

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: P395856

Luminaire Tested: **I3-WL-40L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395856
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-40L82765-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3717.0 lumens
Efficiency: N/A
Efficacy: 100.7 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

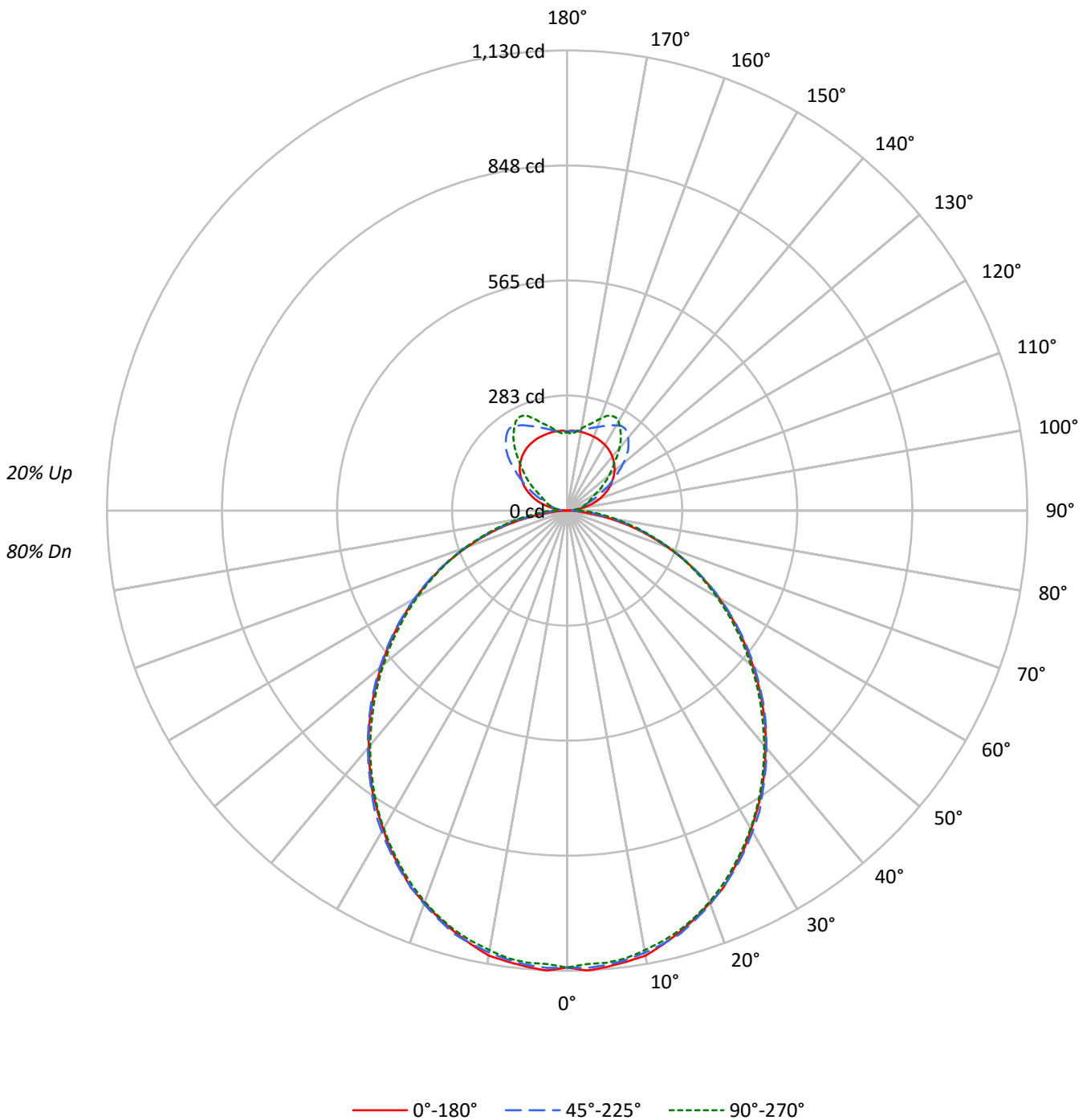
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6167	6167	6167
5°	6183	6040	5974
10°	6147	5875	5779
15°	6024	5713	5573
20°	5905	5483	5333
25°	5763	5250	5067
30°	5597	5009	4794
35°	5443	4741	4513
40°	5248	4466	4220
45°	5060	4197	3912
50°	4859	3902	3602
55°	4648	3600	3284
60°	4412	3265	2957
65°	4140	2902	2606
70°	3755	2477	2237
75°	3236	1963	1796
80°	2468	1414	1340
85°	1290	845	909



