

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: P395857

Luminaire Tested: **I3-WL-40L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395857  
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 (4000K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
4000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3796.9 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

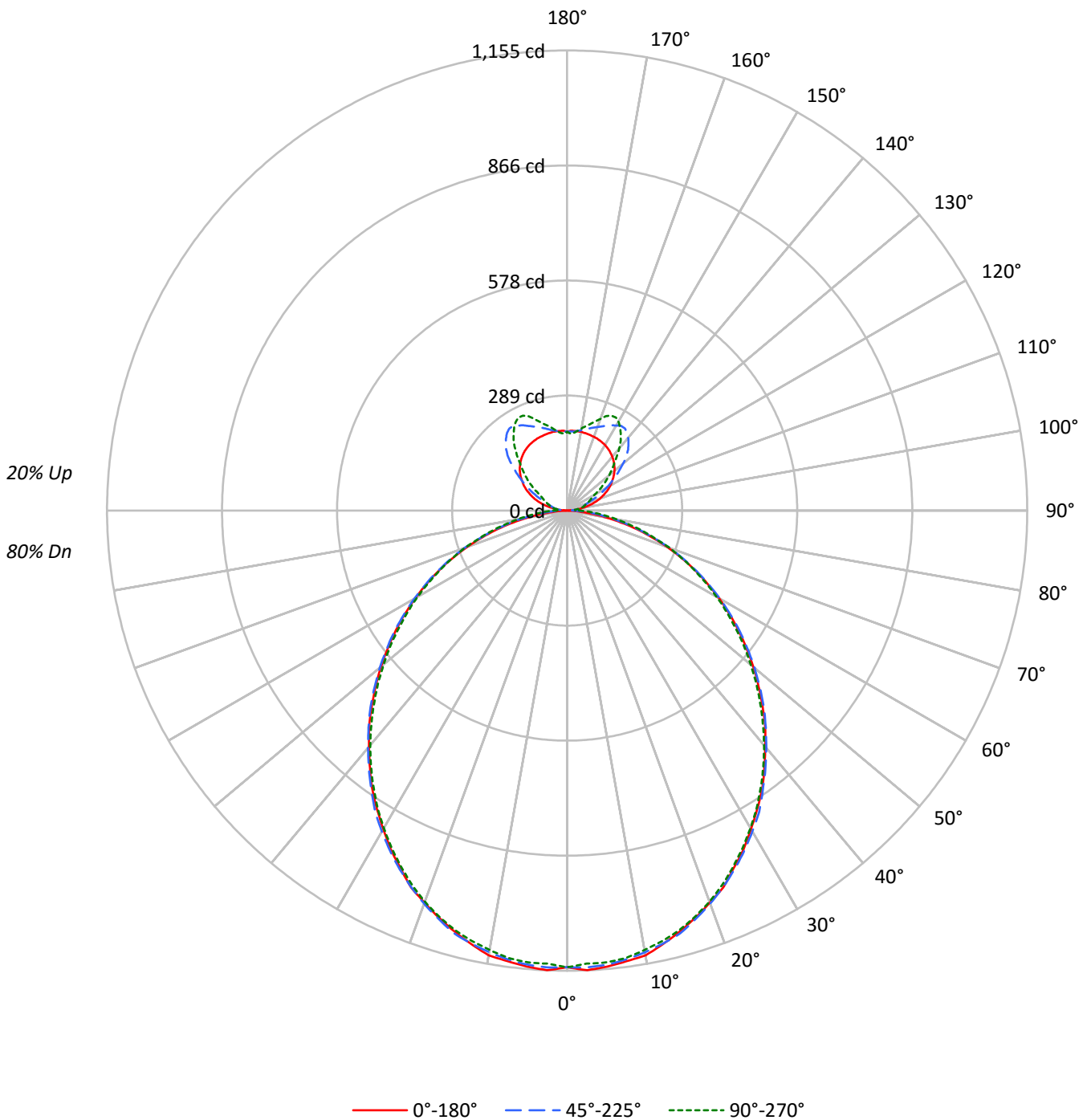
Input Watts (W): 37.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6300	6300	6300
5°	6316	6169	6103
10°	6279	6002	5903
15°	6153	5836	5693
20°	6032	5600	5447
25°	5887	5362	5176
30°	5718	5117	4898
35°	5560	4844	4610
40°	5360	4562	4311
45°	5169	4287	3996
50°	4964	3986	3679
55°	4747	3677	3355
60°	4507	3335	3020
65°	4230	2964	2662
70°	3836	2531	2286
75°	3304	2005	1835
80°	2522	1444	1370
85°	1315	864	928



