

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: P395858

Luminaire Tested: **I3-WL-40L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395858
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 (4500K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3865.4 lumens
Efficiency: N/A
Efficacy: 103.4 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

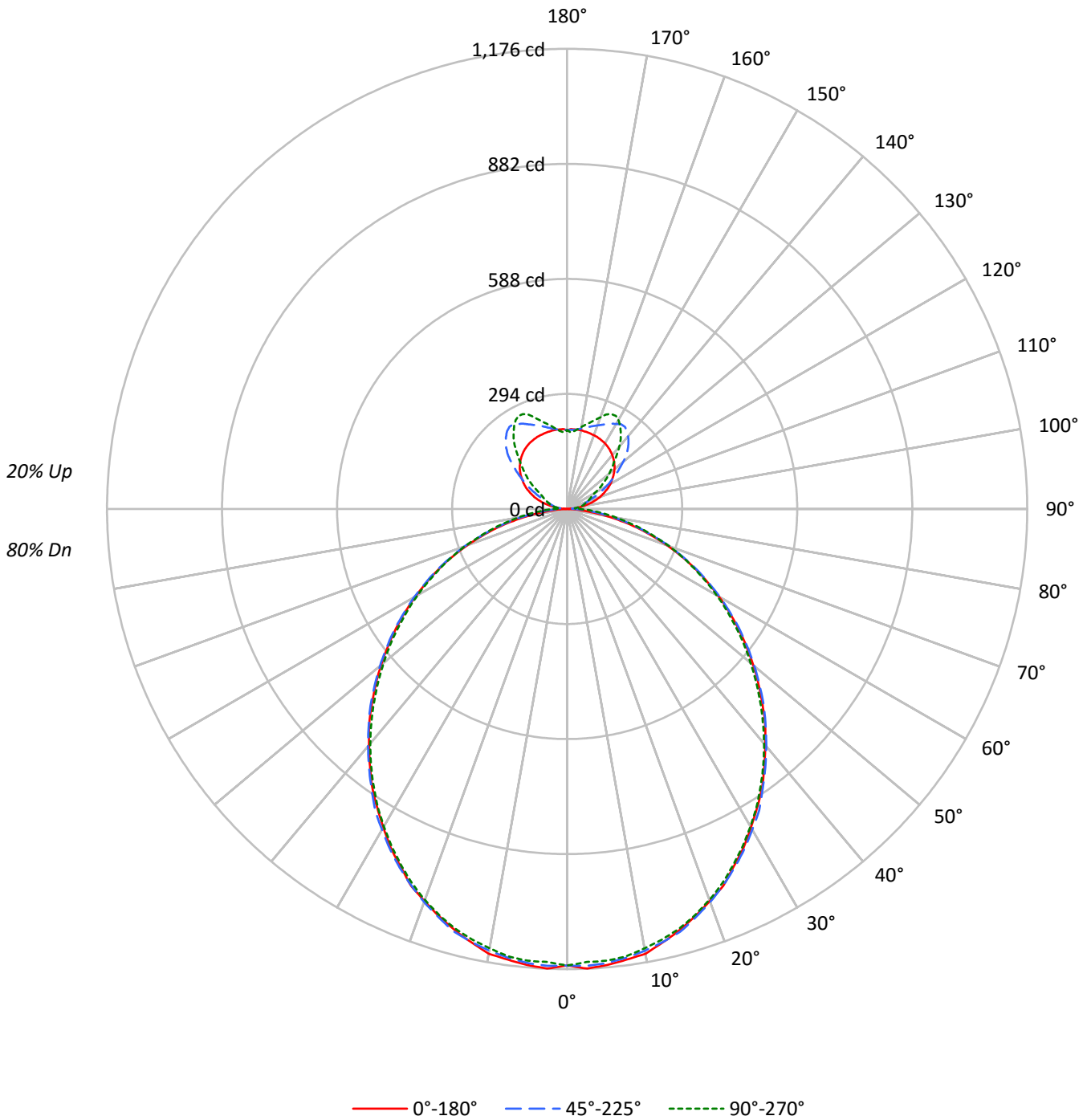
Input Watts (W): 37.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6413	6413	6413
5°	6430	6281	6212
10°	6392	6110	6010
15°	6264	5941	5796
20°	6141	5701	5546
25°	5993	5460	5269
30°	5821	5209	4986
35°	5660	4931	4693
40°	5457	4645	4389
45°	5262	4364	4069
50°	5053	4057	3745
55°	4833	3744	3416
60°	4588	3396	3075
65°	4306	3017	2710
70°	3906	2576	2327
75°	3365	2042	1868
80°	2568	1471	1394
85°	1341	879	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	2.9
10°-20°	312.7	8.1
20°-30°	463.0	12.0
30°-40°	541.1	14.0
40°-50°	543.5	14.1
50°-60°	477.7	12.4
60°-70°	357.9	9.3
70°-80°	203.6	5.3
80°-90°	64.3	1.7
90°-100°	23.2	0.6
100°-110°	56.4	1.5
110°-120°	93.8	2.4
120°-130°	131.6	3.4
130°-140°	151.7	3.9
140°-150°	144.8	3.7
150°-160°	108.9	2.8
160°-170°	61.6	1.6
170°-180°	19.5	0.5
0°-30°	885.9	22.9
0°-40°	1427.0	36.9
0°-60°	2448.2	63.3
0°-90°	3073.9	79.5
90°-120°	173.4	4.5
90°-150°	601.4	15.6
90°-180°	792.0	20.5
0°-180°	3865.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1170	1158	1165	1161	1159	111
15°	1113	1104	1118	1110	1110	314
25°	1008	1005	1012	1008	1004	465
35°	869	862	872	865	863	542
45°	706	705	711	703	698	545
55°	535	537	539	532	526	478
65°	361	362	364	361	357	357
75°	184	187	192	197	197	194
85°	32	42	56	69	72	41
90°	1	6	18	27	31	3
95°	17	17	17	19	20	19
105°	66	56	42	44	45	69
115°	109	135	83	67	66	107
125°	143	197	149	119	111	128
135°	170	215	220	183	170	131
145°	188	213	257	246	239	117
155°	197	209	239	264	268	91
165°	202	205	217	226	229	57
175°	204	202	202	202	199	19
