

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: P393796

Luminaire Tested: **I3-CL-60L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-CL-60L830-1D-UNV-STD-W-4  
Description: CORELITE I3, CLEAR TOP COVER  
6000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

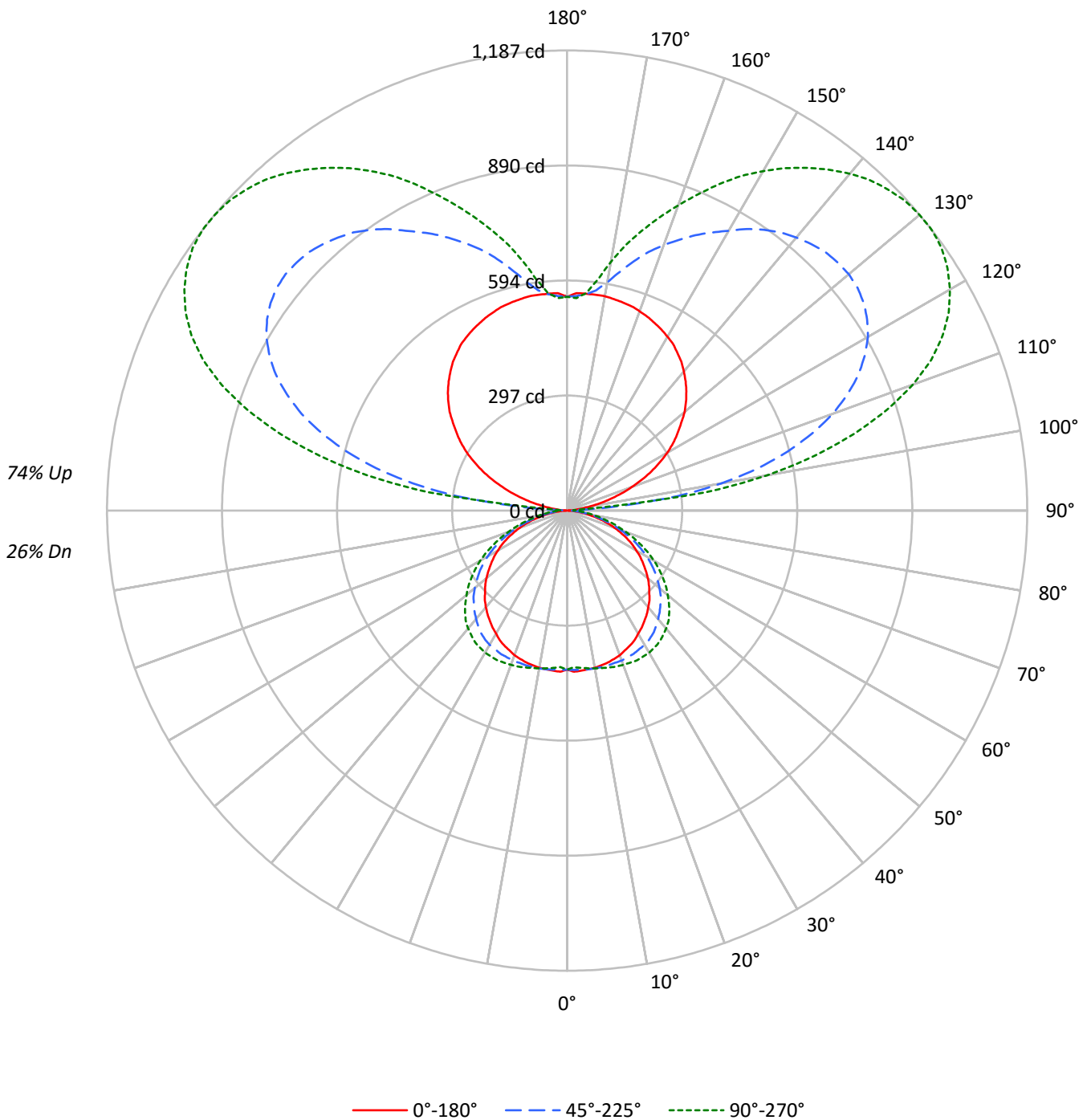
Lumens per Lamp: N/A  
Luminaire Lumens: 5405.1 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 41.3  
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



