

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: P395080

Luminaire Tested: **I3-WL-40L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395080
Test Lab: INNOVATION CENTER (G2)
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-40L940-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

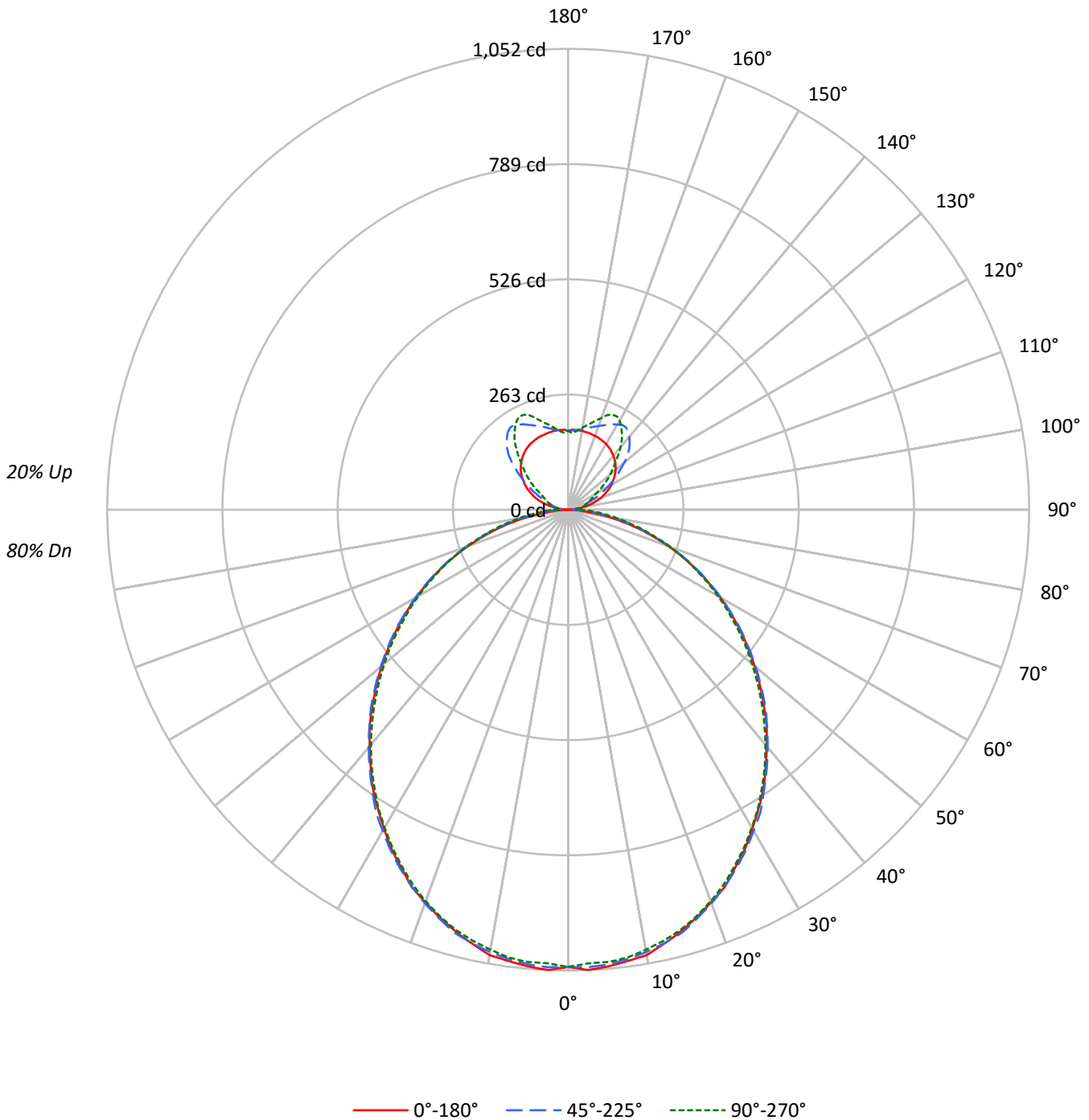
Lumens per Lamp: N/A
Luminaire Lumens: 3457.8 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 34.7
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°	5737	5737	5737
5°	5752	5618	5557
10°	5718	5466	5376
15°	5604	5314	5185
20°	5493	5100	4961
25°	5361	4884	4713
30°	5207	4659	4460
35°	5063	4411	4198
40°	4881	4155	3926
45°	4707	3904	3640
50°	4520	3629	3351
55°	4324	3349	3055
60°	4105	3037	2751
65°	3852	2699	2424
70°	3494	2304	2081
75°	3009	1826	1671
80°	2297	1315	1247
85°	1201	786	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	2.9
10°-20°	279.7	8.1
20°-30°	414.1	12.0
30°-40°	484.0	14.0
40°-50°	486.2	14.1
50°-60°	427.3	12.4
60°-70°	320.2	9.3
70°-80°	182.1	5.3
80°-90°	57.5	1.7
90°-100°	20.7	0.6
100°-110°	50.5	1.5
110°-120°	83.9	2.4
120°-130°	117.7	3.4
130°-140°	135.7	3.9
140°-150°	129.5	3.7
150°-160°	97.4	2.8
160°-170°	55.1	1.6
170°-180°	17.5	0.5
0°-30°	792.5	22.9
0°-40°	1276.5	36.9
0°-60°	2190.0	63.3
0°-90°	2749.8	79.5
90°-120°	155.1	4.5
90°-150°	538.0	15.6
90°-180°	708.0	20.5
0°-180°	3457.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1046	1036	1042	1038	1037	99
15°	996	987	1000	993	992	281
25°	902	899	905	902	898	416
35°	777	771	780	774	772	485
45°	631	630	636	629	624	487
55°	479	480	482	476	471	428
65°	323	324	326	323	320	319
75°	164	167	171	177	177	174
85°	28	37	50	62	64	37
90°	1	5	16	24	27	2
95°	15	15	15	17	18	17
105°	59	50	38	40	41	62
115°	97	121	74	60	59	96
125°	128	177	133	107	99	115
135°	152	192	197	163	152	117
145°	168	191	230	220	214	105
