

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: P395448

Luminaire Tested: **I3-CL-60L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395448  
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 (4000K)  
Description: CORELITE I3, CLEAR TOP COVER  
6000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5856.2 lumens  
Efficiency: N/A  
Efficacy: 129.8 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

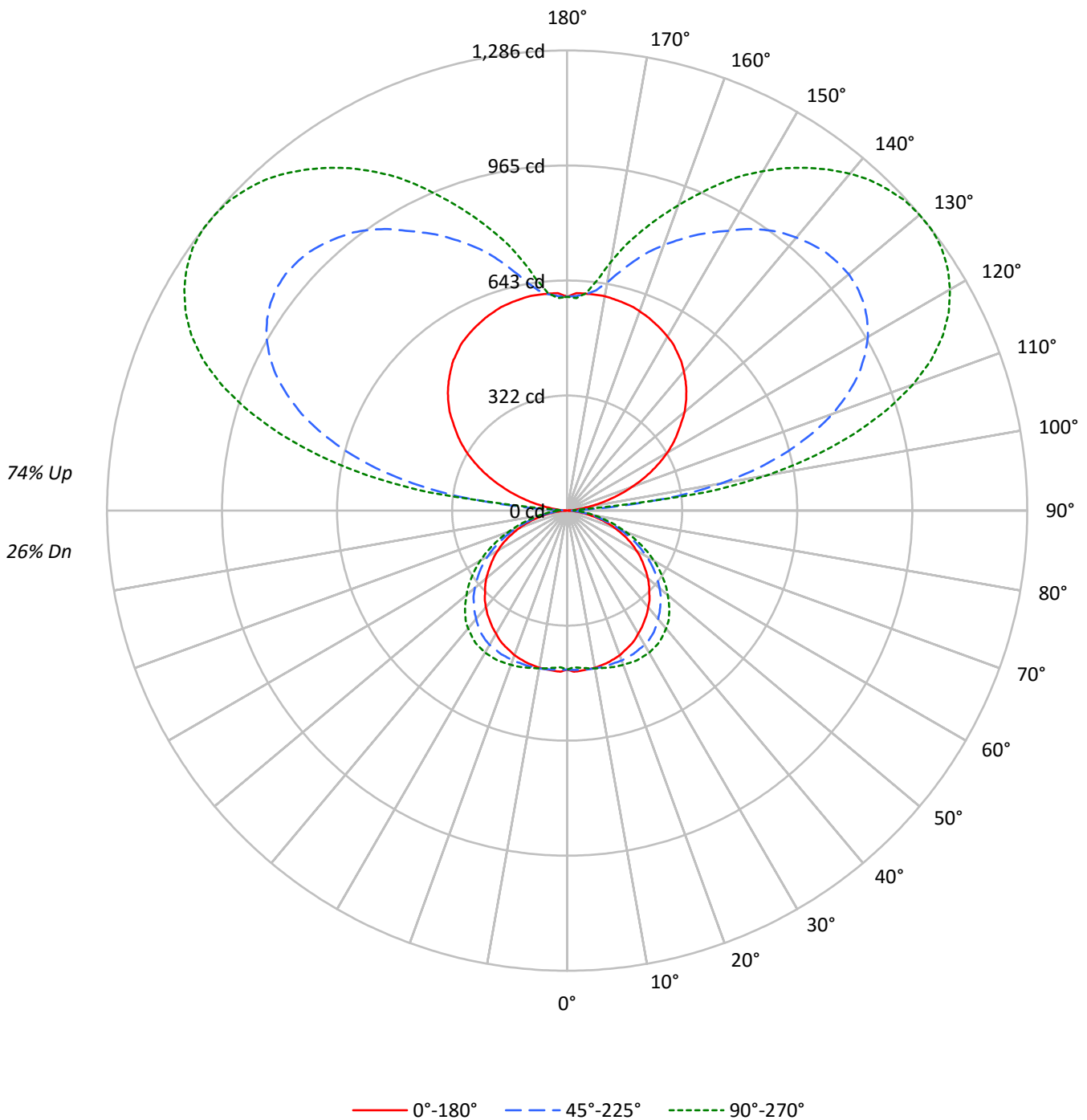
Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2443	2443	2443
5°	2469	2405	2365
10°	2471	2386	2359
15°	2474	2377	2371
20°	2478	2379	2392
25°	2474	2381	2423
30°	2460	2385	2441
35°	2454	2371	2443
40°	2446	2320	2412
45°	2420	2265	2352
50°	2398	2190	2247
55°	2349	2080	2118
60°	2291	1934	1955
65°	2198	1736	1733
70°	2040	1479	1467
75°	1761	1176	1178
80°	1367	836	863
85°	802	517	578



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.5	0.7
10°-20°	126.3	2.2
20°-30°	202.5	3.5
30°-40°	259.0	4.4
40°-50°	282.4	4.8
50°-60°	264.6	4.5
60°-70°	205.3	3.5
70°-80°	117.7	2.0
80°-90°	37.6	0.6
90°-100°	151.0	2.6
100°-110°	587.1	10.0
110°-120°	799.4	13.6
120°-130°	829.8	14.2
130°-140°	736.0	12.6
140°-150°	571.1	9.8
150°-160°	381.1	6.5
160°-170°	203.1	3.5
170°-180°	59.4	1.0
0°-30°	371.4	6.3
0°-40°	630.4	10.8
0°-60°	1177.5	20.1
0°-90°	1538.1	26.3
90°-120°	1537.6	26.3
90°-150°	3674.4	62.7
90°-180°	4318.0	73.7
0°-180°	5856.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	449	444	446	444	441	43
15°	440	438	448	454	454	124
25°	416	419	441	457	462	192
35°	377	384	419	441	449	236
45°	325	339	369	392	403	251
55°	260	274	299	320	326	233
65°	184	192	210	224	228	182
75°	96	101	110	121	124	103
85°	19	22	33	42	44	23
90°	2	5	11	16	19	2
95°	19	107	147	30	28	25
105°	124	377	638	758	830	133
115°	260	582	898	1056	1158	256
125°	377	686	1012	1188	1278	337
135°	471	722	1021	1198	1269	363
145°	537	722	958	1113	1169	337
155°	578	682	849	963	1007	267
165°	602	627	722	790	810	170
175°	608	605	607	610	610	58
180°	597	597	597	597	597	



TEST NUMBER: P395448

