.9	468.1	469.3	471.7	474.1	477.8
20°	462.0	462.0	460.8	460.8	460.8	462.0	462.0	464.5	466.9	470.5	474.1
22.5°	454.8	454.8	454.8	453.6	454.8	456.0	457.2	459.6	462.0	465.7	470.5
25°	446.3	446.3	446.3	446.3	447.5	447.5	450.0	452.4	454.8	459.6	464.5
27.5°	437.9	437.9	437.9	436.6	439.1	440.3	441.5	445.1	447.5	453.6	458.4
30°	427.0	427.0	427.0	428.2	429.4	430.6	433.0	436.6	439.1	445.1	451.2
32.5°	416.1	416.1	416.1	416.1	419.7	420.9	422.1	425.8	430.6	436.6	442.7
35°	404.0	404.0	404.0	405.2	407.6	408.8	411.2	414.9	419.7	425.8	431.8
37.5°	390.7	391.9	391.9	393.1	395.5	397.9	400.4	404.0	408.8	414.9	420.9
40°	376.2	377.4	377.4	378.6	381.0	383.4	385.8	390.7	395.5	401.6	407.6
42.5°	361.7	362.9	362.9	365.3	367.7	370.1	372.5	377.4	382.2	388.3	393.1
45°	345.9	347.1	347.1	349.6	353.2	354.4	358.0	362.9	367.7	372.5	377.4
47.5°	329.0	330.2	330.2	332.6	336.3	338.7	341.1	345.9	349.6	355.6	360.4
50°	309.6	310.9	312.1	314.5	319.3	321.7	324.2	327.8	332.6	336.3	341.1
52.5°	291.5	291.5	292.7	295.1	298.8	301.2	302.4	306.0	312.1	316.9	321.7
55°	270.9	272.1	273.4	275.8	279.4	281.8	283.0	286.7	290.3	293.9	298.8
57.5°	252.8	252.8	254.0	256.4	260.1	261.3	262.5	264.9	269.7	273.4	277.0
60°	231.0	232.2	233.4	235.9	238.3	240.7	240.7	244.3	248.0	251.6	254.0
62.5°	211.7	211.7	212.9	215.3	216.5	218.9	218.9	222.6	225.0	228.6	231.0
65°	188.7	189.9	191.1	192.3	194.7	194.7	195.9	198.4	200.8	203.2	206.8
67.5°	168.1	168.1	169.3	170.5	171.8	171.8	173.0	175.4	177.8	180.2	182.6
70°	145.1	146.4	146.4	146.4	147.6	148.8	150.0	151.2	153.6	154.8	157.2
72.5°	122.2	122.2	123.4	123.4	124.6	125.8	127.0	128.2	129.4	131.8	133.1
75°	99.2	99.2	100.4	100.4	101.6	101.6	101.6	104.0	105.2	107.6	108.9
77.5°	76.2	77.4	77.4	77.4	78.6	79.8	79.8	81.0	83.5	84.7	85.9
80°	55.6	55.6	55.6	55.6	56.8	58.1	59.3	59.3	61.7	64.1	65.3
82.5°	35.1	35.1	36.3	37.5	37.5	38.7	39.9	41.1	43.5	44.8	46.0
85°	18.1	18.1	19.4	20.6	21.8	23.0	23.0	24.2	26.6	29.0	30.2
87.5°	6.0	7.3	7.3	8.5	9.7	10.9	12.1	13.3	15.7	18.1	19.4
90°	1.2	1.2	1.2	2.4	3.6	3.6	4.8	6.0	7.3	8.5	10.9
92.5°	10.9	10.9	9.7	10.9	10.9	10.9	10.9	12.1	13.3	13.3	15.7
95°	32.7	31.4	31.4	31.4	31.4	31.4	31.4	32.7	33.9	33.9	35.1
97.5°	62.9	62.9	61.7	61.7	62.9	62.9	62.9	64.1	66.5	65.3	67.7
100°	98.0	98.0	96.8	98.0	99.2	100.4	102.8	102.8	105.2	105.2	108.9
102.5°	137.9	137.9	136.7	139.1	140.3	142.7	142.7	145.1	148.8	148.8	153.6
