

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: P395450

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

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395450
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-60L83050-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, CLEAR 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: 5906.3 lumens
Efficiency: N/A
Efficacy: 127.6 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

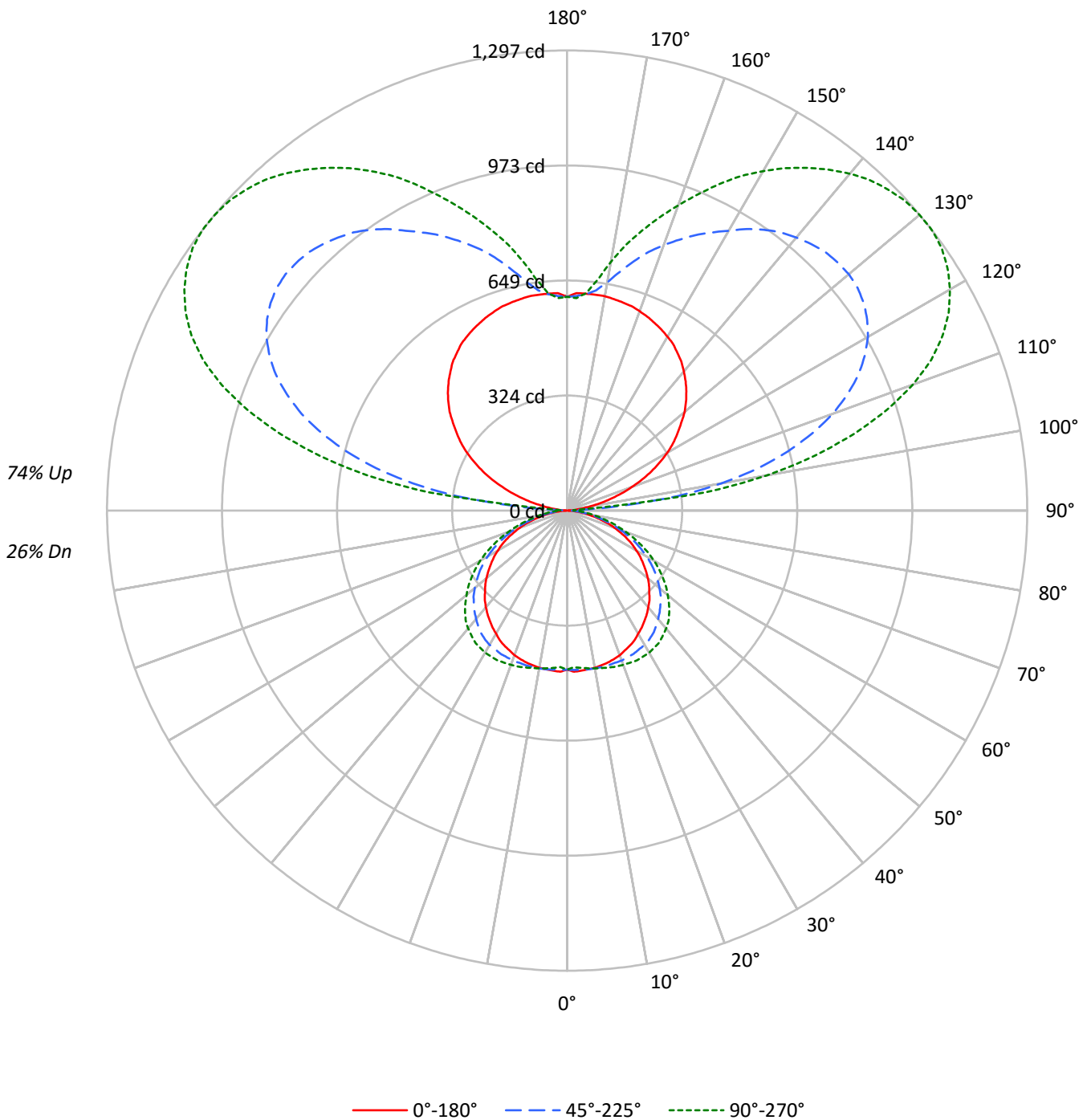
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

