

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: P395606

Luminaire Tested: **I3-FL-60L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395606  
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-60L83050-1D-UNV-W2A-W-4 (5000K)  
Description: CORELITE I3, FROSTED TOP COVER  
6000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5828.6 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

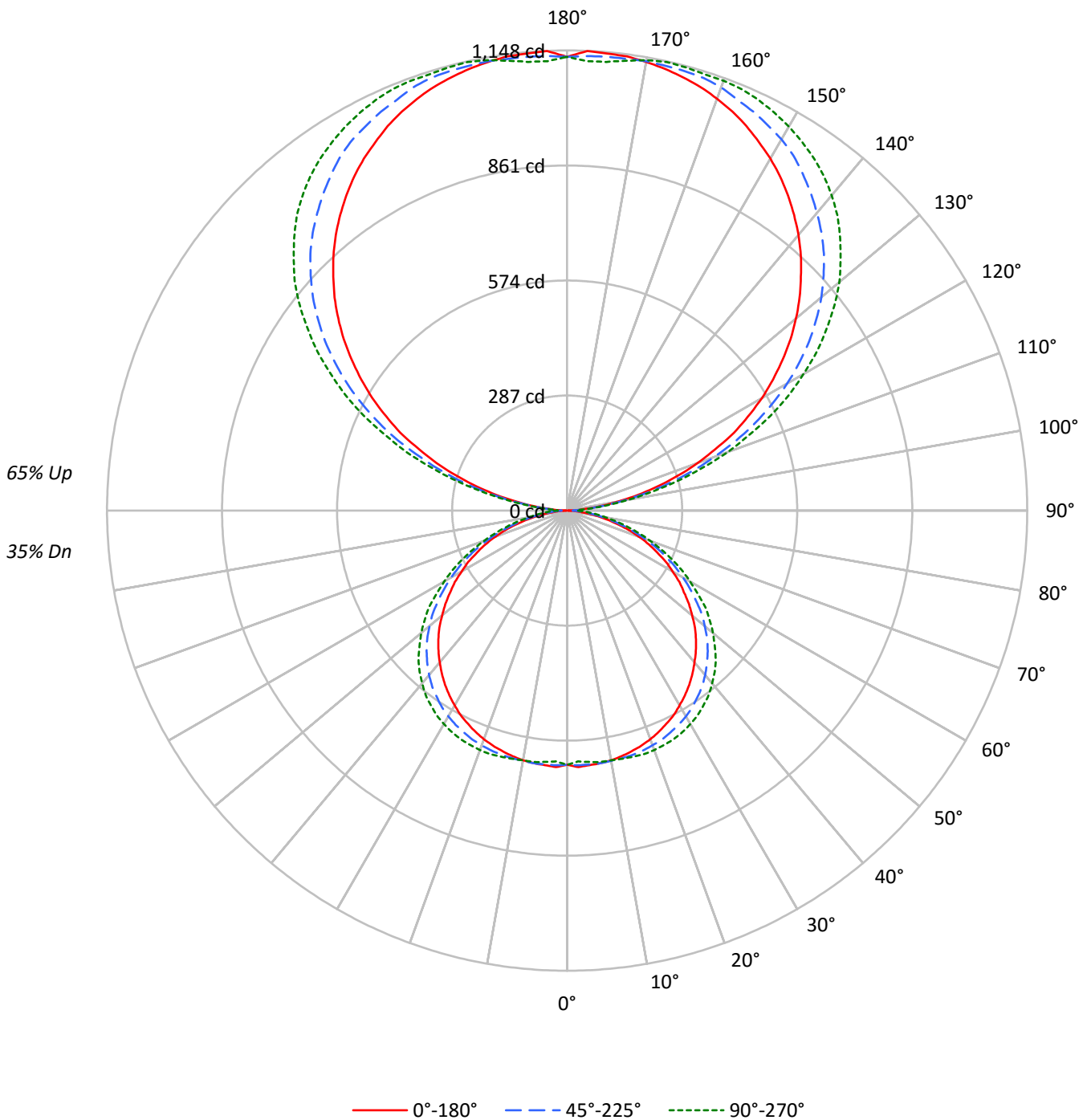
Input Watts (W): 46.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3486	3486	3486
5°	3504	3428	3374
10°	3504	3381	3335
15°	3497	3352	3321
20°	3497	3323	3317
25°	3488	3293	3304
30°	3476	3262	3274
35°	3459	3210	3225
40°	3424	3142	3155
45°	3389	3045	3058
50°	3311	2911	2908
55°	3216	2727	2735
60°	3108	2513	2470
65°	2956	2252	2194
70°	2744	1919	1853
75°	2388	1526	1474
80°	1864	1083	1079
85°	1010	620	708



