

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: P395472

Luminaire Tested: **I3-CL-80L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395472  
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-80L83050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, CLEAR TOP COVER  
8000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6959.6 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

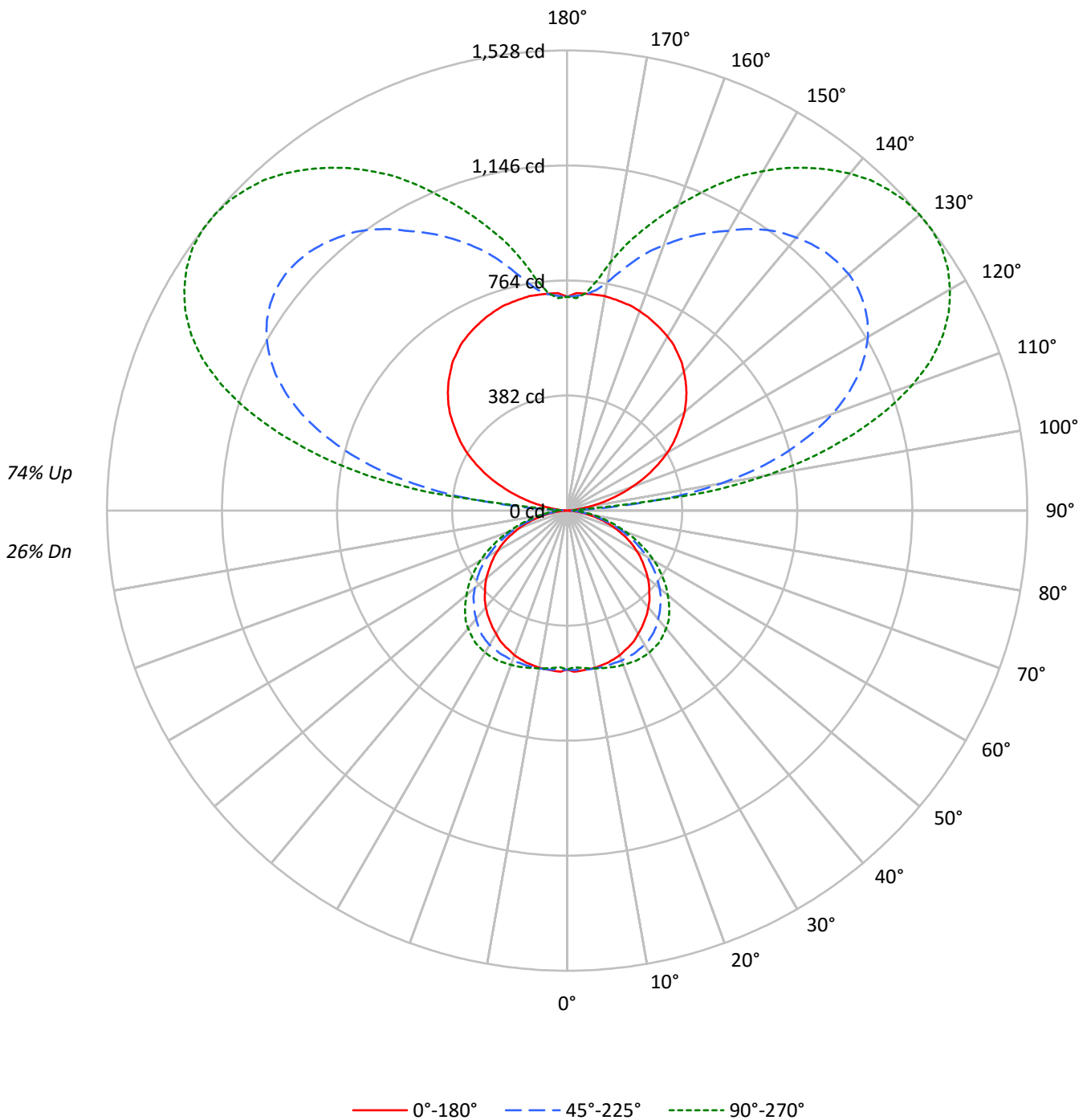
Input Watts (W): 62.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20						20							20
RC	80					70						30							10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50
RCR																			
0	101	101	101	101		91	91	91	91		70	70	70		51	51	51		34
1	92	88	84	81		82	79	75	73		61	59	57		45	43	42		30
2	84	77	71	65		74	68	63	59		53	50	47		39	37	35		26
3	76	67	60	54		68	60	54	49		47	42	39		34	32	29		23
4	70	59	51	45		62	53	46	41		41	37	33		30	27	25		20
5	64	52	44	39		56	47	40	35		37	32	28		27	24	21		18
6	58	47	39	33		52	42	35	30		33	28	24		24	21	18		16
7	54	42	34	29		48	38	31	26		30	25	21		22	19	16		15
8	50	38	30	25		44	34	27	23		27	22	18		20	17	14		14
9	46	34	27	22		41	31	25	20		24	20	16		18	15	13		12
10	43	31	24	20		38	28	22	18		22	18	15		17	13	11		11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2903	2903	2903
5°	2934	2858	2811
10°	2936	2836	2804
15°	2940	2825	2818
20°	2945	2827	2843
25°	2940	2830	2880
30°	2923	2834	2901
35°	2916	2818	2903
40°	2906	2758	2867
45°	2876	2691	2795
50°	2850	2603	2671
55°	2791	2471	2517
60°	2722	2298	2324
65°	2611	2064	2060
70°	2426	1757	1744
75°	2093	1398	1401
80°	1624	993	1025
85°	955	614	687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.5	0.7
10°-20°	150.1	2.2
20°-30°	240.7	3.5
30°-40°	307.8	4.4
40°-50°	335.6	4.8
50°-60°	314.5	4.5
60°-70°	244.0	3.5
70°-80°	139.8	2.0
80°-90°	44.7	0.6
90°-100°	179.5	2.6
100°-110°	697.8	10.0
110°-120°	950.0	13.6
120°-130°	986.1	14.2
130°-140°	874.7	12.6
140°-150°	678.7	9.8
150°-160°	452.9	6.5
160°-170°	241.4	3.5
170°-180°	70.6	1.0
0°-30°	441.4	6.3
0°-40°	749.2	10.8
0°-60°	1399.3	20.1
0°-90°	1827.9	26.3
90°-120°	1827.3	26.3
90°-150°	4366.8	62.7
90°-180°	5132.0	73.7
