

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: P395855

Luminaire Tested: **I3-WL-40L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395855  
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 (3000K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
4000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3591.5 lumens  
Efficiency: N/A  
Efficacy: 98.7 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

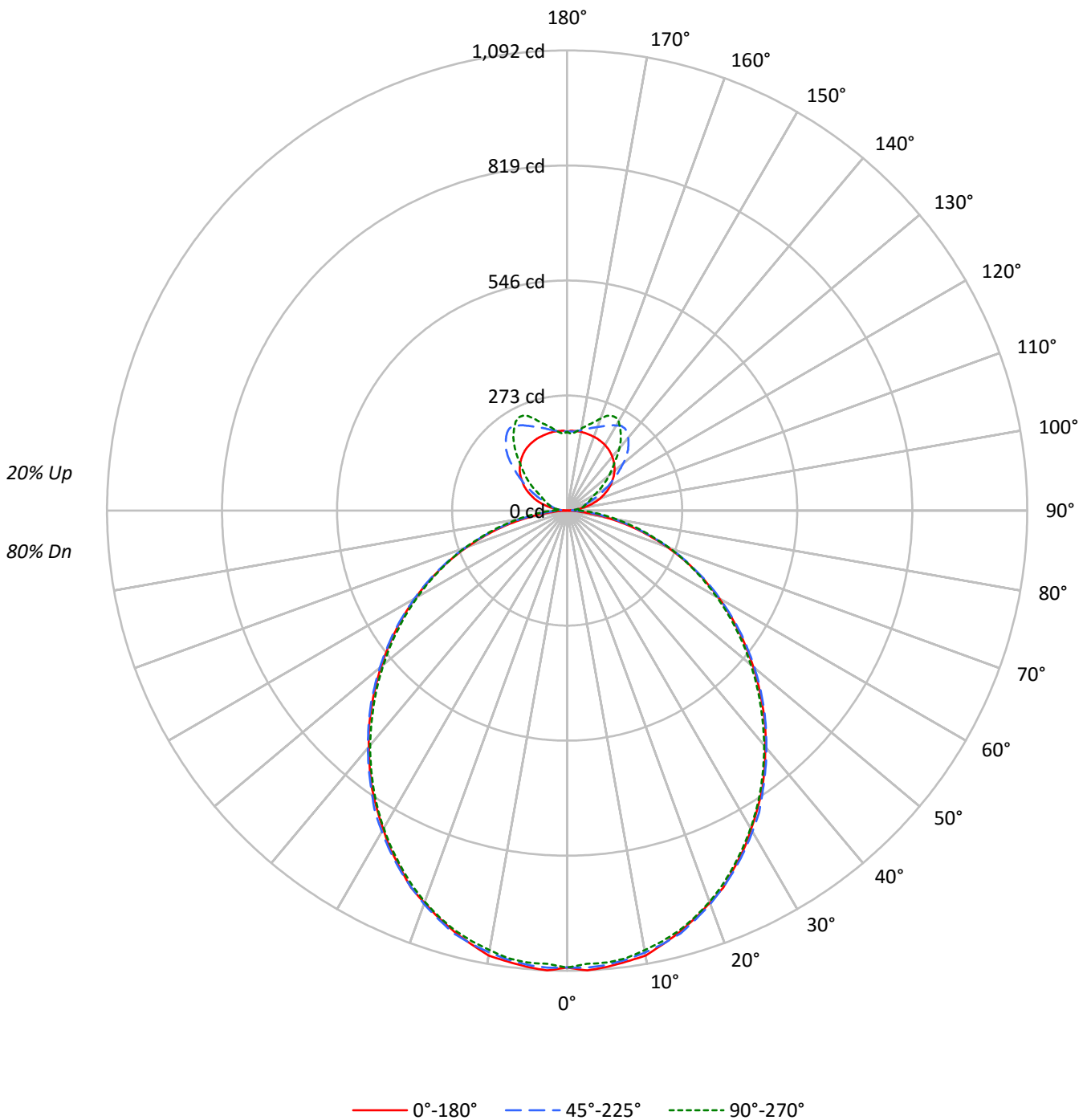
Input Watts (W): 36.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5959	5959	5959
5°	5974	5835	5772
10°	5939	5677	5584
15°	5820	5520	5385
20°	5705	5298	5153
25°	5568	5073	4896
30°	5408	4839	4633
35°	5259	4581	4361
40°	5070	4315	4078
45°	4890	4055	3780
50°	4695	3770	3480
55°	4491	3479	3173
60°	4263	3155	2857
65°	4001	2803	2518
70°	3629	2394	2162
75°	3126	1897	1736
80°	2384	1366	1295
85°	1243	817	878



