

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: P395474

Luminaire Tested: **I3-CL-80L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395474
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 (4000K)
Description: CORELITE I3, CLEAR TOP COVER
8000 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: 7746.8 lumens
Efficiency: N/A
Efficacy: 121.6 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

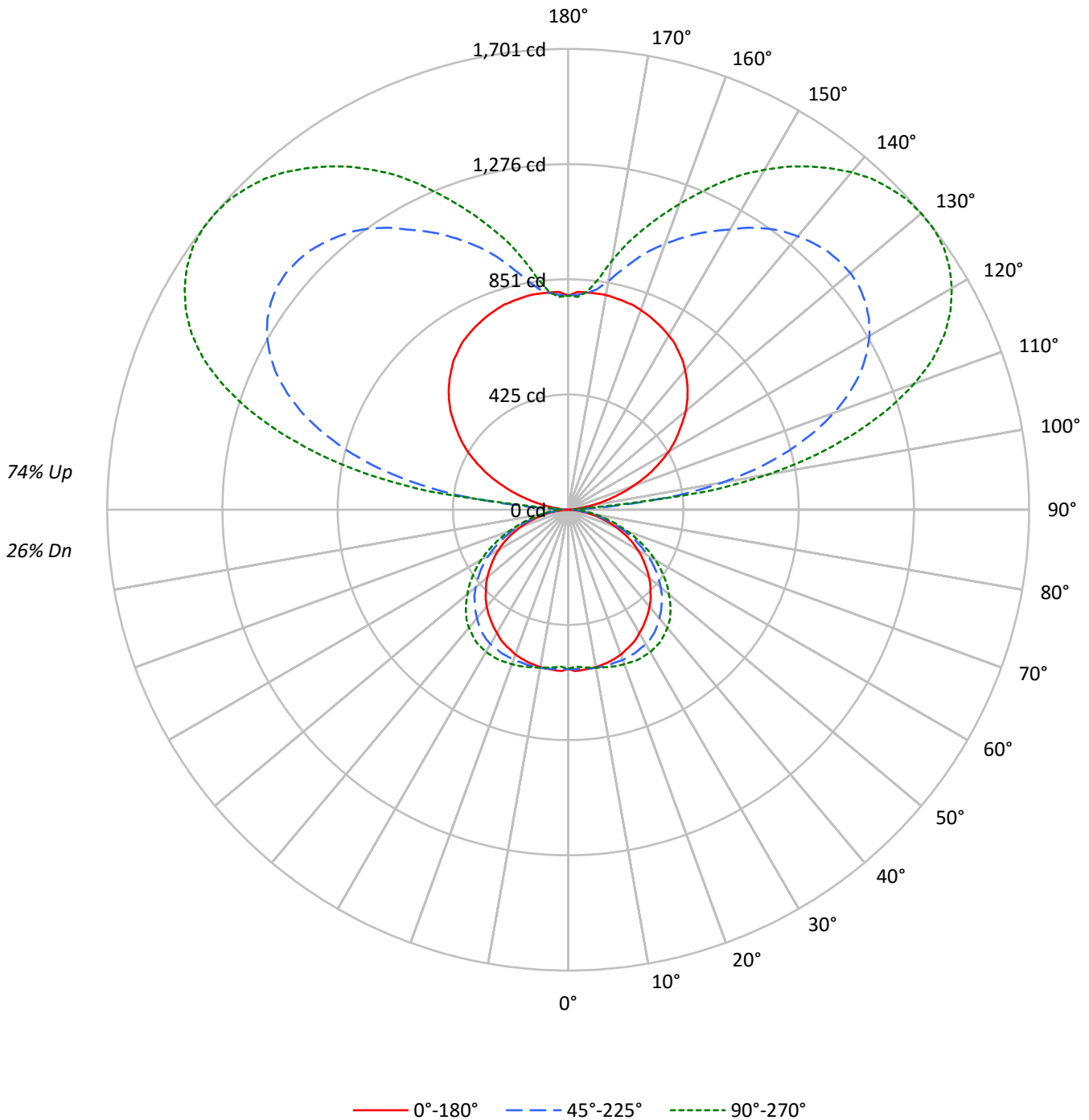
Input Watts (W): 63.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395474