TEST NUMBER: P393796  
CATALOG NUMBER: I3-CL-60L830-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P393796

CATALOG NUMBER: I3-CL-60L830-1D-UNV-STD-W-4

**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°	2255	2255	2255
5°	2279	2219	2184
10°	2280	2202	2178
15°	2283	2194	2188
20°	2287	2195	2208
25°	2284	2198	2237
30°	2270	2201	2253
35°	2265	2189	2255
40°	2257	2142	2226
45°	2234	2090	2171
50°	2214	2022	2074
55°	2168	1920	1955
60°	2114	1785	1804
65°	2028	1602	1600
70°	1883	1364	1354
75°	1626	1085	1087
80°	1262	771	796
85°	742	476	534



TEST NUMBER: P393796

CATALOG NUMBER: I3-CL-60L830-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.3	0.7
10°-20°	116.6	2.2
20°-30°	186.9	3.5
30°-40°	239.1	4.4
40°-50°	260.7	4.8
50°-60°	244.2	4.5
60°-70°	189.5	3.5
70°-80°	108.6	2.0
80°-90°	34.7	0.6
90°-100°	139.4	2.6
100°-110°	541.9	10.0
110°-120°	737.8	13.6
120°-130°	765.8	14.2
130°-140°	679.3	12.6
140°-150°	527.1	9.8
150°-160°	351.8	6.5
160°-170°	187.5	3.5
170°-180°	54.9	1.0
0°-30°	342.8	6.3
0°-40°	581.9	10.8
0°-60°	1086.8	20.1
0°-90°	1419.6	26.3
90°-120°	1419.1	26.3
90°-150°	3391.4	62.7
90°-180°	3986.0	73.7
0°-180°	5405.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	414	410	412	410	407	39
15°	406	404	413	419	419	115
25°	384	387	407	422	426	177
35°	348	355	387	407	414	218
45°	300	313	340	362	372	232
55°	240	253	276	295	301	215
65°	170	177	193	206	211	168
75°	89	93	102	112	115	95
85°	18	20	30	39	41	21
90°	2	4	10	14	18	2
95°	18	99	135	28	26	23
105°	115	348	589	700	766	123
115°	240	537	829	974	1069	237
125°	348	633	934	1097	1180	311
135°	435	666	942	1105	1171	335
145°	496	666	884	1027	1079	311
155°	534	630	784	889	929	247
165°	556	579	666	729	748	157
175°	561	558	560	563	563	54
180°	551	551	551	551	551	