105°	177.8	179.0	179.0	181.4	183.9	186.3	186.3	189.9	194.7	194.7	200.8
107.5°	221.3	222.6	222.6	225.0	227.4	229.8	231.0	235.9	240.7	241.9	249.2
110°	263.7	264.9	266.1	268.5	270.9	274.6	277.0	281.8	287.9	290.3	296.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	303.6	308.4	309.6	313.3	316.9	320.5	322.9	329.0	336.3	339.9	347.1
115°	349.6	352.0	353.2	356.8	361.7	365.3	367.7	373.8	381.0	385.8	394.3
117.5°	387.1	393.1	394.3	397.9	402.8	406.4	408.8	416.1	424.6	430.6	439.1
120°	427.0	431.8	436.6	439.1	442.7	447.5	450.0	457.2	466.9	472.9	482.6
122.5°	463.3	468.1	472.9	476.6	481.4	483.8	487.4	495.9	505.6	512.8	522.5
125°	499.5	505.6	509.2	512.8	518.9	521.3	524.9	533.4	543.1	551.6	561.2
127.5°	534.6	538.2	544.3	546.7	552.8	555.2	558.8	568.5	578.2	586.6	596.3
130°	567.3	572.1	577.0	578.2	585.4	589.0	592.7	601.1	612.0	620.5	630.2
132.5°	598.7	601.1	607.2	610.8	616.9	620.5	624.1	631.4	642.3	650.7	660.4
135°	627.8	630.2	637.4	641.1	644.7	648.3	653.2	660.4	671.3	679.8	689.4
137.5°	656.8	659.2	666.5	670.1	672.5	676.1	679.8	687.0	697.9	706.4	714.8
140°	683.4	685.8	690.7	695.5	697.9	700.3	704.0	711.2	720.9	729.4	737.8
142.5°	707.6	710.0	714.8	719.7	723.3	723.3	726.9	733.0	743.9	752.3	759.6
145°	730.6	731.8	736.6	741.5	746.3	746.3	747.5	753.5	763.2	772.9	780.2
147.5°	752.3	753.5	757.2	762.0	765.6	766.9	769.3	771.7	781.4	791.0	799.5
150°	771.7	772.9	775.3	780.2	782.6	785.0	787.4	788.6	795.9	804.3	814.0
152.5°	788.6	789.8	792.3	795.9	798.3	800.7	803.1	806.8	810.4	818.9	824.9
155°	805.6	806.8	808.0	811.6	814.0	815.2	816.4	821.3	824.9	829.7	835.8
157.5°	820.1	820.1	821.3	823.7	826.1	826.1	827.3	832.2	835.8	840.6	844.3
160°	832.2	832.2	833.4	835.8	835.8	837.0	838.2	841.8	844.3	850.3	855.2
162.5°	843.1	841.8	843.1	844.3	844.3	844.3	845.5	847.9	851.5	856.4	861.2
165°	851.5	851.5	851.5	852.7	852.7	851.5	851.5	853.9	856.4	860.0	863.6
167.5°	858.8	858.8	857.6	858.8	857.6	857.6	856.4	857.6	858.8	862.4	864.8
170°	864.8	863.6	863.6	863.6	862.4	861.2	861.2	861.2	861.2	863.6	866.0
172.5°	869.7	868.5	867.2	867.2	864.8	863.6	863.6	862.4	862.4	863.6	864.8
175°	870.9	869.7	868.5	868.5	866.0	864.8	863.6	863.6	862.4	863.6	864.8
177.5°	873.3	872.1	869.7	869.7	867.2	864.8	864.8	863.6	862.4	863.6	863.6
180°	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6
2.5°	485.0	485.0	483.8	482.6	482.6	481.4	480.2	479.0	477.8	476.6