TEST NUMBER: P395606

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	1.0
10°-20°	177.8	3.1
20°-30°	280.5	4.8
30°-40°	352.5	6.0
40°-50°	379.0	6.5
50°-60°	348.6	6.0
60°-70°	267.1	4.6
70°-80°	152.1	2.6
80°-90°	47.5	0.8
90°-100°	63.5	1.1
100°-110°	276.2	4.7
110°-120°	505.7	8.7
120°-130°	651.8	11.2
130°-140°	693.6	11.9
140°-150°	638.1	10.9
150°-160°	505.5	8.7
160°-170°	320.1	5.5
170°-180°	108.4	1.9
0°-30°	518.8	8.9
0°-40°	871.3	14.9
0°-60°	1598.9	27.4
0°-90°	2065.5	35.4
90°-120°	845.4	14.5
90°-150°	2829.0	48.5
90°-180°	3763.0	64.6
0°-180°	5828.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	637	631	636	633	629	61
15°	622	618	631	636	636	176
25°	586	588	610	625	629	271
35°	531	537	567	586	593	332
45°	455	466	496	517	524	350
55°	356	370	393	413	421	319
65°	248	256	272	284	289	246
75°	130	134	143	151	156	138
85°	24	30	40	51	54	30
90°	2	5	14	21	24	3
95°	43	41	46	52	54	54
105°	234	245	264	280	284	249
115°	459	480	518	545	560	450
125°	656	685	738	774	790	586
135°	825	852	906	944	963	637
145°	960	981	1025	1055	1073	601
155°	1059	1071	1098	1121	1130	488
165°	1119	1119	1135	1143	1144	316
175°	1144	1136	1136	1132	1124	109
180°	1132	1132	1132	1132	1132	