CATALOG NUMBER: I3-CL-60L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4
2.5°	450.7	449.1	449.1	446.0	446.0	444.4	444.4	444.4	444.4	444.4	446.0
5°	449.1	449.1	447.5	446.0	446.0	444.4	444.4	444.4	444.4	444.4	446.0
7.5°	447.5	447.5	446.0	444.4	444.4	444.4	444.4	444.4	444.4	444.4	447.5
10°	446.0	446.0	444.4	442.8	442.8	442.8	442.8	444.4	444.4	444.4	447.5
12.5°	442.8	441.2	441.2	439.7	439.7	439.7	441.2	441.2	442.8	444.4	447.5
15°	439.7	439.7	438.1	436.5	438.1	438.1	438.1	439.7	441.2	442.8	447.5
17.5°	434.9	434.9	433.4	433.4	433.4	434.9	434.9	436.5	439.7	442.8	446.0
20°	430.2	428.6	428.6	428.6	430.2	430.2	431.8	434.9	436.5	441.2	446.0
22.5°	422.3	423.9	422.3	422.3	423.9	425.5	427.1	430.2	433.4	438.1	442.8
25°	416.0	416.0	416.0	416.0	419.2	419.2	422.3	425.5	430.2	434.9	441.2
27.5°	408.2	408.2	408.2	409.7	411.3	412.9	414.5	419.2	423.9	430.2	436.5
30°	397.1	397.1	397.1	397.1	401.8	403.4	406.6	412.9	417.6	425.5	433.4
32.5°	387.7	387.7	387.7	389.2	392.4	394.0	397.1	405.0	411.3	419.2	427.1
35°	376.6	376.6	378.2	378.2	382.9	384.5	387.7	394.0	400.3	409.7	419.2
37.5°	365.6	365.6	367.2	368.8	371.9	375.1	378.2	384.5	390.8	398.7	408.2
40°	353.0	353.0	354.6	356.1	360.9	364.0	367.2	373.5	379.8	387.7	395.5
42.5°	340.4	340.4	342.0	343.5	348.3	351.4	354.6	362.5	368.8	376.6	382.9
45°	324.6	326.2	327.8	330.9	335.7	338.8	342.0	348.3	356.1	362.5	368.8
47.5°	310.4	312.0	313.6	316.8	321.5	324.6	327.8	334.1	340.4	346.7	354.6
50°	294.7	296.3	297.8	301.0	305.7	308.9	312.0	318.3	324.6	329.4	337.2
52.5°	277.4	278.9	280.5	283.7	290.0	291.5	294.7	301.0	305.7	312.0	318.3
55°	260.0	261.6	263.2	266.3	271.1	274.2	275.8	282.1	286.8	293.1	299.4
57.5°	242.7	244.3	245.8	249.0	252.1	255.3	256.9	261.6	267.9	272.6	278.9
60°	223.8	225.4	226.9	228.5	233.2	234.8	236.4	241.1	245.8	252.1	256.9
62.5°	204.9	204.9	206.4	208.0	212.7	214.3	215.9	219.0	225.4	228.5	233.2
65°	184.4	184.4	186.0	187.5	190.7	192.3	193.8	197.0	201.7	204.9	209.6
67.5°	162.3	162.3	163.9	165.5	168.6	170.2	170.2	174.9	178.1	181.2	184.4