180°	201	201	201	201	201	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1175.6	1173.7	1168.7	1163.8	1162.8	1161.8	1161.8	1160.8	1160.8	1162.8	1168.7
5°	1169.7	1168.7	1163.8	1158.8	1157.9	1157.9	1156.9	1156.9	1156.9	1158.8	1164.8
7.5°	1161.8	1159.8	1154.9	1150.0	1149.0	1149.0	1149.0	1148.0	1149.0	1150.0	1156.9
10°	1153.9	1152.9	1148.0	1142.1	1140.1	1140.1	1139.1	1137.1	1137.1	1139.1	1146.0
12.5°	1134.2	1133.2	1128.2	1124.3	1124.3	1125.3	1125.3	1126.3	1126.3	1128.2	1133.2
15°	1113.4	1112.5	1107.5	1103.6	1103.6	1103.6	1102.6	1102.6	1103.6	1109.5	1118.4
17.5°	1090.7	1089.8	1085.8	1081.9	1081.9	1081.9	1080.9	1080.9	1081.9	1084.8	1093.7
20°	1066.1	1065.1	1061.1	1057.2	1057.2	1057.2	1056.2	1057.2	1057.2	1061.1	1069.0
22.5°	1042.4	1040.4	1035.5	1031.5	1029.5	1029.5	1029.5	1028.6	1030.5	1033.5	1041.4
25°	1007.8	1006.8	1004.9	1001.9	1003.9	1004.9	1002.9	1000.9	1000.9	1004.9	1011.8
27.5°	976.2	974.3	971.3	968.3	966.4	967.4	968.3	970.3	973.3	974.3	980.2
30°	939.7	938.7	935.8	931.8	932.8	933.8	933.8	933.8	935.8	944.6	946.6
32.5°	904.2	903.2	900.2	896.3	897.3	898.3	897.3	898.3	900.2	904.2	913.1
35°	868.6	866.7	863.7	862.7	861.7	861.7	861.7	862.7	863.7	866.7	871.6
37.5°	828.2	826.2	824.2	821.3	823.2	825.2	826.2	825.2	826.2	830.1	832.1
40°	787.7	786.7	784.7	782.8	783.8	784.7	783.8	786.7	788.7	790.7	791.7
42.5°	749.2	747.2	745.3	744.3	744.3	745.3	745.3	747.2	747.2	752.2	751.2
45°	705.8	704.8	703.8	703.8	704.8	704.8	704.8	705.8	706.8	709.7	710.7
47.5°	663.3	662.3	662.3	662.3	662.3	663.3	664.3	667.3	665.3	666.3	667.3
50°	620.9	619.9	619.9	619.9	621.9	621.9	623.8	624.8	625.8	623.8	624.8
52.5°	577.5	576.5	578.4	578.4	580.4	580.4	583.4	580.4	582.4	581.4	581.4
55°	535.0	534.0	536.0	535.0	537.0	537.0	539.0	539.9	539.0	539.0	539.0
57.5°	491.6	490.6	491.6	492.6	493.5	493.5	496.5	496.5	493.5	495.5	494.5
60°	448.1	447.2	448.1	449.1	450.1	450.1	451.1	449.1	451.1	452.1	451.1
62.5°	404.7	403.7	405.7	404.7	405.7	406.7	406.7	409.6	408.7	408.7	407.7
65°	361.3	360.3	360.3	360.3	361.3	362.3	363.3	364.2	364.2	365.2	364.2
