

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: P395862

Luminaire Tested: **I3-WL-40L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395862
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 (3000K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3599.1 lumens
Efficiency: N/A
Efficacy: 98.3 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

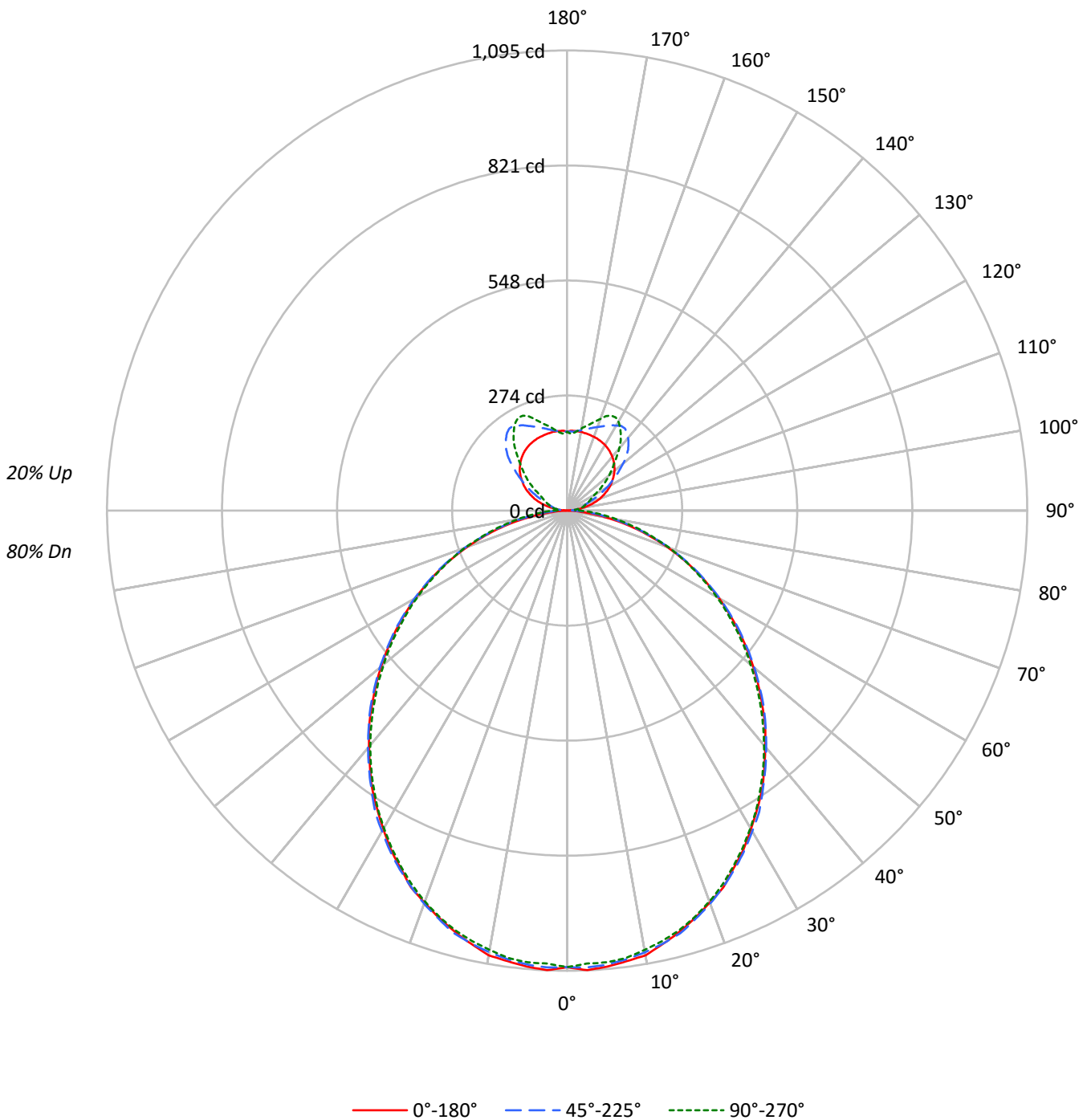
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5971	5971	5971
5°	5987	5848	5785
10°	5952	5689	5596
15°	5833	5531	5397
20°	5717	5309	5164
25°	5580	5083	4906
30°	5420	4850	4642
35°	5270	4591	4370
40°	5081	4324	4086
45°	4899	4063	3788
50°	4705	3778	3487
55°	4500	3486	3181
60°	4272	3162	2863
65°	4009	2809	2523
70°	3636	2399	2167
75°	3134	1901	1739
80°	2389	1370	1299
85°	1247	818	880