0°-180°	6959.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	534	528	530	528	524	51
15°	522	521	532	539	539	148
25°	494	498	524	543	549	228
35°	448	457	498	524	534	280
45°	386	403	438	466	479	298
55°	309	326	356	380	388	276
65°	219	228	249	266	272	216
75°	114	120	131	144	148	122
85°	22	26	39	51	52	27
90°	2	6	13	19	22	3
95°	22	127	174	36	34	30
105°	148	448	758	901	987	158
115°	309	691	1068	1255	1376	305
125°	448	815	1202	1412	1519	400
135°	560	858	1214	1423	1508	432
145°	639	858	1139	1322	1390	400
155°	687	811	1009	1144	1197	317
165°	715	745	858	938	963	202
175°	723	719	721	725	725	69
180°	710	710	710	710	710	



TEST NUMBER: P395472

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1
2.5°	535.6	533.7	533.7	530.0	530.0	528.1	528.1	528.1	528.1	528.1	530.0
5°	533.7	533.7	531.9	530.0	530.0	528.1	528.1	528.1	528.1	528.1	530.0
7.5°	531.9	531.9	530.0	528.1	528.1	528.1	528.1	528.1	528.1	528.1	531.9
10°	530.0	530.0	528.1	526.3	526.3	526.3	526.3	528.1	528.1	528.1	531.9
12.5°	526.3	524.4	524.4	522.5	522.5	522.5	524.4	524.4	526.3	528.1	531.9
15°	522.5	522.5	520.6	518.8	520.6	520.6	520.6	522.5	524.4	526.3	531.9
17.5°	516.9	516.9	515.0	515.0	515.0	516.9	516.9	518.8	522.5	526.3	530.0
20°	511.3	509.4	509.4	509.4	511.3	511.3	513.1	516.9	518.8	524.4	530.0
22.5°	501.9	503.8	501.9	501.9	503.8	505.7	507.5	511.3	515.0	520.6	526.3
25°	494.4	494.4	494.4	494.4	498.2	498.2	501.9	505.7	511.3	516.9	524.4
27.5°	485.1	485.1	485.1	486.9	488.8	490.7	492.5	498.2	503.8	511.3	518.8
30°	471.9	471.9	471.9	471.9	477.6	479.4	483.2	490.7	496.3	505.7	515.0
32.5°	460.7	460.7	460.7	462.6	466.3	468.2	471.9	481.3	488.8	498.2	507.5
35°	447.6	447.6	449.5	449.5	455.1	457.0	460.7	468.2	475.7	486.9	498.2
37.5°	434.5	434.5	436.4	438.2	442.0	445.7	449.5	457.0	464.5	473.8	485.1
40°	419.5	419.5	421.4	423.3	428.9	432.6	436.4	443.9	451.3	460.7	470.1
42.5°	404.5	404.5	406.4	408.3	413.9	417.6	421.4	430.7	438.2	447.6	455.1
45°	385.8	387.7	389.5	393.3	398.9	402.7	406.4	413.9	423.3	430.7	438.2
47.5°	368.9	370.8	372.7	376.4	382.1	385.8	389.5	397.0	404.5	412.0	421.4
50°	350.2	352.1	354.0	357.7	363.3	367.1	370.8	378.3	385.8	391.4	400.8
52.5°	329.6	331.5	333.4	337.1	344.6	346.5	350.2	357.7	363.3	370.8	378.3
