

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: P395864

Luminaire Tested: **I3-WL-40L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395864  
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-40L83050-1D-UNV-W2A-W-4 (4000K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
4000 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: 4006.2 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

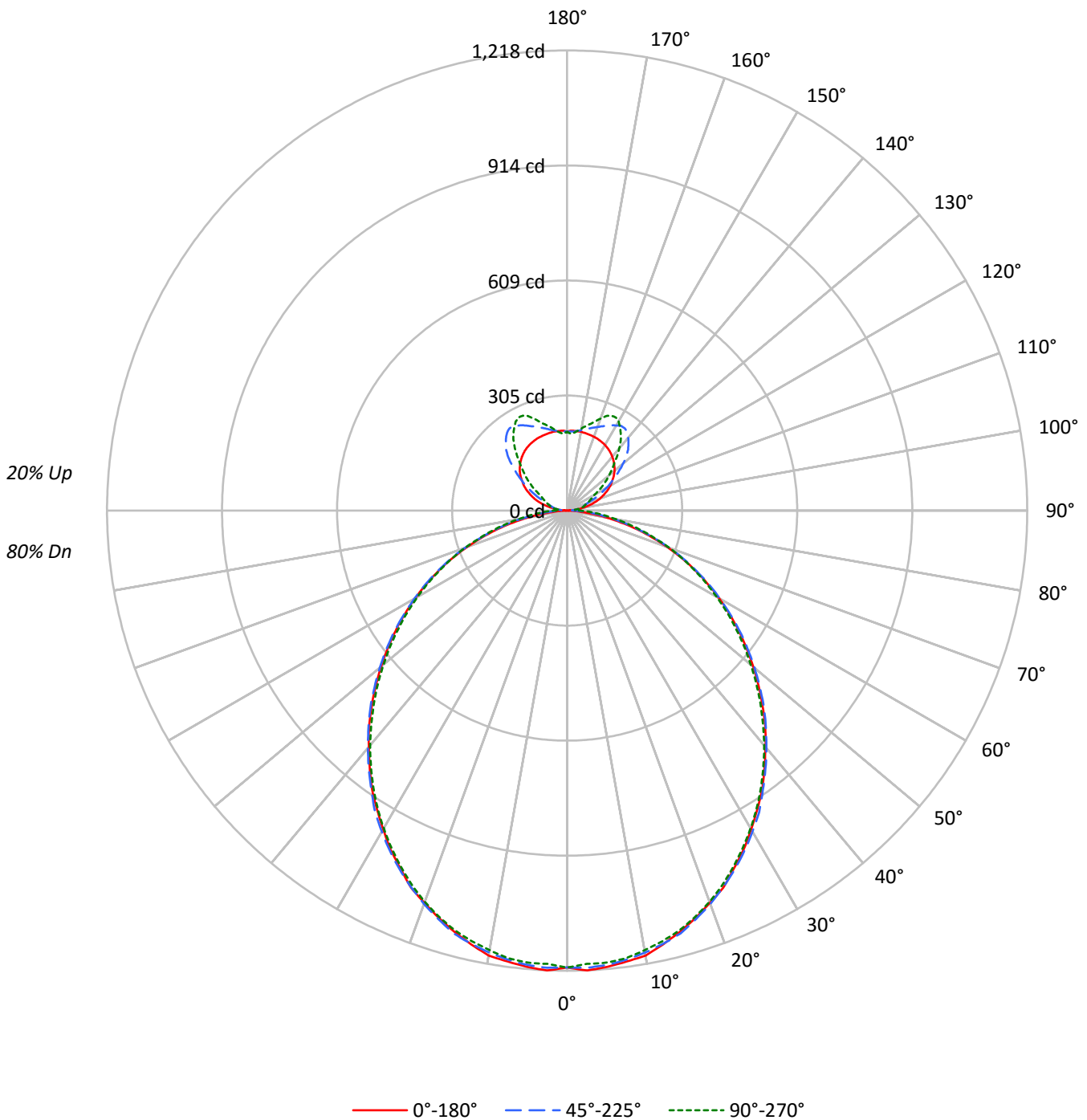
Input Watts (W): 37.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	6646	6646	6646
5°	6664	6509	6439
10°	6625	6333	6229
15°	6493	6157	6007
20°	6364	5909	5747
25°	6211	5658	5461
30°	6033	5398	5168
35°	5866	5110	4864
40°	5656	4814	4549
45°	5454	4523	4217
50°	5237	4205	3882
55°	5009	3880	3540
60°	4756	3519	3187
65°	4462	3127	2808
70°	4047	2670	2412
75°	3487	2116	1936
80°	2662	1524	1446
85°	1387	911	979



