

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: P395876

Luminaire Tested: **I3-WL-40L93050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395876
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 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3233.9 lumens
Efficiency: N/A
Efficacy: 86.5 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

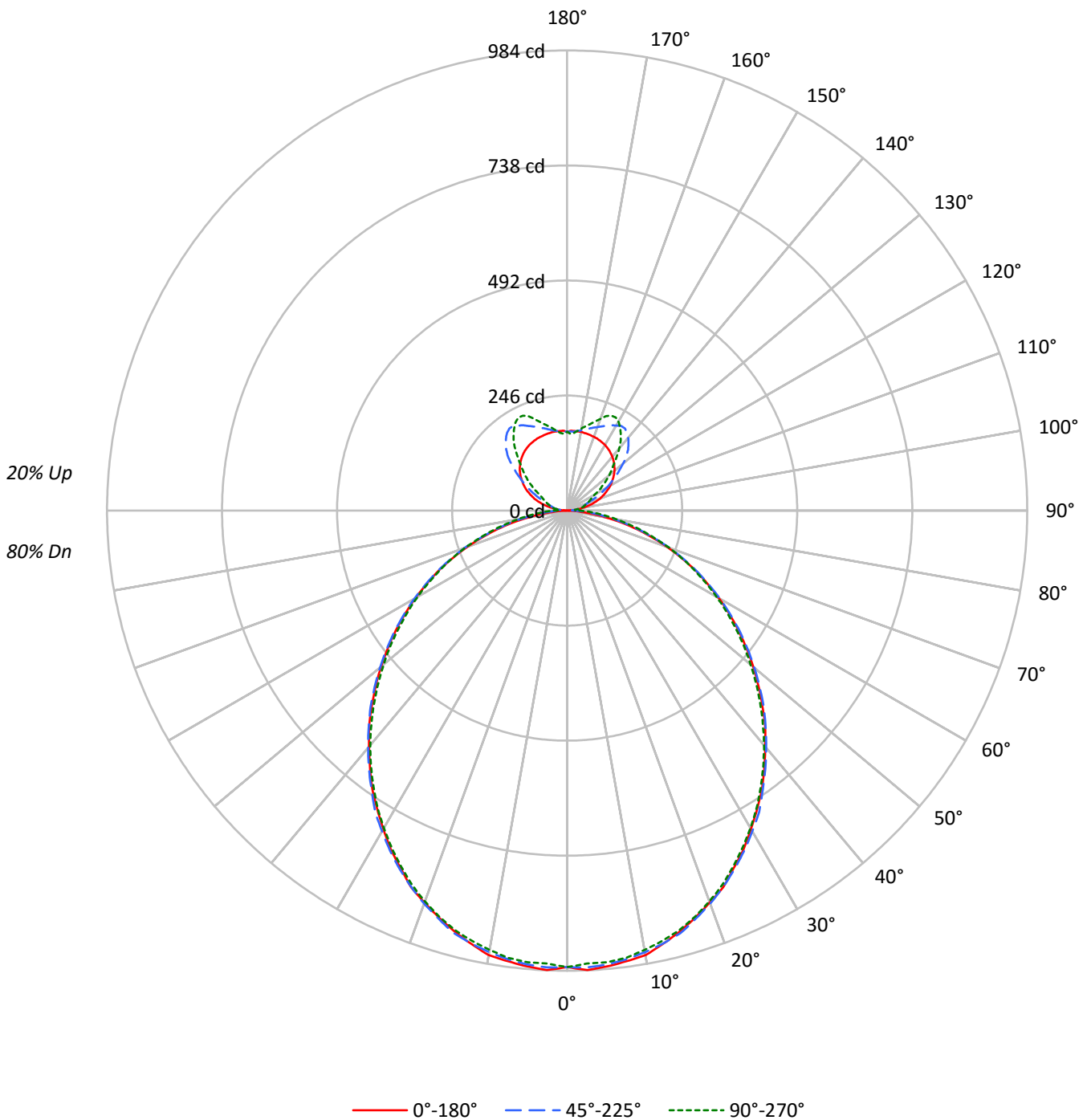
Input Watts (W): 37.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5365	5365	5365
5°	5379	5255	5198
10°	5348	5112	5028
15°	5241	4970	4849
20°	5137	4770	4639
25°	5014	4568	4408
30°	4870	4358	4171
35°	4735	4125	3927
40°	4565	3886	3672
45°	4403	3651	3404
50°	4227	3394	3133
55°	4044	3132	2858
60°	3838	2841	2572
65°	3602	2524	2267
70°	3268	2156	1947
75°	2815	1708	1563
80°	2147	1230	1166
85°	1120	736	791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	2.9
10°-20°	261.6	8.1
20°-30°	387.3	12.0
30°-40°	452.7	14.0
40°-50°	454.7	14.1
50°-60°	399.6	12.4
60°-70°	299.4	9.3
70°-80°	170.3	5.3
80°-90°	53.8	1.7
90°-100°	19.4	0.6
100°-110°	47.2	1.5
110°-120°	78.5	2.4
120°-130°	110.1	3.4
130°-140°	126.9	3.9
140°-150°	121.1	3.7
150°-160°	91.1	2.8
160°-170°	51.6	1.6
170°-180°	16.3	0.5
0°-30°	741.1	22.9
0°-40°	1193.8	36.9
0°-60°	2048.2	63.3
0°-90°	2571.7	79.5
90°-120°	145.1	4.5
90°-150°	503.2	15.6
90°-180°	662.0	20.5
0°-180°	3233.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	979	969	974	971	970	93
15°	932	923	936	929	928	263
25°	843	841	846	843	840	389
35°	727	721	729	723	722	454
45°	590	590	595	588	584	456
55°	448	449	451	445	440	400
65°	302	303	305	302	299	299
75°	154	156	160	165	165	163
85°	26	35	47	58	60	34
90°	1	5	15	22	26	2
95°	14	14	14	16	16	15
105°	55	47	36	37	38	58
115°	91	113	69	56	55	90
125°	120	165	125	100	92	107
135°	142	180	184	153	142	109
145°	157	178	215	206	200	98
155°	165	175	200	220	224	76
165°	169	172	182	189	192	48
175°	171	169	169	169	167	16
180°	168	168	168	168	168	



TEST NUMBER: P395876

CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1
2.5°	983.5	981.9	977.8	973.6	972.8	972.0	972.0	971.2	971.2	972.8	977.8
5°	978.6	977.8	973.6	969.5	968.7	968.7	967.9	967.9	967.9	969.5	974.5
7.5°	972.0	970.3	966.2	962.1	961.3	961.3	961.3	960.4	961.3	962.1	967.9
10°	965.4	964.6	960.4	955.5	953.8	953.8	953.0	951.3	951.3	953.0	958.8
12.5°	948.9	948.0	943.9	940.6	940.6	941.4	941.4	942.3	942.3	943.9	948.0
