

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: P395863

Luminaire Tested: **I3-WL-40L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395863
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 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3804.5 lumens
Efficiency: N/A
Efficacy: 103.7 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

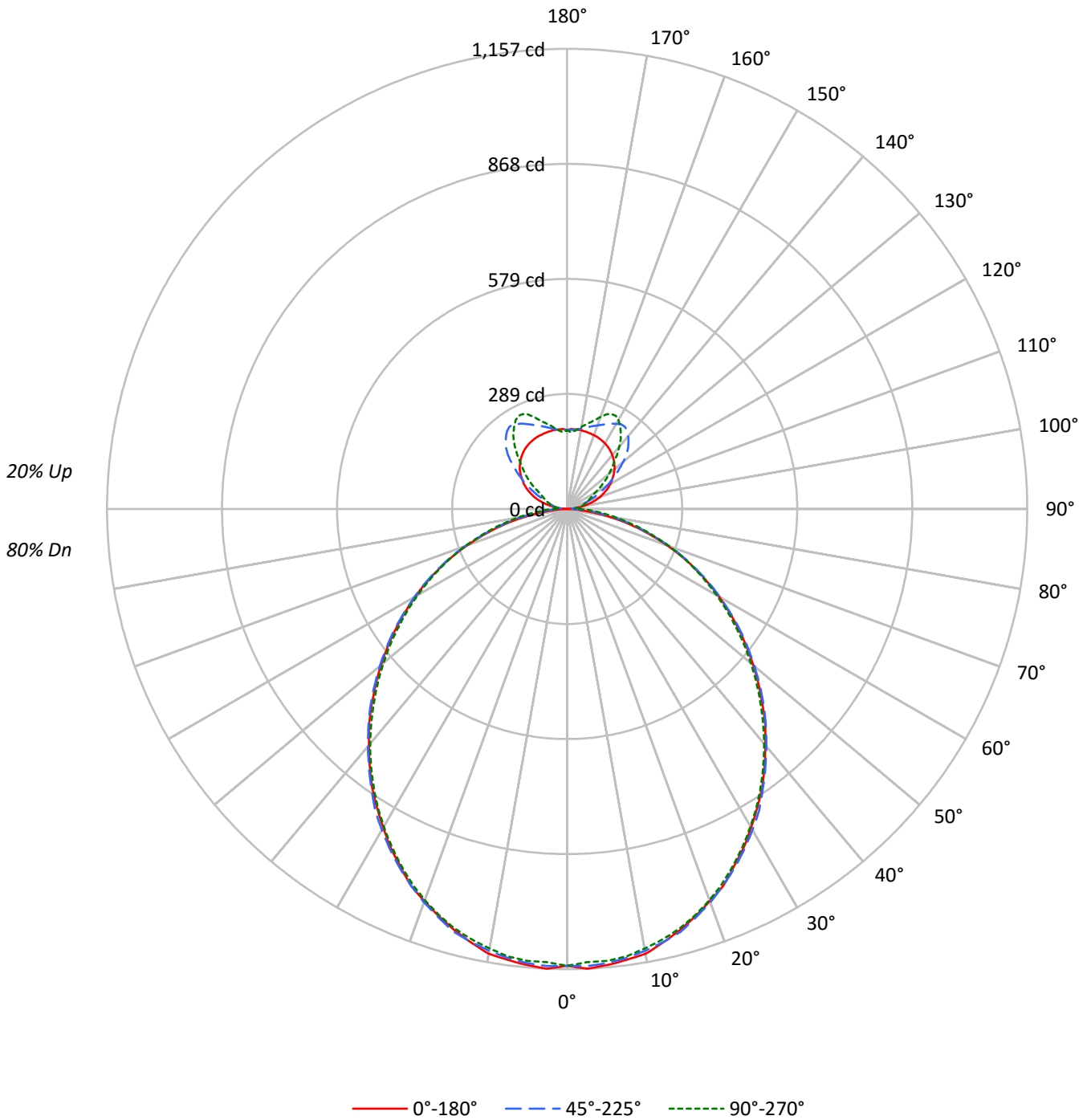
Input Watts (W): 36.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6312	6312	6312
5°	6329	6181	6115
10°	6291	6014	5915
15°	6166	5847	5704
20°	6044	5612	5458
25°	5899	5373	5186
30°	5729	5127	4907
35°	5571	4853	4619
40°	5371	4571	4320
45°	5180	4296	4005
50°	4973	3994	3687
55°	4757	3685	3362
60°	4516	3342	3027
65°	4238	2970	2667
70°	3845	2536	2290
75°	3312	2010	1839
80°	2527	1447	1372
85°	1320	865	930