TEST NUMBER: P395857

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.3	2.9
10°-20°	307.1	8.1
20°-30°	454.8	12.0
30°-40°	531.5	14.0
40°-50°	533.9	14.1
50°-60°	469.2	12.4
60°-70°	351.6	9.3
70°-80°	200.0	5.3
80°-90°	63.1	1.7
90°-100°	22.8	0.6
100°-110°	55.4	1.5
110°-120°	92.1	2.4
120°-130°	129.2	3.4
130°-140°	149.0	3.9
140°-150°	142.2	3.7
150°-160°	107.0	2.8
160°-170°	60.5	1.6
170°-180°	19.2	0.5
0°-30°	870.2	22.9
0°-40°	1401.7	36.9
0°-60°	2404.8	63.3
0°-90°	3019.5	79.5
90°-120°	170.3	4.5
90°-150°	590.8	15.6
90°-180°	777.0	20.5
0°-180°	3796.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1149	1137	1144	1140	1138	109
15°	1094	1084	1099	1091	1090	308
25°	990	987	994	990	986	456
35°	853	846	856	849	847	533
45°	693	692	698	690	686	535
55°	526	528	529	523	517	470
65°	355	356	358	355	351	351
75°	180	183	188	194	194	191
85°	31	41	55	68	71	40
90°	1	6	18	26	30	3
95°	16	16	16	18	19	18
105°	65	55	42	44	45	68
115°	107	133	81	66	65	106
125°	141	194	146	117	109	126
135°	167	211	216	179	167	129
145°	184	209	252	241	235	115
155°	194	206	235	259	263	90
165°	199	202	213	222	225	56
175°	201	199	199	199	196	19
180°	198	198	198	198	198	