TEST NUMBER: P393796

CATALOG NUMBER: I3-CL-60L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2
2.5°	416.0	414.5	414.5	411.6	411.6	410.2	410.2	410.2	410.2	410.2	411.6
5°	414.5	414.5	413.1	411.6	411.6	410.2	410.2	410.2	410.2	410.2	411.6
7.5°	413.1	413.1	411.6	410.2	410.2	410.2	410.2	410.2	410.2	410.2	413.1
10°	411.6	411.6	410.2	408.7	408.7	408.7	408.7	410.2	410.2	410.2	413.1
12.5°	408.7	407.3	407.3	405.8	405.8	405.8	407.3	407.3	408.7	410.2	413.1
15°	405.8	405.8	404.3	402.9	404.3	404.3	404.3	405.8	407.3	408.7	413.1
17.5°	401.4	401.4	400.0	400.0	400.0	401.4	401.4	402.9	405.8	408.7	411.6
20°	397.1	395.6	395.6	395.6	397.1	397.1	398.5	401.4	402.9	407.3	411.6
22.5°	389.8	391.3	389.8	389.8	391.3	392.7	394.2	397.1	400.0	404.3	408.7
25°	384.0	384.0	384.0	384.0	386.9	386.9	389.8	392.7	397.1	401.4	407.3
27.5°	376.7	376.7	376.7	378.2	379.6	381.1	382.5	386.9	391.3	397.1	402.9
30°	366.5	366.5	366.5	366.5	370.9	372.4	375.3	381.1	385.4	392.7	400.0
32.5°	357.8	357.8	357.8	359.3	362.2	363.6	366.5	373.8	379.6	386.9	394.2
35°	347.6	347.6	349.1	349.1	353.4	354.9	357.8	363.6	369.4	378.2	386.9
37.5°	337.4	337.4	338.9	340.4	343.3	346.2	349.1	354.9	360.7	368.0	376.7
40°	325.8	325.8	327.3	328.7	333.1	336.0	338.9	344.7	350.5	357.8	365.1
42.5°	314.2	314.2	315.6	317.1	321.4	324.4	327.3	334.5	340.4	347.6	353.4
45°	299.6	301.1	302.5	305.4	309.8	312.7	315.6	321.4	328.7	334.5	340.4
47.5°	286.5	288.0	289.4	292.4	296.7	299.6	302.5	308.4	314.2	320.0	327.3
50°	272.0	273.4	274.9	277.8	282.2	285.1	288.0	293.8	299.6	304.0	311.3
52.5°	256.0	257.4	258.9	261.8	267.6	269.1	272.0	277.8	282.2	288.0	293.8
55°	240.0	241.4	242.9	245.8	250.2	253.1	254.5	260.4	264.7	270.5	276.4
57.5°	224.0	225.4	226.9	229.8	232.7	235.6	237.1	241.4	247.3	251.6	257.4
60°	206.5	208.0	209.4	210.9	215.3	216.7	218.2	222.5	226.9	232.7	237.1
62.5°	189.1	189.1	190.5	192.0	196.4	197.8	199.3	202.2	208.0	210.9	215.3
65°	170.2	170.2	171.6	173.1	176.0	177.4	178.9	181.8	186.2	189.1	193.4
67.5°	149.8	149.8	151.3	152.7	155.6	157.1	157.1	161.4	164.4	167.3	170.2
70°	130.9	130.9	132.4	132.4	133.8	135.3	136.7	139.6	141.1	145.4	146.9
72.5°	110.5	110.5	110.5	110.5	113.5	113.5	114.9	117.8	119.3	122.2	125.1
75°	88.7	88.7	90.2	90.2	91.6	93.1	94.5	96.0	98.9	100.4	101.8
77.5°	69.8	68.4	69.8	71.3	72.7	72.7	74.2	75.6	77.1	80.0	81.5
80°	49.5	49.5	49.5	50.9	52.4	52.4	53.8	55.3	56.7	59.6	61.1
82.5°	32.0	32.0	33.5	33.5	34.9	36.4	36.4	37.8	39.3	42.2	43.6
85°	17.5	17.5	17.5	18.9	20.4	20.4	21.8	23.3	26.2	27.6	30.5
87.5°	5.8	5.8	7.3	8.7	10.2	10.2	11.6	13.1	14.5	17.5	18.9
90°	1.5	1.5	1.5	2.9	2.9	4.4	4.4	5.8	7.3	8.7	10.2
92.5°	5.8	10.2	16.0	23.3	21.8	23.3	16.0	10.2	10.2	10.2	11.6
95°	17.5	26.2	42.2	66.9	87.3	98.9	109.1	119.3	139.6	141.1	135.3
97.5°	34.9	48.0	77.1	109.1	145.4	164.4	178.9	209.4	241.4	261.8	286.5
100°	58.2	77.1	114.9	158.5	200.7	225.4	248.7	292.4	331.6	366.5	404.3
102.5°	85.8	107.6	154.2	208.0	260.4	288.0	312.7	363.6	417.4	464.0	504.7
105°	114.9	139.6	194.9	256.0	315.6	347.6	378.2	433.4	490.2	541.1	589.1
107.5°	146.9	173.1	232.7	301.1	368.0	404.3	437.8	497.4	557.1	612.3	663.2
110°	177.4	206.5	269.1	343.3	418.9	455.3	488.7	554.2	616.7	674.9	728.7