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CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	2.9
10°-20°	307.7	8.1
20°-30°	455.7	12.0
30°-40°	532.6	14.0
40°-50°	535.0	14.1
50°-60°	470.2	12.4
60°-70°	352.3	9.3
70°-80°	200.4	5.3
80°-90°	63.3	1.7
90°-100°	22.8	0.6
100°-110°	55.5	1.5
110°-120°	92.3	2.4
120°-130°	129.5	3.4
130°-140°	149.3	3.9
140°-150°	142.5	3.7
150°-160°	107.2	2.8
160°-170°	60.7	1.6
170°-180°	19.2	0.5
0°-30°	871.9	22.9
0°-40°	1404.5	36.9
0°-60°	2409.6	63.3
0°-90°	3025.5	79.5
90°-120°	170.7	4.5
90°-150°	591.9	15.6
90°-180°	779.0	20.5
0°-180°	3804.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1151	1140	1146	1142	1141	109
15°	1096	1086	1101	1093	1092	309
25°	992	989	996	992	988	457
35°	855	848	858	851	849	534
45°	695	694	700	692	687	536
55°	527	528	530	524	518	471
65°	356	357	358	356	352	351
75°	181	184	188	194	194	191
85°	31	41	55	68	71	40
90°	1	6	18	26	30	3
95°	16	16	16	18	19	18
105°	65	55	42	44	45	68
115°	107	133	82	66	65	106
125°	141	194	147	118	109	126
135°	167	212	217	180	167	129
145°	185	210	253	242	235	115
155°	194	206	235	259	263	90
165°	199	202	214	222	225	56
175°	201	199	199	199	196	19
180°	198	198	198	198	198	