Luminous Intensity Polar Plot





TEST NUMBER: P395450

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

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°	2464	2464	2464
5°	2490	2425	2386
10°	2492	2407	2380
15°	2495	2398	2391
20°	2499	2399	2413
25°	2495	2401	2444
30°	2481	2405	2462
35°	2475	2392	2464
40°	2466	2340	2433
45°	2441	2284	2372
50°	2419	2209	2266
55°	2369	2098	2136
60°	2311	1950	1972
65°	2217	1751	1748
70°	2058	1491	1480
75°	1778	1187	1189
80°	1377	843	871
85°	810	522	583



TEST NUMBER: P395450

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	0.7
10°-20°	127.4	2.2
20°-30°	204.3	3.5
30°-40°	261.2	4.4
40°-50°	284.8	4.8
50°-60°	266.9	4.5
60°-70°	207.1	3.5
70°-80°	118.7	2.0
80°-90°	38.0	0.6
90°-100°	152.3	2.6
100°-110°	592.2	10.0
110°-120°	806.2	13.6
120°-130°	836.9	14.2
130°-140°	742.3	12.6
140°-150°	576.0	9.8
150°-160°	384.4	6.5
160°-170°	204.9	3.5
170°-180°	59.9	1.0
0°-30°	374.6	6.3
0°-40°	635.8	10.8
0°-60°	1187.5	20.1
0°-90°	1551.2	26.3
90°-120°	1550.7	26.3
90°-150°	3705.8	62.7
90°-180°	4355.0	73.7
0°-180°	5906.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	453	448	450	448	445	43
15°	443	442	451	458	458	125
25°	420	423	445	461	466	193
35°	380	388	423	445	453	238
45°	327	342	372	396	407	253
55°	262	276	302	323	329	234
65°	186	194	211	226	230	183
75°	97	102	111	122	126	103
85°	19	22	33	43	44	23
90°	2	5	11	16	19	2
95°	19	108	148	30	29	25
105°	126	380	644	764	838	134
115°	262	586	906	1065	1168	258
125°	380	691	1020	1198	1289	340
135°	475	728	1030	1208	1279	366
145°	542	728	966	1122	1179	340
155°	583	688	857	971	1016	269
165°	607	633	728	796	817	172
175°	614	610	612	615	615	59
180°	602	602	602	602	602	