55°	309.0	310.9	312.8	316.5	322.1	325.9	327.7	335.2	340.8	348.3	355.8
57.5°	288.4	290.3	292.2	295.9	299.6	303.4	305.3	310.9	318.4	324.0	331.5
60°	265.9	267.8	269.7	271.6	277.2	279.0	280.9	286.5	292.2	299.6	305.3
62.5°	243.5	243.5	245.3	247.2	252.8	254.7	256.6	260.3	267.8	271.6	277.2
65°	219.1	219.1	221.0	222.9	226.6	228.5	230.4	234.1	239.7	243.5	249.1
67.5°	192.9	192.9	194.8	196.6	200.4	202.3	202.3	207.9	211.6	215.4	219.1
70°	168.6	168.6	170.4	170.4	172.3	174.2	176.0	179.8	181.7	187.3	189.2
72.5°	142.3	142.3	142.3	142.3	146.1	146.1	148.0	151.7	153.6	157.3	161.1
75°	114.2	114.2	116.1	116.1	118.0	119.9	121.7	123.6	127.4	129.2	131.1
77.5°	89.9	88.0	89.9	91.8	93.6	93.6	95.5	97.4	99.3	103.0	104.9
80°	63.7	63.7	63.7	65.5	67.4	67.4	69.3	71.2	73.0	76.8	78.7
82.5°	41.2	41.2	43.1	43.1	44.9	46.8	46.8	48.7	50.6	54.3	56.2
85°	22.5	22.5	22.5	24.3	26.2	26.2	28.1	30.0	33.7	35.6	39.3
87.5°	7.5	7.5	9.4	11.2	13.1	13.1	15.0	16.9	18.7	22.5	24.3
90°	1.9	1.9	1.9	3.7	3.7	5.6	5.6	7.5	9.4	11.2	13.1
92.5°	7.5	13.1	20.6	30.0	28.1	30.0	20.6	13.1	13.1	13.1	15.0
95°	22.5	33.7	54.3	86.1	112.4	127.4	140.5	153.6	179.8	181.7	174.2
97.5°	44.9	61.8	99.3	140.5	187.3	211.6	230.4	269.7	310.9	337.1	368.9
100°	74.9	99.3	148.0	204.1	258.4	290.3	320.2	376.4	427.0	471.9	520.6
102.5°	110.5	138.6	198.5	267.8	335.2	370.8	402.7	468.2	537.5	597.4	649.9
105°	148.0	179.8	251.0	329.6	406.4	447.6	486.9	558.1	631.1	696.7	758.5
107.5°	189.2	222.9	299.6	387.7	473.8	520.6	563.7	640.5	717.3	788.4	854.0
110°	228.5	265.9	346.5	442.0	539.4	586.2	629.3	713.5	794.1	869.0	938.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	269.7	309.0	389.5	494.4	593.7	642.4	687.3	777.2	861.5	938.3	1007.6
115°	309.0	346.5	430.7	539.4	640.5	691.1	739.8	831.5	919.5	996.3	1067.5
117.5°	346.5	382.1	468.2	576.8	681.7	732.3	781.0	876.5	964.5	1045.0	1114.3
120°	383.9	415.8	509.4	608.7	715.4	766.0	816.5	912.1	1001.9	1082.5	1153.6
122.5°	417.6	447.6	539.4	636.8	741.6	794.1	842.8	940.1	1031.9	1112.4	1181.7
125°	447.6	475.7	567.5	659.2	764.1	814.7	865.2	960.7	1052.5	1131.2	1202.3
127.5°	477.6	505.7	588.1	681.7	779.1	831.5	880.2	975.7	1065.6	1146.2	1215.4
