

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: P395878

Luminaire Tested: **I3-WL-40L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395878
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-40L93050-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3553.4 lumens
Efficiency: N/A
Efficacy: 93.0 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

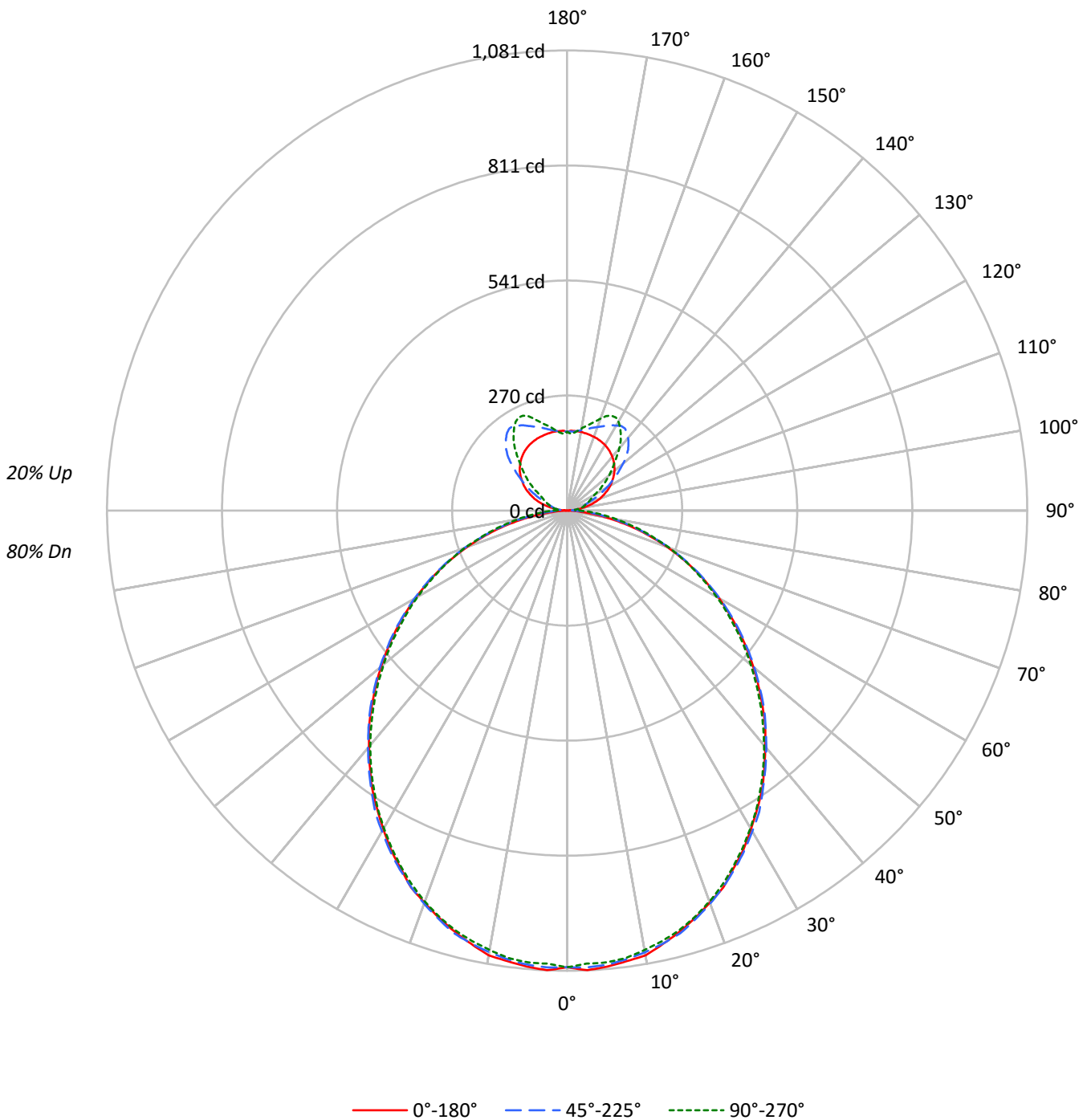
Input Watts (W): 38.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5896	5896	5896
5°	5911	5774	5711
10°	5877	5617	5525
15°	5759	5461	5328
20°	5645	5241	5098
25°	5510	5019	4844
30°	5352	4788	4583
35°	5203	4533	4315
40°	5016	4270	4035
45°	4837	4012	3740
50°	4645	3730	3443
55°	4443	3442	3140
60°	4218	3122	2827
65°	3958	2773	2491
70°	3590	2368	2139
75°	3093	1876	1718
80°	2361	1352	1282
85°	1230	807	868



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CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	2.9
10°-20°	287.4	8.1
20°-30°	425.6	12.0
30°-40°	497.4	14.0
40°-50°	499.7	14.1
50°-60°	439.1	12.4
60°-70°	329.0	9.3
70°-80°	187.1	5.3
80°-90°	59.1	1.7
90°-100°	21.3	0.6
100°-110°	51.9	1.5
110°-120°	86.2	2.4
120°-130°	121.0	3.4
130°-140°	139.4	3.9
140°-150°	133.1	3.7
150°-160°	100.1	2.8
160°-170°	56.7	1.6
170°-180°	17.9	0.5
0°-30°	814.4	22.9
0°-40°	1311.8	36.9
0°-60°	2250.6	63.3
0°-90°	2825.8	79.5
90°-120°	159.4	4.5
90°-150°	552.9	15.6
90°-180°	728.0	20.5
0°-180°	3553.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1075	1064	1071	1067	1065	102
15°	1024	1014	1028	1021	1020	289
25°	926	924	930	926	923	427
35°	798	792	801	795	793	498
45°	649	648	653	646	642	501
55°	492	494	496	489	484	440
65°	332	333	335	332	328	328
75°	169	172	176	182	182	179
85°	29	38	52	64	66	38
90°	1	5	16	24	28	2
95°	15	15	15	17	18	17
105°	61	52	39	41	42	64
115°	100	124	76	62	61	99
125°	132	182	137	110	102	118
135°	156	198	202	168	156	120
145°	172	196	236	226	220	108
155°	182	192	220	242	246	84
165°	186	189	200	208	210	53
175°	188	186	186	186	183	18
180°	185	185	185	185	185	