TEST NUMBER: P395450

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2
2.5°	454.6	453.0	453.0	449.8	449.8	448.2	448.2	448.2	448.2	448.2	449.8
5°	453.0	453.0	451.4	449.8	449.8	448.2	448.2	448.2	448.2	448.2	449.8
7.5°	451.4	451.4	449.8	448.2	448.2	448.2	448.2	448.2	448.2	448.2	451.4
10°	449.8	449.8	448.2	446.6	446.6	446.6	446.6	448.2	448.2	448.2	451.4
12.5°	446.6	445.0	445.0	443.4	443.4	443.4	445.0	445.0	446.6	448.2	451.4
15°	443.4	443.4	441.8	440.2	441.8	441.8	441.8	443.4	445.0	446.6	451.4
17.5°	438.7	438.7	437.1	437.1	437.1	438.7	438.7	440.2	443.4	446.6	449.8
20°	433.9	432.3	432.3	432.3	433.9	433.9	435.5	438.7	440.2	445.0	449.8
22.5°	425.9	427.5	425.9	425.9	427.5	429.1	430.7	433.9	437.1	441.8	446.6
25°	419.6	419.6	419.6	419.6	422.8	422.8	425.9	429.1	433.9	438.7	445.0
27.5°	411.6	411.6	411.6	413.2	414.8	416.4	418.0	422.8	427.5	433.9	440.2
30°	400.5	400.5	400.5	400.5	405.3	406.9	410.1	416.4	421.2	429.1	437.1
32.5°	391.0	391.0	391.0	392.6	395.7	397.3	400.5	408.5	414.8	422.8	430.7
35°	379.9	379.9	381.4	381.4	386.2	387.8	391.0	397.3	403.7	413.2	422.8
37.5°	368.7	368.7	370.3	371.9	375.1	378.3	381.4	387.8	394.2	402.1	411.6
40°	356.0	356.0	357.6	359.2	364.0	367.1	370.3	376.7	383.0	391.0	398.9
42.5°	343.3	343.3	344.9	346.5	351.2	354.4	357.6	365.6	371.9	379.9	386.2
45°	327.4	329.0	330.6	333.8	338.5	341.7	344.9	351.2	359.2	365.6	371.9
47.5°	313.1	314.7	316.3	319.5	324.2	327.4	330.6	336.9	343.3	349.7	357.6
50°	297.2	298.8	300.4	303.6	308.3	311.5	314.7	321.0	327.4	332.2	340.1
52.5°	279.7	281.3	282.9	286.1	292.4	294.0	297.2	303.6	308.3	314.7	321.0
55°	262.2	263.8	265.4	268.6	273.4	276.5	278.1	284.5	289.3	295.6	302.0
57.5°	244.8	246.3	247.9	251.1	254.3	257.5	259.1	263.8	270.2	275.0	281.3
60°	225.7	227.3	228.9	230.5	235.2	236.8	238.4	243.2	247.9	254.3	259.1
62.5°	206.6	206.6	208.2	209.8	214.6	216.2	217.7	220.9	227.3	230.5	235.2
65°	186.0	186.0	187.5	189.1	192.3	193.9	195.5	198.7	203.4	206.6	211.4
67.5°	163.7	163.7	165.3	166.9	170.1	171.6	171.6	176.4	179.6	182.8	186.0
70°	143.0	143.0	144.6	144.6	146.2	147.8	149.4	152.6	154.2	158.9	160.5
72.5°	120.8	120.8	120.8	120.8	124.0	124.0	125.6	128.7	130.3	133.5	136.7
75°	97.0	97.0	98.5	98.5	100.1	101.7	103.3	104.9	108.1	109.7	111.3
77.5°	76.3	74.7	76.3	77.9	79.5	79.5	81.1	82.6	84.2	87.4	89.0
80°	54.0	54.0	54.0	55.6	57.2	57.2	58.8	60.4	62.0	65.2	66.8
82.5°	35.0	35.0	36.6	36.6	38.1	39.7	39.7	41.3	42.9	46.1	47.7
85°	19.1	19.1	19.1	20.7	22.3	22.3	23.8	25.4	28.6	30.2	33.4
87.5°	6.4	6.4	7.9	9.5	11.1	11.1	12.7	14.3	15.9	19.1	20.7
90°	1.6	1.6	1.6	3.2	3.2	4.8	4.8	6.4	7.9	9.5	11.1
92.5°	6.4	11.1	17.5	25.4	23.8	25.4	17.5	11.1	11.1	11.1	12.7
95°	19.1	28.6	46.1	73.1	95.4	108.1	119.2	130.3	152.6	154.2	147.8
97.5°	38.1	52.4	84.2	119.2	158.9	179.6	195.5	228.9	263.8	286.1	313.1
100°	63.6	84.2	125.6	173.2	219.3	246.3	271.8	319.5	362.4	400.5	441.8
102.5°	93.8	117.6	168.5	227.3	284.5	314.7	341.7	397.3	456.1	507.0	551.5
105°	125.6	152.6	213.0	279.7	344.9	379.9	413.2	473.6	535.6	591.2	643.7
107.5°	160.5	189.1	254.3	329.0	402.1	441.8	478.4	543.6	608.7	669.1	724.7
110°	193.9	225.7	294.0	375.1	457.7	497.5	534.0	605.5	673.9	737.5	796.3