TEST NUMBER: P395856

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	2.9
10°-20°	300.7	8.1
20°-30°	445.2	12.0
30°-40°	520.3	14.0
40°-50°	522.7	14.1
50°-60°	459.4	12.4
60°-70°	344.2	9.3
70°-80°	195.7	5.3
80°-90°	61.8	1.7
90°-100°	22.3	0.6
100°-110°	54.3	1.5
110°-120°	90.2	2.4
120°-130°	126.5	3.4
130°-140°	145.8	3.9
140°-150°	139.2	3.7
150°-160°	104.7	2.8
160°-170°	59.3	1.6
170°-180°	18.8	0.5
0°-30°	851.9	22.9
0°-40°	1372.2	36.9
0°-60°	2354.2	63.3
0°-90°	2955.9	79.5
90°-120°	166.7	4.5
90°-150°	578.3	15.6
90°-180°	761.0	20.5
0°-180°	3717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1125	1113	1120	1116	1114	107
15°	1071	1061	1075	1068	1067	302
25°	969	966	973	969	965	447
35°	835	829	838	832	830	521
45°	679	678	683	676	671	524
55°	514	516	518	512	506	460
65°	347	348	350	347	344	343
75°	177	179	184	190	190	187
85°	30	40	54	66	69	39
90°	1	6	17	26	29	2
95°	16	16	16	18	19	18
105°	64	54	41	43	44	66
115°	104	130	80	64	64	103
125°	138	190	143	115	106	123
135°	163	207	212	176	163	126
145°	180	205	247	236	230	113
155°	190	201	230	253	257	88
165°	195	197	209	217	220	55
175°	196	195	195	195	192	19
180°	194	194	194	194	194	