TEST NUMBER: P395862

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	2.9
10°-20°	291.1	8.1
20°-30°	431.1	12.0
30°-40°	503.8	14.0
40°-50°	506.1	14.1
50°-60°	444.8	12.4
60°-70°	333.3	9.3
70°-80°	189.5	5.3
80°-90°	59.8	1.7
90°-100°	21.6	0.6
100°-110°	52.6	1.5
110°-120°	87.3	2.4
120°-130°	122.5	3.4
130°-140°	141.2	3.9
140°-150°	134.8	3.7
150°-160°	101.4	2.8
160°-170°	57.4	1.6
170°-180°	18.2	0.5
0°-30°	824.8	22.9
0°-40°	1328.6	36.9
0°-60°	2279.5	63.3
0°-90°	2862.1	79.5
90°-120°	161.5	4.5
90°-150°	560.0	15.6
90°-180°	737.0	20.5
0°-180°	3599.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1089	1078	1084	1081	1079	103
15°	1037	1028	1041	1034	1033	292
25°	938	936	942	938	935	433
35°	809	802	812	805	803	505
45°	657	656	662	654	650	507
55°	498	500	502	495	490	445
65°	336	337	339	336	333	332
75°	171	174	178	184	184	181
85°	29	39	52	64	67	38
90°	1	6	16	25	28	2
95°	16	16	16	18	18	17
105°	62	52	40	41	42	64
115°	101	126	77	62	62	100
125°	133	184	139	111	103	119
135°	158	200	205	170	158	122
145°	175	198	239	229	222	109
155°	184	195	222	245	249	85
165°	188	191	202	210	213	53
175°	190	188	188	188	186	18
180°	188	188	188	188	188	



