

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: P395902

Luminaire Tested: **I3-WL-50L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-50L93050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4091.1 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

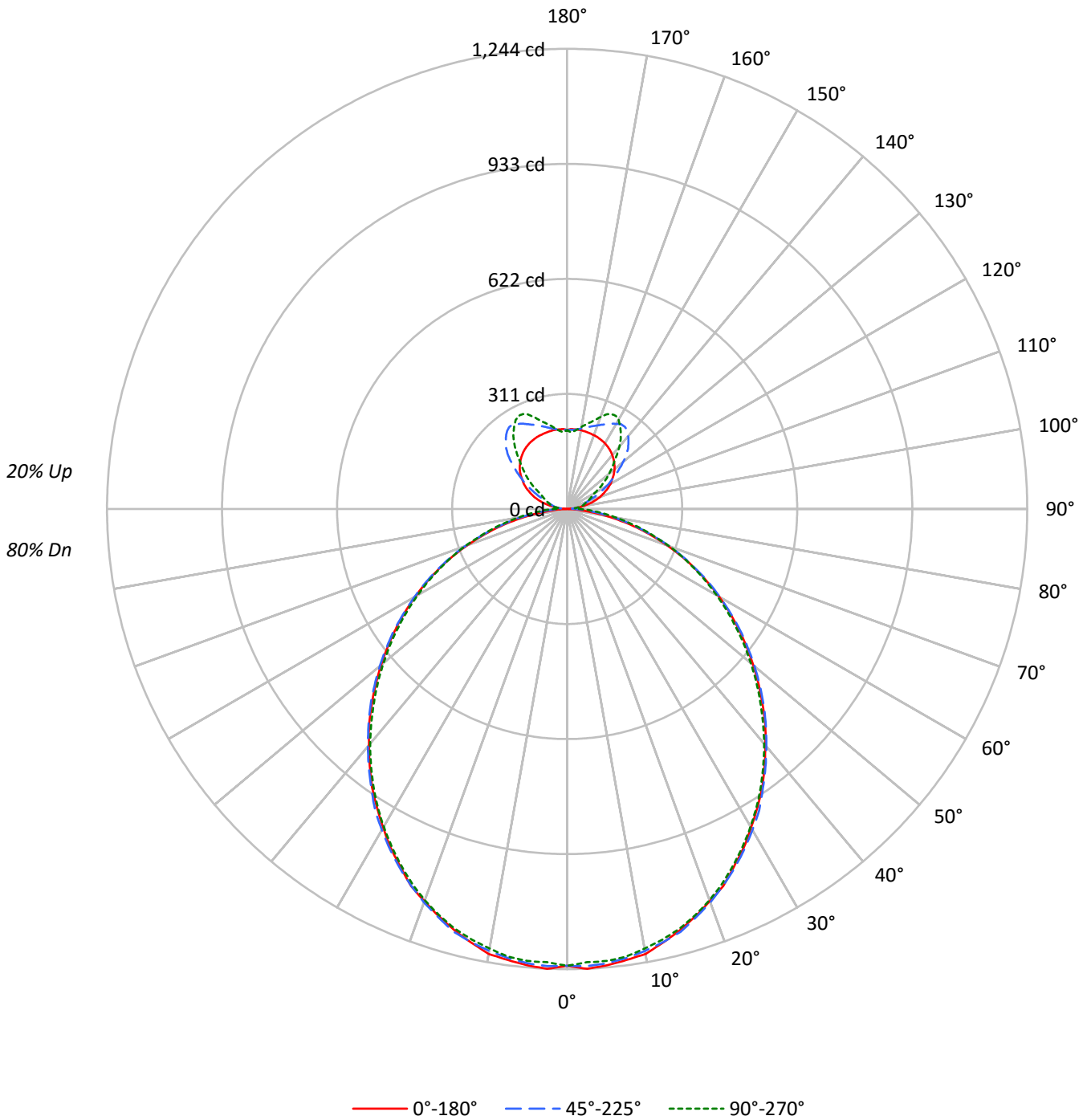
Input Watts (W): 51.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	56
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	47
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	40
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6788	6788	6788
5°	6805	6647	6575
10°	6766	6466	6361
15°	6630	6288	6134
20°	6499	6035	5869
25°	6343	5778	5577
30°	6161	5513	5277
35°	5991	5219	4967
40°	5776	4916	4645
45°	5570	4619	4306
50°	5348	4294	3964
55°	5116	3962	3615
60°	4856	3594	3255
65°	4557	3193	2868
70°	4134	2727	2463
75°	3561	2161	1977
80°	2718	1557	1476
85°	1417	931	1000



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CATALOG NUMBER: I3-WL-50L93050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	2.9
10°-20°	330.9	8.1
20°-30°	490.0	12.0
30°-40°	572.7	14.0
40°-50°	575.3	14.1
50°-60°	505.6	12.4
60°-70°	378.8	9.3
70°-80°	215.4	5.3
80°-90°	68.0	1.7
90°-100°	24.5	0.6
100°-110°	59.7	1.5
110°-120°	99.3	2.4
120°-130°	139.3	3.4
130°-140°	160.5	3.9
140°-150°	153.3	3.7
150°-160°	115.3	2.8
160°-170°	65.2	1.6
170°-180°	20.7	0.5
0°-30°	937.6	22.9
0°-40°	1510.3	36.9
0°-60°	2591.2	63.3
0°-90°	3253.4	79.5
90°-120°	183.5	4.5
90°-150°	636.6	15.6
90°-180°	838.0	20.5
0°-180°	4091.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1238	1226	1233	1229	1226	118
15°	1178	1168	1184	1175	1174	332
25°	1067	1064	1071	1067	1062	492
35°	919	912	922	915	913	574
45°	747	746	752	744	739	577
55°	566	568	570	563	557	506
65°	382	383	386	382	378	378
75°	194	198	203	209	209	206
85°	33	44	60	73	76	43
90°	1	6	19	28	32	3
95°	18	18	18	20	21	20
105°	70	60	45	47	48	73
115°	115	143	88	71	70	114
125°	152	209	158	126	117	136
135°	180	228	233	193	180	139
145°	198	226	272	260	253	124
155°	209	222	253	279	283	97