TEST NUMBER: P395856

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1130.5	1128.6	1123.9	1119.1	1118.2	1117.2	1117.2	1116.3	1116.3	1118.2	1123.9
5°	1124.8	1123.9	1119.1	1114.4	1113.4	1113.4	1112.5	1112.5	1112.5	1114.4	1120.1
7.5°	1117.2	1115.3	1110.6	1105.8	1104.9	1104.9	1104.9	1103.9	1104.9	1105.8	1112.5
10°	1109.6	1108.7	1103.9	1098.2	1096.3	1096.3	1095.4	1093.5	1093.5	1095.4	1102.0
12.5°	1090.6	1089.7	1084.9	1081.1	1081.1	1082.1	1082.1	1083.0	1083.0	1084.9	1089.7
15°	1070.7	1069.8	1065.0	1061.2	1061.2	1061.2	1060.3	1060.3	1061.2	1066.9	1075.4
17.5°	1048.9	1047.9	1044.1	1040.3	1040.3	1040.3	1039.4	1039.4	1040.3	1043.2	1051.7
20°	1025.1	1024.2	1020.4	1016.6	1016.6	1016.6	1015.6	1016.6	1016.6	1020.4	1028.0
22.5°	1002.4	1000.5	995.7	991.9	990.0	990.0	990.0	989.1	991.0	993.8	1001.4
25°	969.1	968.2	966.3	963.4	965.3	966.3	964.4	962.5	962.5	966.3	972.9
27.5°	938.8	936.9	934.0	931.2	929.3	930.2	931.2	933.1	935.9	936.9	942.6
30°	903.6	902.7	899.8	896.0	897.0	897.9	897.9	897.9	899.8	908.4	910.3
32.5°	869.5	868.5	865.7	861.9	862.8	863.8	862.8	863.8	865.7	869.5	878.0
35°	835.3	833.4	830.6	829.6	828.7	828.7	828.7	829.6	830.6	833.4	838.1
37.5°	796.4	794.5	792.6	789.7	791.6	793.5	794.5	793.5	794.5	798.3	800.2
40°	757.5	756.5	754.6	752.7	753.7	754.6	753.7	756.5	758.4	760.3	761.3
42.5°	720.4	718.5	716.6	715.7	715.7	716.6	716.6	718.5	718.5	723.3	722.3
45°	678.7	677.7	676.8	676.8	677.7	677.7	677.7	678.7	679.6	682.5	683.4
47.5°	637.9	636.9	636.9	636.9	636.9	637.9	638.8	641.7	639.8	640.7	641.7
50°	597.0	596.1	596.1	596.1	598.0	598.0	599.9	600.8	601.8	599.9	600.8
52.5°	555.3	554.3	556.2	556.2	558.1	558.1	561.0	558.1	560.0	559.1	559.1
55°	514.5	513.5	515.4	514.5	516.4	516.4	518.3	519.2	518.3	518.3	518.3
57.5°	472.7	471.8	472.7	473.7	474.6	474.6	477.4	477.4	474.6	476.5	475.6
60°	430.9	430.0	430.9	431.9	432.8	432.8	433.8	431.9	433.8	434.7	433.8
62.5°	389.2	388.2	390.1	389.2	390.1	391.1	391.1	393.9	393.0	393.0	392.0
65°	347.4	346.5	346.5	346.5	347.4	348.4	349.3	350.3	350.3	351.2	350.3
67.5°	304.7	303.7	304.7	303.7	304.7	305.6	307.5	308.5	308.5	309.4	308.5
70°	261.0	262.0	261.0	262.0	262.9	263.9	264.8	266.7	266.7	266.7	266.7
72.5°	218.3	217.4	217.4	216.4	218.3	219.3	220.2	223.1	223.1	224.0	224.0
75°	176.6	174.7	175.6	174.7	178.5	179.4	179.4	182.2	183.2	185.1	184.1
77.5°	135.7	135.7	133.8	136.7	137.6	139.5	141.4	143.3	144.3	147.1	147.1
80°	96.8	96.8	95.9	97.8	101.6	102.5	105.4	106.3	109.2	111.1	112.0
82.5°	61.7	61.7	61.7	64.5	67.4	68.3	71.2	74.0	75.9	78.8	79.7
85°	30.4	32.3	32.3	36.1	38.0	39.9	40.8	44.6	47.5	51.3	54.1
87.5°	9.5	10.4	11.4	13.3	17.1	18.0	19.9	23.7	26.6	30.4	33.2
90°	0.9	0.9	1.9	2.8	4.7	5.7	7.6	9.5	12.3	15.2	17.1
92.5°	6.6	6.6	7.6	7.6	7.6	7.6	7.6	8.5	9.5	11.4	12.3
95°	16.1	25.6	15.2	14.2	16.1	16.1	17.1	16.1	16.1	16.1	16.1
97.5°	26.6	47.5	31.3	21.8	20.9	21.8	21.8	23.7	24.7	25.6	25.6
100°	38.9	59.8	55.1	36.1	29.4	28.5	28.5	28.5	29.4	30.4	31.3
102.5°	51.3	68.3	78.8	56.0	41.8	38.0	36.1	35.1	34.2	35.1	35.1
105°	63.6	76.9	96.8	75.9	59.8	54.1	48.4	41.8	40.8	40.8	40.8
107.5°	75.0	85.4	110.1	98.7	77.8	72.1	65.5	55.1	48.4	47.5	46.5
110°	85.4	94.0	119.6	117.7	97.8	89.2	83.5	72.1	62.6	56.0	53.2