TEST NUMBER: P395855

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	2.9
10°-20°	290.5	8.1
20°-30°	430.2	12.0
30°-40°	502.7	14.0
40°-50°	505.0	14.1
50°-60°	443.8	12.4
60°-70°	332.6	9.3
70°-80°	189.1	5.3
80°-90°	59.7	1.7
90°-100°	21.5	0.6
100°-110°	52.4	1.5
110°-120°	87.1	2.4
120°-130°	122.2	3.4
130°-140°	140.9	3.9
140°-150°	134.5	3.7
150°-160°	101.2	2.8
160°-170°	57.3	1.6
170°-180°	18.1	0.5
0°-30°	823.1	22.9
0°-40°	1325.8	36.9
0°-60°	2274.7	63.3
0°-90°	2856.1	79.5
90°-120°	161.1	4.5
90°-150°	558.8	15.6
90°-180°	735.0	20.5
0°-180°	3591.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1087	1076	1082	1079	1077	103
15°	1034	1025	1039	1032	1031	292
25°	936	934	940	936	933	432
35°	807	801	810	803	802	504
45°	656	655	660	653	648	506
55°	497	499	501	494	489	444
65°	336	337	338	336	332	332
75°	171	173	178	183	183	181
85°	29	38	52	64	67	38
90°	1	6	16	25	28	2
95°	16	16	16	17	18	17
105°	61	52	39	41	42	64
115°	101	126	77	62	61	100
125°	133	183	138	111	103	119
135°	158	200	204	170	158	122
145°	174	198	238	228	222	109
155°	183	194	222	245	248	85
165°	188	191	202	210	213	53
175°	190	188	188	188	185	18
180°	187	187	187	187	187	