5°	485.0	483.8	482.6	482.6	481.4	481.4	481.4	480.2	479.0	479.0
7.5°	485.0	485.0	483.8	482.6	482.6	482.6	482.6	482.6	481.4	481.4
10°	485.0	483.8	483.8	483.8	482.6	483.8	483.8	482.6	482.6	481.4
12.5°	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	482.6
15°	481.4	482.6	482.6	483.8	483.8	483.8	485.0	485.0	483.8	483.8
17.5°	480.2	481.4	482.6	483.8	483.8	483.8	485.0	485.0	485.0	485.0
20°	477.8	479.0	480.2	481.4	481.4	482.6	482.6	483.8	483.8	483.8
22.5°	472.9	474.1	476.6	477.8	479.0	480.2	481.4	481.4	481.4	481.4
25°	468.1	470.5	471.7	474.1	475.4	476.6	477.8	477.8	477.8	479.0
27.5°	462.0	464.5	468.1	469.3	470.5	471.7	472.9	474.1	474.1	474.1
30°	454.8	458.4	460.8	463.3	464.5	465.7	466.9	466.9	468.1	468.1
32.5°	446.3	450.0	452.4	454.8	456.0	457.2	459.6	459.6	460.8	460.8
35°	435.4	439.1	442.7	445.1	446.3	447.5	450.0	451.2	451.2	451.2
37.5°	424.6	428.2	431.8	435.4	436.6	437.9	440.3	440.3	441.5	441.5
40°	411.2	414.9	418.5	422.1	422.1	424.6	425.8	427.0	428.2	428.2
42.5°	397.9	401.6	404.0	407.6	408.8	410.0	411.2	413.7	413.7	414.9
45°	382.2	385.8	388.3	391.9	393.1	394.3	396.7	397.9	399.2	399.2
47.5°	365.3	367.7	370.1	373.8	376.2	377.4	378.6	379.8	381.0	379.8
50°	345.9	348.3	352.0	355.6	356.8	358.0	360.4	360.4	361.7	361.7
52.5°	325.4	329.0	331.4	335.0	336.3	337.5	339.9	339.9	341.1	341.1
55°	302.4	304.8	307.2	313.3	314.5	315.7	318.1	318.1	319.3	320.5
57.5°	280.6	281.8	285.5	287.9	290.3	290.3	291.5	292.7	293.9	293.9
60°	257.6	258.8	261.3	264.9	264.9	266.1	268.5	268.5	269.7	269.7
62.5°	233.4	235.9	238.3	241.9	240.7	241.9	244.3	244.3	245.5	245.5
65°	209.3	210.5	212.9	215.3	216.5	216.5	217.7	218.9	220.1	220.1
67.5°	183.9	186.3	187.5	191.1	189.9	191.1	192.3	192.3	193.5	193.5
70°	159.7	160.9	163.3	164.5	164.5	165.7	166.9	166.9	166.9	168.1
72.5°	135.5	136.7	137.9	139.1	139.1	140.3	141.5	141.5	142.7	142.7
75°	110.1	112.5	113.7	116.1	114.9	116.1	118.5	118.5	118.5	118.5
77.5°	88.3	89.5	91.9	93.1	93.1	93.1	95.6	94.3	95.6	95.6
80°	66.5	67.7	70.2	71.4	71.4	72.6	73.8	73.8	73.8	75.0
82.5°	47.2	49.6	52.0	53.2	53.2	54.4	55.6	55.6	56.8	56.8
85°	32.7	35.1	37.5	37.5	38.7	39.9	41.1	41.1	41.1	41.1
87.5°	21.8	23.0	24.2	25.4	26.6	26.6	27.8	27.8	29.0	29.0
90°	12.1	13.3	14.5	15.7	15.7	16.9	16.9	18.1	18.1	18.1
92.5°	16.9	16.9	18.1	19.4	19.4	19.4	19.4	20.6	20.6	20.6
95°	36.3	37.5	37.5	39.9	39.9	39.9	41.1	41.1	41.1	41.1