TEST NUMBER: P395450

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	228.9	262.2	330.6	419.6	503.8	545.1	583.3	659.6	731.1	796.3	855.1
115°	262.2	294.0	365.6	457.7	543.6	586.5	627.8	705.7	780.4	845.5	905.9
117.5°	294.0	324.2	397.3	489.5	578.5	621.4	662.8	743.8	818.5	886.9	945.7
120°	325.8	352.8	432.3	516.5	607.1	650.0	693.0	774.0	850.3	918.6	979.0
122.5°	354.4	379.9	457.7	540.4	629.4	673.9	715.2	797.9	875.7	944.1	1002.9
125°	379.9	403.7	481.6	559.5	648.5	691.4	734.3	815.3	893.2	960.0	1020.4
127.5°	405.3	429.1	499.1	578.5	661.2	705.7	747.0	828.1	904.3	972.7	1031.5
130°	432.3	449.8	516.5	596.0	673.9	715.2	758.1	836.0	910.7	977.4	1036.3
132.5°	454.6	470.4	534.0	610.3	683.4	723.2	761.3	839.2	913.9	977.4	1034.7
135°	475.2	487.9	546.7	623.0	691.4	727.9	764.5	837.6	910.7	974.3	1029.9
137.5°	494.3	507.0	557.9	632.6	697.7	729.5	764.5	832.8	902.7	966.3	1018.8
140°	511.8	521.3	567.4	637.3	700.9	731.1	761.3	824.9	890.0	952.0	1004.5
142.5°	529.3	537.2	575.3	640.5	702.5	731.1	759.7	815.3	875.7	936.1	988.6
145°	542.0	549.9	581.7	642.1	700.9	727.9	753.4	805.8	859.8	915.5	966.3
147.5°	556.3	562.6	588.1	638.9	696.1	721.6	745.4	793.1	842.4	893.2	940.9
150°	565.8	572.2	591.2	635.7	688.2	712.0	735.9	780.4	824.9	869.4	910.7
152.5°	575.3	580.1	596.0	631.0	678.7	700.9	723.2	766.1	807.4	847.1	883.7
155°	583.3	588.1	599.2	627.8	667.5	688.2	708.8	750.2	788.3	823.3	856.7
157.5°	591.2	594.4	602.4	623.0	654.8	673.9	693.0	729.5	764.5	799.4	826.5
160°	597.6	599.2	605.5	621.4	643.7	658.0	675.5	708.8	740.6	770.8	796.3
162.5°	604.0	604.0	608.7	618.3	634.1	643.7	656.4	685.0	713.6	740.6	764.5
165°	607.1	607.1	610.3	616.7	626.2	632.6	640.5	659.6	681.8	705.7	727.9
167.5°	610.3	610.3	611.9	615.1	621.4	624.6	627.8	640.5	654.8	672.3	689.8
170°	613.5	611.9	611.9	615.1	616.7	618.3	619.8	626.2	632.6	643.7	653.2
172.5°	613.5	611.9	611.9	613.5	613.5	613.5	613.5	615.1	616.7	623.0	626.2
175°	613.5	611.9	611.9	611.9	611.9	610.3	610.3	610.3	610.3	610.3	611.9
177.5°	613.5	611.9	610.3	610.3	608.7	608.7	607.1	607.1	605.5	605.5	605.5
180°	602.4	602.4	602.4	602.4	602.4	602.4	602.4	602.4	602.4	602.4	602.4