TEST NUMBER: P395862

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1094.6	1092.8	1088.2	1083.6	1082.7	1081.8	1081.8	1080.8	1080.8	1082.7	1088.2
5°	1089.1	1088.2	1083.6	1079.0	1078.1	1078.1	1077.2	1077.2	1077.2	1079.0	1084.5
7.5°	1081.8	1079.9	1075.3	1070.7	1069.8	1069.8	1069.8	1068.9	1069.8	1070.7	1077.2
10°	1074.4	1073.5	1068.9	1063.4	1061.5	1061.5	1060.6	1058.8	1058.8	1060.6	1067.1
12.5°	1056.0	1055.1	1050.5	1046.8	1046.8	1047.8	1047.8	1048.7	1048.7	1050.5	1055.1
15°	1036.7	1035.8	1031.2	1027.5	1027.5	1027.5	1026.6	1026.6	1027.5	1033.1	1041.3
17.5°	1015.6	1014.7	1011.0	1007.3	1007.3	1007.3	1006.4	1006.4	1007.3	1010.1	1018.3
20°	992.6	991.7	988.0	984.3	984.3	984.3	983.4	984.3	984.3	988.0	995.4
22.5°	970.6	968.7	964.1	960.4	958.6	958.6	958.6	957.7	959.5	962.3	969.6
25°	938.4	937.5	935.6	932.9	934.7	935.6	933.8	932.0	932.0	935.6	942.1
27.5°	909.0	907.1	904.4	901.6	899.8	900.7	901.6	903.5	906.2	907.1	912.7
30°	875.0	874.1	871.3	867.6	868.5	869.5	869.5	869.5	871.3	879.6	881.4
32.5°	841.9	841.0	838.2	834.5	835.4	836.4	835.4	836.4	838.2	841.9	850.2
35°	808.8	807.0	804.2	803.3	802.4	802.4	802.4	803.3	804.2	807.0	811.6
37.5°	771.1	769.3	767.4	764.7	766.5	768.4	769.3	768.4	769.3	773.0	774.8
40°	733.4	732.5	730.7	728.8	729.8	730.7	729.8	732.5	734.3	736.2	737.1
42.5°	697.6	695.7	693.9	693.0	693.0	693.9	693.9	695.7	695.7	700.3	699.4
45°	657.1	656.2	655.3	655.3	656.2	656.2	656.2	657.1	658.1	660.8	661.7
47.5°	617.6	616.7	616.7	616.7	616.7	617.6	618.5	621.3	619.5	620.4	621.3
50°	578.1	577.2	577.2	577.2	579.0	579.0	580.9	581.8	582.7	580.9	581.8
52.5°	537.7	536.7	538.6	538.6	540.4	540.4	543.2	540.4	542.3	541.3	541.3
55°	498.1	497.2	499.1	498.1	500.0	500.0	501.8	502.7	501.8	501.8	501.8
57.5°	457.7	456.8	457.7	458.6	459.5	459.5	462.3	462.3	459.5	461.4	460.5
60°	417.3	416.3	417.3	418.2	419.1	419.1	420.0	418.2	420.0	420.9	420.0
62.5°	376.8	375.9	377.7	376.8	377.7	378.7	378.7	381.4	380.5	380.5	379.6
65°	336.4	335.5	335.5	335.5	336.4	337.3	338.2	339.1	339.1	340.1	339.1
67.5°	295.0	294.1	295.0	294.1	295.0	295.9	297.8	298.7	298.7	299.6	298.7
70°	252.7	253.7	252.7	253.7	254.6	255.5	256.4	258.3	258.3	258.3	258.3
72.5°	211.4	210.5	210.5	209.6	211.4	212.3	213.2	216.0	216.0	216.9	216.9
75°	171.0	169.1	170.0	169.1	172.8	173.7	173.7	176.5	177.4	179.2	178.3
77.5°	131.4	131.4	129.6	132.3	133.3	135.1	136.9	138.8	139.7	142.5	142.5
80°	93.7	93.7	92.8	94.7	98.3	99.3	102.0	102.9	105.7	107.5	108.5
82.5°	59.7	59.7	59.7	62.5	65.3	66.2	68.9	71.7	73.5	76.3	77.2
85°	29.4	31.2	31.2	34.9	36.8	38.6	39.5	43.2	46.0	49.6	52.4
87.5°	9.2	10.1	11.0	12.9	16.5	17.5	19.3	23.0	25.7	29.4	32.2
90°	0.9	0.9	1.8	2.8	4.6	5.5	7.4	9.2	11.9	14.7	16.5
92.5°	6.4	6.4	7.4	7.4	7.4	7.4	7.4	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	46.0	30.3	21.1	20.2	21.1	21.1	23.0	23.9	24.8	24.8
100°	37.7	57.9	53.3	34.9	28.5	27.6	27.6	27.6	28.5	29.4	30.3
102.5°	49.6	66.2	76.3	54.2	40.4	36.8	34.9	34.0	33.1	34.0	34.0
105°	61.6	74.4	93.7	73.5	57.9	52.4	46.9	40.4	39.5	39.5	39.5
107.5°	72.6	82.7	106.6	95.6	75.4	69.9	63.4	53.3	46.9	46.0	45.0
110°	82.7	91.0	115.8	114.0	94.7	86.4	80.9	69.9	60.7	54.2	51.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	91.9	99.3	122.2	129.6	115.8	105.7	97.4	86.4	76.3	68.0	61.6
115°	101.1	107.5	127.8	142.5	134.2	125.9	116.7	102.9	92.8	84.6	77.2
117.5°	110.3	115.8	133.3	151.6	149.8	144.3	136.9	120.4	108.5	100.2	91.9
120°	118.6	124.1	138.8	158.1	163.6	159.0	154.4	139.7	125.0	115.8	108.5
122.5°	125.9	130.5	144.3	163.6	173.7	172.8	168.2	158.1	143.4	132.3	123.2
125°	133.3	137.9	149.8	167.3	181.1	183.8	182.0	173.7	162.7	149.8	138.8
127.5°	140.6	144.3	155.3	171.0	186.6	192.1	193.0	187.5	179.2	168.2	156.2
130°	147.1	150.7	159.9	173.7	190.3	196.7	200.4	199.4	193.0	185.7	173.7
132.5°	152.6	155.3	164.5	176.5	192.1	199.4	205.0	209.6	205.0	199.4	191.2
135°	158.1	160.8	168.2	179.2	193.0	200.4	207.7	215.1	216.0	211.4	205.0
137.5°	162.7	164.5	171.9	181.1	193.0	200.4	207.7	217.8	223.3	221.5	216.0
140°	167.3	169.1	174.6	183.8	193.9	200.4	206.8	218.7	226.1	228.9	226.1