TEST NUMBER: P395878

CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6
2.5°	1080.7	1078.9	1074.4	1069.9	1068.9	1068.0	1068.0	1067.1	1067.1	1068.9	1074.4
5°	1075.3	1074.4	1069.9	1065.3	1064.4	1064.4	1063.5	1063.5	1063.5	1065.3	1070.8
7.5°	1068.0	1066.2	1061.7	1057.2	1056.2	1056.2	1056.2	1055.3	1056.2	1057.2	1063.5
10°	1060.8	1059.9	1055.3	1049.9	1048.1	1048.1	1047.2	1045.4	1045.4	1047.2	1053.5
12.5°	1042.6	1041.7	1037.2	1033.6	1033.6	1034.5	1034.5	1035.4	1035.4	1037.2	1041.7
15°	1023.6	1022.7	1018.1	1014.5	1014.5	1014.5	1013.6	1013.6	1014.5	1019.9	1028.1
17.5°	1002.7	1001.8	998.2	994.5	994.5	994.5	993.6	993.6	994.5	997.3	1005.4
20°	980.0	979.1	975.5	971.9	971.9	971.9	970.9	971.9	971.9	975.5	982.7
22.5°	958.2	956.4	951.9	948.3	946.4	946.4	946.4	945.5	947.4	950.1	957.3
25°	926.5	925.6	923.8	921.0	922.9	923.8	921.9	920.1	920.1	923.8	930.1
27.5°	897.4	895.6	892.9	890.2	888.4	889.3	890.2	892.0	894.7	895.6	901.1
30°	863.9	863.0	860.2	856.6	857.5	858.4	858.4	858.4	860.2	868.4	870.2
32.5°	831.2	830.3	827.6	823.9	824.9	825.8	824.9	825.8	827.6	831.2	839.4
35°	798.5	796.7	794.0	793.1	792.2	792.2	792.2	793.1	794.0	796.7	801.3
37.5°	761.3	759.5	757.7	755.0	756.8	758.6	759.5	758.6	759.5	763.1	765.0
40°	724.1	723.2	721.4	719.6	720.5	721.4	720.5	723.2	725.0	726.8	727.8
42.5°	688.7	686.9	685.1	684.2	684.2	685.1	685.1	686.9	686.9	691.5	690.6
45°	648.8	647.9	647.0	647.0	647.9	647.9	647.9	648.8	649.7	652.4	653.3
47.5°	609.8	608.9	608.9	608.9	608.9	609.8	610.7	613.4	611.6	612.5	613.4
50°	570.8	569.9	569.9	569.9	571.7	571.7	573.5	574.4	575.3	573.5	574.4
52.5°	530.8	529.9	531.8	531.8	533.6	533.6	536.3	533.6	535.4	534.5	534.5
55°	491.8	490.9	492.7	491.8	493.6	493.6	495.5	496.4	495.5	495.5	495.5
57.5°	451.9	451.0	451.9	452.8	453.7	453.7	456.4	456.4	453.7	455.5	454.6
60°	412.0	411.1	412.0	412.9	413.8	413.8	414.7	412.9	414.7	415.6	414.7
62.5°	372.0	371.1	373.0	372.0	373.0	373.9	373.9	376.6	375.7	375.7	374.8
65°	332.1	331.2	331.2	331.2	332.1	333.0	333.9	334.8	334.8	335.7	334.8