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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	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°	3231	3231	3231
5°	3266	3181	3129
10°	3268	3156	3121
15°	3272	3145	3136
20°	3278	3146	3164
25°	3272	3150	3206
30°	3254	3155	3229
35°	3246	3137	3232
40°	3235	3069	3191
45°	3202	2996	3111
50°	3172	2897	2972
55°	3108	2751	2801
60°	3031	2558	2586
65°	2907	2297	2293
70°	2699	1955	1941
75°	2331	1555	1559
80°	1808	1106	1141
85°	1061	684	766



TEST NUMBER: P395474

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	0.7
10°-20°	167.1	2.2
20°-30°	267.9	3.5
30°-40°	342.7	4.4
40°-50°	373.6	4.8
50°-60°	350.1	4.5
60°-70°	271.6	3.5
70°-80°	155.7	2.0
80°-90°	49.8	0.6
90°-100°	199.8	2.6
100°-110°	776.7	10.0
110°-120°	1057.4	13.6
120°-130°	1097.6	14.2
130°-140°	973.7	12.6
140°-150°	755.4	9.8
150°-160°	504.2	6.5
160°-170°	268.7	3.5
170°-180°	78.6	1.0
0°-30°	491.3	6.3
0°-40°	833.9	10.8
0°-60°	1557.6	20.1
0°-90°	2034.6	26.3
90°-120°	2033.9	26.3
90°-150°	4860.7	62.7
90°-180°	5712.0	73.7
0°-180°	7746.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	594	588	590	588	584	57
15°	582	580	592	600	600	164
25°	550	554	584	604	611	254
35°	498	509	554	584	594	312
45°	429	448	488	519	534	332
55°	344	363	396	423	432	308
65°	244	254	277	296	302	240
75°	127	133	146	160	165	136
85°	25	29	44	56	58	30
90°	2	6	15	21	25	3
95°	25	142	194	40	38	33
105°	165	498	844	1003	1099	176
115°	344	769	1188	1397	1532	339
125°	498	907	1338	1572	1691	446
135°	623	955	1351	1584	1678	480
145°	711	955	1268	1472	1547	445
155°	765	903	1124	1274	1332	353
165°	796	830	955	1044	1072	225
175°	805	800	803	807	807	77
180°	790	790	790	790	790	