TEST NUMBER: P395864

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	2.9
10°-20°	324.1	8.1
20°-30°	479.8	12.0
30°-40°	560.8	14.0
40°-50°	563.3	14.1
50°-60°	495.1	12.4
60°-70°	371.0	9.3
70°-80°	211.0	5.3
80°-90°	66.6	1.7
90°-100°	24.0	0.6
100°-110°	58.5	1.5
110°-120°	97.2	2.4
120°-130°	136.4	3.4
130°-140°	157.2	3.9
140°-150°	150.1	3.7
150°-160°	112.9	2.8
160°-170°	63.9	1.6
170°-180°	20.2	0.5
0°-30°	918.1	22.9
0°-40°	1478.9	36.9
0°-60°	2537.3	63.3
0°-90°	3185.9	79.5
90°-120°	179.7	4.5
90°-150°	623.3	15.6
90°-180°	820.0	20.5
0°-180°	4006.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1212	1200	1207	1203	1201	115
15°	1154	1144	1159	1151	1150	325
25°	1044	1042	1049	1044	1040	481
35°	900	893	903	896	894	562
45°	732	730	737	728	723	565
55°	554	556	559	551	545	496
65°	374	376	378	374	370	370
75°	190	193	198	205	205	202
85°	33	43	58	72	75	43
90°	1	6	18	28	32	3
95°	17	17	17	19	20	19
105°	68	58	44	46	47	72
115°	112	140	86	70	68	111
125°	148	205	154	124	115	133
135°	176	223	228	189	176	136
145°	194	221	266	255	248	122
155°	205	217	248	273	277	95
165°	210	213	225	234	237	59
175°	212	210	210	210	207	20
180°	209	209	209	209	209	