TEST NUMBER: P395450

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2	448.2
2.5°	449.8	449.8	448.2	448.2	446.6	446.6	445.0	443.4	441.8	441.8
5°	451.4	449.8	448.2	448.2	448.2	446.6	446.6	446.6	445.0	445.0
7.5°	451.4	451.4	451.4	449.8	449.8	449.8	449.8	449.8	448.2	448.2
10°	453.0	453.0	453.0	453.0	453.0	453.0	453.0	451.4	451.4	451.4
12.5°	453.0	453.0	453.0	454.6	454.6	454.6	454.6	454.6	454.6	454.6
15°	454.6	454.6	456.1	456.1	457.7	457.7	459.3	459.3	459.3	457.7
17.5°	453.0	454.6	456.1	457.7	459.3	459.3	460.9	460.9	460.9	460.9
20°	453.0	456.1	457.7	459.3	460.9	460.9	462.5	464.1	464.1	462.5
22.5°	451.4	454.6	456.1	459.3	460.9	460.9	464.1	464.1	464.1	464.1
25°	449.8	453.0	456.1	459.3	460.9	460.9	464.1	464.1	465.7	465.7
27.5°	446.6	449.8	454.6	457.7	459.3	460.9	462.5	464.1	464.1	464.1
30°	441.8	446.6	451.4	454.6	456.1	457.7	459.3	460.9	462.5	462.5
32.5°	435.5	440.2	445.0	449.8	451.4	453.0	456.1	457.7	457.7	457.7
35°	429.1	433.9	438.7	443.4	445.0	446.6	449.8	451.4	453.0	453.0
37.5°	419.6	424.4	429.1	433.9	435.5	438.7	441.8	443.4	443.4	443.4
40°	405.3	413.2	419.6	424.4	425.9	429.1	430.7	433.9	433.9	433.9
42.5°	392.6	398.9	403.7	410.1	411.6	416.4	419.6	421.2	422.8	422.8
45°	378.3	384.6	389.4	394.2	395.7	398.9	402.1	403.7	405.3	406.9
47.5°	364.0	368.7	373.5	378.3	379.9	383.0	386.2	387.8	389.4	389.4
50°	346.5	351.2	356.0	360.8	362.4	365.6	367.1	368.7	370.3	370.3
52.5°	327.4	332.2	336.9	341.7	343.3	344.9	348.1	349.7	351.2	351.2
55°	308.3	313.1	316.3	321.0	322.6	324.2	325.8	329.0	330.6	329.0
57.5°	286.1	290.9	294.0	298.8	300.4	302.0	303.6	305.2	306.7	306.7
60°	262.2	267.0	271.8	275.0	276.5	278.1	279.7	281.3	282.9	282.9
62.5°	238.4	243.2	246.3	251.1	252.7	252.7	254.3	255.9	257.5	257.5
65°	214.6	219.3	220.9	225.7	225.7	227.3	228.9	230.5	230.5	230.5
67.5°	189.1	193.9	195.5	198.7	198.7	200.3	201.8	203.4	203.4	203.4
70°	165.3	166.9	170.1	171.6	173.2	173.2	174.8	176.4	178.0	176.4
72.5°	139.9	141.5	144.6	146.2	146.2	147.8	147.8	149.4	151.0	151.0
75°	114.4	117.6	119.2	120.8	122.4	122.4	124.0	125.6	125.6	125.6
77.5°	90.6	93.8	95.4	97.0	98.5	98.5	100.1	100.1	101.7	100.1
80°	69.9	71.5	73.1	74.7	76.3	76.3	77.9	79.5	79.5	79.5
82.5°	50.9	52.4	55.6	57.2	57.2	57.2	60.4	60.4	62.0	60.4
85°	35.0	36.6	39.7	41.3	42.9	42.9	42.9	44.5	46.1	44.5
87.5°	22.3	25.4	27.0	28.6	28.6	28.6	30.2	31.8	31.8	31.8
90°	12.7	12.7	14.3	15.9	15.9	17.5	17.5	19.1	19.1	19.1
92.5°	12.7	14.3	14.3	14.3	15.9	15.9	15.9	17.5	17.5	17.5
95°	108.1	77.9	44.5	35.0	30.2	30.2	28.6	30.2	28.6	28.6
97.5°	327.4	354.4	367.1	384.6	394.2	392.6	386.2	392.6	387.8	392.6
100°	465.7	491.1	510.2	514.9	524.5	529.3	546.7	559.5	565.8	573.8
102.5°	578.5	608.7	631.0	643.7	653.2	659.6	680.2	699.3	708.8	715.2
105°	681.8	713.6	740.6	753.4	764.5	770.8	793.1	815.3	829.6	837.6
107.5°	764.5	801.0	829.6	848.7	859.8	871.0	898.0	920.2	937.7	945.7
110°	839.2	875.7	905.9	928.2	940.9	952.0	982.2	1007.6	1026.7	1036.3