TEST NUMBER: P395474

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9
2.5°	596.2	594.1	594.1	589.9	589.9	587.9	587.9	587.9	587.9	587.9	589.9
5°	594.1	594.1	592.0	589.9	589.9	587.9	587.9	587.9	587.9	587.9	589.9
7.5°	592.0	592.0	589.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	592.0
10°	589.9	589.9	587.9	585.8	585.8	585.8	585.8	587.9	587.9	587.9	592.0
12.5°	585.8	583.7	583.7	581.6	581.6	581.6	583.7	583.7	585.8	587.9	592.0
15°	581.6	581.6	579.5	577.4	579.5	579.5	579.5	581.6	583.7	585.8	592.0
17.5°	575.4	575.4	573.3	573.3	573.3	575.4	575.4	577.4	581.6	585.8	589.9
20°	569.1	567.0	567.0	567.0	569.1	569.1	571.2	575.4	577.4	583.7	589.9
22.5°	558.7	560.8	558.7	558.7	560.8	562.8	564.9	569.1	573.3	579.5	585.8
25°	550.3	550.3	550.3	550.3	554.5	554.5	558.7	562.8	569.1	575.4	583.7
27.5°	539.9	539.9	539.9	542.0	544.1	546.2	548.3	554.5	560.8	569.1	577.4
30°	525.3	525.3	525.3	525.3	531.6	533.7	537.8	546.2	552.4	562.8	573.3
32.5°	512.8	512.8	512.8	514.9	519.1	521.2	525.3	535.7	544.1	554.5	564.9
35°	498.2	498.2	500.3	500.3	506.6	508.6	512.8	521.2	529.5	542.0	554.5
37.5°	483.6	483.6	485.7	487.8	492.0	496.1	500.3	508.6	517.0	527.4	539.9
40°	467.0	467.0	469.0	471.1	477.4	481.5	485.7	494.1	502.4	512.8	523.2
42.5°	450.3	450.3	452.4	454.4	460.7	464.9	469.0	479.5	487.8	498.2	506.6
45°	429.4	431.5	433.6	437.8	444.0	448.2	452.4	460.7	471.1	479.5	487.8
47.5°	410.7	412.8	414.8	419.0	425.3	429.4	433.6	441.9	450.3	458.6	469.0
50°	389.8	391.9	394.0	398.2	404.4	408.6	412.8	421.1	429.4	435.7	446.1
52.5°	366.9	369.0	371.1	375.2	383.6	385.7	389.8	398.2	404.4	412.8	421.1
55°	344.0	346.0	348.1	352.3	358.6	362.7	364.8	373.1	379.4	387.7	396.1
57.5°	321.0	323.1	325.2	329.4	333.5	337.7	339.8	346.0	354.4	360.6	369.0
60°	296.0	298.1	300.2	302.3	308.5	310.6	312.7	318.9	325.2	333.5	339.8
62.5°	271.0	271.0	273.1	275.2	281.4	283.5	285.6	289.8	298.1	302.3	308.5
65°	243.9	243.9	246.0	248.1	252.2	254.3	256.4	260.6	266.8	271.0	277.3
67.5°	214.7	214.7	216.8	218.9	223.1	225.1	225.1	231.4	235.6	239.7	243.9
70°	187.6	187.6	189.7	189.7	191.8	193.9	196.0	200.1	202.2	208.5	210.5
72.5°	158.4	158.4	158.4	158.4	162.6	162.6	164.7	168.9	170.9	175.1	179.3
75°	127.2	127.2	129.2	129.2	131.3	133.4	135.5	137.6	141.8	143.8	145.9
77.5°	100.1	98.0	100.1	102.1	104.2	104.2	106.3	108.4	110.5	114.7	116.7
80°	70.9	70.9	70.9	73.0	75.0	75.0	77.1	79.2	81.3	85.5	87.6
82.5°	45.9	45.9	47.9	47.9	50.0	52.1	52.1	54.2	56.3	60.5	62.5
85°	25.0	25.0	25.0	27.1	29.2	29.2	31.3	33.4	37.5	39.6	43.8
87.5°	8.3	8.3	10.4	12.5	14.6	14.6	16.7	18.8	20.8	25.0	27.1
90°	2.1	2.1	2.1	4.2	4.2	6.3	6.3	8.3	10.4	12.5	14.6
92.5°	8.3	14.6	22.9	33.4	31.3	33.4	22.9	14.6	14.6	14.6	16.7
95°	25.0	37.5	60.5	95.9	125.1	141.8	156.3	170.9	200.1	202.2	193.9
97.5°	50.0	68.8	110.5	156.3	208.5	235.6	256.4	300.2	346.0	375.2	410.7
100°	83.4	110.5	164.7	227.2	287.7	323.1	356.5	419.0	475.3	525.3	579.5
102.5°	123.0	154.3	221.0	298.1	373.1	412.8	448.2	521.2	598.3	665.0	723.4
105°	164.7	200.1	279.3	366.9	452.4	498.2	542.0	621.2	702.5	775.5	844.3
107.5°	210.5	248.1	333.5	431.5	527.4	579.5	627.5	712.9	798.4	877.6	950.6
110°	254.3	296.0	385.7	492.0	600.4	652.5	700.4	794.2	883.9	967.3	1044.4