TEST NUMBER: P395606

CATALOG NUMBER: I3-FL-60L83050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2
2.5°	640.5	639.0	637.4	634.2	634.2	632.6	632.6	632.6	632.6	634.2	635.8
5°	637.4	637.4	635.8	632.6	632.6	631.0	631.0	632.6	631.0	632.6	635.8
7.5°	635.8	635.8	634.2	631.0	631.0	631.0	631.0	631.0	631.0	632.6	635.8
10°	632.6	632.6	629.4	627.8	627.8	627.8	627.8	629.4	629.4	631.0	634.2
12.5°	627.8	626.2	624.7	623.1	623.1	623.1	624.7	626.2	626.2	629.4	632.6
15°	621.5	621.5	619.9	618.3	618.3	618.3	619.9	621.5	623.1	626.2	631.0
17.5°	615.1	615.1	613.5	613.5	613.5	613.5	615.1	616.7	619.9	623.1	627.8
20°	607.2	607.2	605.6	605.6	605.6	607.2	607.2	610.3	613.5	618.3	623.1
22.5°	597.6	597.6	597.6	596.0	597.6	599.2	600.8	604.0	607.2	611.9	618.3
25°	586.5	586.5	586.5	586.5	588.1	588.1	591.3	594.5	597.6	604.0	610.3
27.5°	575.4	575.4	575.4	573.8	577.0	578.6	580.1	584.9	588.1	596.0	602.4
30°	561.1	561.1	561.1	562.7	564.3	565.8	569.0	573.8	577.0	584.9	592.9
32.5°	546.8	546.8	546.8	546.8	551.5	553.1	554.7	559.5	565.8	573.8	581.7
35°	530.9	530.9	530.9	532.5	535.6	537.2	540.4	545.2	551.5	559.5	567.4
37.5°	513.4	515.0	515.0	516.6	519.7	522.9	526.1	530.9	537.2	545.2	553.1
40°	494.3	495.9	495.9	497.5	500.7	503.9	507.0	513.4	519.7	527.7	535.6
42.5°	475.2	476.8	476.8	480.0	483.2	486.4	489.5	495.9	502.3	510.2	516.6
45°	454.6	456.2	456.2	459.3	464.1	465.7	470.5	476.8	483.2	489.5	495.9
47.5°	432.3	433.9	433.9	437.1	441.9	445.0	448.2	454.6	459.3	467.3	473.7
50°	406.9	408.5	410.1	413.3	419.6	422.8	426.0	430.7	437.1	441.9	448.2
52.5°	383.1	383.1	384.6	387.8	392.6	395.8	397.4	402.1	410.1	416.4	422.8
55°	356.0	357.6	359.2	362.4	367.2	370.3	371.9	376.7	381.5	386.2	392.6
57.5°	332.2	332.2	333.8	337.0	341.7	343.3	344.9	348.1	354.4	359.2	364.0
60°	303.6	305.2	306.8	309.9	313.1	316.3	316.3	321.1	325.8	330.6	333.8
62.5°	278.2	278.2	279.7	282.9	284.5	287.7	287.7	292.5	295.6	300.4	303.6
65°	248.0	249.5	251.1	252.7	255.9	255.9	257.5	260.7	263.8	267.0	271.8
67.5°	220.9	220.9	222.5	224.1	225.7	225.7	227.3	230.5	233.6	236.8	240.0
70°	190.7	192.3	192.3	192.3	193.9	195.5	197.1	198.7	201.9	203.4	206.6
72.5°	160.5	160.5	162.1	162.1	163.7	165.3	166.9	168.5	170.1	173.2	174.8
75°	130.3	130.3	131.9	131.9	133.5	133.5	133.5	136.7	138.3	141.5	143.1
77.5°	100.1	101.7	101.7	101.7	103.3	104.9	104.9	106.5	109.7	111.3	112.9
80°	73.1	73.1	73.1	73.1	74.7	76.3	77.9	77.9	81.1	84.2	85.8
82.5°	46.1	46.1	47.7	49.3	49.3	50.9	52.5	54.0	57.2	58.8	60.4
85°	23.8	23.8	25.4	27.0	28.6	30.2	30.2	31.8	35.0	38.1	39.7
87.5°	7.9	9.5	9.5	11.1	12.7	14.3	15.9	17.5	20.7	23.8	25.4
90°	1.6	1.6	1.6	3.2	4.8	4.8	6.4	7.9	9.5	11.1	14.3
92.5°	14.3	14.3	12.7	14.3	14.3	14.3	14.3	15.9	17.5	17.5	20.7
95°	42.9	41.3	41.3	41.3	41.3	41.3	41.3	42.9	44.5	44.5	46.1
97.5°	82.7	82.7	81.1	81.1	82.7	82.7	82.7	84.2	87.4	85.8	89.0
100°	128.7	128.7	127.2	128.7	130.3	131.9	135.1	135.1	138.3	138.3	143.1
102.5°	181.2	181.2	179.6	182.8	184.4	187.6	187.6	190.7	195.5	195.5	201.9
105°	233.6	235.2	235.2	238.4	241.6	244.8	244.8	249.5	255.9	255.9	263.8
107.5°	290.9	292.5	292.5	295.6	298.8	302.0	303.6	309.9	316.3	317.9	327.4
110°	346.5	348.1	349.7	352.9	356.0	360.8	364.0	370.3	378.3	381.5	389.4