165°	214	217	230	239	242	61
175°	216	214	214	214	211	21
180°	213	213	213	213	213	



TEST NUMBER: P395902

CATALOG NUMBER: I3-WL-50L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1244.3	1242.2	1237.0	1231.8	1230.7	1229.7	1229.7	1228.6	1228.6	1230.7	1237.0
5°	1238.0	1237.0	1231.8	1226.5	1225.5	1225.5	1224.4	1224.4	1224.4	1226.5	1232.8
7.5°	1229.7	1227.6	1222.4	1217.1	1216.1	1216.1	1216.1	1215.0	1216.1	1217.1	1224.4
10°	1221.3	1220.3	1215.0	1208.8	1206.7	1206.7	1205.6	1203.5	1203.5	1205.6	1212.9
12.5°	1200.4	1199.4	1194.1	1190.0	1190.0	1191.0	1191.0	1192.1	1192.1	1194.1	1199.4
15°	1178.5	1177.4	1172.2	1168.0	1168.0	1168.0	1167.0	1167.0	1168.0	1174.3	1183.7
17.5°	1154.4	1153.4	1149.2	1145.0	1145.0	1145.0	1144.0	1144.0	1145.0	1148.2	1157.6
20°	1128.3	1127.3	1123.1	1118.9	1118.9	1118.9	1117.9	1118.9	1118.9	1123.1	1131.5
22.5°	1103.3	1101.2	1095.9	1091.8	1089.7	1089.7	1089.7	1088.6	1090.7	1093.8	1102.2
25°	1066.7	1065.6	1063.6	1060.4	1062.5	1063.6	1061.5	1059.4	1059.4	1063.6	1070.9
27.5°	1033.3	1031.2	1028.0	1024.9	1022.8	1023.9	1024.9	1027.0	1030.1	1031.2	1037.4
30°	994.6	993.6	990.4	986.2	987.3	988.3	988.3	988.3	990.4	999.8	1001.9
32.5°	957.0	955.9	952.8	948.6	949.7	950.7	949.7	950.7	952.8	957.0	966.4
35°	919.4	917.3	914.2	913.1	912.1	912.1	912.1	913.1	914.2	917.3	922.5
37.5°	876.5	874.5	872.4	869.2	871.3	873.4	874.5	873.4	874.5	878.6	880.7
40°	833.7	832.7	830.6	828.5	829.5	830.6	829.5	832.7	834.8	836.8	837.9
42.5°	793.0	790.9	788.8	787.7	787.7	788.8	788.8	790.9	790.9	796.1	795.1
45°	747.0	745.9	744.9	744.9	745.9	745.9	745.9	747.0	748.0	751.2	752.2
47.5°	702.1	701.0	701.0	701.0	701.0	702.1	703.1	706.2	704.2	705.2	706.2
50°	657.1	656.1	656.1	656.1	658.2	658.2	660.3	661.3	662.4	660.3	661.3
52.5°	611.2	610.1	612.2	612.2	614.3	614.3	617.4	614.3	616.4	615.4	615.4
55°	566.3	565.2	567.3	566.3	568.3	568.3	570.4	571.5	570.4	570.4	570.4
57.5°	520.3	519.2	520.3	521.3	522.4	522.4	525.5	525.5	522.4	524.5	523.4
60°	474.3	473.3	474.3	475.4	476.4	476.4	477.4	475.4	477.4	478.5	477.4