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CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	300.2	344.0	433.6	550.3	660.8	715.0	765.1	865.1	958.9	1044.4	1121.5
115°	344.0	385.7	479.5	600.4	712.9	769.2	823.4	925.6	1023.6	1109.0	1188.2
117.5°	385.7	425.3	521.2	642.1	758.8	815.1	869.3	975.6	1073.6	1163.2	1240.4
120°	427.3	462.8	567.0	677.5	796.3	852.6	908.9	1015.2	1115.3	1204.9	1284.1
122.5°	464.9	498.2	600.4	708.8	825.5	883.9	938.1	1046.5	1148.6	1238.3	1315.4
125°	498.2	529.5	631.6	733.8	850.5	906.8	963.1	1069.4	1171.6	1259.1	1338.3
127.5°	531.6	562.8	654.6	758.8	867.2	925.6	979.8	1086.1	1186.2	1275.8	1352.9
130°	567.0	589.9	677.5	781.7	883.9	938.1	994.4	1096.5	1194.5	1282.0	1359.2
132.5°	596.2	617.0	700.4	800.5	896.4	948.5	998.5	1100.7	1198.7	1282.0	1357.1
135°	623.3	640.0	717.1	817.2	906.8	954.8	1002.7	1098.6	1194.5	1277.9	1350.8
137.5°	648.3	665.0	731.7	829.7	915.2	956.8	1002.7	1092.3	1184.1	1267.5	1336.2
140°	671.3	683.8	744.2	835.9	919.3	958.9	998.5	1081.9	1167.4	1248.7	1317.5
142.5°	694.2	704.6	754.6	840.1	921.4	958.9	996.5	1069.4	1148.6	1227.8	1296.6
145°	710.9	721.3	763.0	842.2	919.3	954.8	988.1	1056.9	1127.8	1200.7	1267.5
147.5°	729.6	738.0	771.3	838.0	913.1	946.4	977.7	1040.2	1104.9	1171.6	1234.1
150°	742.1	750.5	775.5	833.9	902.6	933.9	965.2	1023.6	1081.9	1140.3	1194.5
152.5°	754.6	760.9	781.7	827.6	890.1	919.3	948.5	1004.8	1059.0	1111.1	1159.1
155°	765.1	771.3	785.9	823.4	875.5	902.6	929.7	983.9	1034.0	1079.8	1123.6
157.5°	775.5	779.7	790.1	817.2	858.9	883.9	908.9	956.8	1002.7	1048.6	1084.0
160°	783.8	785.9	794.2	815.1	844.3	863.0	886.0	929.7	971.4	1011.0	1044.4
162.5°	792.2	792.2	798.4	810.9	831.8	844.3	861.0	898.5	936.0	971.4	1002.7
165°	796.3	796.3	800.5	808.8	821.3	829.7	840.1	865.1	894.3	925.6	954.8
167.5°	800.5	800.5	802.6	806.8	815.1	819.3	823.4	840.1	858.9	881.8	904.7
170°	804.7	802.6	802.6	806.8	808.8	810.9	813.0	821.3	829.7	844.3	856.8
172.5°	804.7	802.6	802.6	804.7	804.7	804.7	804.7	806.8	808.8	817.2	821.3
175°	804.7	802.6	802.6	802.6	802.6	800.5	800.5	800.5	800.5	800.5	802.6
177.5°	804.7	802.6	800.5	800.5	798.4	798.4	796.3	796.3	794.2	794.2	794.2
180°	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9	587.9
2.5°	589.9	589.9	587.9	587.9	585.8	585.8	583.7	581.6	579.5	579.5
5°	592.0	589.9	587.9	587.9	587.9	585.8	585.8	585.8	583.7	583.7
7.5°	592.0	592.0	592.0	589.9	589.9	589.9	589.9	589.9	587.9	587.9
10°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	592.0	592.0	592.0
12.5°	594.1	594.1	594.1	596.2	596.2	596.2	596.2	596.2	596.2	596.2