67.5°	316.9	315.9	316.9	315.9	316.9	317.8	319.8	320.8	320.8	321.8	320.8
70°	271.5	272.4	271.5	272.4	273.4	274.4	275.4	277.4	277.4	277.4	277.4
72.5°	227.0	226.0	226.0	225.1	227.0	228.0	229.0	232.0	232.0	233.0	233.0
75°	183.6	181.6	182.6	181.6	185.6	186.6	186.6	189.5	190.5	192.5	191.5
77.5°	141.2	141.2	139.2	142.1	143.1	145.1	147.1	149.1	150.0	153.0	153.0
80°	100.7	100.7	99.7	101.7	105.6	106.6	109.6	110.6	113.5	115.5	116.5
82.5°	64.2	64.2	64.2	67.1	70.1	71.1	74.0	77.0	79.0	81.9	82.9
85°	31.6	33.6	33.6	37.5	39.5	41.5	42.4	46.4	49.4	53.3	56.3
87.5°	9.9	10.9	11.8	13.8	17.8	18.8	20.7	24.7	27.6	31.6	34.5
90°	1.0	1.0	2.0	3.0	4.9	5.9	7.9	9.9	12.8	15.8	17.8
92.5°	6.9	6.9	7.9	7.9	7.9	7.9	7.9	8.9	9.9	11.8	12.8
95°	16.8	26.7	15.8	14.8	16.8	16.8	17.8	16.8	16.8	16.8	16.8
97.5°	27.6	49.4	32.6	22.7	21.7	22.7	22.7	24.7	25.7	26.7	26.7
100°	40.5	62.2	57.3	37.5	30.6	29.6	29.6	29.6	30.6	31.6	32.6
102.5°	53.3	71.1	81.9	58.2	43.4	39.5	37.5	36.5	35.5	36.5	36.5
105°	66.1	80.0	100.7	79.0	62.2	56.3	50.3	43.4	42.4	42.4	42.4
107.5°	78.0	88.8	114.5	102.7	80.9	75.0	68.1	57.3	50.3	49.4	48.4
110°	88.8	97.7	124.4	122.4	101.7	92.8	86.9	75.0	65.1	58.2	55.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	98.7	106.6	131.3	139.2	124.4	113.5	104.6	92.8	81.9	73.0	66.1
115°	108.6	115.5	137.2	153.0	144.1	135.2	125.4	110.6	99.7	90.8	82.9
117.5°	118.5	124.4	143.1	162.9	160.9	155.0	147.1	129.3	116.5	107.6	98.7
120°	127.3	133.3	149.1	169.8	175.7	170.8	165.8	150.0	134.2	124.4	116.5
122.5°	135.2	140.2	155.0	175.7	186.6	185.6	180.6	169.8	154.0	142.1	132.3
125°	143.1	148.1	160.9	179.7	194.5	197.4	195.4	186.6	174.7	160.9	149.1
127.5°	151.0	155.0	166.8	183.6	200.4	206.3	207.3	201.4	192.5	180.6	167.8
130°	157.9	161.9	171.8	186.6	204.3	211.2	215.2	214.2	207.3	199.4	186.6
132.5°	163.9	166.8	176.7	189.5	206.3	214.2	220.1	225.1	220.1	214.2	205.3
135°	169.8	172.7	180.6	192.5	207.3	215.2	223.1	231.0	232.0	227.0	220.1
137.5°	174.7	176.7	184.6	194.5	207.3	215.2	223.1	233.9	239.9	237.9	232.0
140°	179.7	181.6	187.5	197.4	208.3	215.2	222.1	234.9	242.8	245.8	242.8