62.5°	428.3	427.3	429.4	428.3	429.4	430.4	430.4	433.6	432.5	432.5	431.5
65°	382.4	381.3	381.3	381.3	382.4	383.4	384.5	385.5	385.5	386.6	385.5
67.5°	335.4	334.3	335.4	334.3	335.4	336.4	338.5	339.5	339.5	340.6	339.5
70°	287.3	288.3	287.3	288.3	289.4	290.4	291.5	293.6	293.6	293.6	293.6
72.5°	240.3	239.2	239.2	238.2	240.3	241.3	242.4	245.5	245.5	246.6	246.6
75°	194.3	192.2	193.3	192.2	196.4	197.5	197.5	200.6	201.6	203.7	202.7
77.5°	149.4	149.4	147.3	150.4	151.5	153.6	155.7	157.8	158.8	161.9	161.9
80°	106.6	106.6	105.5	107.6	111.8	112.8	116.0	117.0	120.1	122.2	123.3
82.5°	67.9	67.9	67.9	71.0	74.2	75.2	78.4	81.5	83.6	86.7	87.8
85°	33.4	35.5	35.5	39.7	41.8	43.9	44.9	49.1	52.2	56.4	59.6
87.5°	10.4	11.5	12.5	14.6	18.8	19.9	21.9	26.1	29.3	33.4	36.6
90°	1.0	1.0	2.1	3.1	5.2	6.3	8.4	10.4	13.6	16.7	18.8
92.5°	7.3	7.3	8.4	8.4	8.4	8.4	8.4	9.4	10.4	12.5	13.6
95°	17.8	28.2	16.7	15.7	17.8	17.8	18.8	17.8	17.8	17.8	17.8
97.5°	29.3	52.2	34.5	24.0	23.0	24.0	24.0	26.1	27.2	28.2	28.2
100°	42.8	65.8	60.6	39.7	32.4	31.3	31.3	31.3	32.4	33.4	34.5
102.5°	56.4	75.2	86.7	61.6	46.0	41.8	39.7	38.7	37.6	38.7	38.7
105°	70.0	84.6	106.6	83.6	65.8	59.6	53.3	46.0	44.9	44.9	44.9
107.5°	82.5	94.0	121.2	108.7	85.7	79.4	72.1	60.6	53.3	52.2	51.2
110°	94.0	103.4	131.6	129.5	107.6	98.2	91.9	79.4	69.0	61.6	58.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	104.5	112.8	139.0	147.3	131.6	120.1	110.7	98.2	86.7	77.3	70.0
115°	114.9	122.2	145.2	161.9	152.5	143.1	132.7	117.0	105.5	96.1	87.8
117.5°	125.4	131.6	151.5	172.4	170.3	164.0	155.7	136.9	123.3	113.9	104.5
120°	134.8	141.0	157.8	179.7	186.0	180.7	175.5	158.8	142.1	131.6	123.3
122.5°	143.1	148.4	164.0	186.0	197.5	196.4	191.2	179.7	163.0	150.4	140.0
125°	151.5	156.7	170.3	190.1	205.8	208.9	206.9	197.5	184.9	170.3	157.8
127.5°	159.8	164.0	176.6	194.3	212.1	218.4	219.4	213.1	203.7	191.2	177.6
130°	167.2	171.3	181.8	197.5	216.3	223.6	227.8	226.7	219.4	211.0	197.5
132.5°	173.4	176.6	187.0	200.6	218.4	226.7	233.0	238.2	233.0	226.7	217.3
135°	179.7	182.8	191.2	203.7	219.4	227.8	236.1	244.5	245.5	240.3	233.0