TEST NUMBER: P395857

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1154.8	1152.9	1148.0	1143.2	1142.2	1141.2	1141.2	1140.3	1140.3	1142.2	1148.0
5°	1149.0	1148.0	1143.2	1138.3	1137.3	1137.3	1136.4	1136.4	1136.4	1138.3	1144.1
7.5°	1141.2	1139.3	1134.4	1129.6	1128.6	1128.6	1128.6	1127.7	1128.6	1129.6	1136.4
10°	1133.5	1132.5	1127.7	1121.8	1119.9	1119.9	1118.9	1117.0	1117.0	1118.9	1125.7
12.5°	1114.1	1113.1	1108.3	1104.4	1104.4	1105.4	1105.4	1106.3	1106.3	1108.3	1113.1
15°	1093.7	1092.7	1087.9	1084.0	1084.0	1084.0	1083.1	1083.1	1084.0	1089.8	1098.6
17.5°	1071.4	1070.4	1066.6	1062.7	1062.7	1062.7	1061.7	1061.7	1062.7	1065.6	1074.3
20°	1047.2	1046.2	1042.3	1038.4	1038.4	1038.4	1037.5	1038.4	1038.4	1042.3	1050.1
22.5°	1023.9	1022.0	1017.1	1013.2	1011.3	1011.3	1011.3	1010.3	1012.3	1015.2	1022.9
25°	990.0	989.0	987.1	984.2	986.1	987.1	985.1	983.2	983.2	987.1	993.8
27.5°	958.9	957.0	954.1	951.2	949.2	950.2	951.2	953.1	956.0	957.0	962.8
30°	923.1	922.1	919.2	915.3	916.3	917.2	917.2	917.2	919.2	927.9	929.9
32.5°	888.2	887.2	884.3	880.4	881.4	882.3	881.4	882.3	884.3	888.2	896.9
35°	853.3	851.3	848.4	847.4	846.5	846.5	846.5	847.4	848.4	851.3	856.2
37.5°	813.5	811.6	809.6	806.7	808.7	810.6	811.6	810.6	811.6	815.4	817.4
40°	773.7	772.8	770.8	768.9	769.9	770.8	769.9	772.8	774.7	776.7	777.6
42.5°	735.9	734.0	732.1	731.1	731.1	732.1	732.1	734.0	734.0	738.8	737.9
45°	693.3	692.3	691.3	691.3	692.3	692.3	692.3	693.3	694.2	697.1	698.1
47.5°	651.6	650.6	650.6	650.6	650.6	651.6	652.5	655.5	653.5	654.5	655.5
50°	609.9	608.9	608.9	608.9	610.9	610.9	612.8	613.8	614.7	612.8	613.8
52.5°	567.2	566.3	568.2	568.2	570.1	570.1	573.0	570.1	572.1	571.1	571.1
55°	525.5	524.6	526.5	525.5	527.5	527.5	529.4	530.4	529.4	529.4	529.4
57.5°	482.9	481.9	482.9	483.8	484.8	484.8	487.7	487.7	484.8	486.7	485.8
60°	440.2	439.2	440.2	441.2	442.1	442.1	443.1	441.2	443.1	444.1	443.1
62.5°	397.5	396.6	398.5	397.5	398.5	399.5	399.5	402.4	401.4	401.4	400.4
65°	354.9	353.9	353.9	353.9	354.9	355.8	356.8	357.8	357.8	358.8	357.8
67.5°	311.2	310.3	311.2	310.3	311.2	312.2	314.2	315.1	315.1	316.1	315.1
70°	266.6	267.6	266.6	267.6	268.6	269.6	270.5	272.5	272.5	272.5	272.5
72.5°	223.0	222.0	222.0	221.1	223.0	224.0	224.9	227.9	227.9	228.8	228.8
75°	180.3	178.4	179.4	178.4	182.3	183.3	183.3	186.2	187.1	189.1	188.1
77.5°	138.7	138.7	136.7	139.6	140.6	142.5	144.5	146.4	147.4	150.3	150.3
80°	98.9	98.9	97.9	99.9	103.7	104.7	107.6	108.6	111.5	113.4	114.4
82.5°	63.0	63.0	63.0	65.9	68.8	69.8	72.7	75.6	77.6	80.5	81.4
85°	31.0	33.0	33.0	36.8	38.8	40.7	41.7	45.6	48.5	52.4	55.3
87.5°	9.7	10.7	11.6	13.6	17.5	18.4	20.4	24.2	27.1	31.0	33.9
90°	1.0	1.0	1.9	2.9	4.8	5.8	7.8	9.7	12.6	15.5	17.5
92.5°	6.8	6.8	7.8	7.8	7.8	7.8	7.8	8.7	9.7	11.6	12.6
95°	16.5	26.2	15.5	14.5	16.5	16.5	17.5	16.5	16.5	16.5	16.5
97.5°	27.1	48.5	32.0	22.3	21.3	22.3	22.3	24.2	25.2	26.2	26.2
100°	39.8	61.1	56.2	36.8	30.1	29.1	29.1	29.1	30.1	31.0	32.0
102.5°	52.4	69.8	80.5	57.2	42.7	38.8	36.8	35.9	34.9	35.9	35.9
105°	65.0	78.5	98.9	77.6	61.1	55.3	49.4	42.7	41.7	41.7	41.7
107.5°	76.6	87.3	112.5	100.8	79.5	73.7	66.9	56.2	49.4	48.5	47.5
110°	87.3	96.0	122.2	120.2	99.9	91.1	85.3	73.7	64.0	57.2	54.3