142.5°	183.6	185.6	190.5	199.4	208.3	214.2	221.1	233.0	243.8	249.7	251.7
145°	187.5	188.5	193.5	200.4	208.3	213.2	219.1	231.0	241.8	250.7	256.6
147.5°	190.5	191.5	194.5	201.4	208.3	212.2	217.2	227.0	237.9	247.8	256.6
150°	193.5	193.5	196.4	201.4	208.3	211.2	215.2	224.1	233.0	242.8	250.7
152.5°	195.4	195.4	198.4	202.4	207.3	210.3	214.2	221.1	229.0	237.9	245.8
155°	197.4	197.4	199.4	202.4	207.3	209.3	212.2	218.1	225.1	232.0	238.9
157.5°	199.4	199.4	200.4	203.3	206.3	208.3	211.2	216.2	221.1	227.0	233.0
160°	200.4	200.4	201.4	203.3	205.3	207.3	209.3	213.2	218.1	222.1	227.0
162.5°	201.4	201.4	202.4	203.3	205.3	206.3	207.3	211.2	214.2	218.1	222.1
165°	202.4	202.4	202.4	203.3	204.3	205.3	206.3	208.3	211.2	214.2	217.2
167.5°	203.3	203.3	203.3	203.3	204.3	204.3	205.3	206.3	208.3	210.3	212.2
170°	204.3	203.3	203.3	204.3	203.3	203.3	204.3	205.3	205.3	207.3	208.3
172.5°	204.3	204.3	203.3	203.3	203.3	203.3	203.3	203.3	203.3	204.3	205.3
175°	204.3	204.3	203.3	203.3	203.3	202.4	202.4	202.4	202.4	202.4	202.4
177.5°	204.3	204.3	203.3	203.3	202.4	202.4	202.4	202.4	202.4	202.4	202.4
180°	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7	1166.7
2.5°	1174.6	1169.7	1167.7	1166.7	1165.8	1164.8	1162.8	1160.8	1158.8	1158.8
5°	1169.7	1164.8	1162.8	1161.8	1160.8	1159.8	1158.8	1158.8	1158.8	1158.8
7.5°	1161.8	1156.9	1154.9	1153.9	1153.9	1152.9	1152.9	1152.9	1151.9	1152.9
10°	1150.0	1145.0	1144.0	1143.1	1142.1	1140.1	1140.1	1140.1	1139.1	1140.1
12.5°	1135.2	1130.2	1129.2	1128.2	1127.3	1126.3	1126.3	1125.3	1125.3	1126.3
15°	1120.4	1113.4	1111.5	1111.5	1110.5	1109.5	1110.5	1109.5	1109.5	1109.5
17.5°	1098.6	1095.7	1092.7	1090.7	1089.8	1088.8	1088.8	1087.8	1087.8	1087.8
20°	1070.0	1070.0	1070.0	1065.1	1064.1	1063.1	1063.1	1063.1	1063.1	1063.1
22.5°	1042.4	1037.4	1041.4	1038.4	1036.4	1034.5	1035.5	1035.5	1035.5	1035.5
25°	1011.8	1007.8	1008.8	1009.8	1007.8	1004.9	1004.9	1004.9	1004.9	1003.9
27.5°	979.2	976.2	975.2	976.2	978.2	976.2	973.3	970.3	971.3	971.3