TEST NUMBER: P395863

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1157.1	1155.2	1150.3	1145.5	1144.5	1143.5	1143.5	1142.5	1142.5	1144.5	1150.3
5°	1151.3	1150.3	1145.5	1140.6	1139.6	1139.6	1138.7	1138.7	1138.7	1140.6	1146.4
7.5°	1143.5	1141.6	1136.7	1131.9	1130.9	1130.9	1130.9	1129.9	1130.9	1131.9	1138.7
10°	1135.7	1134.8	1129.9	1124.1	1122.1	1122.1	1121.2	1119.2	1119.2	1121.2	1128.0
12.5°	1116.3	1115.3	1110.5	1106.6	1106.6	1107.6	1107.6	1108.5	1108.5	1110.5	1115.3
15°	1095.9	1094.9	1090.1	1086.2	1086.2	1086.2	1085.2	1085.2	1086.2	1092.0	1100.8
17.5°	1073.6	1072.6	1068.7	1064.8	1064.8	1064.8	1063.8	1063.8	1064.8	1067.7	1076.5
20°	1049.3	1048.3	1044.4	1040.5	1040.5	1040.5	1039.6	1040.5	1040.5	1044.4	1052.2
22.5°	1026.0	1024.0	1019.2	1015.3	1013.3	1013.3	1013.3	1012.4	1014.3	1017.2	1025.0
25°	992.0	991.0	989.0	986.1	988.1	989.0	987.1	985.2	985.2	989.0	995.8
27.5°	960.9	958.9	956.0	953.1	951.1	952.1	953.1	955.0	957.9	958.9	964.7
30°	924.9	923.9	921.0	917.1	918.1	919.1	919.1	919.1	921.0	929.8	931.7
32.5°	889.9	889.0	886.1	882.2	883.1	884.1	883.1	884.1	886.1	889.9	898.7
35°	855.0	853.0	850.1	849.1	848.2	848.2	848.2	849.1	850.1	853.0	857.9
37.5°	815.1	813.2	811.2	808.3	810.3	812.2	813.2	812.2	813.2	817.1	819.0
40°	775.3	774.3	772.4	770.4	771.4	772.4	771.4	774.3	776.3	778.2	779.2
42.5°	737.4	735.5	733.5	732.5	732.5	733.5	733.5	735.5	735.5	740.3	739.3
45°	694.7	693.7	692.7	692.7	693.7	693.7	693.7	694.7	695.6	698.5	699.5
47.5°	652.9	651.9	651.9	651.9	651.9	652.9	653.9	656.8	654.8	655.8	656.8
50°	611.1	610.1	610.1	610.1	612.1	612.1	614.0	615.0	616.0	614.0	615.0
52.5°	568.4	567.4	569.3	569.3	571.3	571.3	574.2	571.3	573.2	572.2	572.2
55°	526.6	525.6	527.6	526.6	528.5	528.5	530.5	531.4	530.5	530.5	530.5
57.5°	483.8	482.9	483.8	484.8	485.8	485.8	488.7	488.7	485.8	487.7	486.7
60°	441.1	440.1	441.1	442.1	443.0	443.0	444.0	442.1	444.0	445.0	444.0
62.5°	398.3	397.4	399.3	398.3	399.3	400.3	400.3	403.2	402.2	402.2	401.3
65°	355.6	354.6	354.6	354.6	355.6	356.6	357.5	358.5	358.5	359.5	358.5
67.5°	311.9	310.9	311.9	310.9	311.9	312.8	314.8	315.8	315.8	316.7	315.8
70°	267.2	268.1	267.2	268.1	269.1	270.1	271.1	273.0	273.0	273.0	273.0
72.5°	223.5	222.5	222.5	221.5	223.5	224.4	225.4	228.3	228.3	229.3	229.3
75°	180.7	178.8	179.7	178.8	182.7	183.6	183.6	186.5	187.5	189.5	188.5
77.5°	138.9	138.9	137.0	139.9	140.9	142.8	144.8	146.7	147.7	150.6	150.6
80°	99.1	99.1	98.1	100.1	104.0	104.9	107.8	108.8	111.7	113.7	114.6
82.5°	63.2	63.2	63.2	66.1	69.0	70.0	72.9	75.8	77.7	80.6	81.6
85°	31.1	33.0	33.0	36.9	38.9	40.8	41.8	45.7	48.6	52.5	55.4
87.5°	9.7	10.7	11.7	13.6	17.5	18.5	20.4	24.3	27.2	31.1	34.0
90°	1.0	1.0	1.9	2.9	4.9	5.8	7.8	9.7	12.6	15.5	17.5
92.5°	6.8	6.8	7.8	7.8	7.8	7.8	7.8	8.7	9.7	11.7	12.6
95°	16.5	26.2	15.5	14.6	16.5	16.5	17.5	16.5	16.5	16.5	16.5
97.5°	27.2	48.6	32.1	22.3	21.4	22.3	22.3	24.3	25.3	26.2	26.2
100°	39.8	61.2	56.3	36.9	30.1	29.1	29.1	29.1	30.1	31.1	32.1
102.5°	52.5	70.0	80.6	57.3	42.7	38.9	36.9	35.9	35.0	35.9	35.9
105°	65.1	78.7	99.1	77.7	61.2	55.4	49.5	42.7	41.8	41.8	41.8
107.5°	76.8	87.4	112.7	101.0	79.7	73.8	67.0	56.3	49.5	48.6	47.6
110°	87.4	96.2	122.4	120.5	100.1	91.3	85.5	73.8	64.1	57.3	54.4