TEST NUMBER: P395864

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1218.4	1216.4	1211.3	1206.2	1205.1	1204.1	1204.1	1203.1	1203.1	1205.1	1211.3
5°	1212.3	1211.3	1206.2	1201.1	1200.0	1200.0	1199.0	1199.0	1199.0	1201.1	1207.2
7.5°	1204.1	1202.1	1197.0	1191.8	1190.8	1190.8	1190.8	1189.8	1190.8	1191.8	1199.0
10°	1195.9	1194.9	1189.8	1183.7	1181.6	1181.6	1180.6	1178.5	1178.5	1180.6	1187.8
12.5°	1175.5	1174.5	1169.3	1165.2	1165.2	1166.3	1166.3	1167.3	1167.3	1169.3	1174.5
15°	1154.0	1153.0	1147.9	1143.8	1143.8	1143.8	1142.7	1142.7	1143.8	1149.9	1159.1
17.5°	1130.5	1129.4	1125.3	1121.3	1121.3	1121.3	1120.2	1120.2	1121.3	1124.3	1133.5
20°	1104.9	1103.9	1099.8	1095.7	1095.7	1095.7	1094.7	1095.7	1095.7	1099.8	1108.0
22.5°	1080.3	1078.3	1073.2	1069.1	1067.0	1067.0	1067.0	1066.0	1068.1	1071.1	1079.3
25°	1044.5	1043.5	1041.5	1038.4	1040.4	1041.5	1039.4	1037.4	1037.4	1041.5	1048.6
27.5°	1011.8	1009.7	1006.7	1003.6	1001.6	1002.6	1003.6	1005.7	1008.7	1009.7	1015.9
30°	973.9	972.9	969.8	965.8	966.8	967.8	967.8	967.8	969.8	979.1	981.1
32.5°	937.1	936.1	933.0	928.9	929.9	931.0	929.9	931.0	933.0	937.1	946.3
35°	900.3	898.2	895.2	894.1	893.1	893.1	893.1	894.1	895.2	898.2	903.3
37.5°	858.3	856.3	854.2	851.2	853.2	855.3	856.3	855.3	856.3	860.4	862.4
40°	816.4	815.4	813.3	811.3	812.3	813.3	812.3	815.4	817.4	819.5	820.5
42.5°	776.5	774.4	772.4	771.4	771.4	772.4	772.4	774.4	774.4	779.6	778.5
45°	731.5	730.5	729.4	729.4	730.5	730.5	730.5	731.5	732.5	735.6	736.6
47.5°	687.5	686.5	686.5	686.5	686.5	687.5	688.5	691.6	689.5	690.6	691.6
50°	643.5	642.5	642.5	642.5	644.5	644.5	646.6	647.6	648.6	646.6	647.6
52.5°	598.5	597.5	599.5	599.5	601.5	601.5	604.6	601.5	603.6	602.6	602.6
55°	554.5	553.5	555.5	554.5	556.5	556.5	558.6	559.6	558.6	558.6	558.6
57.5°	509.5	508.5	509.5	510.5	511.5	511.5	514.6	514.6	511.5	513.6	512.5
60°	464.5	463.4	464.5	465.5	466.5	466.5	467.5	465.5	467.5	468.6	467.5
62.5°	419.4	418.4	420.5	419.4	420.5	421.5	421.5	424.6	423.5	423.5	422.5
65°	374.4	373.4	373.4	373.4	374.4	375.5	376.5	377.5	377.5	378.5	377.5
67.5°	328.4	327.4	328.4	327.4	328.4	329.4	331.5	332.5	332.5	333.5	332.5
70°	281.3	282.4	281.3	282.4	283.4	284.4	285.4	287.5	287.5	287.5	287.5
72.5°	235.3	234.3	234.3	233.3	235.3	236.3	237.3	240.4	240.4	241.4	241.4
75°	190.3	188.2	189.3	188.2	192.3	193.4	193.4	196.4	197.4	199.5	198.5
77.5°	146.3	146.3	144.2	147.3	148.3	150.4	152.4	154.5	155.5	158.6	158.6
80°	104.4	104.4	103.3	105.4	109.5	110.5	113.6	114.6	117.6	119.7	120.7
82.5°	66.5	66.5	66.5	69.6	72.6	73.7	76.7	79.8	81.8	84.9	85.9
85°	32.7	34.8	34.8	38.9	40.9	43.0	44.0	48.1	51.2	55.2	58.3
87.5°	10.2	11.3	12.3	14.3	18.4	19.4	21.5	25.6	28.6	32.7	35.8
90°	1.0	1.0	2.0	3.1	5.1	6.1	8.2	10.2	13.3	16.4	18.4
92.5°	7.2	7.2	8.2	8.2	8.2	8.2	8.2	9.2	10.2	12.3	13.3
95°	17.4	27.6	16.4	15.3	17.4	17.4	18.4	17.4	17.4	17.4	17.4
97.5°	28.6	51.2	33.8	23.5	22.5	23.5	23.5	25.6	26.6	27.6	27.6
100°	41.9	64.5	59.3	38.9	31.7	30.7	30.7	30.7	31.7	32.7	33.8
102.5°	55.2	73.7	84.9	60.4	45.0	40.9	38.9	37.9	36.8	37.9	37.9
105°	68.5	82.9	104.4	81.8	64.5	58.3	52.2	45.0	44.0	44.0	44.0
107.5°	80.8	92.1	118.7	106.4	83.9	77.8	70.6	59.3	52.2	51.2	50.1
110°	92.1	101.3	128.9	126.9	105.4	96.2	90.0	77.8	67.5	60.4	57.3