30°	943.7	942.7	941.7	939.7	941.7	942.7	937.7	936.8	936.8	936.8
32.5°	908.1	907.1	904.2	902.2	903.2	905.2	903.2	901.2	901.2	901.2
35°	872.6	868.6	865.7	864.7	864.7	866.7	865.7	862.7	862.7	862.7
37.5°	831.1	832.1	827.2	826.2	826.2	826.2	828.2	823.2	824.2	823.2
40°	790.7	791.7	788.7	785.7	786.7	784.7	787.7	782.8	782.8	782.8
42.5°	750.2	748.2	749.2	743.3	744.3	744.3	745.3	742.3	741.3	740.3
45°	708.7	706.8	705.8	702.8	702.8	701.8	701.8	697.9	697.9	697.9
47.5°	665.3	664.3	662.3	660.4	660.4	659.4	657.4	656.4	655.4	655.4
50°	623.8	620.9	617.9	618.9	617.9	616.9	615.0	614.0	613.0	612.0
52.5°	579.4	579.4	575.5	575.5	575.5	574.5	572.5	570.5	570.5	569.6
55°	536.0	535.0	532.0	531.1	532.0	531.1	529.1	527.1	527.1	526.1
57.5°	492.6	490.6	489.6	489.6	488.6	488.6	485.7	483.7	484.7	483.7
60°	448.1	448.1	447.2	446.2	446.2	445.2	442.2	442.2	442.2	441.2
62.5°	405.7	405.7	403.7	402.7	403.7	402.7	401.7	400.8	399.8	398.8
65°	361.3	362.3	360.3	361.3	361.3	359.3	359.3	358.3	358.3	357.3
67.5°	319.8	319.8	318.8	318.8	319.8	318.8	318.8	317.8	317.8	316.9
70°	277.4	279.3	278.4	278.4	278.4	277.4	277.4	277.4	276.4	277.4
72.5°	234.9	234.9	234.9	234.9	234.9	235.9	235.9	235.9	235.9	234.9
75°	195.4	196.4	195.4	196.4	197.4	197.4	197.4	197.4	198.4	197.4
77.5°	156.9	157.9	157.9	159.9	159.9	159.9	160.9	160.9	160.9	160.9
80°	120.4	121.4	122.4	124.4	124.4	126.3	127.3	127.3	127.3	127.3
82.5°	86.9	89.8	90.8	93.8	94.8	94.8	96.7	97.7	97.7	97.7
85°	60.2	63.2	65.1	67.1	69.1	69.1	71.1	71.1	72.1	72.1
87.5°	37.5	40.5	42.4	45.4	46.4	47.4	48.4	49.4	50.3	50.3
90°	20.7	22.7	24.7	26.7	26.7	27.6	28.6	29.6	30.6	30.6
92.5°	14.8	15.8	17.8	18.8	18.8	19.7	20.7	20.7	21.7	21.7
95°	16.8	17.8	17.8	18.8	18.8	18.8	19.7	19.7	19.7	19.7
97.5°	25.7	25.7	25.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
100°	33.6	34.5	34.5	34.5	35.5	35.5	35.5	35.5	34.5	34.5
102.5°	37.5	38.5	39.5	40.5	40.5	40.5	41.5	41.5	41.5	41.5
105°	42.4	42.4	43.4	44.4	44.4	44.4	45.4	45.4	45.4	45.4