70°	141.8	141.8	143.4	143.4	145.0	146.6	148.1	151.3	152.9	157.6	159.2
72.5°	119.8	119.8	119.8	119.8	122.9	122.9	124.5	127.6	129.2	132.4	135.5
75°	96.1	96.1	97.7	97.7	99.3	100.9	102.4	104.0	107.2	108.7	110.3
77.5°	75.6	74.1	75.6	77.2	78.8	78.8	80.4	81.9	83.5	86.7	88.2
80°	53.6	53.6	53.6	55.2	56.7	56.7	58.3	59.9	61.5	64.6	66.2
82.5°	34.7	34.7	36.2	36.2	37.8	39.4	39.4	41.0	42.5	45.7	47.3
85°	18.9	18.9	18.9	20.5	22.1	22.1	23.6	25.2	28.4	29.9	33.1
87.5°	6.3	6.3	7.9	9.5	11.0	11.0	12.6	14.2	15.8	18.9	20.5
90°	1.6	1.6	1.6	3.2	3.2	4.7	4.7	6.3	7.9	9.5	11.0
92.5°	6.3	11.0	17.3	25.2	23.6	25.2	17.3	11.0	11.0	11.0	12.6
95°	18.9	28.4	45.7	72.5	94.6	107.2	118.2	129.2	151.3	152.9	146.6
97.5°	37.8	52.0	83.5	118.2	157.6	178.1	193.8	226.9	261.6	283.7	310.4
100°	63.0	83.5	124.5	171.8	217.5	244.3	269.5	316.8	359.3	397.1	438.1
102.5°	93.0	116.6	167.0	225.4	282.1	312.0	338.8	394.0	452.3	502.7	546.8
105°	124.5	151.3	211.2	277.4	342.0	376.6	409.7	469.6	531.1	586.2	638.2
107.5°	159.2	187.5	252.1	326.2	398.7	438.1	474.3	539.0	603.6	663.4	718.6
110°	192.3	223.8	291.5	371.9	453.9	493.3	529.5	600.4	668.2	731.2	789.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	226.9	260.0	327.8	416.0	499.6	540.5	578.3	654.0	724.9	789.5	847.8
115°	260.0	291.5	362.5	453.9	539.0	581.5	622.5	699.7	773.8	838.4	898.3
117.5°	291.5	321.5	394.0	485.4	573.6	616.2	657.1	737.5	811.6	879.3	937.6
120°	323.1	349.8	428.6	512.2	602.0	644.5	687.1	767.5	843.1	910.9	970.7
122.5°	351.4	376.6	453.9	535.8	624.0	668.2	709.1	791.1	868.3	936.1	994.4
125°	376.6	400.3	477.5	554.7	643.0	685.5	728.1	808.4	885.6	951.8	1011.7
127.5°	401.8	425.5	494.8	573.6	655.6	699.7	740.7	821.0	896.7	964.4	1022.7
130°	428.6	446.0	512.2	591.0	668.2	709.1	751.7	828.9	903.0	969.2	1027.5
132.5°	450.7	466.5	529.5	605.1	677.6	717.0	754.8	832.1	906.1	969.2	1025.9
135°	471.2	483.8	542.1	617.7	685.5	721.8	758.0	830.5	903.0	966.0	1021.2
137.5°	490.1	502.7	553.1	627.2	691.8	723.3	758.0	825.8	895.1	958.1	1010.1
140°	507.4	516.9	562.6	631.9	695.0	724.9	754.8	817.9	882.5	944.0	996.0