TEST NUMBER: P395855

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1
2.5°	1092.3	1090.5	1085.9	1081.3	1080.4	1079.5	1079.5	1078.6	1078.6	1080.4	1085.9
5°	1086.8	1085.9	1081.3	1076.7	1075.8	1075.8	1074.9	1074.9	1074.9	1076.7	1082.2
7.5°	1079.5	1077.6	1073.1	1068.5	1067.6	1067.6	1067.6	1066.6	1067.6	1068.5	1074.9
10°	1072.1	1071.2	1066.6	1061.1	1059.3	1059.3	1058.4	1056.5	1056.5	1058.4	1064.8
12.5°	1053.8	1052.9	1048.3	1044.6	1044.6	1045.5	1045.5	1046.5	1046.5	1048.3	1052.9
15°	1034.5	1033.6	1029.0	1025.4	1025.4	1025.4	1024.4	1024.4	1025.4	1030.9	1039.1
17.5°	1013.4	1012.5	1008.9	1005.2	1005.2	1005.2	1004.3	1004.3	1005.2	1007.9	1016.2
20°	990.5	989.6	985.9	982.3	982.3	982.3	981.3	982.3	982.3	985.9	993.3
22.5°	968.5	966.7	962.1	958.4	956.6	956.6	956.6	955.7	957.5	960.2	967.6
25°	936.4	935.5	933.7	930.9	932.7	933.7	931.8	930.0	930.0	933.7	940.1
27.5°	907.1	905.2	902.5	899.7	897.9	898.8	899.7	901.6	904.3	905.2	910.7
30°	873.1	872.2	869.5	865.8	866.7	867.6	867.6	867.6	869.5	877.7	879.5
32.5°	840.1	839.2	836.4	832.8	833.7	834.6	833.7	834.6	836.4	840.1	848.4
35°	807.1	805.3	802.5	801.6	800.7	800.7	800.7	801.6	802.5	805.3	809.8
37.5°	769.5	767.6	765.8	763.1	764.9	766.7	767.6	766.7	767.6	771.3	773.2
40°	731.9	731.0	729.1	727.3	728.2	729.1	728.2	731.0	732.8	734.6	735.5
42.5°	696.1	694.3	692.4	691.5	691.5	692.4	692.4	694.3	694.3	698.9	697.9
45°	655.8	654.8	653.9	653.9	654.8	654.8	654.8	655.8	656.7	659.4	660.3
47.5°	616.3	615.4	615.4	615.4	615.4	616.3	617.2	620.0	618.2	619.1	620.0
50°	576.9	576.0	576.0	576.0	577.8	577.8	579.6	580.6	581.5	579.6	580.6
52.5°	536.5	535.6	537.4	537.4	539.3	539.3	542.0	539.3	541.1	540.2	540.2
55°	497.1	496.2	498.0	497.1	498.9	498.9	500.8	501.7	500.8	500.8	500.8
57.5°	456.7	455.8	456.7	457.7	458.6	458.6	461.3	461.3	458.6	460.4	459.5
60°	416.4	415.5	416.4	417.3	418.2	418.2	419.1	417.3	419.1	420.1	419.1
62.5°	376.0	375.1	376.9	376.0	376.9	377.9	377.9	380.6	379.7	379.7	378.8
65°	335.7	334.8	334.8	334.8	335.7	336.6	337.5	338.4	338.4	339.3	338.4
67.5°	294.4	293.5	294.4	293.5	294.4	295.3	297.2	298.1	298.1	299.0	298.1
70°	252.2	253.1	252.2	253.1	254.0	255.0	255.9	257.7	257.7	257.7	257.7
72.5°	210.9	210.0	210.0	209.1	210.9	211.9	212.8	215.5	215.5	216.4	216.4
75°	170.6	168.8	169.7	168.8	172.4	173.3	173.3	176.1	177.0	178.8	177.9
77.5°	131.2	131.2	129.3	132.1	133.0	134.8	136.7	138.5	139.4	142.2	142.2
80°	93.5	93.5	92.6	94.5	98.1	99.1	101.8	102.7	105.5	107.3	108.2
82.5°	59.6	59.6	59.6	62.4	65.1	66.0	68.8	71.5	73.4	76.1	77.0
85°	29.3	31.2	31.2	34.9	36.7	38.5	39.4	43.1	45.9	49.5	52.3
87.5°	9.2	10.1	11.0	12.8	16.5	17.4	19.3	22.9	25.7	29.3	32.1
90°	0.9	0.9	1.8	2.8	4.6	5.5	7.3	9.2	11.9	14.7	16.5
92.5°	6.4	6.4	7.3	7.3	7.3	7.3	7.3	8.3	9.2	11.0	11.9
95°	15.6	24.8	14.7	13.8	15.6	15.6	16.5	15.6	15.6	15.6	15.6
97.5°	25.7	45.9	30.3	21.1	20.2	21.1	21.1	22.9	23.8	24.8	24.8
100°	37.6	57.8	53.2	34.9	28.4	27.5	27.5	27.5	28.4	29.3	30.3
102.5°	49.5	66.0	76.1	54.1	40.4	36.7	34.9	33.9	33.0	33.9	33.9
105°	61.4	74.3	93.5	73.4	57.8	52.3	46.8	40.4	39.4	39.4	39.4
107.5°	72.5	82.5	106.4	95.4	75.2	69.7	63.3	53.2	46.8	45.9	44.9
110°	82.5	90.8	115.6	113.7	94.5	86.2	80.7	69.7	60.5	54.1	51.4