TEST NUMBER: P393796

CATALOG NUMBER: I3-CL-60L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	209.4	240.0	302.5	384.0	461.1	498.9	533.8	603.6	669.1	728.7	782.5
115°	240.0	269.1	334.5	418.9	497.4	536.7	574.5	645.8	714.2	773.8	829.1
117.5°	269.1	296.7	363.6	448.0	529.4	568.7	606.5	680.7	749.1	811.6	865.4
120°	298.2	322.9	395.6	472.7	555.6	594.9	634.2	708.3	778.2	840.7	896.0
122.5°	324.4	347.6	418.9	494.5	576.0	616.7	654.5	730.2	801.4	864.0	917.8
125°	347.6	369.4	440.7	512.0	593.4	632.7	672.0	746.2	817.4	878.5	933.8
127.5°	370.9	392.7	456.7	529.4	605.1	645.8	683.6	757.8	827.6	890.2	944.0
130°	395.6	411.6	472.7	545.4	616.7	654.5	693.8	765.1	833.4	894.5	948.3
132.5°	416.0	430.5	488.7	558.5	625.4	661.8	696.7	768.0	836.3	894.5	946.9
135°	434.9	446.5	500.3	570.2	632.7	666.2	699.6	766.5	833.4	891.6	942.5
137.5°	452.3	464.0	510.5	578.9	638.5	667.6	699.6	762.2	826.2	884.3	932.3
140°	468.3	477.1	519.3	583.3	641.4	669.1	696.7	754.9	814.5	871.2	919.2
142.5°	484.3	491.6	526.5	586.2	642.9	669.1	695.2	746.2	801.4	856.7	904.7
145°	496.0	503.3	532.3	587.6	641.4	666.2	689.4	737.4	786.9	837.8	884.3
147.5°	509.1	514.9	538.2	584.7	637.1	660.3	682.2	725.8	770.9	817.4	861.1
150°	517.8	523.6	541.1	581.8	629.8	651.6	673.4	714.2	754.9	795.6	833.4
152.5°	526.5	530.9	545.4	577.4	621.1	641.4	661.8	701.1	738.9	775.2	808.7
155°	533.8	538.2	548.3	574.5	610.9	629.8	648.7	686.5	721.4	753.4	784.0
157.5°	541.1	544.0	551.3	570.2	599.3	616.7	634.2	667.6	699.6	731.6	756.3
160°	546.9	548.3	554.2	568.7	589.1	602.2	618.2	648.7	677.8	705.4	728.7
162.5°	552.7	552.7	557.1	565.8	580.3	589.1	600.7	626.9	653.1	677.8	699.6
165°	555.6	555.6	558.5	564.3	573.1	578.9	586.2	603.6	624.0	645.8	666.2
167.5°	558.5	558.5	560.0	562.9	568.7	571.6	574.5	586.2	599.3	615.3	631.3
170°	561.4	560.0	560.0	562.9	564.3	565.8	567.3	573.1	578.9	589.1	597.8
172.5°	561.4	560.0	560.0	561.4	561.4	561.4	561.4	562.9	564.3	570.2	573.1
175°	561.4	560.0	560.0	560.0	560.0	558.5	558.5	558.5	558.5	558.5	560.0
177.5°	561.4	560.0	558.5	558.5	557.1	557.1	555.6	555.6	554.2	554.2	554.2
180°	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3