142.5°	524.8	532.6	570.5	635.1	696.5	724.9	753.3	808.4	868.3	928.2	980.2
145°	537.4	545.3	576.8	636.7	695.0	721.8	747.0	799.0	852.6	907.7	958.1
147.5°	551.6	557.9	583.1	633.5	690.2	715.4	739.1	786.4	835.2	885.6	932.9
150°	561.0	567.3	586.2	630.4	682.4	706.0	729.6	773.8	817.9	862.0	903.0
152.5°	570.5	575.2	591.0	625.6	672.9	695.0	717.0	759.6	800.5	839.9	876.2
155°	578.3	583.1	594.1	622.5	661.9	682.4	702.8	743.8	781.6	816.3	849.4
157.5°	586.2	589.4	597.3	617.7	649.3	668.2	687.1	723.3	758.0	792.7	819.5
160°	592.5	594.1	600.4	616.2	638.2	652.4	669.7	702.8	734.4	764.3	789.5
162.5°	598.8	598.8	603.6	613.0	628.8	638.2	650.8	679.2	707.6	734.4	758.0
165°	602.0	602.0	605.1	611.4	620.9	627.2	635.1	654.0	676.1	699.7	721.8
167.5°	605.1	605.1	606.7	609.9	616.2	619.3	622.5	635.1	649.3	666.6	683.9
170°	608.3	606.7	606.7	609.9	611.4	613.0	614.6	620.9	627.2	638.2	647.7
172.5°	608.3	606.7	606.7	608.3	608.3	608.3	608.3	609.9	611.4	617.7	620.9
175°	608.3	606.7	606.7	606.7	606.7	605.1	605.1	605.1	605.1	605.1	606.7
177.5°	608.3	606.7	605.1	605.1	603.6	603.6	602.0	602.0	600.4	600.4	600.4
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4	444.4
2.5°	446.0	446.0	444.4	444.4	442.8	442.8	441.2	439.7	438.1	438.1
5°	447.5	446.0	444.4	444.4	444.4	442.8	442.8	442.8	441.2	441.2
7.5°	447.5	447.5	447.5	446.0	446.0	446.0	446.0	446.0	444.4	444.4
10°	449.1	449.1	449.1	449.1	449.1	449.1	449.1	447.5	447.5	447.5
12.5°	449.1	449.1	449.1	450.7	450.7	450.7	450.7	450.7	450.7	450.7
15°	450.7	450.7	452.3	452.3	453.9	453.9	455.4	455.4	455.4	453.9
17.5°	449.1	450.7	452.3	453.9	455.4	455.4	457.0	457.0	457.0	457.0
20°	449.1	452.3	453.9	455.4	457.0	457.0	458.6	460.2	460.2	458.6
22.5°	447.5	450.7	452.3	455.4	457.0	457.0	460.2	460.2	460.2	460.2
25°	446.0	449.1	452.3	455.4	457.0	457.0	460.2	460.2	461.7	461.7
27.5°	442.8	446.0	450.7	453.9	455.4	457.0	458.6	460.2	460.2	460.2
30°	438.1	442.8	447.5	450.7	452.3	453.9	455.4	457.0	458.6	458.6
32.5°	431.8	436.5	441.2	446.0	447.5	449.1	452.3	453.9	453.9	453.9