TEST NUMBER: P395855

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	91.7	99.1	122.0	129.3	115.6	105.5	97.2	86.2	76.1	67.9	61.4
115°	100.9	107.3	127.5	142.2	133.9	125.6	116.5	102.7	92.6	84.4	77.0
117.5°	110.1	115.6	133.0	151.3	149.5	144.0	136.7	120.1	108.2	100.0	91.7
120°	118.3	123.8	138.5	157.7	163.3	158.7	154.1	139.4	124.7	115.6	108.2
122.5°	125.6	130.2	144.0	163.3	173.3	172.4	167.8	157.7	143.1	132.1	122.9
125°	133.0	137.6	149.5	166.9	180.7	183.4	181.6	173.3	162.3	149.5	138.5
127.5°	140.3	144.0	155.0	170.6	186.2	191.7	192.6	187.1	178.8	167.8	155.9
130°	146.7	150.4	159.6	173.3	189.8	196.3	199.9	199.0	192.6	185.3	173.3
132.5°	152.2	155.0	164.2	176.1	191.7	199.0	204.5	209.1	204.5	199.0	190.8
135°	157.7	160.5	167.8	178.8	192.6	199.9	207.3	214.6	215.5	210.9	204.5
137.5°	162.3	164.2	171.5	180.7	192.6	199.9	207.3	217.4	222.9	221.0	215.5
140°	166.9	168.8	174.3	183.4	193.5	199.9	206.4	218.3	225.6	228.4	225.6
142.5°	170.6	172.4	177.0	185.3	193.5	199.0	205.4	216.4	226.5	232.0	233.9
145°	174.3	175.2	179.8	186.2	193.5	198.1	203.6	214.6	224.7	233.0	238.5
147.5°	177.0	177.9	180.7	187.1	193.5	197.2	201.8	210.9	221.0	230.2	238.5
150°	179.8	179.8	182.5	187.1	193.5	196.3	199.9	208.2	216.4	225.6	233.0
152.5°	181.6	181.6	184.3	188.0	192.6	195.4	199.0	205.4	212.8	221.0	228.4
155°	183.4	183.4	185.3	188.0	192.6	194.4	197.2	202.7	209.1	215.5	221.9
157.5°	185.3	185.3	186.2	188.9	191.7	193.5	196.3	200.9	205.4	210.9	216.4
160°	186.2	186.2	187.1	188.9	190.8	192.6	194.4	198.1	202.7	206.4	210.9
162.5°	187.1	187.1	188.0	188.9	190.8	191.7	192.6	196.3	199.0	202.7	206.4
165°	188.0	188.0	188.0	188.9	189.8	190.8	191.7	193.5	196.3	199.0	201.8
167.5°	188.9	188.9	188.9	188.9	189.8	189.8	190.8	191.7	193.5	195.4	197.2
170°	189.8	188.9	188.9	189.8	188.9	188.9	189.8	190.8	190.8	192.6	193.5
172.5°	189.8	189.8	188.9	188.9	188.9	188.9	188.9	188.9	188.9	189.8	190.8
175°	189.8	189.8	188.9	188.9	188.9	188.0	188.0	188.0	188.0	188.0	188.0
177.5°	189.8	189.8	188.9	188.9	188.0	188.0	188.0	188.0	188.0	188.0	188.0
180°	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1	1084.1
2.5°	1091.4	1086.8	1085.0	1084.1	1083.1	1082.2	1080.4	1078.6	1076.7	1076.7
5°	1086.8	1082.2	1080.4	1079.5	1078.6	1077.6	1076.7	1076.7	1076.7	1076.7
7.5°	1079.5	1074.9	1073.1	1072.1	1072.1	1071.2	1071.2	1071.2	1070.3	1071.2
10°	1068.5	1063.9	1063.0	1062.1	1061.1	1059.3	1059.3	1059.3	1058.4	1059.3
12.5°	1054.7	1050.1	1049.2	1048.3	1047.4	1046.5	1046.5	1045.5	1045.5	1046.5