130°	509.4	530.0	608.7	702.3	794.1	842.8	893.3	985.1	1073.1	1151.8	1221.1
132.5°	535.6	554.3	629.3	719.2	805.3	852.1	897.1	988.8	1076.9	1151.8	1219.2
135°	560.0	574.9	644.2	734.1	814.7	857.7	900.8	987.0	1073.1	1148.0	1213.6
137.5°	582.4	597.4	657.4	745.4	822.2	859.6	900.8	981.3	1063.7	1138.7	1200.5
140°	603.0	614.3	668.6	751.0	825.9	861.5	897.1	972.0	1048.8	1121.8	1183.6
142.5°	623.6	633.0	678.0	754.7	827.8	861.5	895.2	960.7	1031.9	1103.1	1164.9
145°	638.6	648.0	685.4	756.6	825.9	857.7	887.7	949.5	1013.2	1078.7	1138.7
147.5°	655.5	663.0	692.9	752.9	820.3	850.3	878.3	934.5	992.6	1052.5	1108.7
150°	666.7	674.2	696.7	749.1	810.9	839.0	867.1	919.5	972.0	1024.4	1073.1
152.5°	678.0	683.6	702.3	743.5	799.7	825.9	852.1	902.7	951.4	998.2	1041.3
155°	687.3	692.9	706.0	739.8	786.6	810.9	835.3	884.0	928.9	970.1	1009.4
157.5°	696.7	700.4	709.8	734.1	771.6	794.1	816.5	859.6	900.8	942.0	973.9
160°	704.2	706.0	713.5	732.3	758.5	775.3	795.9	835.3	872.7	908.3	938.3
162.5°	711.7	711.7	717.3	728.5	747.2	758.5	773.5	807.2	840.9	872.7	900.8
165°	715.4	715.4	719.2	726.6	737.9	745.4	754.7	777.2	803.4	831.5	857.7
167.5°	719.2	719.2	721.0	724.8	732.3	736.0	739.8	754.7	771.6	792.2	812.8
170°	722.9	721.0	721.0	724.8	726.6	728.5	730.4	737.9	745.4	758.5	769.7
172.5°	722.9	721.0	721.0	722.9	722.9	722.9	722.9	724.8	726.6	734.1	737.9
175°	722.9	721.0	721.0	721.0	721.0	719.2	719.2	719.2	719.2	719.2	721.0
177.5°	722.9	721.0	719.2	719.2	717.3	717.3	715.4	715.4	713.5	713.5	713.5
180°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1
2.5°	530.0	530.0	528.1	528.1	526.3	526.3	524.4	522.5	520.6	520.6
5°	531.9	530.0	528.1	528.1	528.1	526.3	526.3	526.3	524.4	524.4
7.5°	531.9	531.9	531.9	530.0	530.0	530.0	530.0	530.0	528.1	528.1
10°	533.7	533.7	533.7	533.7	533.7	533.7	533.7	531.9	531.9	531.9
12.5°	533.7	533.7	533.7	535.6	535.6	535.6	535.6	535.6	535.6	535.6
15°	535.6	535.6	537.5	537.5	539.4	539.4	541.2	541.2	541.2	539.4
17.5°	533.7	535.6	537.5	539.4	541.2	541.2	543.1	543.1	543.1	543.1
20°	533.7	537.5	539.4	541.2	543.1	543.1	545.0	546.9	546.9	545.0
22.5°	531.9	535.6	537.5	541.2	543.1	543.1	546.9	546.9	546.9	546.9
25°	530.0	533.7	537.5	541.2	543.1	543.1	546.9	546.9	548.7	548.7