TEST NUMBER: P395450

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	901.2	940.9	971.1	994.9	1007.6	1023.5	1052.1	1080.8	1099.8	1111.0
115°	952.0	993.3	1025.1	1050.6	1064.9	1079.2	1112.5	1141.2	1160.2	1168.2
117.5°	994.9	1036.3	1069.6	1095.1	1111.0	1126.8	1160.2	1185.7	1206.3	1212.7
120°	1029.9	1071.2	1104.6	1133.2	1149.1	1163.4	1195.2	1222.2	1241.3	1246.0
122.5°	1053.7	1096.7	1131.6	1163.4	1177.7	1192.0	1222.2	1249.2	1266.7	1271.5
125°	1071.2	1115.7	1150.7	1184.1	1198.4	1212.7	1241.3	1268.3	1282.6	1289.0
127.5°	1082.3	1126.8	1165.0	1196.8	1212.7	1225.4	1254.0	1277.8	1292.1	1296.9
130°	1085.5	1131.6	1169.8	1203.1	1217.4	1230.2	1257.2	1281.0	1293.7	1296.9
132.5°	1085.5	1130.0	1169.8	1201.5	1215.9	1228.6	1254.0	1276.2	1289.0	1292.1
135°	1079.2	1122.1	1161.8	1193.6	1207.9	1220.6	1246.0	1265.1	1277.8	1279.4
137.5°	1068.0	1109.4	1147.5	1179.3	1193.6	1206.3	1228.6	1249.2	1260.4	1263.5
140°	1053.7	1091.9	1130.0	1160.2	1174.5	1185.7	1207.9	1225.4	1236.5	1239.7
142.5°	1034.7	1072.8	1107.8	1138.0	1149.1	1161.8	1180.9	1198.4	1207.9	1211.1
145°	1014.0	1050.6	1082.3	1109.4	1122.1	1133.2	1150.7	1166.6	1176.1	1179.3
147.5°	987.0	1023.5	1053.7	1079.2	1090.3	1101.4	1117.3	1131.6	1141.2	1144.3
150°	953.6	987.0	1018.8	1042.6	1053.7	1064.9	1080.8	1093.5	1103.0	1104.6
152.5°	920.2	952.0	979.0	1002.9	1014.0	1025.1	1039.4	1052.1	1063.3	1063.3
155°	888.4	915.5	940.9	961.6	971.1	980.6	994.9	1006.1	1015.6	1015.6
157.5°	855.1	880.5	901.2	920.2	928.2	936.1	948.8	958.4	966.3	964.7
160°	823.3	842.4	861.4	877.3	885.3	891.6	901.2	909.1	917.1	915.5
162.5°	788.3	805.8	821.7	832.8	839.2	843.9	853.5	861.4	866.2	866.2
165°	748.6	764.5	778.8	789.9	796.3	799.4	807.4	812.2	816.9	816.9
167.5°	707.3	720.0	732.7	742.2	748.6	751.8	759.7	762.9	769.2	767.7
170°	665.9	675.5	685.0	693.0	696.1	699.3	705.7	708.8	712.0	712.0
172.5°	632.6	635.7	640.5	646.9	646.9	648.5	651.6	653.2	654.8	654.8
175°	613.5	615.1	615.1	615.1	615.1	615.1	616.7	615.1	616.7	615.1
177.5°	605.5	605.5	604.0	604.0	602.4	604.0	602.4	600.8	600.8	599.2
180°	602.4	602.4	602.4	602.4	602.4	602.4	602.4	602.4	602.4	602.4

(END OF REPORT)