TEST NUMBER: P395864

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	102.3	110.5	136.1	144.2	128.9	117.6	108.4	96.2	84.9	75.7	68.5
115°	112.5	119.7	142.2	158.6	149.4	140.2	129.9	114.6	103.3	94.1	85.9
117.5°	122.8	128.9	148.3	168.8	166.8	160.6	152.4	134.0	120.7	111.5	102.3
120°	132.0	138.1	154.5	176.0	182.1	177.0	171.9	155.5	139.1	128.9	120.7
122.5°	140.2	145.3	160.6	182.1	193.4	192.3	187.2	176.0	159.6	147.3	137.1
125°	148.3	153.5	166.8	186.2	201.5	204.6	202.6	193.4	181.1	166.8	154.5
127.5°	156.5	160.6	172.9	190.3	207.7	213.8	214.8	208.7	199.5	187.2	173.9
130°	163.7	167.8	178.0	193.4	211.8	218.9	223.0	222.0	214.8	206.7	193.4
132.5°	169.8	172.9	183.1	196.4	213.8	222.0	228.1	233.3	228.1	222.0	212.8
135°	176.0	179.0	187.2	199.5	214.8	223.0	231.2	239.4	240.4	235.3	228.1
137.5°	181.1	183.1	191.3	201.5	214.8	223.0	231.2	242.5	248.6	246.6	240.4
140°	186.2	188.2	194.4	204.6	215.9	223.0	230.2	243.5	251.7	254.7	251.7
142.5°	190.3	192.3	197.4	206.7	215.9	222.0	229.2	241.4	252.7	258.8	260.9
145°	194.4	195.4	200.5	207.7	215.9	221.0	227.1	239.4	250.6	259.9	266.0
147.5°	197.4	198.5	201.5	208.7	215.9	220.0	225.1	235.3	246.6	256.8	266.0
150°	200.5	200.5	203.6	208.7	215.9	218.9	223.0	232.2	241.4	251.7	259.9
152.5°	202.6	202.6	205.6	209.7	214.8	217.9	222.0	229.2	237.3	246.6	254.7
155°	204.6	204.6	206.7	209.7	214.8	216.9	220.0	226.1	233.3	240.4	247.6
157.5°	206.7	206.7	207.7	210.7	213.8	215.9	218.9	224.0	229.2	235.3	241.4
160°	207.7	207.7	208.7	210.7	212.8	214.8	216.9	221.0	226.1	230.2	235.3
162.5°	208.7	208.7	209.7	210.7	212.8	213.8	214.8	218.9	222.0	226.1	230.2
165°	209.7	209.7	209.7	210.7	211.8	212.8	213.8	215.9	218.9	222.0	225.1
167.5°	210.7	210.7	210.7	210.7	211.8	211.8	212.8	213.8	215.9	217.9	220.0
170°	211.8	210.7	210.7	211.8	210.7	210.7	211.8	212.8	212.8	214.8	215.9
172.5°	211.8	211.8	210.7	210.7	210.7	210.7	210.7	210.7	210.7	211.8	212.8
175°	211.8	211.8	210.7	210.7	210.7	209.7	209.7	209.7	209.7	209.7	209.7
177.5°	211.8	211.8	210.7	210.7	209.7	209.7	209.7	209.7	209.7	209.7	209.7
180°	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1217.4	1212.3	1210.3	1209.2	1208.2	1207.2	1205.1	1203.1	1201.1	1201.1
5°	1212.3	1207.2	1205.1	1204.1	1203.1	1202.1	1201.1	1201.1	1201.1	1201.1
7.5°	1204.1	1199.0	1197.0	1195.9	1195.9	1194.9	1194.9	1194.9	1193.9	1194.9
10°	1191.8	1186.7	1185.7	1184.7	1183.7	1181.6	1181.6	1181.6	1180.6	1181.6
12.5°	1176.5	1171.4	1170.4	1169.3	1168.3	1167.3	1167.3	1166.3	1166.3	1167.3
15°	1161.2	1154.0	1151.9	1151.9	1150.9	1149.9	1150.9	1149.9	1149.9	1149.9