TEST NUMBER: P395857

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	97.0	104.7	129.0	136.7	122.2	111.5	102.8	91.1	80.5	71.8	65.0
115°	106.7	113.4	134.8	150.3	141.6	132.8	123.1	108.6	97.9	89.2	81.4
117.5°	116.4	122.2	140.6	160.0	158.0	152.2	144.5	127.0	114.4	105.7	97.0
120°	125.1	130.9	146.4	166.8	172.6	167.7	162.9	147.4	131.9	122.2	114.4
122.5°	132.8	137.7	152.2	172.6	183.3	182.3	177.4	166.8	151.3	139.6	129.9
125°	140.6	145.4	158.0	176.5	191.0	193.9	192.0	183.3	171.6	158.0	146.4
127.5°	148.3	152.2	163.9	180.3	196.8	202.6	203.6	197.8	189.1	177.4	164.8
130°	155.1	159.0	168.7	183.3	200.7	207.5	211.4	210.4	203.6	195.9	183.3
132.5°	161.0	163.9	173.6	186.2	202.6	210.4	216.2	221.1	216.2	210.4	201.7
135°	166.8	169.7	177.4	189.1	203.6	211.4	219.1	226.9	227.9	223.0	216.2
137.5°	171.6	173.6	181.3	191.0	203.6	211.4	219.1	229.8	235.6	233.7	227.9
140°	176.5	178.4	184.2	193.9	204.6	211.4	218.2	230.8	238.5	241.4	238.5
142.5°	180.3	182.3	187.1	195.9	204.6	210.4	217.2	228.8	239.5	245.3	247.2
145°	184.2	185.2	190.0	196.8	204.6	209.4	215.3	226.9	237.6	246.3	252.1
147.5°	187.1	188.1	191.0	197.8	204.6	208.5	213.3	223.0	233.7	243.4	252.1
150°	190.0	190.0	193.0	197.8	204.6	207.5	211.4	220.1	228.8	238.5	246.3
152.5°	192.0	192.0	194.9	198.8	203.6	206.5	210.4	217.2	224.9	233.7	241.4
155°	193.9	193.9	195.9	198.8	203.6	205.6	208.5	214.3	221.1	227.9	234.6
157.5°	195.9	195.9	196.8	199.7	202.6	204.6	207.5	212.3	217.2	223.0	228.8
160°	196.8	196.8	197.8	199.7	201.7	203.6	205.6	209.4	214.3	218.2	223.0
162.5°	197.8	197.8	198.8	199.7	201.7	202.6	203.6	207.5	210.4	214.3	218.2
165°	198.8	198.8	198.8	199.7	200.7	201.7	202.6	204.6	207.5	210.4	213.3
167.5°	199.7	199.7	199.7	199.7	200.7	200.7	201.7	202.6	204.6	206.5	208.5
170°	200.7	199.7	199.7	200.7	199.7	199.7	200.7	201.7	201.7	203.6	204.6
172.5°	200.7	200.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	200.7	201.7
175°	200.7	200.7	199.7	199.7	199.7	198.8	198.8	198.8	198.8	198.8	198.8
177.5°	200.7	200.7	199.7	199.7	198.8	198.8	198.8	198.8	198.8	198.8	198.8
180°	197.8	197.8	197.8	197.8	197.8	197.8	197.8	197.8	197.8	197.8	197.8