TEST NUMBER: P393796

CATALOG NUMBER: I3-CL-60L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2
2.5°	411.6	411.6	410.2	410.2	408.7	408.7	407.3	405.8	404.3	404.3
5°	413.1	411.6	410.2	410.2	410.2	408.7	408.7	408.7	407.3	407.3
7.5°	413.1	413.1	413.1	411.6	411.6	411.6	411.6	411.6	410.2	410.2
10°	414.5	414.5	414.5	414.5	414.5	414.5	414.5	413.1	413.1	413.1
12.5°	414.5	414.5	414.5	416.0	416.0	416.0	416.0	416.0	416.0	416.0
15°	416.0	416.0	417.4	417.4	418.9	418.9	420.3	420.3	420.3	418.9
17.5°	414.5	416.0	417.4	418.9	420.3	420.3	421.8	421.8	421.8	421.8
20°	414.5	417.4	418.9	420.3	421.8	421.8	423.3	424.7	424.7	423.3
22.5°	413.1	416.0	417.4	420.3	421.8	421.8	424.7	424.7	424.7	424.7
25°	411.6	414.5	417.4	420.3	421.8	421.8	424.7	424.7	426.2	426.2
27.5°	408.7	411.6	416.0	418.9	420.3	421.8	423.3	424.7	424.7	424.7
30°	404.3	408.7	413.1	416.0	417.4	418.9	420.3	421.8	423.3	423.3
32.5°	398.5	402.9	407.3	411.6	413.1	414.5	417.4	418.9	418.9	418.9
35°	392.7	397.1	401.4	405.8	407.3	408.7	411.6	413.1	414.5	414.5
37.5°	384.0	388.4	392.7	397.1	398.5	401.4	404.3	405.8	405.8	405.8
40°	370.9	378.2	384.0	388.4	389.8	392.7	394.2	397.1	397.1	397.1
42.5°	359.3	365.1	369.4	375.3	376.7	381.1	384.0	385.4	386.9	386.9
45°	346.2	352.0	356.4	360.7	362.2	365.1	368.0	369.4	370.9	372.4
47.5°	333.1	337.4	341.8	346.2	347.6	350.5	353.4	354.9	356.4	356.4
50°	317.1	321.4	325.8	330.2	331.6	334.5	336.0	337.4	338.9	338.9
52.5°	299.6	304.0	308.4	312.7	314.2	315.6	318.5	320.0	321.4	321.4
55°	282.2	286.5	289.4	293.8	295.3	296.7	298.2	301.1	302.5	301.1
57.5°	261.8	266.2	269.1	273.4	274.9	276.4	277.8	279.3	280.7	280.7
60°	240.0	244.4	248.7	251.6	253.1	254.5	256.0	257.4	258.9	258.9
62.5°	218.2	222.5	225.4	229.8	231.3	231.3	232.7	234.2	235.6	235.6
65°	196.4	200.7	202.2	206.5	206.5	208.0	209.4	210.9	210.9	210.9
67.5°	173.1	177.4	178.9	181.8	181.8	183.3	184.7	186.2	186.2	186.2
70°	151.3	152.7	155.6	157.1	158.5	158.5	160.0	161.4	162.9	161.4
72.5°	128.0	129.5	132.4	133.8	133.8	135.3	135.3	136.7	138.2	138.2
75°	104.7	107.6	109.1	110.5	112.0	112.0	113.5	114.9	114.9	114.9
77.5°	82.9	85.8	87.3	88.7	90.2	90.2	91.6	91.6	93.1	91.6
80°	64.0	65.5	66.9	68.4	69.8	69.8	71.3	72.7	72.7	72.7
82.5°	46.5	48.0	50.9	52.4	52.4	52.4	55.3	55.3	56.7	55.3
85°	32.0	33.5	36.4	37.8	39.3	39.3	39.3	40.7	42.2	40.7
87.5°	20.4	23.3	24.7	26.2	26.2	26.2	27.6	29.1	29.1	29.1
90°	11.6	11.6	13.1	14.5	14.5	16.0	16.0	17.5	17.5	17.5
92.5°	11.6	13.1	13.1	13.1	14.5	14.5	14.5	16.0	16.0	16.0
95°	98.9	71.3	40.7	32.0	27.6	27.6	26.2	27.6	26.2	26.2
97.5°	299.6	324.4	336.0	352.0	360.7	359.3	353.4	359.3	354.9	359.3
100°	426.2	449.4	466.9	471.3	480.0	484.3	500.3	512.0	517.8	525.1
102.5°	529.4	557.1	577.4	589.1	597.8	603.6	622.5	640.0	648.7	654.5
105°	624.0	653.1	677.8	689.4	699.6	705.4	725.8	746.2	759.2	766.5
107.5°	699.6	733.1	759.2	776.7	786.9	797.1	821.8	842.2	858.2	865.4
110°	768.0	801.4	829.1	849.4	861.1	871.2	898.9	922.1	939.6	948.3