155°	177	187	214	236	239	82
165°	181	184	194	202	205	51
175°	183	181	181	181	178	17
180°	180	180	180	180	180	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7
2.5°	1051.7	1049.9	1045.5	1041.1	1040.2	1039.3	1039.3	1038.4	1038.4	1040.2	1045.5
5°	1046.4	1045.5	1041.1	1036.6	1035.8	1035.8	1034.9	1034.9	1034.9	1036.6	1041.9
7.5°	1039.3	1037.5	1033.1	1028.7	1027.8	1027.8	1027.8	1026.9	1027.8	1028.7	1034.9
10°	1032.2	1031.3	1026.9	1021.6	1019.9	1019.9	1019.0	1017.2	1017.2	1019.0	1025.2
12.5°	1014.6	1013.7	1009.3	1005.7	1005.7	1006.6	1006.6	1007.5	1007.5	1009.3	1013.7
15°	996.0	995.1	990.7	987.2	987.2	987.2	986.3	986.3	987.2	992.5	1000.4
17.5°	975.7	974.8	971.3	967.8	967.8	967.8	966.9	966.9	967.8	970.4	978.4
20°	953.6	952.8	949.2	945.7	945.7	945.7	944.8	945.7	945.7	949.2	956.3
22.5°	932.4	930.7	926.3	922.7	921.0	921.0	921.0	920.1	921.9	924.5	931.6
25°	901.5	900.7	898.9	896.2	898.0	898.9	897.1	895.4	895.4	898.9	905.1
27.5°	873.3	871.5	868.9	866.2	864.5	865.3	866.2	868.0	870.6	871.5	876.8
30°	840.6	839.7	837.1	833.6	834.4	835.3	835.3	835.3	837.1	845.0	846.8
32.5°	808.8	807.9	805.3	801.8	802.6	803.5	802.6	803.5	805.3	808.8	816.8
35°	777.0	775.3	772.6	771.7	770.9	770.9	770.9	771.7	772.6	775.3	779.7
37.5°	740.8	739.1	737.3	734.7	736.4	738.2	739.1	738.2	739.1	742.6	744.4
40°	704.6	703.8	702.0	700.2	701.1	702.0	701.1	703.8	705.5	707.3	708.2
42.5°	670.2	668.4	666.7	665.8	665.8	666.7	666.7	668.4	668.4	672.8	672.0
45°	631.3	630.5	629.6	629.6	630.5	630.5	630.5	631.3	632.2	634.9	635.8
47.5°	593.4	592.5	592.5	592.5	592.5	593.4	594.3	596.9	595.1	596.0	596.9
50°	555.4	554.5	554.5	554.5	556.3	556.3	558.1	558.9	559.8	558.1	558.9
52.5°	516.6	515.7	517.4	517.4	519.2	519.2	521.9	519.2	521.0	520.1	520.1
55°	478.6	477.7	479.5	478.6	480.4	480.4	482.1	483.0	482.1	482.1	482.1
57.5°	439.7	438.9	439.7	440.6	441.5	441.5	444.1	444.1	441.5	443.3	442.4