67.5°	291.3	290.4	291.3	290.4	291.3	292.2	294.0	294.9	294.9	295.8	294.9
70°	249.5	250.5	249.5	250.5	251.4	252.3	253.2	255.0	255.0	255.0	255.0
72.5°	208.7	207.8	207.8	206.9	208.7	209.6	210.5	213.2	213.2	214.2	214.2
75°	168.8	167.0	167.9	167.0	170.6	171.5	171.5	174.2	175.1	176.9	176.0
77.5°	129.8	129.8	127.9	130.7	131.6	133.4	135.2	137.0	137.9	140.7	140.7
80°	92.6	92.6	91.7	93.5	97.1	98.0	100.7	101.6	104.4	106.2	107.1
82.5°	59.0	59.0	59.0	61.7	64.4	65.3	68.1	70.8	72.6	75.3	76.2
85°	29.0	30.9	30.9	34.5	36.3	38.1	39.0	42.6	45.4	49.0	51.7
87.5°	9.1	10.0	10.9	12.7	16.3	17.2	19.1	22.7	25.4	29.0	31.8
90°	0.9	0.9	1.8	2.7	4.5	5.4	7.3	9.1	11.8	14.5	16.3
92.5°	6.4	6.4	7.3	7.3	7.3	7.3	7.3	8.2	9.1	10.9	11.8
95°	15.4	24.5	14.5	13.6	15.4	15.4	16.3	15.4	15.4	15.4	15.4
97.5°	25.4	45.4	29.9	20.9	20.0	20.9	20.9	22.7	23.6	24.5	24.5
100°	37.2	57.2	52.6	34.5	28.1	27.2	27.2	27.2	28.1	29.0	29.9
102.5°	49.0	65.3	75.3	53.5	39.9	36.3	34.5	33.6	32.7	33.6	33.6
105°	60.8	73.5	92.6	72.6	57.2	51.7	46.3	39.9	39.0	39.0	39.0
107.5°	71.7	81.7	105.3	94.4	74.4	69.0	62.6	52.6	46.3	45.4	44.5
110°	81.7	89.8	114.3	112.5	93.5	85.3	79.9	69.0	59.9	53.5	50.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	90.7	98.0	120.7	127.9	114.3	104.4	96.2	85.3	75.3	67.1	60.8
115°	99.8	106.2	126.1	140.7	132.5	124.3	115.2	101.6	91.7	83.5	76.2
117.5°	108.9	114.3	131.6	149.7	147.9	142.5	135.2	118.9	107.1	98.9	90.7
120°	117.1	122.5	137.0	156.1	161.5	157.0	152.4	137.9	123.4	114.3	107.1
122.5°	124.3	128.9	142.5	161.5	171.5	170.6	166.1	156.1	141.6	130.7	121.6
125°	131.6	136.1	147.9	165.2	178.8	181.5	179.7	171.5	160.6	147.9	137.0
127.5°	138.8	142.5	153.4	168.8	184.2	189.7	190.6	185.1	176.9	166.1	154.3
130°	145.2	148.8	157.9	171.5	187.8	194.2	197.8	196.9	190.6	183.3	171.5
132.5°	150.6	153.4	162.4	174.2	189.7	196.9	202.4	206.9	202.4	196.9	188.7
135°	156.1	158.8	166.1	176.9	190.6	197.8	205.1	212.3	213.2	208.7	202.4
137.5°	160.6	162.4	169.7	178.8	190.6	197.8	205.1	215.1	220.5	218.7	213.2