TEST NUMBER: P395856

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	94.9	102.5	126.2	133.8	119.6	109.2	100.6	89.2	78.8	70.2	63.6
115°	104.4	111.1	131.9	147.1	138.6	130.0	120.5	106.3	95.9	87.3	79.7
117.5°	113.9	119.6	137.6	156.6	154.7	149.0	141.4	124.3	112.0	103.5	94.9
120°	122.4	128.1	143.3	163.3	169.0	164.2	159.5	144.3	129.1	119.6	112.0
122.5°	130.0	134.8	149.0	169.0	179.4	178.5	173.7	163.3	148.1	136.7	127.2
125°	137.6	142.4	154.7	172.8	187.0	189.8	187.9	179.4	168.0	154.7	143.3
127.5°	145.2	149.0	160.4	176.6	192.7	198.4	199.3	193.6	185.1	173.7	161.4
130°	151.9	155.7	165.2	179.4	196.5	203.1	206.9	206.0	199.3	191.7	179.4
132.5°	157.6	160.4	169.9	182.2	198.4	206.0	211.7	216.4	211.7	206.0	197.4
135°	163.3	166.1	173.7	185.1	199.3	206.9	214.5	222.1	223.1	218.3	211.7
137.5°	168.0	169.9	177.5	187.0	199.3	206.9	214.5	225.0	230.7	228.8	223.1
140°	172.8	174.7	180.3	189.8	200.3	206.9	213.6	225.9	233.5	236.4	233.5
142.5°	176.6	178.5	183.2	191.7	200.3	206.0	212.6	224.0	234.5	240.1	242.0
145°	180.3	181.3	186.0	192.7	200.3	205.0	210.7	222.1	232.6	241.1	246.8
147.5°	183.2	184.1	187.0	193.6	200.3	204.1	208.8	218.3	228.8	238.3	246.8
150°	186.0	186.0	188.9	193.6	200.3	203.1	206.9	215.5	224.0	233.5	241.1
152.5°	187.9	187.9	190.8	194.6	199.3	202.2	206.0	212.6	220.2	228.8	236.4
155°	189.8	189.8	191.7	194.6	199.3	201.2	204.1	209.8	216.4	223.1	229.7
157.5°	191.7	191.7	192.7	195.5	198.4	200.3	203.1	207.9	212.6	218.3	224.0
160°	192.7	192.7	193.6	195.5	197.4	199.3	201.2	205.0	209.8	213.6	218.3
162.5°	193.6	193.6	194.6	195.5	197.4	198.4	199.3	203.1	206.0	209.8	213.6
165°	194.6	194.6	194.6	195.5	196.5	197.4	198.4	200.3	203.1	206.0	208.8
167.5°	195.5	195.5	195.5	195.5	196.5	196.5	197.4	198.4	200.3	202.2	204.1
170°	196.5	195.5	195.5	196.5	195.5	195.5	196.5	197.4	197.4	199.3	200.3
172.5°	196.5	196.5	195.5	195.5	195.5	195.5	195.5	195.5	195.5	196.5	197.4
175°	196.5	196.5	195.5	195.5	195.5	194.6	194.6	194.6	194.6	194.6	194.6
177.5°	196.5	196.5	195.5	195.5	194.6	194.6	194.6	194.6	194.6	194.6	194.6
180°	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6