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CATALOG NUMBER: I3-FL-60L83050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	399.0	405.3	406.9	411.7	416.4	421.2	424.4	432.3	441.9	446.6	456.2
115°	459.3	462.5	464.1	468.9	475.2	480.0	483.2	491.1	500.7	507.0	518.2
117.5°	508.6	516.6	518.2	522.9	529.3	534.1	537.2	546.8	557.9	565.8	577.0
120°	561.1	567.4	573.8	577.0	581.7	588.1	591.3	600.8	613.5	621.5	634.2
122.5°	608.8	615.1	621.5	626.2	632.6	635.8	640.5	651.7	664.4	673.9	686.6
125°	656.4	664.4	669.2	673.9	681.9	685.1	689.8	700.9	713.7	724.8	737.5
127.5°	702.5	707.3	715.3	718.4	726.4	729.6	734.3	747.0	759.8	770.9	783.6
130°	745.4	751.8	758.2	759.8	769.3	774.1	778.8	790.0	804.3	815.4	828.1
132.5°	786.8	790.0	797.9	802.7	810.6	815.4	820.2	829.7	844.0	855.1	867.8
135°	824.9	828.1	837.6	842.4	847.2	851.9	858.3	867.8	882.1	893.3	906.0
137.5°	863.1	866.2	875.8	880.6	883.7	888.5	893.3	902.8	917.1	928.2	939.4
140°	898.0	901.2	907.6	913.9	917.1	920.3	925.1	934.6	947.3	958.4	969.6
142.5°	929.8	933.0	939.4	945.7	950.5	950.5	955.3	963.2	977.5	988.6	998.2
145°	960.0	961.6	968.0	974.3	980.7	980.7	982.3	990.2	1002.9	1015.7	1025.2
147.5°	988.6	990.2	995.0	1001.4	1006.1	1007.7	1010.9	1014.1	1026.8	1039.5	1050.6
150°	1014.1	1015.7	1018.8	1025.2	1028.4	1031.5	1034.7	1036.3	1045.9	1057.0	1069.7
152.5°	1036.3	1037.9	1041.1	1045.9	1049.0	1052.2	1055.4	1060.2	1064.9	1076.1	1084.0
155°	1058.6	1060.2	1061.7	1066.5	1069.7	1071.3	1072.9	1079.2	1084.0	1090.4	1098.3
157.5°	1077.6	1077.6	1079.2	1082.4	1085.6	1085.6	1087.2	1093.5	1098.3	1104.7	1109.4
160°	1093.5	1093.5	1095.1	1098.3	1098.3	1099.9	1101.5	1106.3	1109.4	1117.4	1123.7
162.5°	1107.8	1106.3	1107.8	1109.4	1109.4	1109.4	1111.0	1114.2	1119.0	1125.3	1131.7
165°	1119.0	1119.0	1119.0	1120.6	1120.6	1119.0	1119.0	1122.1	1125.3	1130.1	1134.9
167.5°	1128.5	1128.5	1126.9	1128.5	1126.9	1126.9	1125.3	1126.9	1128.5	1133.3	1136.5
170°	1136.5	1134.9	1134.9	1134.9	1133.3	1131.7	1131.7	1131.7	1131.7	1134.9	1138.0
172.5°	1142.8	1141.2	1139.6	1139.6	1136.5	1134.9	1134.9	1133.3	1133.3	1134.9	1136.5
175°	1144.4	1142.8	1141.2	1141.2	1138.0	1136.5	1134.9	1134.9	1133.3	1134.9	1136.5
177.5°	1147.6	1146.0	1142.8	1142.8	1139.6	1136.5	1136.5	1134.9	1133.3	1134.9	1134.9
180°	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2	634.2
2.5°	637.4	637.4	635.8	634.2	634.2	632.6	631.0	629.4	627.8	626.2
5°	637.4	635.8	634.2	634.2	632.6	632.6	632.6	631.0	629.4	629.4
7.5°	637.4	637.4	635.8	634.2	634.2	634.2	634.2	634.2	632.6	632.6
10°	637.4	635.8	635.8	635.8	634.2	635.8	635.8	634.2	634.2	632.6