15°	1041.0	1034.5	1032.7	1032.7	1031.8	1030.9	1031.8	1030.9	1030.9	1030.9
17.5°	1020.8	1018.0	1015.3	1013.4	1012.5	1011.6	1011.6	1010.7	1010.7	1010.7
20°	994.2	994.2	994.2	989.6	988.7	987.8	987.8	987.8	987.8	987.8
22.5°	968.5	963.9	967.6	964.8	963.0	961.2	962.1	962.1	962.1	962.1
25°	940.1	936.4	937.3	938.2	936.4	933.7	933.7	933.7	933.7	932.7
27.5°	909.8	907.1	906.1	907.1	908.9	907.1	904.3	901.6	902.5	902.5
30°	876.8	875.9	875.0	873.1	875.0	875.9	871.3	870.4	870.4	870.4
32.5°	843.8	842.9	840.1	838.3	839.2	841.0	839.2	837.4	837.4	837.4
35°	810.8	807.1	804.3	803.4	803.4	805.3	804.3	801.6	801.6	801.6
37.5°	772.2	773.2	768.6	767.6	767.6	767.6	769.5	764.9	765.8	764.9
40°	734.6	735.5	732.8	730.0	731.0	729.1	731.9	727.3	727.3	727.3
42.5°	697.0	695.2	696.1	690.6	691.5	691.5	692.4	689.7	688.8	687.9
45°	658.5	656.7	655.8	653.0	653.0	652.1	652.1	648.4	648.4	648.4
47.5°	618.2	617.2	615.4	613.6	613.6	612.7	610.8	609.9	609.0	609.0
50°	579.6	576.9	574.1	575.0	574.1	573.2	571.4	570.5	569.5	568.6
52.5°	538.4	538.4	534.7	534.7	534.7	533.8	531.9	530.1	530.1	529.2
55°	498.0	497.1	494.3	493.4	494.3	493.4	491.6	489.8	489.8	488.8
57.5°	457.7	455.8	454.9	454.9	454.0	454.0	451.2	449.4	450.3	449.4
60°	416.4	416.4	415.5	414.5	414.5	413.6	410.9	410.9	410.9	410.0
62.5°	376.9	376.9	375.1	374.2	375.1	374.2	373.3	372.4	371.4	370.5
65°	335.7	336.6	334.8	335.7	335.7	333.8	333.8	332.9	332.9	332.0
67.5°	297.2	297.2	296.2	296.2	297.2	296.2	296.2	295.3	295.3	294.4
70°	257.7	259.6	258.6	258.6	258.6	257.7	257.7	257.7	256.8	257.7
72.5°	218.3	218.3	218.3	218.3	218.3	219.2	219.2	219.2	219.2	218.3
75°	181.6	182.5	181.6	182.5	183.4	183.4	183.4	183.4	184.3	183.4
77.5°	145.8	146.7	146.7	148.6	148.6	148.6	149.5	149.5	149.5	149.5
80°	111.9	112.8	113.7	115.6	115.6	117.4	118.3	118.3	118.3	118.3
82.5°	80.7	83.5	84.4	87.1	88.0	88.0	89.9	90.8	90.8	90.8
85°	55.9	58.7	60.5	62.4	64.2	64.2	66.0	66.0	67.0	67.0
87.5°	34.9	37.6	39.4	42.2	43.1	44.0	44.9	45.9	46.8	46.8
90°	19.3	21.1	22.9	24.8	24.8	25.7	26.6	27.5	28.4	28.4
92.5°	13.8	14.7	16.5	17.4	17.4	18.3	19.3	19.3	20.2	20.2
95°	15.6	16.5	16.5	17.4	17.4	17.4	18.3	18.3	18.3	18.3
97.5°	23.8	23.8	23.8	22.9	22.9	22.9	22.9	22.9	22.9	22.9
100°	31.2	32.1	32.1	32.1	33.0	33.0	33.0	33.0	32.1	32.1
102.5°	34.9	35.8	36.7	37.6	37.6	37.6	38.5	38.5	38.5	38.5
105°	39.4	39.4	40.4	41.3	41.3	41.3	42.2	42.2	42.2	42.2
107.5°	44.9	44.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
110°	51.4	51.4	51.4	50.4	51.4	50.4	50.4	50.4	50.4	50.4