137.5°	184.9	187.0	195.4	205.8	219.4	227.8	236.1	247.6	253.9	251.8	245.5
140°	190.1	192.2	198.5	208.9	220.4	227.8	235.1	248.6	257.0	260.1	257.0
142.5°	194.3	196.4	201.6	211.0	220.4	226.7	234.0	246.6	258.1	264.3	266.4
145°	198.5	199.5	204.8	212.1	220.4	225.7	231.9	244.5	256.0	265.4	271.6
147.5°	201.6	202.7	205.8	213.1	220.4	224.6	229.8	240.3	251.8	262.2	271.6
150°	204.8	204.8	207.9	213.1	220.4	223.6	227.8	237.2	246.6	257.0	265.4
152.5°	206.9	206.9	210.0	214.2	219.4	222.5	226.7	234.0	242.4	251.8	260.1
155°	208.9	208.9	211.0	214.2	219.4	221.5	224.6	230.9	238.2	245.5	252.8
157.5°	211.0	211.0	212.1	215.2	218.4	220.4	223.6	228.8	234.0	240.3	246.6
160°	212.1	212.1	213.1	215.2	217.3	219.4	221.5	225.7	230.9	235.1	240.3
162.5°	213.1	213.1	214.2	215.2	217.3	218.4	219.4	223.6	226.7	230.9	235.1
165°	214.2	214.2	214.2	215.2	216.3	217.3	218.4	220.4	223.6	226.7	229.8
167.5°	215.2	215.2	215.2	215.2	216.3	216.3	217.3	218.4	220.4	222.5	224.6
170°	216.3	215.2	215.2	216.3	215.2	215.2	216.3	217.3	217.3	219.4	220.4
172.5°	216.3	216.3	215.2	215.2	215.2	215.2	215.2	215.2	215.2	216.3	217.3
175°	216.3	216.3	215.2	215.2	215.2	214.2	214.2	214.2	214.2	214.2	214.2
177.5°	216.3	216.3	215.2	215.2	214.2	214.2	214.2	214.2	214.2	214.2	214.2
180°	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9	1234.9
2.5°	1243.2	1238.0	1235.9	1234.9	1233.8	1232.8	1230.7	1228.6	1226.5	1226.5
5°	1238.0	1232.8	1230.7	1229.7	1228.6	1227.6	1226.5	1226.5	1226.5	1226.5
7.5°	1229.7	1224.4	1222.4	1221.3	1221.3	1220.3	1220.3	1220.3	1219.2	1220.3
10°	1217.1	1211.9	1210.9	1209.8	1208.8	1206.7	1206.7	1206.7	1205.6	1206.7
12.5°	1201.5	1196.2	1195.2	1194.1	1193.1	1192.1	1192.1	1191.0	1191.0	1192.1
15°	1185.8	1178.5	1176.4	1176.4	1175.3	1174.3	1175.3	1174.3	1174.3	1174.3
17.5°	1162.8	1159.7	1156.5	1154.4	1153.4	1152.4	1152.4	1151.3	1151.3	1151.3
20°	1132.5	1132.5	1132.5	1127.3	1126.2	1125.2	1125.2	1125.2	1125.2	1125.2
22.5°	1103.3	1098.0	1102.2	1099.1	1097.0	1094.9	1095.9	1095.9	1095.9	1095.9
25°	1070.9	1066.7	1067.7	1068.8	1066.7	1063.6	1063.6	1063.6	1063.6	1062.5