27.5°	526.3	530.0	535.6	539.4	541.2	543.1	545.0	546.9	546.9	546.9
30°	520.6	526.3	531.9	535.6	537.5	539.4	541.2	543.1	545.0	545.0
32.5°	513.1	518.8	524.4	530.0	531.9	533.7	537.5	539.4	539.4	539.4
35°	505.7	511.3	516.9	522.5	524.4	526.3	530.0	531.9	533.7	533.7
37.5°	494.4	500.0	505.7	511.3	513.1	516.9	520.6	522.5	522.5	522.5
40°	477.6	486.9	494.4	500.0	501.9	505.7	507.5	511.3	511.3	511.3
42.5°	462.6	470.1	475.7	483.2	485.1	490.7	494.4	496.3	498.2	498.2
45°	445.7	453.2	458.8	464.5	466.3	470.1	473.8	475.7	477.6	479.4
47.5°	428.9	434.5	440.1	445.7	447.6	451.3	455.1	457.0	458.8	458.8
50°	408.3	413.9	419.5	425.1	427.0	430.7	432.6	434.5	436.4	436.4
52.5°	385.8	391.4	397.0	402.7	404.5	406.4	410.1	412.0	413.9	413.9
55°	363.3	368.9	372.7	378.3	380.2	382.1	383.9	387.7	389.5	387.7
57.5°	337.1	342.7	346.5	352.1	354.0	355.8	357.7	359.6	361.5	361.5
60°	309.0	314.6	320.2	324.0	325.9	327.7	329.6	331.5	333.4	333.4
62.5°	280.9	286.5	290.3	295.9	297.8	297.8	299.6	301.5	303.4	303.4
65°	252.8	258.4	260.3	265.9	265.9	267.8	269.7	271.6	271.6	271.6
67.5°	222.9	228.5	230.4	234.1	234.1	236.0	237.8	239.7	239.7	239.7
70°	194.8	196.6	200.4	202.3	204.1	204.1	206.0	207.9	209.8	207.9
72.5°	164.8	166.7	170.4	172.3	172.3	174.2	174.2	176.0	177.9	177.9
75°	134.8	138.6	140.5	142.3	144.2	144.2	146.1	148.0	148.0	148.0
77.5°	106.7	110.5	112.4	114.2	116.1	116.1	118.0	118.0	119.9	118.0
80°	82.4	84.3	86.1	88.0	89.9	89.9	91.8	93.6	93.6	93.6
82.5°	59.9	61.8	65.5	67.4	67.4	67.4	71.2	71.2	73.0	71.2
85°	41.2	43.1	46.8	48.7	50.6	50.6	50.6	52.4	54.3	52.4
87.5°	26.2	30.0	31.8	33.7	33.7	33.7	35.6	37.5	37.5	37.5
90°	15.0	15.0	16.9	18.7	18.7	20.6	20.6	22.5	22.5	22.5
92.5°	15.0	16.9	16.9	16.9	18.7	18.7	18.7	20.6	20.6	20.6
95°	127.4	91.8	52.4	41.2	35.6	35.6	33.7	35.6	33.7	33.7
97.5°	385.8	417.6	432.6	453.2	464.5	462.6	455.1	462.6	457.0	462.6
100°	548.7	578.7	601.2	606.8	618.0	623.6	644.2	659.2	666.7	676.1
102.5°	681.7	717.3	743.5	758.5	769.7	777.2	801.6	824.0	835.3	842.8
105°	803.4	840.9	872.7	887.7	900.8	908.3	934.5	960.7	977.6	987.0
107.5°	900.8	943.9	977.6	1000.1	1013.2	1026.3	1058.1	1084.4	1105.0	1114.3
110°	988.8	1031.9	1067.5	1093.7	1108.7	1121.8	1157.4	1187.4	1209.8	1221.1