140°	165.2	167.0	172.4	181.5	191.5	197.8	204.2	216.0	223.2	225.9	223.2
142.5°	168.8	170.6	175.1	183.3	191.5	196.9	203.3	214.2	224.1	229.6	231.4
145°	172.4	173.3	177.9	184.2	191.5	196.0	201.4	212.3	222.3	230.5	235.9
147.5°	175.1	176.0	178.8	185.1	191.5	195.1	199.6	208.7	218.7	227.8	235.9
150°	177.9	177.9	180.6	185.1	191.5	194.2	197.8	206.0	214.2	223.2	230.5
152.5°	179.7	179.7	182.4	186.0	190.6	193.3	196.9	203.3	210.5	218.7	225.9
155°	181.5	181.5	183.3	186.0	190.6	192.4	195.1	200.5	206.9	213.2	219.6
157.5°	183.3	183.3	184.2	186.9	189.7	191.5	194.2	198.7	203.3	208.7	214.2
160°	184.2	184.2	185.1	186.9	188.7	190.6	192.4	196.0	200.5	204.2	208.7
162.5°	185.1	185.1	186.0	186.9	188.7	189.7	190.6	194.2	196.9	200.5	204.2
165°	186.0	186.0	186.0	186.9	187.8	188.7	189.7	191.5	194.2	196.9	199.6
167.5°	186.9	186.9	186.9	186.9	187.8	187.8	188.7	189.7	191.5	193.3	195.1
170°	187.8	186.9	186.9	187.8	186.9	186.9	187.8	188.7	188.7	190.6	191.5
172.5°	187.8	187.8	186.9	186.9	186.9	186.9	186.9	186.9	186.9	187.8	188.7
175°	187.8	187.8	186.9	186.9	186.9	186.0	186.0	186.0	186.0	186.0	186.0
177.5°	187.8	187.8	186.9	186.9	186.0	186.0	186.0	186.0	186.0	186.0	186.0
180°	185.1	185.1	185.1	185.1	185.1	185.1	185.1	185.1	185.1	185.1	185.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6	1072.6
2.5°	1079.8	1075.3	1073.5	1072.6	1071.7	1070.8	1068.9	1067.1	1065.3	1065.3
5°	1075.3	1070.8	1068.9	1068.0	1067.1	1066.2	1065.3	1065.3	1065.3	1065.3
7.5°	1068.0	1063.5	1061.7	1060.8	1060.8	1059.9	1059.9	1059.9	1059.0	1059.9
10°	1057.2	1052.6	1051.7	1050.8	1049.9	1048.1	1048.1	1048.1	1047.2	1048.1
12.5°	1043.5	1039.0	1038.1	1037.2	1036.3	1035.4	1035.4	1034.5	1034.5	1035.4
15°	1029.9	1023.6	1021.8	1021.8	1020.9	1019.9	1020.9	1019.9	1019.9	1019.9
17.5°	1010.0	1007.2	1004.5	1002.7	1001.8	1000.9	1000.9	1000.0	1000.0	1000.0
20°	983.7	983.7	983.7	979.1	978.2	977.3	977.3	977.3	977.3	977.3
22.5°	958.2	953.7	957.3	954.6	952.8	951.0	951.9	951.9	951.9	951.9
25°	930.1	926.5	927.4	928.3	926.5	923.8	923.8	923.8	923.8	922.9