27.5°	1036.4	1033.3	1032.2	1033.3	1035.3	1033.3	1030.1	1027.0	1028.0	1028.0
30°	998.8	997.7	996.7	994.6	996.7	997.7	992.5	991.5	991.5	991.5
32.5°	961.2	960.1	957.0	954.9	955.9	958.0	955.9	953.9	953.9	953.9
35°	923.6	919.4	916.2	915.2	915.2	917.3	916.2	913.1	913.1	913.1
37.5°	879.7	880.7	875.5	874.5	874.5	874.5	876.5	871.3	872.4	871.3
40°	836.8	837.9	834.8	831.6	832.7	830.6	833.7	828.5	828.5	828.5
42.5°	794.0	791.9	793.0	786.7	787.7	787.7	788.8	785.6	784.6	783.6
45°	750.1	748.0	747.0	743.9	743.9	742.8	742.8	738.6	738.6	738.6
47.5°	704.2	703.1	701.0	698.9	698.9	697.9	695.8	694.8	693.7	693.7
50°	660.3	657.1	654.0	655.1	654.0	653.0	650.9	649.8	648.8	647.7
52.5°	613.3	613.3	609.1	609.1	609.1	608.0	606.0	603.9	603.9	602.8
55°	567.3	566.3	563.1	562.1	563.1	562.1	560.0	557.9	557.9	556.8
57.5°	521.3	519.2	518.2	518.2	517.1	517.1	514.0	511.9	513.0	511.9
60°	474.3	474.3	473.3	472.2	472.2	471.2	468.0	468.0	468.0	467.0
62.5°	429.4	429.4	427.3	426.3	427.3	426.3	425.2	424.2	423.1	422.1
65°	382.4	383.4	381.3	382.4	382.4	380.3	380.3	379.2	379.2	378.2
67.5°	338.5	338.5	337.5	337.5	338.5	337.5	337.5	336.4	336.4	335.4
70°	293.6	295.7	294.6	294.6	294.6	293.6	293.6	293.6	292.5	293.6
72.5°	248.6	248.6	248.6	248.6	248.6	249.7	249.7	249.7	249.7	248.6
75°	206.9	207.9	206.9	207.9	208.9	208.9	208.9	208.9	210.0	208.9
77.5°	166.1	167.2	167.2	169.2	169.2	169.2	170.3	170.3	170.3	170.3
80°	127.5	128.5	129.5	131.6	131.6	133.7	134.8	134.8	134.8	134.8
82.5°	91.9	95.1	96.1	99.3	100.3	100.3	102.4	103.4	103.4	103.4
85°	63.7	66.9	69.0	71.0	73.1	73.1	75.2	75.2	76.3	76.3
87.5°	39.7	42.8	44.9	48.1	49.1	50.1	51.2	52.2	53.3	53.3
90°	21.9	24.0	26.1	28.2	28.2	29.3	30.3	31.3	32.4	32.4
92.5°	15.7	16.7	18.8	19.9	19.9	20.9	21.9	21.9	23.0	23.0
95°	17.8	18.8	18.8	19.9	19.9	19.9	20.9	20.9	20.9	20.9
97.5°	27.2	27.2	27.2	26.1	26.1	26.1	26.1	26.1	26.1	26.1
100°	35.5	36.6	36.6	36.6	37.6	37.6	37.6	37.6	36.6	36.6
102.5°	39.7	40.7	41.8	42.8	42.8	42.8	43.9	43.9	43.9	43.9
105°	44.9	44.9	46.0	47.0	47.0	47.0	48.1	48.1	48.1	48.1