60°	400.9	400.0	400.9	401.8	402.6	402.6	403.5	401.8	403.5	404.4	403.5
62.5°	362.0	361.1	362.9	362.0	362.9	363.8	363.8	366.4	365.6	365.6	364.7
65°	323.2	322.3	322.3	322.3	323.2	324.1	324.9	325.8	325.8	326.7	325.8
67.5°	283.4	282.6	283.4	282.6	283.4	284.3	286.1	287.0	287.0	287.9	287.0
70°	242.8	243.7	242.8	243.7	244.6	245.5	246.4	248.1	248.1	248.1	248.1
72.5°	203.1	202.2	202.2	201.3	203.1	204.0	204.9	207.5	207.5	208.4	208.4
75°	164.2	162.5	163.4	162.5	166.0	166.9	166.9	169.5	170.4	172.2	171.3
77.5°	126.3	126.3	124.5	127.2	128.0	129.8	131.6	133.3	134.2	136.9	136.9
80°	90.1	90.1	89.2	90.9	94.5	95.4	98.0	98.9	101.5	103.3	104.2
82.5°	57.4	57.4	57.4	60.0	62.7	63.6	66.2	68.9	70.6	73.3	74.2
85°	28.3	30.0	30.0	33.6	35.3	37.1	38.0	41.5	44.2	47.7	50.3
87.5°	8.8	9.7	10.6	12.4	15.9	16.8	18.5	22.1	24.7	28.3	30.9
90°	0.9	0.9	1.8	2.6	4.4	5.3	7.1	8.8	11.5	14.1	15.9
92.5°	6.2	6.2	7.1	7.1	7.1	7.1	7.1	7.9	8.8	10.6	11.5
95°	15.0	23.8	14.1	13.2	15.0	15.0	15.9	15.0	15.0	15.0	15.0
97.5°	24.7	44.2	29.1	20.3	19.4	20.3	20.3	22.1	23.0	23.8	23.8
100°	36.2	55.6	51.2	33.6	27.4	26.5	26.5	26.5	27.4	28.3	29.1
102.5°	47.7	63.6	73.3	52.1	38.9	35.3	33.6	32.7	31.8	32.7	32.7
105°	59.2	71.5	90.1	70.6	55.6	50.3	45.0	38.9	38.0	38.0	38.0
107.5°	69.8	79.5	102.4	91.8	72.4	67.1	60.9	51.2	45.0	44.2	43.3
110°	79.5	87.4	111.3	109.5	90.9	83.0	77.7	67.1	58.3	52.1	49.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	88.3	95.4	117.4	124.5	111.3	101.5	93.6	83.0	73.3	65.3	59.2
115°	97.1	103.3	122.7	136.9	128.9	121.0	112.1	98.9	89.2	81.2	74.2
117.5°	106.0	111.3	128.0	145.7	143.9	138.6	131.6	115.7	104.2	96.2	88.3
120°	113.9	119.2	133.3	151.9	157.2	152.8	148.3	134.2	120.1	111.3	104.2
122.5°	121.0	125.4	138.6	157.2	166.9	166.0	161.6	151.9	137.7	127.2	118.3
125°	128.0	132.4	143.9	160.7	174.0	176.6	174.8	166.9	156.3	143.9	133.3