15°	931.5	930.7	926.6	923.3	923.3	923.3	922.4	922.4	923.3	928.2	935.7
17.5°	912.5	911.7	908.4	905.1	905.1	905.1	904.3	904.3	905.1	907.6	915.0
20°	891.9	891.1	887.8	884.5	884.5	884.5	883.6	884.5	884.5	887.8	894.4
22.5°	872.1	870.4	866.3	863.0	861.3	861.3	861.3	860.5	862.2	864.6	871.2
25°	843.2	842.3	840.7	838.2	839.9	840.7	839.0	837.4	837.4	840.7	846.5
27.5°	816.7	815.1	812.6	810.1	808.5	809.3	810.1	811.8	814.3	815.1	820.0
30°	786.2	785.4	782.9	779.6	780.4	781.2	781.2	781.2	782.9	790.3	792.0
32.5°	756.4	755.6	753.1	749.8	750.7	751.5	750.7	751.5	753.1	756.4	763.9
35°	726.7	725.1	722.6	721.8	720.9	720.9	720.9	721.8	722.6	725.1	729.2
37.5°	692.9	691.2	689.6	687.1	688.7	690.4	691.2	690.4	691.2	694.5	696.2
40°	659.0	658.2	656.5	654.9	655.7	656.5	655.7	658.2	659.8	661.5	662.3
42.5°	626.8	625.1	623.5	622.7	622.7	623.5	623.5	625.1	625.1	629.3	628.4
45°	590.5	589.6	588.8	588.8	589.6	589.6	589.6	590.5	591.3	593.8	594.6
47.5°	554.9	554.1	554.1	554.1	554.1	554.9	555.8	558.3	556.6	557.4	558.3
50°	519.4	518.6	518.6	518.6	520.3	520.3	521.9	522.7	523.6	521.9	522.7
52.5°	483.1	482.3	483.9	483.9	485.6	485.6	488.1	485.6	487.2	486.4	486.4
55°	447.6	446.8	448.4	447.6	449.2	449.2	450.9	451.7	450.9	450.9	450.9
57.5°	411.3	410.4	411.3	412.1	412.9	412.9	415.4	415.4	412.9	414.6	413.7
60°	374.9	374.1	374.9	375.7	376.6	376.6	377.4	375.7	377.4	378.2	377.4
62.5°	338.6	337.8	339.4	338.6	339.4	340.2	340.2	342.7	341.9	341.9	341.1
65°	302.2	301.4	301.4	301.4	302.2	303.1	303.9	304.7	304.7	305.6	304.7
67.5°	265.1	264.3	265.1	264.3	265.1	265.9	267.6	268.4	268.4	269.2	268.4
70°	227.1	227.9	227.1	227.9	228.8	229.6	230.4	232.1	232.1	232.1	232.1
72.5°	189.9	189.1	189.1	188.3	189.9	190.8	191.6	194.1	194.1	194.9	194.9
75°	153.6	152.0	152.8	152.0	155.3	156.1	156.1	158.6	159.4	161.0	160.2
77.5°	118.1	118.1	116.4	118.9	119.7	121.4	123.0	124.7	125.5	128.0	128.0
80°	84.2	84.2	83.4	85.1	88.4	89.2	91.7	92.5	95.0	96.6	97.4
82.5°	53.7	53.7	53.7	56.2	58.6	59.5	61.9	64.4	66.1	68.5	69.4
85°	26.4	28.1	28.1	31.4	33.0	34.7	35.5	38.8	41.3	44.6	47.1
87.5°	8.3	9.1	9.9	11.6	14.9	15.7	17.3	20.6	23.1	26.4	28.9
90°	0.8	0.8	1.7	2.5	4.1	5.0	6.6	8.3	10.7	13.2	14.9
92.5°	5.8	5.8	6.6	6.6	6.6	6.6	6.6	7.4	8.3	9.9	10.7
95°	14.0	22.3	13.2	12.4	14.0	14.0	14.9	14.0	14.0	14.0	14.0
97.5°	23.1	41.3	27.3	19.0	18.2	19.0	19.0	20.6	21.5	22.3	22.3