TEST NUMBER: P395856

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1129.6	1124.8	1122.9	1122.0	1121.0	1120.1	1118.2	1116.3	1114.4	1114.4
5°	1124.8	1120.1	1118.2	1117.2	1116.3	1115.3	1114.4	1114.4	1114.4	1114.4
7.5°	1117.2	1112.5	1110.6	1109.6	1109.6	1108.7	1108.7	1108.7	1107.7	1108.7
10°	1105.8	1101.1	1100.1	1099.2	1098.2	1096.3	1096.3	1096.3	1095.4	1096.3
12.5°	1091.6	1086.8	1085.9	1084.9	1084.0	1083.0	1083.0	1082.1	1082.1	1083.0
15°	1077.3	1070.7	1068.8	1068.8	1067.9	1066.9	1067.9	1066.9	1066.9	1066.9
17.5°	1056.5	1053.6	1050.8	1048.9	1047.9	1047.0	1047.0	1046.0	1046.0	1046.0
20°	1028.9	1028.9	1028.9	1024.2	1023.2	1022.3	1022.3	1022.3	1022.3	1022.3
22.5°	1002.4	997.6	1001.4	998.6	996.7	994.8	995.7	995.7	995.7	995.7
25°	972.9	969.1	970.1	971.0	969.1	966.3	966.3	966.3	966.3	965.3
27.5°	941.6	938.8	937.8	938.8	940.7	938.8	935.9	933.1	934.0	934.0
30°	907.4	906.5	905.5	903.6	905.5	906.5	901.7	900.8	900.8	900.8
32.5°	873.3	872.3	869.5	867.6	868.5	870.4	868.5	866.6	866.6	866.6
35°	839.1	835.3	832.5	831.5	831.5	833.4	832.5	829.6	829.6	829.6
37.5°	799.2	800.2	795.4	794.5	794.5	794.5	796.4	791.6	792.6	791.6
40°	760.3	761.3	758.4	755.6	756.5	754.6	757.5	752.7	752.7	752.7
42.5°	721.4	719.5	720.4	714.8	715.7	715.7	716.6	713.8	712.9	711.9
45°	681.5	679.6	678.7	675.8	675.8	674.9	674.9	671.1	671.1	671.1
47.5°	639.8	638.8	636.9	635.0	635.0	634.1	632.2	631.2	630.3	630.3
50°	599.9	597.0	594.2	595.2	594.2	593.3	591.4	590.4	589.5	588.5
52.5°	557.2	557.2	553.4	553.4	553.4	552.4	550.5	548.6	548.6	547.7
55°	515.4	514.5	511.6	510.7	511.6	510.7	508.8	506.9	506.9	505.9
57.5°	473.7	471.8	470.8	470.8	469.9	469.9	467.0	465.1	466.1	465.1
60°	430.9	430.9	430.0	429.0	429.0	428.1	425.2	425.2	425.2	424.3
62.5°	390.1	390.1	388.2	387.3	388.2	387.3	386.3	385.4	384.4	383.5
65°	347.4	348.4	346.5	347.4	347.4	345.5	345.5	344.6	344.6	343.6
67.5°	307.5	307.5	306.6	306.6	307.5	306.6	306.6	305.6	305.6	304.7
70°	266.7	268.6	267.7	267.7	267.7	266.7	266.7	266.7	265.8	266.7
72.5°	225.9	225.9	225.9	225.9	225.9	226.9	226.9	226.9	226.9	225.9
75°	187.9	188.9	187.9	188.9	189.8	189.8	189.8	189.8	190.8	189.8
77.5°	150.9	151.9	151.9	153.8	153.8	153.8	154.7	154.7	154.7	154.7
80°	115.8	116.8	117.7	119.6	119.6	121.5	122.4	122.4	122.4	122.4
82.5°	83.5	86.4	87.3	90.2	91.1	91.1	93.0	94.0	94.0	94.0
85°	57.9	60.7	62.6	64.5	66.4	66.4	68.3	68.3	69.3	69.3
87.5°	36.1	38.9	40.8	43.7	44.6	45.6	46.5	47.5	48.4	48.4
90°	19.9	21.8	23.7	25.6	25.6	26.6	27.5	28.5	29.4	29.4
92.5°	14.2	15.2	17.1	18.0	18.0	19.0	19.9	19.9	20.9	20.9
95°	16.1	17.1	17.1	18.0	18.0	18.0	19.0	19.0	19.0	19.0
97.5°	24.7	24.7	24.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
100°	32.3	33.2	33.2	33.2	34.2	34.2	34.2	34.2	33.2	33.2
102.5°	36.1	37.0	38.0	38.9	38.9	38.9	39.9	39.9	39.9	39.9
105°	40.8	40.8	41.8	42.7	42.7	42.7	43.7	43.7	43.7	43.7
107.5°	46.5	46.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
110°	53.2	53.2	53.2	52.2	53.2	52.2	52.2	52.2	52.2	52.2