17.5°	1138.6	1135.6	1132.5	1130.5	1129.4	1128.4	1128.4	1127.4	1127.4	1127.4
20°	1109.0	1109.0	1109.0	1103.9	1102.8	1101.8	1101.8	1101.8	1101.8	1101.8
22.5°	1080.3	1075.2	1079.3	1076.2	1074.2	1072.1	1073.2	1073.2	1073.2	1073.2
25°	1048.6	1044.5	1045.5	1046.6	1044.5	1041.5	1041.5	1041.5	1041.5	1040.4
27.5°	1014.9	1011.8	1010.8	1011.8	1013.8	1011.8	1008.7	1005.7	1006.7	1006.7
30°	978.0	977.0	976.0	973.9	976.0	977.0	971.9	970.9	970.9	970.9
32.5°	941.2	940.2	937.1	935.1	936.1	938.1	936.1	934.0	934.0	934.0
35°	904.4	900.3	897.2	896.2	896.2	898.2	897.2	894.1	894.1	894.1
37.5°	861.4	862.4	857.3	856.3	856.3	856.3	858.3	853.2	854.2	853.2
40°	819.5	820.5	817.4	814.3	815.4	813.3	816.4	811.3	811.3	811.3
42.5°	777.5	775.5	776.5	770.4	771.4	771.4	772.4	769.3	768.3	767.3
45°	734.5	732.5	731.5	728.4	728.4	727.4	727.4	723.3	723.3	723.3
47.5°	689.5	688.5	686.5	684.4	684.4	683.4	681.3	680.3	679.3	679.3
50°	646.6	643.5	640.4	641.4	640.4	639.4	637.4	636.3	635.3	634.3
52.5°	600.5	600.5	596.4	596.4	596.4	595.4	593.4	591.3	591.3	590.3
55°	555.5	554.5	551.4	550.4	551.4	550.4	548.4	546.3	546.3	545.3
57.5°	510.5	508.5	507.4	507.4	506.4	506.4	503.3	501.3	502.3	501.3
60°	464.5	464.5	463.4	462.4	462.4	461.4	458.3	458.3	458.3	457.3
62.5°	420.5	420.5	418.4	417.4	418.4	417.4	416.4	415.4	414.3	413.3
65°	374.4	375.5	373.4	374.4	374.4	372.4	372.4	371.4	371.4	370.3
67.5°	331.5	331.5	330.4	330.4	331.5	330.4	330.4	329.4	329.4	328.4
70°	287.5	289.5	288.5	288.5	288.5	287.5	287.5	287.5	286.5	287.5
72.5°	243.5	243.5	243.5	243.5	243.5	244.5	244.5	244.5	244.5	243.5
75°	202.6	203.6	202.6	203.6	204.6	204.6	204.6	204.6	205.6	204.6
77.5°	162.7	163.7	163.7	165.7	165.7	165.7	166.8	166.8	166.8	166.8
80°	124.8	125.8	126.9	128.9	128.9	130.9	132.0	132.0	132.0	132.0
82.5°	90.0	93.1	94.1	97.2	98.2	98.2	100.3	101.3	101.3	101.3
85°	62.4	65.5	67.5	69.6	71.6	71.6	73.7	73.7	74.7	74.7
87.5°	38.9	41.9	44.0	47.1	48.1	49.1	50.1	51.2	52.2	52.2
90°	21.5	23.5	25.6	27.6	27.6	28.6	29.7	30.7	31.7	31.7
92.5°	15.3	16.4	18.4	19.4	19.4	20.5	21.5	21.5	22.5	22.5
95°	17.4	18.4	18.4	19.4	19.4	19.4	20.5	20.5	20.5	20.5
97.5°	26.6	26.6	26.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
100°	34.8	35.8	35.8	35.8	36.8	36.8	36.8	36.8	35.8	35.8
102.5°	38.9	39.9	40.9	41.9	41.9	41.9	43.0	43.0	43.0	43.0
105°	44.0	44.0	45.0	46.0	46.0	46.0	47.1	47.1	47.1	47.1
107.5°	50.1	50.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
110°	57.3	57.3	57.3	56.3	57.3	56.3	56.3	56.3	56.3	56.3