100°	33.9	52.0	47.9	31.4	25.6	24.8	24.8	24.8	25.6	26.4	27.3
102.5°	44.6	59.5	68.5	48.7	36.3	33.0	31.4	30.6	29.7	30.6	30.6
105°	55.3	66.9	84.2	66.1	52.0	47.1	42.1	36.3	35.5	35.5	35.5
107.5°	65.2	74.3	95.8	85.9	67.7	62.8	57.0	47.9	42.1	41.3	40.5
110°	74.3	81.8	104.1	102.4	85.1	77.6	72.7	62.8	54.5	48.7	46.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	82.6	89.2	109.8	116.4	104.1	95.0	87.5	77.6	68.5	61.1	55.3
115°	90.8	96.6	114.8	128.0	120.6	113.1	104.9	92.5	83.4	76.0	69.4
117.5°	99.1	104.1	119.7	136.3	134.6	129.7	123.0	108.2	97.4	90.0	82.6
120°	106.5	111.5	124.7	142.0	147.0	142.9	138.7	125.5	112.3	104.1	97.4
122.5°	113.1	117.3	129.7	147.0	156.1	155.3	151.1	142.0	128.8	118.9	110.7
125°	119.7	123.9	134.6	150.3	162.7	165.2	163.5	156.1	146.2	134.6	124.7
127.5°	126.4	129.7	139.6	153.6	167.6	172.6	173.4	168.5	161.0	151.1	140.4
130°	132.1	135.4	143.7	156.1	170.9	176.7	180.0	179.2	173.4	166.8	156.1
132.5°	137.1	139.6	147.8	158.6	172.6	179.2	184.2	188.3	184.2	179.2	171.8
135°	142.0	144.5	151.1	161.0	173.4	180.0	186.6	193.2	194.1	189.9	184.2
137.5°	146.2	147.8	154.4	162.7	173.4	180.0	186.6	195.7	200.7	199.0	194.1
140°	150.3	152.0	156.9	165.2	174.2	180.0	185.8	196.5	203.2	205.6	203.2
142.5°	153.6	155.3	159.4	166.8	174.2	179.2	185.0	194.9	204.0	208.9	210.6
145°	156.9	157.7	161.9	167.6	174.2	178.4	183.3	193.2	202.3	209.8	214.7
147.5°	159.4	160.2	162.7	168.5	174.2	177.6	181.7	189.9	199.0	207.3	214.7
150°	161.9	161.9	164.3	168.5	174.2	176.7	180.0	187.5	194.9	203.2	209.8
152.5°	163.5	163.5	166.0	169.3	173.4	175.9	179.2	185.0	191.6	199.0	205.6
155°	165.2	165.2	166.8	169.3	173.4	175.1	177.6	182.5	188.3	194.1	199.8
157.5°	166.8	166.8	167.6	170.1	172.6	174.2	176.7	180.9	185.0	189.9	194.9
160°	167.6	167.6	168.5	170.1	171.8	173.4	175.1	178.4	182.5	185.8	189.9
162.5°	168.5	168.5	169.3	170.1	171.8	172.6	173.4	176.7	179.2	182.5	185.8
165°	169.3	169.3	169.3	170.1	170.9	171.8	172.6	174.2	176.7	179.2	181.7
167.5°	170.1	170.1	170.1	170.1	170.9	170.9	171.8	172.6	174.2	175.9	177.6
170°	170.9	170.1	170.1	170.9	170.1	170.1	170.9	171.8	171.8	173.4	174.2
172.5°	170.9	170.9	170.1	170.1	170.1	170.1	170.1	170.1	170.1	170.9	171.8
175°	170.9	170.9	170.1	170.1	170.1	169.3	169.3	169.3	169.3	169.3	169.3
177.5°	170.9	170.9	170.1	170.1	169.3	169.3	169.3	169.3	169.3	169.3	169.3
180°	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1	976.1