TEST NUMBER: P395855

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	58.7	57.8	57.8	56.9	56.9	56.9	55.9	55.9	55.9	55.9
115°	70.6	66.0	64.2	62.4	62.4	62.4	61.4	61.4	61.4	61.4
117.5°	85.3	78.9	75.2	71.5	70.6	69.7	67.9	67.9	67.0	67.0
120°	100.9	94.5	89.0	84.4	82.5	81.6	78.9	77.0	75.2	75.2
122.5°	115.6	109.1	103.6	99.1	97.2	95.4	92.6	90.8	89.0	89.0
125°	130.2	123.8	118.3	113.7	111.0	109.1	106.4	104.6	102.7	102.7
127.5°	145.8	137.6	132.1	127.5	124.7	123.8	120.1	118.3	116.5	116.5
130°	163.3	153.2	145.8	140.3	138.5	136.7	133.9	132.1	130.2	130.2
132.5°	180.7	170.6	162.3	155.0	152.2	150.4	146.7	144.9	143.1	143.1
135°	197.2	188.0	179.8	172.4	169.7	166.9	163.3	159.6	157.7	157.7
137.5°	210.0	203.6	196.3	189.8	187.1	184.3	180.7	177.0	174.3	175.2
140°	221.0	215.5	210.9	206.4	203.6	201.8	198.1	195.4	192.6	192.6
142.5°	231.1	226.5	221.9	218.3	217.4	216.4	213.7	210.9	209.1	209.1
145°	240.3	237.5	233.9	229.3	228.4	227.5	224.7	222.9	221.9	221.9
147.5°	243.0	244.0	243.0	240.3	239.4	238.5	236.6	234.8	233.9	233.9
150°	241.2	244.9	246.7	246.7	246.7	246.7	246.7	244.9	244.0	244.0
152.5°	235.7	241.2	244.9	247.6	248.5	249.5	249.5	250.4	249.5	249.5
155°	229.3	234.8	240.3	243.0	244.9	245.8	247.6	248.5	249.5	248.5
157.5°	221.9	226.5	230.2	235.7	237.5	239.4	241.2	243.0	244.0	243.0
160°	215.5	219.2	221.9	225.6	226.5	228.4	230.2	231.1	233.0	232.0
162.5°	209.1	211.9	214.6	216.4	218.3	219.2	221.0	221.9	222.9	221.9
165°	204.5	206.4	207.3	209.1	210.0	210.9	211.9	212.8	212.8	212.8
167.5°	199.0	200.9	201.8	202.7	203.6	204.5	204.5	205.4	205.4	205.4
170°	194.4	195.4	196.3	197.2	197.2	198.1	198.1	198.1	199.0	198.1
172.5°	190.8	190.8	190.8	191.7	191.7	191.7	191.7	191.7	191.7	190.8
175°	188.9	188.9	188.0	188.0	188.0	188.0	188.0	187.1	186.2	185.3
177.5°	188.0	187.1	187.1	186.2	186.2	186.2	185.3	184.3	183.4	182.5
180°	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1	187.1

(END OF REPORT)