TEST NUMBER: P395864

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	65.5	64.5	64.5	63.4	63.4	63.4	62.4	62.4	62.4	62.4
115°	78.8	73.7	71.6	69.6	69.6	69.6	68.5	68.5	68.5	68.5
117.5°	95.1	88.0	83.9	79.8	78.8	77.8	75.7	75.7	74.7	74.7
120°	112.5	105.4	99.2	94.1	92.1	91.1	88.0	85.9	83.9	83.9
122.5°	128.9	121.7	115.6	110.5	108.4	106.4	103.3	101.3	99.2	99.2
125°	145.3	138.1	132.0	126.9	123.8	121.7	118.7	116.6	114.6	114.6
127.5°	162.7	153.5	147.3	142.2	139.1	138.1	134.0	132.0	129.9	129.9
130°	182.1	170.8	162.7	156.5	154.5	152.4	149.4	147.3	145.3	145.3
132.5°	201.5	190.3	181.1	172.9	169.8	167.8	163.7	161.6	159.6	159.6
135°	220.0	209.7	200.5	192.3	189.3	186.2	182.1	178.0	176.0	176.0
137.5°	234.3	227.1	218.9	211.8	208.7	205.6	201.5	197.4	194.4	195.4
140°	246.6	240.4	235.3	230.2	227.1	225.1	221.0	217.9	214.8	214.8
142.5°	257.8	252.7	247.6	243.5	242.5	241.4	238.4	235.3	233.3	233.3
145°	268.0	265.0	260.9	255.8	254.7	253.7	250.6	248.6	247.6	247.6
147.5°	271.1	272.1	271.1	268.0	267.0	266.0	263.9	261.9	260.9	260.9
150°	269.1	273.2	275.2	275.2	275.2	275.2	275.2	273.2	272.1	272.1
152.5°	262.9	269.1	273.2	276.2	277.2	278.3	278.3	279.3	278.3	278.3
155°	255.8	261.9	268.0	271.1	273.2	274.2	276.2	277.2	278.3	277.2
157.5°	247.6	252.7	256.8	262.9	265.0	267.0	269.1	271.1	272.1	271.1
160°	240.4	244.5	247.6	251.7	252.7	254.7	256.8	257.8	259.9	258.8
162.5°	233.3	236.3	239.4	241.4	243.5	244.5	246.6	247.6	248.6	247.6
165°	228.1	230.2	231.2	233.3	234.3	235.3	236.3	237.3	237.3	237.3
167.5°	222.0	224.0	225.1	226.1	227.1	228.1	228.1	229.2	229.2	229.2
170°	216.9	217.9	218.9	220.0	220.0	221.0	221.0	221.0	222.0	221.0
172.5°	212.8	212.8	212.8	213.8	213.8	213.8	213.8	213.8	213.8	212.8
175°	210.7	210.7	209.7	209.7	209.7	209.7	209.7	208.7	207.7	206.7
177.5°	209.7	208.7	208.7	207.7	207.7	207.7	206.7	205.6	204.6	203.6
180°	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7

(END OF REPORT)