TEST NUMBER: P395863

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	97.2	104.9	129.2	137.0	122.4	111.7	103.0	91.3	80.6	71.9	65.1
115°	106.9	113.7	135.0	150.6	141.8	133.1	123.4	108.8	98.1	89.4	81.6
117.5°	116.6	122.4	140.9	160.3	158.4	152.5	144.8	127.3	114.6	105.9	97.2
120°	125.3	131.2	146.7	167.1	172.9	168.1	163.2	147.7	132.1	122.4	114.6
122.5°	133.1	138.0	152.5	172.9	183.6	182.7	177.8	167.1	151.6	139.9	130.2
125°	140.9	145.7	158.4	176.8	191.4	194.3	192.4	183.6	172.0	158.4	146.7
127.5°	148.6	152.5	164.2	180.7	197.2	203.1	204.0	198.2	189.5	177.8	165.2
130°	155.4	159.3	169.0	183.6	201.1	207.9	211.8	210.8	204.0	196.3	183.6
132.5°	161.3	164.2	173.9	186.5	203.1	210.8	216.7	221.5	216.7	210.8	202.1
135°	167.1	170.0	177.8	189.5	204.0	211.8	219.6	227.3	228.3	223.5	216.7
137.5°	172.0	173.9	181.7	191.4	204.0	211.8	219.6	230.3	236.1	234.1	228.3
140°	176.8	178.8	184.6	194.3	205.0	211.8	218.6	231.2	239.0	241.9	239.0
142.5°	180.7	182.7	187.5	196.3	205.0	210.8	217.6	229.3	240.0	245.8	247.7
145°	184.6	185.6	190.4	197.2	205.0	209.9	215.7	227.3	238.0	246.8	252.6
147.5°	187.5	188.5	191.4	198.2	205.0	208.9	213.7	223.5	234.1	243.9	252.6
150°	190.4	190.4	193.3	198.2	205.0	207.9	211.8	220.5	229.3	239.0	246.8
152.5°	192.4	192.4	195.3	199.2	204.0	206.9	210.8	217.6	225.4	234.1	241.9
155°	194.3	194.3	196.3	199.2	204.0	206.0	208.9	214.7	221.5	228.3	235.1
157.5°	196.3	196.3	197.2	200.1	203.1	205.0	207.9	212.8	217.6	223.5	229.3
160°	197.2	197.2	198.2	200.1	202.1	204.0	206.0	209.9	214.7	218.6	223.5
162.5°	198.2	198.2	199.2	200.1	202.1	203.1	204.0	207.9	210.8	214.7	218.6
165°	199.2	199.2	199.2	200.1	201.1	202.1	203.1	205.0	207.9	210.8	213.7
167.5°	200.1	200.1	200.1	200.1	201.1	201.1	202.1	203.1	205.0	206.9	208.9
170°	201.1	200.1	200.1	201.1	200.1	200.1	201.1	202.1	202.1	204.0	205.0
172.5°	201.1	201.1	200.1	200.1	200.1	200.1	200.1	200.1	200.1	201.1	202.1
175°	201.1	201.1	200.1	200.1	200.1	199.2	199.2	199.2	199.2	199.2	199.2
177.5°	201.1	201.1	200.1	200.1	199.2	199.2	199.2	199.2	199.2	199.2	199.2
180°	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4	1148.4
2.5°	1156.1	1151.3	1149.3	1148.4	1147.4	1146.4	1144.5	1142.5	1140.6	1140.6
5°	1151.3	1146.4	1144.5	1143.5	1142.5	1141.6	1140.6	1140.6	1140.6	1140.6
7.5°	1143.5	1138.7	1136.7	1135.7	1135.7	1134.8	1134.8	1134.8	1133.8	1134.8
10°	1131.9	1127.0	1126.0	1125.1	1124.1	1122.1	1122.1	1122.1	1121.2	1122.1
12.5°	1117.3	1112.4	1111.5	1110.5	1109.5	1108.5	1108.5	1107.6	1107.6	1108.5