12.5°	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	635.8	634.2
15°	632.6	634.2	634.2	635.8	635.8	635.8	637.4	637.4	635.8	635.8
17.5°	631.0	632.6	634.2	635.8	635.8	635.8	637.4	637.4	637.4	637.4
20°	627.8	629.4	631.0	632.6	632.6	634.2	634.2	635.8	635.8	635.8
22.5°	621.5	623.1	626.2	627.8	629.4	631.0	632.6	632.6	632.6	632.6
25°	615.1	618.3	619.9	623.1	624.7	626.2	627.8	627.8	627.8	629.4
27.5°	607.2	610.3	615.1	616.7	618.3	619.9	621.5	623.1	623.1	623.1
30°	597.6	602.4	605.6	608.8	610.3	611.9	613.5	613.5	615.1	615.1
32.5°	586.5	591.3	594.5	597.6	599.2	600.8	604.0	604.0	605.6	605.6
35°	572.2	577.0	581.7	584.9	586.5	588.1	591.3	592.9	592.9	592.9
37.5°	557.9	562.7	567.4	572.2	573.8	575.4	578.6	578.6	580.1	580.1
40°	540.4	545.2	549.9	554.7	554.7	557.9	559.5	561.1	562.7	562.7
42.5°	522.9	527.7	530.9	535.6	537.2	538.8	540.4	543.6	543.6	545.2
45°	502.3	507.0	510.2	515.0	516.6	518.2	521.3	522.9	524.5	524.5
47.5°	480.0	483.2	486.4	491.1	494.3	495.9	497.5	499.1	500.7	499.1
50°	454.6	457.8	462.5	467.3	468.9	470.5	473.7	473.7	475.2	475.2
52.5°	427.6	432.3	435.5	440.3	441.9	443.5	446.6	446.6	448.2	448.2
55°	397.4	400.5	403.7	411.7	413.3	414.8	418.0	418.0	419.6	421.2
57.5°	368.8	370.3	375.1	378.3	381.5	381.5	383.1	384.6	386.2	386.2
60°	338.6	340.1	343.3	348.1	348.1	349.7	352.9	352.9	354.4	354.4
62.5°	306.8	309.9	313.1	317.9	316.3	317.9	321.1	321.1	322.7	322.7
65°	275.0	276.6	279.7	282.9	284.5	284.5	286.1	287.7	289.3	289.3
67.5°	241.6	244.8	246.4	251.1	249.5	251.1	252.7	252.7	254.3	254.3
70°	209.8	211.4	214.6	216.2	216.2	217.8	219.3	219.3	219.3	220.9
72.5°	178.0	179.6	181.2	182.8	182.8	184.4	186.0	186.0	187.6	187.6
75°	144.6	147.8	149.4	152.6	151.0	152.6	155.8	155.8	155.8	155.8
77.5°	116.0	117.6	120.8	122.4	122.4	122.4	125.6	124.0	125.6	125.6
80°	87.4	89.0	92.2	93.8	93.8	95.4	97.0	97.0	97.0	98.5
82.5°	62.0	65.2	68.3	69.9	69.9	71.5	73.1	73.1	74.7	74.7
85°	42.9	46.1	49.3	49.3	50.9	52.5	54.0	54.0	54.0	54.0
87.5°	28.6	30.2	31.8	33.4	35.0	35.0	36.6	36.6	38.1	38.1
90°	15.9	17.5	19.1	20.7	20.7	22.3	22.3	23.8	23.8	23.8
92.5°	22.3	22.3	23.8	25.4	25.4	25.4	25.4	27.0	27.0	27.0
95°	47.7	49.3	49.3	52.5	52.5	52.5	54.0	54.0	54.0	54.0
97.5°	92.2	92.2	92.2	95.4	95.4	95.4	97.0	97.0	97.0	98.5
100°	144.6	146.2	146.2	151.0	149.4	152.6	152.6	152.6	152.6	154.2
102.5°	203.4	206.6	208.2	213.0	213.0	213.0	216.2	214.6	216.2	216.2
105°	267.0	270.2	271.8	276.6	279.7	279.7	282.9	281.3	282.9	284.5
107.5°	330.6	335.4	338.6	343.3	346.5	348.1	348.1	349.7	351.3	352.9
110°	395.8	400.5	408.5	413.3	414.8	418.0	419.6	421.2	422.8	426.0