27.5°	900.2	897.4	896.5	897.4	899.3	897.4	894.7	892.0	892.9	892.9
30°	867.5	866.6	865.7	863.9	865.7	866.6	862.1	861.1	861.1	861.1
32.5°	834.8	833.9	831.2	829.4	830.3	832.1	830.3	828.5	828.5	828.5
35°	802.2	798.5	795.8	794.9	794.9	796.7	795.8	793.1	793.1	793.1
37.5°	764.1	765.0	760.4	759.5	759.5	759.5	761.3	756.8	757.7	756.8
40°	726.8	727.8	725.0	722.3	723.2	721.4	724.1	719.6	719.6	719.6
42.5°	689.6	687.8	688.7	683.3	684.2	684.2	685.1	682.4	681.5	680.6
45°	651.5	649.7	648.8	646.1	646.1	645.2	645.2	641.6	641.6	641.6
47.5°	611.6	610.7	608.9	607.1	607.1	606.2	604.3	603.4	602.5	602.5
50°	573.5	570.8	568.0	569.0	568.0	567.1	565.3	564.4	563.5	562.6
52.5°	532.7	532.7	529.0	529.0	529.0	528.1	526.3	524.5	524.5	523.6
55°	492.7	491.8	489.1	488.2	489.1	488.2	486.4	484.6	484.6	483.7
57.5°	452.8	451.0	450.1	450.1	449.2	449.2	446.5	444.6	445.5	444.6
60°	412.0	412.0	411.1	410.2	410.2	409.2	406.5	406.5	406.5	405.6
62.5°	373.0	373.0	371.1	370.2	371.1	370.2	369.3	368.4	367.5	366.6
65°	332.1	333.0	331.2	332.1	332.1	330.3	330.3	329.4	329.4	328.5
67.5°	294.0	294.0	293.1	293.1	294.0	293.1	293.1	292.2	292.2	291.3
70°	255.0	256.8	255.9	255.9	255.9	255.0	255.0	255.0	254.1	255.0
72.5°	216.0	216.0	216.0	216.0	216.0	216.9	216.9	216.9	216.9	216.0
75°	179.7	180.6	179.7	180.6	181.5	181.5	181.5	181.5	182.4	181.5
77.5°	144.3	145.2	145.2	147.0	147.0	147.0	147.9	147.9	147.9	147.9
80°	110.7	111.6	112.5	114.3	114.3	116.2	117.1	117.1	117.1	117.1
82.5°	79.9	82.6	83.5	86.2	87.1	87.1	88.9	89.8	89.8	89.8
85°	55.4	58.1	59.9	61.7	63.5	63.5	65.3	65.3	66.2	66.2
87.5°	34.5	37.2	39.0	41.7	42.6	43.6	44.5	45.4	46.3	46.3
90°	19.1	20.9	22.7	24.5	24.5	25.4	26.3	27.2	28.1	28.1
92.5°	13.6	14.5	16.3	17.2	17.2	18.1	19.1	19.1	20.0	20.0
95°	15.4	16.3	16.3	17.2	17.2	17.2	18.1	18.1	18.1	18.1
97.5°	23.6	23.6	23.6	22.7	22.7	22.7	22.7	22.7	22.7	22.7
100°	30.9	31.8	31.8	31.8	32.7	32.7	32.7	32.7	31.8	31.8
102.5°	34.5	35.4	36.3	37.2	37.2	37.2	38.1	38.1	38.1	38.1
105°	39.0	39.0	39.9	40.8	40.8	40.8	41.7	41.7	41.7	41.7