15°	596.2	596.2	598.3	598.3	600.4	600.4	602.5	602.5	602.5	600.4
17.5°	594.1	596.2	598.3	600.4	602.5	602.5	604.5	604.5	604.5	604.5
20°	594.1	598.3	600.4	602.5	604.5	604.5	606.6	608.7	608.7	606.6
22.5°	592.0	596.2	598.3	602.5	604.5	604.5	608.7	608.7	608.7	608.7
25°	589.9	594.1	598.3	602.5	604.5	604.5	608.7	608.7	610.8	610.8
27.5°	585.8	589.9	596.2	600.4	602.5	604.5	606.6	608.7	608.7	608.7
30°	579.5	585.8	592.0	596.2	598.3	600.4	602.5	604.5	606.6	606.6
32.5°	571.2	577.4	583.7	589.9	592.0	594.1	598.3	600.4	600.4	600.4
35°	562.8	569.1	575.4	581.6	583.7	585.8	589.9	592.0	594.1	594.1
37.5°	550.3	556.6	562.8	569.1	571.2	575.4	579.5	581.6	581.6	581.6
40°	531.6	542.0	550.3	556.6	558.7	562.8	564.9	569.1	569.1	569.1
42.5°	514.9	523.2	529.5	537.8	539.9	546.2	550.3	552.4	554.5	554.5
45°	496.1	504.5	510.7	517.0	519.1	523.2	527.4	529.5	531.6	533.7
47.5°	477.4	483.6	489.9	496.1	498.2	502.4	506.6	508.6	510.7	510.7
50°	454.4	460.7	467.0	473.2	475.3	479.5	481.5	483.6	485.7	485.7
52.5°	429.4	435.7	441.9	448.2	450.3	452.4	456.5	458.6	460.7	460.7
55°	404.4	410.7	414.8	421.1	423.2	425.3	427.3	431.5	433.6	431.5
57.5°	375.2	381.5	385.7	391.9	394.0	396.1	398.2	400.2	402.3	402.3
60°	344.0	350.2	356.5	360.6	362.7	364.8	366.9	369.0	371.1	371.1
62.5°	312.7	318.9	323.1	329.4	331.5	331.5	333.5	335.6	337.7	337.7
65°	281.4	287.7	289.8	296.0	296.0	298.1	300.2	302.3	302.3	302.3
67.5°	248.1	254.3	256.4	260.6	260.6	262.7	264.7	266.8	266.8	266.8
70°	216.8	218.9	223.1	225.1	227.2	227.2	229.3	231.4	233.5	231.4
72.5°	183.4	185.5	189.7	191.8	191.8	193.9	193.9	196.0	198.0	198.0
75°	150.1	154.3	156.3	158.4	160.5	160.5	162.6	164.7	164.7	164.7
77.5°	118.8	123.0	125.1	127.2	129.2	129.2	131.3	131.3	133.4	131.3
80°	91.7	93.8	95.9	98.0	100.1	100.1	102.1	104.2	104.2	104.2
82.5°	66.7	68.8	73.0	75.0	75.0	75.0	79.2	79.2	81.3	79.2
85°	45.9	47.9	52.1	54.2	56.3	56.3	56.3	58.4	60.5	58.4
87.5°	29.2	33.4	35.4	37.5	37.5	37.5	39.6	41.7	41.7	41.7
90°	16.7	16.7	18.8	20.8	20.8	22.9	22.9	25.0	25.0	25.0
92.5°	16.7	18.8	18.8	18.8	20.8	20.8	20.8	22.9	22.9	22.9
95°	141.8	102.1	58.4	45.9	39.6	39.6	37.5	39.6	37.5	37.5
97.5°	429.4	464.9	481.5	504.5	517.0	514.9	506.6	514.9	508.6	514.9
100°	610.8	644.1	669.2	675.4	687.9	694.2	717.1	733.8	742.1	752.6
102.5°	758.8	798.4	827.6	844.3	856.8	865.1	892.2	917.2	929.7	938.1
105°	894.3	936.0	971.4	988.1	1002.7	1011.0	1040.2	1069.4	1088.2	1098.6
107.5°	1002.7	1050.7	1088.2	1113.2	1127.8	1142.4	1177.8	1207.0	1229.9	1240.4
110°	1100.7	1148.6	1188.2	1217.4	1234.1	1248.7	1288.3	1321.7	1346.7	1359.2