15°	1102.7	1095.9	1094.0	1094.0	1093.0	1092.0	1093.0	1092.0	1092.0	1092.0
17.5°	1081.3	1078.4	1075.5	1073.6	1072.6	1071.6	1071.6	1070.6	1070.6	1070.6
20°	1053.2	1053.2	1053.2	1048.3	1047.3	1046.4	1046.4	1046.4	1046.4	1046.4
22.5°	1026.0	1021.1	1025.0	1022.1	1020.1	1018.2	1019.2	1019.2	1019.2	1019.2
25°	995.8	992.0	992.9	993.9	992.0	989.0	989.0	989.0	989.0	988.1
27.5°	963.8	960.9	959.9	960.9	962.8	960.9	957.9	955.0	956.0	956.0
30°	928.8	927.8	926.9	924.9	926.9	927.8	923.0	922.0	922.0	922.0
32.5°	893.8	892.9	889.9	888.0	889.0	890.9	889.0	887.0	887.0	887.0
35°	858.9	855.0	852.0	851.1	851.1	853.0	852.0	849.1	849.1	849.1
37.5°	818.0	819.0	814.2	813.2	813.2	813.2	815.1	810.3	811.2	810.3
40°	778.2	779.2	776.3	773.4	774.3	772.4	775.3	770.4	770.4	770.4
42.5°	738.4	736.4	737.4	731.6	732.5	732.5	733.5	730.6	729.6	728.7
45°	697.6	695.6	694.7	691.7	691.7	690.8	690.8	686.9	686.9	686.9
47.5°	654.8	653.9	651.9	650.0	650.0	649.0	647.1	646.1	645.1	645.1
50°	614.0	611.1	608.2	609.2	608.2	607.2	605.3	604.3	603.3	602.4
52.5°	570.3	570.3	566.4	566.4	566.4	565.4	563.5	561.6	561.6	560.6
55°	527.6	526.6	523.7	522.7	523.7	522.7	520.8	518.8	518.8	517.8
57.5°	484.8	482.9	481.9	481.9	480.9	480.9	478.0	476.1	477.0	476.1
60°	441.1	441.1	440.1	439.1	439.1	438.2	435.3	435.3	435.3	434.3
62.5°	399.3	399.3	397.4	396.4	397.4	396.4	395.4	394.4	393.5	392.5
65°	355.6	356.6	354.6	355.6	355.6	353.6	353.6	352.7	352.7	351.7
67.5°	314.8	314.8	313.8	313.8	314.8	313.8	313.8	312.8	312.8	311.9
70°	273.0	274.9	274.0	274.0	274.0	273.0	273.0	273.0	272.0	273.0
72.5°	231.2	231.2	231.2	231.2	231.2	232.2	232.2	232.2	232.2	231.2
75°	192.4	193.3	192.4	193.3	194.3	194.3	194.3	194.3	195.3	194.3
77.5°	154.5	155.4	155.4	157.4	157.4	157.4	158.4	158.4	158.4	158.4
80°	118.5	119.5	120.5	122.4	122.4	124.4	125.3	125.3	125.3	125.3
82.5°	85.5	88.4	89.4	92.3	93.3	93.3	95.2	96.2	96.2	96.2
85°	59.3	62.2	64.1	66.1	68.0	68.0	70.0	70.0	70.9	70.9
87.5°	36.9	39.8	41.8	44.7	45.7	46.6	47.6	48.6	49.5	49.5
90°	20.4	22.3	24.3	26.2	26.2	27.2	28.2	29.1	30.1	30.1
92.5°	14.6	15.5	17.5	18.5	18.5	19.4	20.4	20.4	21.4	21.4
95°	16.5	17.5	17.5	18.5	18.5	18.5	19.4	19.4	19.4	19.4
97.5°	25.3	25.3	25.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
100°	33.0	34.0	34.0	34.0	35.0	35.0	35.0	35.0	34.0	34.0
102.5°	36.9	37.9	38.9	39.8	39.8	39.8	40.8	40.8	40.8	40.8
105°	41.8	41.8	42.7	43.7	43.7	43.7	44.7	44.7	44.7	44.7
107.5°	47.6	47.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
110°	54.4	54.4	54.4	53.4	54.4	53.4	53.4	53.4	53.4	53.4