35°	425.5	430.2	434.9	439.7	441.2	442.8	446.0	447.5	449.1	449.1
37.5°	416.0	420.8	425.5	430.2	431.8	434.9	438.1	439.7	439.7	439.7
40°	401.8	409.7	416.0	420.8	422.3	425.5	427.1	430.2	430.2	430.2
42.5°	389.2	395.5	400.3	406.6	408.2	412.9	416.0	417.6	419.2	419.2
45°	375.1	381.4	386.1	390.8	392.4	395.5	398.7	400.3	401.8	403.4
47.5°	360.9	365.6	370.3	375.1	376.6	379.8	382.9	384.5	386.1	386.1
50°	343.5	348.3	353.0	357.7	359.3	362.5	364.0	365.6	367.2	367.2
52.5°	324.6	329.4	334.1	338.8	340.4	342.0	345.1	346.7	348.3	348.3
55°	305.7	310.4	313.6	318.3	319.9	321.5	323.1	326.2	327.8	326.2
57.5°	283.7	288.4	291.5	296.3	297.8	299.4	301.0	302.6	304.1	304.1
60°	260.0	264.7	269.5	272.6	274.2	275.8	277.4	278.9	280.5	280.5
62.5°	236.4	241.1	244.3	249.0	250.6	250.6	252.1	253.7	255.3	255.3
65°	212.7	217.5	219.0	223.8	223.8	225.4	226.9	228.5	228.5	228.5
67.5°	187.5	192.3	193.8	197.0	197.0	198.6	200.1	201.7	201.7	201.7
70°	163.9	165.5	168.6	170.2	171.8	171.8	173.3	174.9	176.5	174.9
72.5°	138.7	140.3	143.4	145.0	145.0	146.6	146.6	148.1	149.7	149.7
75°	113.5	116.6	118.2	119.8	121.3	121.3	122.9	124.5	124.5	124.5
77.5°	89.8	93.0	94.6	96.1	97.7	97.7	99.3	99.3	100.9	99.3
80°	69.3	70.9	72.5	74.1	75.6	75.6	77.2	78.8	78.8	78.8
82.5°	50.4	52.0	55.2	56.7	56.7	56.7	59.9	59.9	61.5	59.9
85°	34.7	36.2	39.4	41.0	42.5	42.5	42.5	44.1	45.7	44.1
87.5°	22.1	25.2	26.8	28.4	28.4	28.4	29.9	31.5	31.5	31.5
90°	12.6	12.6	14.2	15.8	15.8	17.3	17.3	18.9	18.9	18.9
92.5°	12.6	14.2	14.2	14.2	15.8	15.8	15.8	17.3	17.3	17.3
95°	107.2	77.2	44.1	34.7	29.9	29.9	28.4	29.9	28.4	28.4
97.5°	324.6	351.4	364.0	381.4	390.8	389.2	382.9	389.2	384.5	389.2
100°	461.7	486.9	505.9	510.6	520.0	524.8	542.1	554.7	561.0	568.9
102.5°	573.6	603.6	625.6	638.2	647.7	654.0	674.5	693.4	702.8	709.1
105°	676.1	707.6	734.4	747.0	758.0	764.3	786.4	808.4	822.6	830.5
107.5°	758.0	794.2	822.6	841.5	852.6	863.6	890.4	912.4	929.8	937.6
110°	832.1	868.3	898.3	920.3	932.9	944.0	973.9	999.1	1018.0	1027.5





TEST NUMBER: P395448