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1	1146.1
2.5°	1153.8	1149.0	1147.0	1146.1	1145.1	1144.1	1142.2	1140.3	1138.3	1138.3
5°	1149.0	1144.1	1142.2	1141.2	1140.3	1139.3	1138.3	1138.3	1138.3	1138.3
7.5°	1141.2	1136.4	1134.4	1133.5	1133.5	1132.5	1132.5	1132.5	1131.5	1132.5
10°	1129.6	1124.7	1123.8	1122.8	1121.8	1119.9	1119.9	1119.9	1118.9	1119.9
12.5°	1115.0	1110.2	1109.2	1108.3	1107.3	1106.3	1106.3	1105.4	1105.4	1106.3
15°	1100.5	1093.7	1091.8	1091.8	1090.8	1089.8	1089.8	1089.8	1089.8	1089.8
17.5°	1079.2	1076.3	1073.4	1071.4	1070.4	1069.5	1069.5	1068.5	1068.5	1068.5
20°	1051.1	1051.1	1051.1	1046.2	1045.2	1044.3	1044.3	1044.3	1044.3	1044.3
22.5°	1023.9	1019.1	1022.9	1020.0	1018.1	1016.1	1017.1	1017.1	1017.1	1017.1
25°	993.8	990.0	990.9	991.9	990.0	987.1	987.1	987.1	987.1	986.1
27.5°	961.9	958.9	958.0	958.9	960.9	958.9	956.0	953.1	954.1	954.1
30°	926.9	926.0	925.0	923.1	925.0	926.0	921.1	920.2	920.2	920.2
32.5°	892.0	891.1	888.2	886.2	887.2	889.1	887.2	885.3	885.3	885.3
35°	857.1	853.3	850.3	849.4	849.4	851.3	850.3	847.4	847.4	847.4
37.5°	816.4	817.4	812.5	811.6	811.6	811.6	813.5	808.7	809.6	808.7
40°	776.7	777.6	774.7	771.8	772.8	770.8	773.7	768.9	768.9	768.9
42.5°	736.9	735.0	735.9	730.1	731.1	731.1	732.1	729.1	728.2	727.2
45°	696.2	694.2	693.3	690.4	690.4	689.4	689.4	685.5	685.5	685.5
47.5°	653.5	652.5	650.6	648.7	648.7	647.7	645.8	644.8	643.8	643.8
50°	612.8	609.9	607.0	607.9	607.0	606.0	604.1	603.1	602.1	601.2
52.5°	569.2	569.2	565.3	565.3	565.3	564.3	562.4	560.4	560.4	559.5
55°	526.5	525.5	522.6	521.6	522.6	521.6	519.7	517.8	517.8	516.8
57.5°	483.8	481.9	480.9	480.9	480.0	480.0	477.0	475.1	476.1	475.1
60°	440.2	440.2	439.2	438.3	438.3	437.3	434.4	434.4	434.4	433.4
62.5°	398.5	398.5	396.6	395.6	396.6	395.6	394.6	393.7	392.7	391.7
65°	354.9	355.8	353.9	354.9	354.9	352.9	352.9	352.0	352.0	351.0
67.5°	314.2	314.2	313.2	313.2	314.2	313.2	313.2	312.2	312.2	311.2
70°	272.5	274.4	273.4	273.4	273.4	272.5	272.5	272.5	271.5	272.5
72.5°	230.8	230.8	230.8	230.8	230.8	231.7	231.7	231.7	231.7	230.8
75°	192.0	193.0	192.0	193.0	193.9	193.9	193.9	193.9	194.9	193.9
77.5°	154.2	155.1	155.1	157.1	157.1	157.1	158.0	158.0	158.0	158.0
80°	118.3	119.3	120.2	122.2	122.2	124.1	125.1	125.1	125.1	125.1
82.5°	85.3	88.2	89.2	92.1	93.1	93.1	95.0	96.0	96.0	96.0
85°	59.1	62.1	64.0	65.9	67.9	67.9	69.8	69.8	70.8	70.8
87.5°	36.8	39.8	41.7	44.6	45.6	46.5	47.5	48.5	49.4	49.4
90°	20.4	22.3	24.2	26.2	26.2	27.1	28.1	29.1	30.1	30.1
92.5°	14.5	15.5	17.5	18.4	18.4	19.4	20.4	20.4	21.3	21.3
95°	16.5	17.5	17.5	18.4	18.4	18.4	19.4	19.4	19.4	19.4
97.5°	25.2	25.2	25.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
100°	33.0	33.9	33.9	33.9	34.9	34.9	34.9	34.9	33.9	33.9
102.5°	36.8	37.8	38.8	39.8	39.8	39.8	40.7	40.7	40.7	40.7
105°	41.7	41.7	42.7	43.6	43.6	43.6	44.6	44.6	44.6	44.6
107.5°	47.5	47.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
110°	54.3	54.3	54.3	53.3	54.3	53.3	53.3	53.3	53.3	53.3