TEST NUMBER: P395863

CATALOG NUMBER: I3-WL-40L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	62.2	61.2	61.2	60.2	60.2	60.2	59.3	59.3	59.3	59.3
115°	74.8	70.0	68.0	66.1	66.1	66.1	65.1	65.1	65.1	65.1
117.5°	90.4	83.6	79.7	75.8	74.8	73.8	71.9	71.9	70.9	70.9
120°	106.9	100.1	94.2	89.4	87.4	86.5	83.6	81.6	79.7	79.7
122.5°	122.4	115.6	109.8	104.9	103.0	101.0	98.1	96.2	94.2	94.2
125°	138.0	131.2	125.3	120.5	117.6	115.6	112.7	110.8	108.8	108.8
127.5°	154.5	145.7	139.9	135.0	132.1	131.2	127.3	125.3	123.4	123.4
130°	172.9	162.2	154.5	148.6	146.7	144.8	141.8	139.9	138.0	138.0
132.5°	191.4	180.7	172.0	164.2	161.3	159.3	155.4	153.5	151.6	151.6
135°	208.9	199.2	190.4	182.7	179.7	176.8	172.9	169.0	167.1	167.1
137.5°	222.5	215.7	207.9	201.1	198.2	195.3	191.4	187.5	184.6	185.6
140°	234.1	228.3	223.5	218.6	215.7	213.7	209.9	206.9	204.0	204.0
142.5°	244.8	240.0	235.1	231.2	230.3	229.3	226.4	223.5	221.5	221.5
145°	254.5	251.6	247.7	242.9	241.9	240.9	238.0	236.1	235.1	235.1
147.5°	257.5	258.4	257.5	254.5	253.6	252.6	250.7	248.7	247.7	247.7
150°	255.5	259.4	261.3	261.3	261.3	261.3	261.3	259.4	258.4	258.4
152.5°	249.7	255.5	259.4	262.3	263.3	264.3	264.3	265.2	264.3	264.3
155°	242.9	248.7	254.5	257.5	259.4	260.4	262.3	263.3	264.3	263.3
157.5°	235.1	240.0	243.9	249.7	251.6	253.6	255.5	257.5	258.4	257.5
160°	228.3	232.2	235.1	239.0	240.0	241.9	243.9	244.8	246.8	245.8
162.5°	221.5	224.4	227.3	229.3	231.2	232.2	234.1	235.1	236.1	235.1
165°	216.7	218.6	219.6	221.5	222.5	223.5	224.4	225.4	225.4	225.4
167.5°	210.8	212.8	213.7	214.7	215.7	216.7	216.7	217.6	217.6	217.6
170°	206.0	206.9	207.9	208.9	208.9	209.9	209.9	209.9	210.8	209.9
172.5°	202.1	202.1	202.1	203.1	203.1	203.1	203.1	203.1	203.1	202.1
175°	200.1	200.1	199.2	199.2	199.2	199.2	199.2	198.2	197.2	196.3
177.5°	199.2	198.2	198.2	197.2	197.2	197.2	196.3	195.3	194.3	193.3
180°	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2

(END OF REPORT)