TEST NUMBER: P395472

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1061.9	1108.7	1144.3	1172.4	1187.4	1206.1	1239.8	1273.5	1296.0	1309.1
115°	1121.8	1170.5	1208.0	1237.9	1254.8	1271.6	1311.0	1344.7	1367.1	1376.5
117.5°	1172.4	1221.1	1260.4	1290.4	1309.1	1327.8	1367.1	1397.1	1421.5	1428.9
120°	1213.6	1262.3	1301.6	1335.3	1354.0	1370.9	1408.3	1440.2	1462.7	1468.3
122.5°	1241.7	1292.2	1333.4	1370.9	1387.7	1404.6	1440.2	1472.0	1492.6	1498.2
125°	1262.3	1314.7	1355.9	1395.2	1412.1	1428.9	1462.7	1494.5	1511.3	1518.8
127.5°	1275.4	1327.8	1372.8	1410.2	1428.9	1443.9	1477.6	1505.7	1522.6	1528.2
130°	1279.1	1333.4	1378.4	1417.7	1434.6	1449.5	1481.4	1509.5	1524.5	1528.2
132.5°	1279.1	1331.6	1378.4	1415.8	1432.7	1447.7	1477.6	1503.9	1518.8	1522.6
135°	1271.6	1322.2	1369.0	1406.5	1423.3	1438.3	1468.3	1490.7	1505.7	1507.6
137.5°	1258.5	1307.2	1352.2	1389.6	1406.5	1421.5	1447.7	1472.0	1485.1	1488.9
140°	1241.7	1286.6	1331.6	1367.1	1384.0	1397.1	1423.3	1443.9	1457.0	1460.8
142.5°	1219.2	1264.1	1305.3	1340.9	1354.0	1369.0	1391.5	1412.1	1423.3	1427.1
145°	1194.8	1237.9	1275.4	1307.2	1322.2	1335.3	1355.9	1374.6	1385.9	1389.6
147.5°	1163.0	1206.1	1241.7	1271.6	1284.7	1297.8	1316.6	1333.4	1344.7	1348.4
150°	1123.7	1163.0	1200.5	1228.6	1241.7	1254.8	1273.5	1288.5	1299.7	1301.6
152.5°	1084.4	1121.8	1153.6	1181.7	1194.8	1208.0	1224.8	1239.8	1252.9	1252.9
155°	1046.9	1078.7	1108.7	1133.0	1144.3	1155.5	1172.4	1185.5	1196.7	1196.7
157.5°	1007.6	1037.5	1061.9	1084.4	1093.7	1103.1	1118.1	1129.3	1138.7	1136.8
160°	970.1	992.6	1015.1	1033.8	1043.1	1050.6	1061.9	1071.2	1080.6	1078.7
162.5°	928.9	949.5	968.2	981.3	988.8	994.5	1005.7	1015.1	1020.7	1020.7
165°	882.1	900.8	917.7	930.8	938.3	942.0	951.4	957.0	962.6	962.6
167.5°	833.4	848.4	863.4	874.6	882.1	885.8	895.2	898.9	906.4	904.6
170°	784.7	795.9	807.2	816.5	820.3	824.0	831.5	835.3	839.0	839.0
172.5°	745.4	749.1	754.7	762.2	762.2	764.1	767.8	769.7	771.6	771.6
175°	722.9	724.8	724.8	724.8	724.8	724.8	726.6	724.8	726.6	724.8
177.5°	713.5	713.5	711.7	711.7	709.8	711.7	709.8	707.9	707.9	706.0
180°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8

(END OF REPORT)