2.5°	982.7	978.6	976.9	976.1	975.3	974.5	972.8	971.2	969.5	969.5
5°	978.6	974.5	972.8	972.0	971.2	970.3	969.5	969.5	969.5	969.5
7.5°	972.0	967.9	966.2	965.4	965.4	964.6	964.6	964.6	963.7	964.6
10°	962.1	957.9	957.1	956.3	955.5	953.8	953.8	953.8	953.0	953.8
12.5°	949.7	945.6	944.7	943.9	943.1	942.3	942.3	941.4	941.4	942.3
15°	937.3	931.5	929.9	929.9	929.0	928.2	929.0	928.2	928.2	928.2
17.5°	919.1	916.7	914.2	912.5	911.7	910.9	910.9	910.1	910.1	910.1
20°	895.2	895.2	895.2	891.1	890.2	889.4	889.4	889.4	889.4	889.4
22.5°	872.1	867.9	871.2	868.8	867.1	865.5	866.3	866.3	866.3	866.3
25°	846.5	843.2	844.0	844.8	843.2	840.7	840.7	840.7	840.7	839.9
27.5°	819.2	816.7	815.9	816.7	818.4	816.7	814.3	811.8	812.6	812.6
30°	789.5	788.7	787.8	786.2	787.8	788.7	784.5	783.7	783.7	783.7
32.5°	759.8	758.9	756.4	754.8	755.6	757.3	755.6	754.0	754.0	754.0
35°	730.0	726.7	724.2	723.4	723.4	725.1	724.2	721.8	721.8	721.8
37.5°	695.3	696.2	692.0	691.2	691.2	691.2	692.9	688.7	689.6	688.7
40°	661.5	662.3	659.8	657.4	658.2	656.5	659.0	654.9	654.9	654.9
42.5°	627.6	626.0	626.8	621.8	622.7	622.7	623.5	621.0	620.2	619.4
45°	592.9	591.3	590.5	588.0	588.0	587.2	587.2	583.9	583.9	583.9
47.5°	556.6	555.8	554.1	552.5	552.5	551.6	550.0	549.2	548.3	548.3
50°	521.9	519.4	517.0	517.8	517.0	516.1	514.5	513.7	512.8	512.0
52.5°	484.8	484.8	481.5	481.5	481.5	480.6	479.0	477.3	477.3	476.5
55°	448.4	447.6	445.1	444.3	445.1	444.3	442.6	441.0	441.0	440.2
57.5°	412.1	410.4	409.6	409.6	408.8	408.8	406.3	404.7	405.5	404.7
60°	374.9	374.9	374.1	373.3	373.3	372.4	370.0	370.0	370.0	369.1
62.5°	339.4	339.4	337.8	336.9	337.8	336.9	336.1	335.3	334.5	333.6
65°	302.2	303.1	301.4	302.2	302.2	300.6	300.6	299.8	299.8	298.9
67.5°	267.6	267.6	266.7	266.7	267.6	266.7	266.7	265.9	265.9	265.1
70°	232.1	233.7	232.9	232.9	232.9	232.1	232.1	232.1	231.2	232.1
72.5°	196.5	196.5	196.5	196.5	196.5	197.4	197.4	197.4	197.4	196.5
75°	163.5	164.3	163.5	164.3	165.2	165.2	165.2	165.2	166.0	165.2
77.5°	131.3	132.1	132.1	133.8	133.8	133.8	134.6	134.6	134.6	134.6
80°	100.7	101.6	102.4	104.1	104.1	105.7	106.5	106.5	106.5	106.5
82.5°	72.7	75.1	76.0	78.5	79.3	79.3	80.9	81.8	81.8	81.8
85°	50.4	52.9	54.5	56.2	57.8	57.8	59.5	59.5	60.3	60.3
87.5°	31.4	33.9	35.5	38.0	38.8	39.6	40.5	41.3	42.1	42.1
90°	17.3	19.0	20.6	22.3	22.3	23.1	23.9	24.8	25.6	25.6
92.5°	12.4	13.2	14.9	15.7	15.7	16.5	17.3	17.3	18.2	18.2