TEST NUMBER: P395474

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1182.0	1234.1	1273.7	1305.0	1321.7	1342.5	1380.0	1417.5	1442.6	1457.2
115°	1248.7	1302.9	1344.6	1377.9	1396.7	1415.5	1459.2	1496.8	1521.8	1532.2
117.5°	1305.0	1359.2	1403.0	1436.3	1457.2	1478.0	1521.8	1555.1	1582.2	1590.6
120°	1350.8	1405.0	1448.8	1486.3	1507.2	1525.9	1567.6	1603.1	1628.1	1634.3
122.5°	1382.1	1438.4	1484.3	1525.9	1544.7	1563.5	1603.1	1638.5	1661.4	1667.7
125°	1405.0	1463.4	1509.3	1553.0	1571.8	1590.6	1628.1	1663.5	1682.3	1690.6
127.5°	1419.6	1478.0	1528.0	1569.7	1590.6	1607.2	1644.8	1676.0	1694.8	1701.1
130°	1423.8	1484.3	1534.3	1578.1	1596.8	1613.5	1648.9	1680.2	1696.9	1701.1
132.5°	1423.8	1482.2	1534.3	1576.0	1594.7	1611.4	1644.8	1674.0	1690.6	1694.8
135°	1415.5	1471.7	1523.9	1565.6	1584.3	1601.0	1634.3	1659.4	1676.0	1678.1
137.5°	1400.9	1455.1	1505.1	1546.8	1565.6	1582.2	1611.4	1638.5	1653.1	1657.3
140°	1382.1	1432.1	1482.2	1521.8	1540.5	1555.1	1584.3	1607.2	1621.8	1626.0
142.5°	1357.1	1407.1	1453.0	1492.6	1507.2	1523.9	1548.9	1571.8	1584.3	1588.5
145°	1330.0	1377.9	1419.6	1455.1	1471.7	1486.3	1509.3	1530.1	1542.6	1546.8
147.5°	1294.6	1342.5	1382.1	1415.5	1430.1	1444.6	1465.5	1484.3	1496.8	1500.9
150°	1250.8	1294.6	1336.2	1367.5	1382.1	1396.7	1417.5	1434.2	1446.7	1448.8
152.5°	1207.0	1248.7	1284.1	1315.4	1330.0	1344.6	1363.3	1380.0	1394.6	1394.6
155°	1165.3	1200.7	1234.1	1261.2	1273.7	1286.2	1305.0	1319.6	1332.1	1332.1
157.5°	1121.5	1154.9	1182.0	1207.0	1217.4	1227.8	1244.5	1257.0	1267.5	1265.4
160°	1079.8	1104.9	1129.9	1150.7	1161.1	1169.5	1182.0	1192.4	1202.8	1200.7
162.5°	1034.0	1056.9	1077.8	1092.3	1100.7	1106.9	1119.4	1129.9	1136.1	1136.1
165°	981.9	1002.7	1021.5	1036.1	1044.4	1048.6	1059.0	1065.2	1071.5	1071.5
167.5°	927.7	944.3	961.0	973.5	981.9	986.0	996.5	1000.6	1009.0	1006.9
170°	873.5	886.0	898.5	908.9	913.1	917.2	925.6	929.7	933.9	933.9
172.5°	829.7	833.9	840.1	848.4	848.4	850.5	854.7	856.8	858.9	858.9
175°	804.7	806.8	806.8	806.8	806.8	806.8	808.8	806.8	808.8	806.8
177.5°	794.2	794.2	792.2	792.2	790.1	792.2	790.1	788.0	788.0	785.9
180°	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1

(END OF REPORT)