107.5°	48.4	48.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
110°	55.3	55.3	55.3	54.3	55.3	54.3	54.3	54.3	54.3	54.3



TEST NUMBER: P395858

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	63.2	62.2	62.2	61.2	61.2	61.2	60.2	60.2	60.2	60.2
115°	76.0	71.1	69.1	67.1	67.1	67.1	66.1	66.1	66.1	66.1
117.5°	91.8	84.9	80.9	77.0	76.0	75.0	73.0	73.0	72.1	72.1
120°	108.6	101.7	95.7	90.8	88.8	87.9	84.9	82.9	80.9	80.9
122.5°	124.4	117.5	111.5	106.6	104.6	102.7	99.7	97.7	95.7	95.7
125°	140.2	133.3	127.3	122.4	119.4	117.5	114.5	112.5	110.6	110.6
127.5°	156.9	148.1	142.1	137.2	134.2	133.3	129.3	127.3	125.4	125.4
130°	175.7	164.8	156.9	151.0	149.1	147.1	144.1	142.1	140.2	140.2
132.5°	194.5	183.6	174.7	166.8	163.9	161.9	157.9	156.0	154.0	154.0
135°	212.2	202.4	193.5	185.6	182.6	179.7	175.7	171.8	169.8	169.8
137.5°	226.0	219.1	211.2	204.3	201.4	198.4	194.5	190.5	187.5	188.5
140°	237.9	232.0	227.0	222.1	219.1	217.2	213.2	210.3	207.3	207.3
142.5°	248.7	243.8	238.9	234.9	233.9	233.0	230.0	227.0	225.1	225.1
145°	258.6	255.7	251.7	246.8	245.8	244.8	241.8	239.9	238.9	238.9
147.5°	261.6	262.6	261.6	258.6	257.6	256.6	254.7	252.7	251.7	251.7
150°	259.6	263.6	265.5	265.5	265.5	265.5	265.5	263.6	262.6	262.6
152.5°	253.7	259.6	263.6	266.5	267.5	268.5	268.5	269.5	268.5	268.5
155°	246.8	252.7	258.6	261.6	263.6	264.5	266.5	267.5	268.5	267.5
157.5°	238.9	243.8	247.8	253.7	255.7	257.6	259.6	261.6	262.6	261.6
160°	232.0	235.9	238.9	242.8	243.8	245.8	247.8	248.7	250.7	249.7
162.5°	225.1	228.0	231.0	233.0	234.9	235.9	237.9	238.9	239.9	238.9
165°	220.1	222.1	223.1	225.1	226.0	227.0	228.0	229.0	229.0	229.0
167.5°	214.2	216.2	217.2	218.1	219.1	220.1	220.1	221.1	221.1	221.1
170°	209.3	210.3	211.2	212.2	212.2	213.2	213.2	213.2	214.2	213.2
172.5°	205.3	205.3	205.3	206.3	206.3	206.3	206.3	206.3	206.3	205.3
175°	203.3	203.3	202.4	202.4	202.4	202.4	202.4	201.4	200.4	199.4
177.5°	202.4	201.4	201.4	200.4	200.4	200.4	199.4	198.4	197.4	196.4
180°	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4

(END OF REPORT)