TEST NUMBER: P393796

CATALOG NUMBER: I3-CL-60L830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	824.7	861.1	888.7	910.5	922.1	936.7	962.9	989.1	1006.5	1016.7
115°	871.2	909.1	938.1	961.4	974.5	987.6	1018.1	1044.3	1061.8	1069.1
117.5°	910.5	948.3	978.9	1002.1	1016.7	1031.2	1061.8	1085.1	1104.0	1109.8
120°	942.5	980.3	1010.9	1037.1	1051.6	1064.7	1093.8	1118.5	1136.0	1140.3
122.5°	964.3	1003.6	1035.6	1064.7	1077.8	1090.9	1118.5	1143.2	1159.2	1163.6
125°	980.3	1021.1	1053.1	1083.6	1096.7	1109.8	1136.0	1160.7	1173.8	1179.6
127.5°	990.5	1031.2	1066.1	1095.2	1109.8	1121.4	1147.6	1169.4	1182.5	1186.9
130°	993.4	1035.6	1070.5	1101.1	1114.1	1125.8	1150.5	1172.3	1184.0	1186.9
132.5°	993.4	1034.1	1070.5	1099.6	1112.7	1124.3	1147.6	1168.0	1179.6	1182.5
135°	987.6	1026.9	1063.2	1092.3	1105.4	1117.1	1140.3	1157.8	1169.4	1170.9
137.5°	977.4	1015.2	1050.1	1079.2	1092.3	1104.0	1124.3	1143.2	1153.4	1156.3
140°	964.3	999.2	1034.1	1061.8	1074.9	1085.1	1105.4	1121.4	1131.6	1134.5
142.5°	946.9	981.8	1013.8	1041.4	1051.6	1063.2	1080.7	1096.7	1105.4	1108.3
145°	928.0	961.4	990.5	1015.2	1026.9	1037.1	1053.1	1067.6	1076.3	1079.2
147.5°	903.2	936.7	964.3	987.6	997.8	1008.0	1022.5	1035.6	1044.3	1047.2
150°	872.7	903.2	932.3	954.1	964.3	974.5	989.1	1000.7	1009.4	1010.9
152.5°	842.2	871.2	896.0	917.8	928.0	938.1	951.2	962.9	973.1	973.1
155°	813.1	837.8	861.1	880.0	888.7	897.4	910.5	920.7	929.4	929.4
157.5°	782.5	805.8	824.7	842.2	849.4	856.7	868.3	877.1	884.3	882.9
160°	753.4	770.9	788.3	802.9	810.2	816.0	824.7	832.0	839.2	837.8
162.5°	721.4	737.4	752.0	762.2	768.0	772.3	781.1	788.3	792.7	792.7
165°	685.1	699.6	712.7	722.9	728.7	731.6	738.9	743.2	747.6	747.6
167.5°	647.3	658.9	670.5	679.2	685.1	688.0	695.2	698.2	704.0	702.5
170°	609.4	618.2	626.9	634.2	637.1	640.0	645.8	648.7	651.6	651.6
172.5°	578.9	581.8	586.2	592.0	592.0	593.4	596.3	597.8	599.3	599.3
175°	561.4	562.9	562.9	562.9	562.9	562.9	564.3	562.9	564.3	562.9
177.5°	554.2	554.2	552.7	552.7	551.3	552.7	551.3	549.8	549.8	548.3
180°	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3	551.3

(END OF REPORT)