107.5°	44.5	44.5	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
110°	50.8	50.8	50.8	49.9	50.8	49.9	49.9	49.9	49.9	49.9



TEST NUMBER: P395878

CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	58.1	57.2	57.2	56.3	56.3	56.3	55.4	55.4	55.4	55.4
115°	69.9	65.3	63.5	61.7	61.7	61.7	60.8	60.8	60.8	60.8
117.5°	84.4	78.0	74.4	70.8	69.9	69.0	67.1	67.1	66.2	66.2
120°	99.8	93.5	88.0	83.5	81.7	80.8	78.0	76.2	74.4	74.4
122.5°	114.3	108.0	102.5	98.0	96.2	94.4	91.7	89.8	88.0	88.0
125°	128.9	122.5	117.1	112.5	109.8	108.0	105.3	103.4	101.6	101.6
127.5°	144.3	136.1	130.7	126.1	123.4	122.5	118.9	117.1	115.2	115.2
130°	161.5	151.5	144.3	138.8	137.0	135.2	132.5	130.7	128.9	128.9
132.5°	178.8	168.8	160.6	153.4	150.6	148.8	145.2	143.4	141.6	141.6
135°	195.1	186.0	177.9	170.6	167.9	165.2	161.5	157.9	156.1	156.1
137.5°	207.8	201.4	194.2	187.8	185.1	182.4	178.8	175.1	172.4	173.3
140°	218.7	213.2	208.7	204.2	201.4	199.6	196.0	193.3	190.6	190.6
142.5°	228.7	224.1	219.6	216.0	215.1	214.2	211.4	208.7	206.9	206.9
145°	237.7	235.0	231.4	226.9	225.9	225.0	222.3	220.5	219.6	219.6
147.5°	240.5	241.4	240.5	237.7	236.8	235.9	234.1	232.3	231.4	231.4
150°	238.7	242.3	244.1	244.1	244.1	244.1	244.1	242.3	241.4	241.4
152.5°	233.2	238.7	242.3	245.0	245.9	246.8	246.8	247.7	246.8	246.8
155°	226.9	232.3	237.7	240.5	242.3	243.2	245.0	245.9	246.8	245.9
157.5°	219.6	224.1	227.8	233.2	235.0	236.8	238.7	240.5	241.4	240.5
160°	213.2	216.9	219.6	223.2	224.1	225.9	227.8	228.7	230.5	229.6
162.5°	206.9	209.6	212.3	214.2	216.0	216.9	218.7	219.6	220.5	219.6
165°	202.4	204.2	205.1	206.9	207.8	208.7	209.6	210.5	210.5	210.5
167.5°	196.9	198.7	199.6	200.5	201.4	202.4	202.4	203.3	203.3	203.3
170°	192.4	193.3	194.2	195.1	195.1	196.0	196.0	196.0	196.9	196.0
172.5°	188.7	188.7	188.7	189.7	189.7	189.7	189.7	189.7	189.7	188.7
175°	186.9	186.9	186.0	186.0	186.0	186.0	186.0	185.1	184.2	183.3
177.5°	186.0	185.1	185.1	184.2	184.2	184.2	183.3	182.4	181.5	180.6
180°	185.1	185.1	185.1	185.1	185.1	185.1	185.1	185.1	185.1	185.1

(END OF REPORT)