142.5°	171.0	172.8	177.4	185.7	193.9	199.4	205.9	216.9	227.0	232.5	234.4
145°	174.6	175.5	180.1	186.6	193.9	198.5	204.0	215.1	225.2	233.4	239.0
147.5°	177.4	178.3	181.1	187.5	193.9	197.6	202.2	211.4	221.5	230.7	239.0
150°	180.1	180.1	182.9	187.5	193.9	196.7	200.4	208.6	216.9	226.1	233.4
152.5°	182.0	182.0	184.7	188.4	193.0	195.8	199.4	205.9	213.2	221.5	228.9
155°	183.8	183.8	185.7	188.4	193.0	194.8	197.6	203.1	209.6	216.0	222.4
157.5°	185.7	185.7	186.6	189.3	192.1	193.9	196.7	201.3	205.9	211.4	216.9
160°	186.6	186.6	187.5	189.3	191.2	193.0	194.8	198.5	203.1	206.8	211.4
162.5°	187.5	187.5	188.4	189.3	191.2	192.1	193.0	196.7	199.4	203.1	206.8
165°	188.4	188.4	188.4	189.3	190.3	191.2	192.1	193.9	196.7	199.4	202.2
167.5°	189.3	189.3	189.3	189.3	190.3	190.3	191.2	192.1	193.9	195.8	197.6
170°	190.3	189.3	189.3	190.3	189.3	189.3	190.3	191.2	191.2	193.0	193.9
172.5°	190.3	190.3	189.3	189.3	189.3	189.3	189.3	189.3	189.3	190.3	191.2
175°	190.3	190.3	189.3	189.3	189.3	188.4	188.4	188.4	188.4	188.4	188.4
177.5°	190.3	190.3	189.3	189.3	188.4	188.4	188.4	188.4	188.4	188.4	188.4
180°	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1093.7	1089.1	1087.3	1086.4	1085.4	1084.5	1082.7	1080.8	1079.0	1079.0
5°	1089.1	1084.5	1082.7	1081.8	1080.8	1079.9	1079.0	1079.0	1079.0	1079.0
7.5°	1081.8	1077.2	1075.3	1074.4	1074.4	1073.5	1073.5	1073.5	1072.6	1073.5
10°	1070.7	1066.1	1065.2	1064.3	1063.4	1061.5	1061.5	1061.5	1060.6	1061.5
12.5°	1056.9	1052.4	1051.4	1050.5	1049.6	1048.7	1048.7	1047.8	1047.8	1048.7
15°	1043.2	1036.7	1034.9	1034.9	1034.0	1033.1	1034.0	1033.1	1033.1	1033.1
17.5°	1022.9	1020.2	1017.4	1015.6	1014.7	1013.8	1013.8	1012.8	1012.8	1012.8
20°	996.3	996.3	996.3	991.7	990.8	989.9	989.9	989.9	989.9	989.9
22.5°	970.6	966.0	969.6	966.9	965.0	963.2	964.1	964.1	964.1	964.1
25°	942.1	938.4	939.3	940.2	938.4	935.6	935.6	935.6	935.6	934.7
27.5°	911.7	909.0	908.1	909.0	910.8	909.0	906.2	903.5	904.4	904.4
30°	878.6	877.7	876.8	875.0	876.8	877.7	873.1	872.2	872.2	872.2
32.5°	845.6	844.6	841.9	840.0	841.0	842.8	841.0	839.1	839.1	839.1
35°	812.5	808.8	806.0	805.1	805.1	807.0	806.0	803.3	803.3	803.3
37.5°	773.9	774.8	770.2	769.3	769.3	769.3	771.1	766.5	767.4	766.5
40°	736.2	737.1	734.3	731.6	732.5	730.7	733.4	728.8	728.8	728.8
42.5°	698.5	696.7	697.6	692.1	693.0	693.0	693.9	691.2	690.2	689.3
45°	659.9	658.1	657.1	654.4	654.4	653.5	653.5	649.8	649.8	649.8
47.5°	619.5	618.5	616.7	614.9	614.9	613.9	612.1	611.2	610.3	610.3
50°	580.9	578.1	575.3	576.3	575.3	574.4	572.6	571.7	570.8	569.8
52.5°	539.5	539.5	535.8	535.8	535.8	534.9	533.1	531.2	531.2	530.3
55°	499.1	498.1	495.4	494.5	495.4	494.5	492.6	490.8	490.8	489.9
57.5°	458.6	456.8	455.9	455.9	454.9	454.9	452.2	450.4	451.3	450.4
60°	417.3	417.3	416.3	415.4	415.4	414.5	411.8	411.8	411.8	410.8
62.5°	377.7	377.7	375.9	375.0	375.9	375.0	374.1	373.1	372.2	371.3
65°	336.4	337.3	335.5	336.4	336.4	334.5	334.5	333.6	333.6	332.7
67.5°	297.8	297.8	296.9	296.9	297.8	296.9	296.9	295.9	295.9	295.0
70°	258.3	260.1	259.2	259.2	259.2	258.3	258.3	258.3	257.3	258.3
72.5°	218.7	218.7	218.7	218.7	218.7	219.7	219.7	219.7	219.7	218.7
75°	182.0	182.9	182.0	182.9	183.8	183.8	183.8	183.8	184.7	183.8
77.5°	146.1	147.1	147.1	148.9	148.9	148.9	149.8	149.8	149.8	149.8
80°	112.1	113.0	114.0	115.8	115.8	117.6	118.6	118.6	118.6	118.6
82.5°	80.9	83.6	84.6	87.3	88.2	88.2	90.1	91.0	91.0	91.0
85°	56.1	58.8	60.7	62.5	64.3	64.3	66.2	66.2	67.1	67.1
87.5°	34.9	37.7	39.5	42.3	43.2	44.1	45.0	46.0	46.9	46.9
90°	19.3	21.1	23.0	24.8	24.8	25.7	26.7	27.6	28.5	28.5
92.5°	13.8	14.7	16.5	17.5	17.5	18.4	19.3	19.3	20.2	20.2
95°	15.6	16.5	16.5	17.5	17.5	17.5	18.4	18.4	18.4	18.4
97.5°	23.9	23.9	23.9	23.0	23.0	23.0	23.0	23.0	23.0	23.0
100°	31.2	32.2	32.2	32.2	33.1	33.1	33.1	33.1	32.2	32.2
102.5°	34.9	35.8	36.8	37.7	37.7	37.7	38.6	38.6	38.6	38.6
105°	39.5	39.5	40.4	41.4	41.4	41.4	42.3	42.3	42.3	42.3
107.5°	45.0	45.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
110°	51.5	51.5	51.5	50.5	51.5	50.5	50.5	50.5	50.5	50.5