TEST NUMBER: P395606

CATALOG NUMBER: I3-FL-60L83050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	464.1	468.9	475.2	481.6	480.0	484.8	488.0	489.5	491.1	489.5
115°	526.1	532.5	538.8	545.2	545.2	548.4	554.7	556.3	556.3	559.5
117.5°	584.9	592.9	599.2	605.6	607.2	610.3	615.1	619.9	619.9	623.1
120°	642.1	651.7	658.0	664.4	667.6	669.2	673.9	680.3	680.3	680.3
122.5°	696.2	704.1	712.1	718.4	721.6	724.8	728.0	735.9	735.9	739.1
125°	747.0	756.6	764.5	770.9	774.1	777.2	783.6	788.4	790.0	790.0
127.5°	794.7	804.3	812.2	820.2	821.7	824.9	831.3	837.6	839.2	840.8
130°	839.2	848.8	856.7	864.7	867.8	869.4	877.4	882.1	885.3	886.9
132.5°	879.0	888.5	896.4	904.4	907.6	910.8	915.5	923.5	925.1	925.1
135°	915.5	925.1	933.0	942.5	944.1	947.3	953.7	958.4	961.6	963.2
137.5°	948.9	958.4	968.0	975.9	979.1	980.7	987.0	993.4	996.6	998.2
140°	979.1	988.6	998.2	1004.5	1006.1	1010.9	1015.7	1022.0	1025.2	1026.8
142.5°	1007.7	1015.7	1023.6	1031.5	1033.1	1036.3	1041.1	1047.4	1050.6	1052.2
145°	1033.1	1041.1	1047.4	1053.8	1055.4	1058.6	1063.3	1068.1	1071.3	1072.9
147.5°	1057.0	1063.3	1069.7	1074.5	1076.1	1079.2	1082.4	1085.6	1088.8	1090.4
150°	1077.6	1080.8	1087.2	1090.4	1091.9	1095.1	1098.3	1101.5	1104.7	1106.3
152.5°	1093.5	1098.3	1101.5	1106.3	1107.8	1109.4	1112.6	1115.8	1119.0	1119.0
155°	1106.3	1111.0	1114.2	1119.0	1120.6	1122.1	1125.3	1126.9	1130.1	1130.1
157.5°	1115.8	1120.6	1123.7	1126.9	1128.5	1130.1	1131.7	1134.9	1138.0	1138.0
160°	1126.9	1128.5	1130.1	1133.3	1133.3	1134.9	1136.5	1138.0	1141.2	1141.2
162.5°	1136.5	1138.0	1134.9	1136.5	1134.9	1136.5	1138.0	1139.6	1141.2	1141.2
165°	1139.6	1142.8	1141.2	1142.8	1142.8	1142.8	1142.8	1144.4	1144.4	1144.4
167.5°	1139.6	1142.8	1141.2	1141.2	1142.8	1142.8	1144.4	1146.0	1146.0	1146.0
170°	1139.6	1141.2	1139.6	1138.0	1139.6	1139.6	1139.6	1141.2	1141.2	1141.2
172.5°	1138.0	1139.6	1136.5	1134.9	1134.9	1134.9	1133.3	1133.3	1131.7	1131.7
175°	1136.5	1136.5	1133.3	1131.7	1131.7	1131.7	1128.5	1126.9	1125.3	1123.7
177.5°	1134.9	1134.9	1130.1	1128.5	1128.5	1126.9	1126.9	1123.7	1123.7	1122.1
180°	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7	1131.7

(END OF REPORT)