97.5°	70.2	70.2	70.2	72.6	72.6	72.6	73.8	73.8	73.8	75.0
100°	110.1	111.3	111.3	114.9	113.7	116.1	116.1	116.1	116.1	117.3
102.5°	154.8	157.2	158.5	162.1	162.1	162.1	164.5	163.3	164.5	164.5
105°	203.2	205.6	206.8	210.5	212.9	212.9	215.3	214.1	215.3	216.5
107.5°	251.6	255.2	257.6	261.3	263.7	264.9	264.9	266.1	267.3	268.5
110°	301.2	304.8	310.9	314.5	315.7	318.1	319.3	320.5	321.7	324.2





TEST NUMBER: P393811

CATALOG NUMBER: I3-FL-50L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	353.2	356.8	361.7	366.5	365.3	368.9	371.3	372.5	373.8	372.5
115°	400.4	405.2	410.0	414.9	414.9	417.3	422.1	423.3	423.3	425.8
117.5°	445.1	451.2	456.0	460.8	462.0	464.5	468.1	471.7	471.7	474.1
120°	488.7	495.9	500.8	505.6	508.0	509.2	512.8	517.7	517.7	517.7
122.5°	529.8	535.8	541.9	546.7	549.1	551.6	554.0	560.0	560.0	562.4
125°	568.5	575.7	581.8	586.6	589.0	591.5	596.3	599.9	601.1	601.1
127.5°	604.8	612.0	618.1	624.1	625.3	627.8	632.6	637.4	638.6	639.9
130°	638.6	645.9	651.9	658.0	660.4	661.6	667.7	671.3	673.7	674.9
132.5°	668.9	676.1	682.2	688.2	690.7	693.1	696.7	702.7	704.0	704.0
135°	696.7	704.0	710.0	717.3	718.5	720.9	725.7	729.4	731.8	733.0
137.5°	722.1	729.4	736.6	742.7	745.1	746.3	751.1	756.0	758.4	759.6
140°	745.1	752.3	759.6	764.4	765.6	769.3	772.9	777.7	780.2	781.4
142.5°	766.9	772.9	778.9	785.0	786.2	788.6	792.3	797.1	799.5	800.7
145°	786.2	792.3	797.1	801.9	803.1	805.6	809.2	812.8	815.2	816.4
147.5°	804.3	809.2	814.0	817.7	818.9	821.3	823.7	826.1	828.5	829.7
150°	820.1	822.5	827.3	829.7	831.0	833.4	835.8	838.2	840.6	841.8
152.5°	832.2	835.8	838.2	841.8	843.1	844.3	846.7	849.1	851.5	851.5
155°	841.8	845.5	847.9	851.5	852.7	853.9	856.4	857.6	860.0	860.0
157.5°	849.1	852.7	855.2	857.6	858.8	860.0	861.2	863.6	866.0	866.0
160°	857.6	858.8	860.0	862.4	862.4	863.6	864.8	866.0	868.5	868.5
162.5°	864.8	866.0	863.6	864.8	863.6	864.8	866.0	867.2	868.5	868.5
165°	867.2	869.7	868.5	869.7	869.7	869.7	869.7	870.9	870.9	870.9
167.5°	867.2	869.7	868.5	868.5	869.7	869.7	870.9	872.1	872.1	872.1
170°	867.2	868.5	867.2	866.0	867.2	867.2	867.2	868.5	868.5	868.5
172.5°	866.0	867.2	864.8	863.6	863.6	863.6	862.4	862.4	861.2	861.2
175°	864.8	864.8	862.4	861.2	861.2	861.2	858.8	857.6	856.4	855.2
177.5°	863.6	863.6	860.0	858.8	858.8	857.6	857.6	855.2	855.2	853.9
180°	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2	861.2

(END OF REPORT)