TEST NUMBER: P395857

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	62.1	61.1	61.1	60.1	60.1	60.1	59.1	59.1	59.1	59.1
115°	74.7	69.8	67.9	65.9	65.9	65.9	65.0	65.0	65.0	65.0
117.5°	90.2	83.4	79.5	75.6	74.7	73.7	71.8	71.8	70.8	70.8
120°	106.7	99.9	94.1	89.2	87.3	86.3	83.4	81.4	79.5	79.5
122.5°	122.2	115.4	109.6	104.7	102.8	100.8	97.9	96.0	94.1	94.1
125°	137.7	130.9	125.1	120.2	117.3	115.4	112.5	110.5	108.6	108.6
127.5°	154.2	145.4	139.6	134.8	131.9	130.9	127.0	125.1	123.1	123.1
130°	172.6	161.9	154.2	148.3	146.4	144.5	141.6	139.6	137.7	137.7
132.5°	191.0	180.3	171.6	163.9	161.0	159.0	155.1	153.2	151.3	151.3
135°	208.5	198.8	190.0	182.3	179.4	176.5	172.6	168.7	166.8	166.8
137.5°	222.0	215.3	207.5	200.7	197.8	194.9	191.0	187.1	184.2	185.2
140°	233.7	227.9	223.0	218.2	215.3	213.3	209.4	206.5	203.6	203.6
142.5°	244.3	239.5	234.6	230.8	229.8	228.8	225.9	223.0	221.1	221.1
145°	254.0	251.1	247.2	242.4	241.4	240.5	237.6	235.6	234.6	234.6
147.5°	256.9	257.9	256.9	254.0	253.1	252.1	250.2	248.2	247.2	247.2
150°	255.0	258.9	260.8	260.8	260.8	260.8	260.8	258.9	257.9	257.9
152.5°	249.2	255.0	258.9	261.8	262.8	263.7	263.7	264.7	263.7	263.7
155°	242.4	248.2	254.0	256.9	258.9	259.9	261.8	262.8	263.7	262.8
157.5°	234.6	239.5	243.4	249.2	251.1	253.1	255.0	256.9	257.9	256.9
160°	227.9	231.7	234.6	238.5	239.5	241.4	243.4	244.3	246.3	245.3
162.5°	221.1	224.0	226.9	228.8	230.8	231.7	233.7	234.6	235.6	234.6
165°	216.2	218.2	219.1	221.1	222.0	223.0	224.0	224.9	224.9	224.9
167.5°	210.4	212.3	213.3	214.3	215.3	216.2	216.2	217.2	217.2	217.2
170°	205.6	206.5	207.5	208.5	208.5	209.4	209.4	209.4	210.4	209.4
172.5°	201.7	201.7	201.7	202.6	202.6	202.6	202.6	202.6	202.6	201.7
175°	199.7	199.7	198.8	198.8	198.8	198.8	198.8	197.8	196.8	195.9
177.5°	198.8	197.8	197.8	196.8	196.8	196.8	195.9	194.9	193.9	193.0
180°	197.8	197.8	197.8	197.8	197.8	197.8	197.8	197.8	197.8	197.8

(END OF REPORT)