TEST NUMBER: P395856

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	60.7	59.8	59.8	58.9	58.9	58.9	57.9	57.9	57.9	57.9
115°	73.1	68.3	66.4	64.5	64.5	64.5	63.6	63.6	63.6	63.6
117.5°	88.3	81.6	77.8	74.0	73.1	72.1	70.2	70.2	69.3	69.3
120°	104.4	97.8	92.1	87.3	85.4	84.5	81.6	79.7	77.8	77.8
122.5°	119.6	113.0	107.3	102.5	100.6	98.7	95.9	94.0	92.1	92.1
125°	134.8	128.1	122.4	117.7	114.9	113.0	110.1	108.2	106.3	106.3
127.5°	150.9	142.4	136.7	131.9	129.1	128.1	124.3	122.4	120.5	120.5
130°	169.0	158.5	150.9	145.2	143.3	141.4	138.6	136.7	134.8	134.8
132.5°	187.0	176.6	168.0	160.4	157.6	155.7	151.9	150.0	148.1	148.1
135°	204.1	194.6	186.0	178.5	175.6	172.8	169.0	165.2	163.3	163.3
137.5°	217.4	210.7	203.1	196.5	193.6	190.8	187.0	183.2	180.3	181.3
140°	228.8	223.1	218.3	213.6	210.7	208.8	205.0	202.2	199.3	199.3
142.5°	239.2	234.5	229.7	225.9	225.0	224.0	221.2	218.3	216.4	216.4
145°	248.7	245.8	242.0	237.3	236.4	235.4	232.6	230.7	229.7	229.7
147.5°	251.5	252.5	251.5	248.7	247.7	246.8	244.9	243.0	242.0	242.0
150°	249.6	253.4	255.3	255.3	255.3	255.3	255.3	253.4	252.5	252.5
152.5°	243.9	249.6	253.4	256.3	257.2	258.2	258.2	259.1	258.2	258.2
155°	237.3	243.0	248.7	251.5	253.4	254.4	256.3	257.2	258.2	257.2
157.5°	229.7	234.5	238.3	243.9	245.8	247.7	249.6	251.5	252.5	251.5
160°	223.1	226.9	229.7	233.5	234.5	236.4	238.3	239.2	241.1	240.1
162.5°	216.4	219.3	222.1	224.0	225.9	226.9	228.8	229.7	230.7	229.7
165°	211.7	213.6	214.5	216.4	217.4	218.3	219.3	220.2	220.2	220.2
167.5°	206.0	207.9	208.8	209.8	210.7	211.7	211.7	212.6	212.6	212.6
170°	201.2	202.2	203.1	204.1	204.1	205.0	205.0	205.0	206.0	205.0
172.5°	197.4	197.4	197.4	198.4	198.4	198.4	198.4	198.4	198.4	197.4
175°	195.5	195.5	194.6	194.6	194.6	194.6	194.6	193.6	192.7	191.7
177.5°	194.6	193.6	193.6	192.7	192.7	192.7	191.7	190.8	189.8	188.9
180°	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6

(END OF REPORT)