CATALOG NUMBER: I3-CL-60L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	893.5	932.9	962.9	986.5	999.1	1014.9	1043.2	1071.6	1090.5	1101.5
115°	944.0	984.9	1016.4	1041.7	1055.8	1070.0	1103.1	1131.5	1150.4	1158.3
117.5°	986.5	1027.5	1060.6	1085.8	1101.5	1117.3	1150.4	1175.6	1196.1	1202.4
120°	1021.2	1062.1	1095.2	1123.6	1139.4	1153.5	1185.1	1211.9	1230.8	1235.5
122.5°	1044.8	1087.4	1122.0	1153.5	1167.7	1181.9	1211.9	1238.6	1256.0	1260.7
125°	1062.1	1106.3	1140.9	1174.0	1188.2	1202.4	1230.8	1257.6	1271.7	1278.0
127.5°	1073.2	1117.3	1155.1	1186.6	1202.4	1215.0	1243.4	1267.0	1281.2	1285.9
130°	1076.3	1122.0	1159.8	1192.9	1207.1	1219.7	1246.5	1270.2	1282.8	1285.9
132.5°	1076.3	1120.4	1159.8	1191.4	1205.5	1218.2	1243.4	1265.4	1278.0	1281.2
135°	1070.0	1112.6	1152.0	1183.5	1197.7	1210.3	1235.5	1254.4	1267.0	1268.6
137.5°	1059.0	1100.0	1137.8	1169.3	1183.5	1196.1	1218.2	1238.6	1249.7	1252.8
140°	1044.8	1082.6	1120.4	1150.4	1164.6	1175.6	1197.7	1215.0	1226.0	1229.2
142.5°	1025.9	1063.7	1098.4	1128.3	1139.4	1152.0	1170.9	1188.2	1197.7	1200.8
145°	1005.4	1041.7	1073.2	1100.0	1112.6	1123.6	1140.9	1156.7	1166.2	1169.3
147.5°	978.6	1014.9	1044.8	1070.0	1081.1	1092.1	1107.8	1122.0	1131.5	1134.6
150°	945.5	978.6	1010.1	1033.8	1044.8	1055.8	1071.6	1084.2	1093.7	1095.2
152.5°	912.4	944.0	970.7	994.4	1005.4	1016.4	1030.6	1043.2	1054.3	1054.3
155°	880.9	907.7	932.9	953.4	962.9	972.3	986.5	997.5	1007.0	1007.0
157.5°	847.8	873.0	893.5	912.4	920.3	928.2	940.8	950.3	958.1	956.6
160°	816.3	835.2	854.1	869.9	877.8	884.1	893.5	901.4	909.3	907.7
162.5°	781.6	799.0	814.7	825.8	832.1	836.8	846.2	854.1	858.9	858.9
165°	742.2	758.0	772.2	783.2	789.5	792.7	800.5	805.3	810.0	810.0
167.5°	701.3	713.9	726.5	735.9	742.2	745.4	753.3	756.4	762.7	761.1
170°	660.3	669.7	679.2	687.1	690.2	693.4	699.7	702.8	706.0	706.0
172.5°	627.2	630.4	635.1	641.4	641.4	643.0	646.1	647.7	649.3	649.3
175°	608.3	609.9	609.9	609.9	609.9	609.9	611.4	609.9	611.4	609.9
177.5°	600.4	600.4	598.8	598.8	597.3	598.8	597.3	595.7	595.7	594.1
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

(END OF REPORT)