107.5°	51.2	51.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
110°	58.5	58.5	58.5	57.5	58.5	57.5	57.5	57.5	57.5	57.5



TEST NUMBER: P395902

CATALOG NUMBER: I3-WL-50L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	66.9	65.8	65.8	64.8	64.8	64.8	63.7	63.7	63.7	63.7
115°	80.4	75.2	73.1	71.0	71.0	71.0	70.0	70.0	70.0	70.0
117.5°	97.2	89.8	85.7	81.5	80.4	79.4	77.3	77.3	76.3	76.3
120°	114.9	107.6	101.3	96.1	94.0	93.0	89.8	87.8	85.7	85.7
122.5°	131.6	124.3	118.1	112.8	110.7	108.7	105.5	103.4	101.3	101.3
125°	148.4	141.0	134.8	129.5	126.4	124.3	121.2	119.1	117.0	117.0
127.5°	166.1	156.7	150.4	145.2	142.1	141.0	136.9	134.8	132.7	132.7
130°	186.0	174.5	166.1	159.8	157.8	155.7	152.5	150.4	148.4	148.4
132.5°	205.8	194.3	184.9	176.6	173.4	171.3	167.2	165.1	163.0	163.0
135°	224.6	214.2	204.8	196.4	193.3	190.1	186.0	181.8	179.7	179.7
137.5°	239.2	231.9	223.6	216.3	213.1	210.0	205.8	201.6	198.5	199.5
140°	251.8	245.5	240.3	235.1	231.9	229.8	225.7	222.5	219.4	219.4
142.5°	263.3	258.1	252.8	248.6	247.6	246.6	243.4	240.3	238.2	238.2
145°	273.7	270.6	266.4	261.2	260.1	259.1	256.0	253.9	252.8	252.8
147.5°	276.9	277.9	276.9	273.7	272.7	271.6	269.5	267.5	266.4	266.4
150°	274.8	278.9	281.0	281.0	281.0	281.0	281.0	278.9	277.9	277.9
152.5°	268.5	274.8	278.9	282.1	283.1	284.2	284.2	285.2	284.2	284.2
155°	261.2	267.5	273.7	276.9	278.9	280.0	282.1	283.1	284.2	283.1
157.5°	252.8	258.1	262.2	268.5	270.6	272.7	274.8	276.9	277.9	276.9
160°	245.5	249.7	252.8	257.0	258.1	260.1	262.2	263.3	265.4	264.3
162.5°	238.2	241.3	244.5	246.6	248.6	249.7	251.8	252.8	253.9	252.8
165°	233.0	235.1	236.1	238.2	239.2	240.3	241.3	242.4	242.4	242.4
167.5°	226.7	228.8	229.8	230.9	231.9	233.0	233.0	234.0	234.0	234.0
170°	221.5	222.5	223.6	224.6	224.6	225.7	225.7	225.7	226.7	225.7
172.5°	217.3	217.3	217.3	218.4	218.4	218.4	218.4	218.4	218.4	217.3
175°	215.2	215.2	214.2	214.2	214.2	214.2	214.2	213.1	212.1	211.0
177.5°	214.2	213.1	213.1	212.1	212.1	212.1	211.0	210.0	208.9	207.9
180°	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1

(END OF REPORT)