95°	14.0	14.9	14.9	15.7	15.7	15.7	16.5	16.5	16.5	16.5
97.5°	21.5	21.5	21.5	20.6	20.6	20.6	20.6	20.6	20.6	20.6
100°	28.1	28.9	28.9	28.9	29.7	29.7	29.7	29.7	28.9	28.9
102.5°	31.4	32.2	33.0	33.9	33.9	33.9	34.7	34.7	34.7	34.7
105°	35.5	35.5	36.3	37.2	37.2	37.2	38.0	38.0	38.0	38.0
107.5°	40.5	40.5	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
110°	46.2	46.2	46.2	45.4	46.2	45.4	45.4	45.4	45.4	45.4



TEST NUMBER: P395876

CATALOG NUMBER: I3-WL-40L93050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	52.9	52.0	52.0	51.2	51.2	51.2	50.4	50.4	50.4	50.4
115°	63.6	59.5	57.8	56.2	56.2	56.2	55.3	55.3	55.3	55.3
117.5°	76.8	71.0	67.7	64.4	63.6	62.8	61.1	61.1	60.3	60.3
120°	90.8	85.1	80.1	76.0	74.3	73.5	71.0	69.4	67.7	67.7
122.5°	104.1	98.3	93.3	89.2	87.5	85.9	83.4	81.8	80.1	80.1
125°	117.3	111.5	106.5	102.4	99.9	98.3	95.8	94.1	92.5	92.5
127.5°	131.3	123.9	118.9	114.8	112.3	111.5	108.2	106.5	104.9	104.9
130°	147.0	137.9	131.3	126.4	124.7	123.0	120.6	118.9	117.3	117.3
132.5°	162.7	153.6	146.2	139.6	137.1	135.4	132.1	130.5	128.8	128.8
135°	177.6	169.3	161.9	155.3	152.8	150.3	147.0	143.7	142.0	142.0
137.5°	189.1	183.3	176.7	170.9	168.5	166.0	162.7	159.4	156.9	157.7
140°	199.0	194.1	189.9	185.8	183.3	181.7	178.4	175.9	173.4	173.4
142.5°	208.1	204.0	199.8	196.5	195.7	194.9	192.4	189.9	188.3	188.3
145°	216.4	213.9	210.6	206.5	205.6	204.8	202.3	200.7	199.8	199.8
147.5°	218.8	219.7	218.8	216.4	215.5	214.7	213.1	211.4	210.6	210.6
150°	217.2	220.5	222.1	222.1	222.1	222.1	222.1	220.5	219.7	219.7
152.5°	212.2	217.2	220.5	223.0	223.8	224.6	224.6	225.4	224.6	224.6
155°	206.5	211.4	216.4	218.8	220.5	221.3	223.0	223.8	224.6	223.8
157.5°	199.8	204.0	207.3	212.2	213.9	215.5	217.2	218.8	219.7	218.8
160°	194.1	197.4	199.8	203.2	204.0	205.6	207.3	208.1	209.8	208.9
162.5°	188.3	190.8	193.2	194.9	196.5	197.4	199.0	199.8	200.7	199.8
165°	184.2	185.8	186.6	188.3	189.1	189.9	190.8	191.6	191.6	191.6
167.5°	179.2	180.9	181.7	182.5	183.3	184.2	184.2	185.0	185.0	185.0
170°	175.1	175.9	176.7	177.6	177.6	178.4	178.4	178.4	179.2	178.4
172.5°	171.8	171.8	171.8	172.6	172.6	172.6	172.6	172.6	172.6	171.8
175°	170.1	170.1	169.3	169.3	169.3	169.3	169.3	168.5	167.6	166.8
177.5°	169.3	168.5	168.5	167.6	167.6	167.6	166.8	166.0	165.2	164.3
180°	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5

(END OF REPORT)