TEST NUMBER: P395862

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	58.8	57.9	57.9	57.0	57.0	57.0	56.1	56.1	56.1	56.1
115°	70.8	66.2	64.3	62.5	62.5	62.5	61.6	61.6	61.6	61.6
117.5°	85.5	79.0	75.4	71.7	70.8	69.9	68.0	68.0	67.1	67.1
120°	101.1	94.7	89.2	84.6	82.7	81.8	79.0	77.2	75.4	75.4
122.5°	115.8	109.4	103.9	99.3	97.4	95.6	92.8	91.0	89.2	89.2
125°	130.5	124.1	118.6	114.0	111.2	109.4	106.6	104.8	102.9	102.9
127.5°	146.1	137.9	132.3	127.8	125.0	124.1	120.4	118.6	116.7	116.7
130°	163.6	153.5	146.1	140.6	138.8	136.9	134.2	132.3	130.5	130.5
132.5°	181.1	171.0	162.7	155.3	152.6	150.7	147.1	145.2	143.4	143.4
135°	197.6	188.4	180.1	172.8	170.0	167.3	163.6	159.9	158.1	158.1
137.5°	210.5	204.0	196.7	190.3	187.5	184.7	181.1	177.4	174.6	175.5
140°	221.5	216.0	211.4	206.8	204.0	202.2	198.5	195.8	193.0	193.0
142.5°	231.6	227.0	222.4	218.7	217.8	216.9	214.1	211.4	209.6	209.6
145°	240.8	238.0	234.4	229.8	228.9	227.9	225.2	223.3	222.4	222.4
147.5°	243.6	244.5	243.6	240.8	239.9	239.0	237.1	235.3	234.4	234.4
150°	241.7	245.4	247.2	247.2	247.2	247.2	247.2	245.4	244.5	244.5
152.5°	236.2	241.7	245.4	248.2	249.1	250.0	250.0	250.9	250.0	250.0
155°	229.8	235.3	240.8	243.6	245.4	246.3	248.2	249.1	250.0	249.1
157.5°	222.4	227.0	230.7	236.2	238.0	239.9	241.7	243.6	244.5	243.6
160°	216.0	219.7	222.4	226.1	227.0	228.9	230.7	231.6	233.4	232.5
162.5°	209.6	212.3	215.1	216.9	218.7	219.7	221.5	222.4	223.3	222.4
165°	205.0	206.8	207.7	209.6	210.5	211.4	212.3	213.2	213.2	213.2
167.5°	199.4	201.3	202.2	203.1	204.0	205.0	205.0	205.9	205.9	205.9
170°	194.8	195.8	196.7	197.6	197.6	198.5	198.5	198.5	199.4	198.5
172.5°	191.2	191.2	191.2	192.1	192.1	192.1	192.1	192.1	192.1	191.2
175°	189.3	189.3	188.4	188.4	188.4	188.4	188.4	187.5	186.6	185.7
177.5°	188.4	187.5	187.5	186.6	186.6	186.6	185.7	184.7	183.8	182.9
180°	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5	187.5

(END OF REPORT)