127.5°	135.1	138.6	149.2	164.2	179.2	184.5	185.4	180.1	172.2	161.6	150.1
130°	141.3	144.8	153.6	166.9	182.8	189.0	192.5	191.6	185.4	178.4	166.9
132.5°	146.6	149.2	158.1	169.5	184.5	191.6	196.9	201.3	196.9	191.6	183.7
135°	151.9	154.5	161.6	172.2	185.4	192.5	199.6	206.6	207.5	203.1	196.9
137.5°	156.3	158.1	165.1	174.0	185.4	192.5	199.6	209.3	214.6	212.8	207.5
140°	160.7	162.5	167.8	176.6	186.3	192.5	198.7	210.2	217.2	219.9	217.2
142.5°	164.2	166.0	170.4	178.4	186.3	191.6	197.8	208.4	218.1	223.4	225.2
145°	167.8	168.7	173.1	179.2	186.3	190.7	196.0	206.6	216.3	224.3	229.6
147.5°	170.4	171.3	174.0	180.1	186.3	189.8	194.3	203.1	212.8	221.6	229.6
150°	173.1	173.1	175.7	180.1	186.3	189.0	192.5	200.4	208.4	217.2	224.3
152.5°	174.8	174.8	177.5	181.0	185.4	188.1	191.6	197.8	204.9	212.8	219.9
155°	176.6	176.6	178.4	181.0	185.4	187.2	189.8	195.1	201.3	207.5	213.7
157.5°	178.4	178.4	179.2	181.9	184.5	186.3	189.0	193.4	197.8	203.1	208.4
160°	179.2	179.2	180.1	181.9	183.7	185.4	187.2	190.7	195.1	198.7	203.1
162.5°	180.1	180.1	181.0	181.9	183.7	184.5	185.4	189.0	191.6	195.1	198.7
165°	181.0	181.0	181.0	181.9	182.8	183.7	184.5	186.3	189.0	191.6	194.3
167.5°	181.9	181.9	181.9	181.9	182.8	182.8	183.7	184.5	186.3	188.1	189.8
170°	182.8	181.9	181.9	182.8	181.9	181.9	182.8	183.7	183.7	185.4	186.3
172.5°	182.8	182.8	181.9	181.9	181.9	181.9	181.9	181.9	181.9	182.8	183.7
175°	182.8	182.8	181.9	181.9	181.9	181.0	181.0	181.0	181.0	181.0	181.0
177.5°	182.8	182.8	181.9	181.9	181.0	181.0	181.0	181.0	181.0	181.0	181.0
180°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7
2.5°	1050.8	1046.4	1044.6	1043.7	1042.8	1041.9	1040.2	1038.4	1036.6	1036.6
5°	1046.4	1041.9	1040.2	1039.3	1038.4	1037.5	1036.6	1036.6	1036.6	1036.6
7.5°	1039.3	1034.9	1033.1	1032.2	1032.2	1031.3	1031.3	1031.3	1030.5	1031.3
10°	1028.7	1024.3	1023.4	1022.5	1021.6	1019.9	1019.9	1019.9	1019.0	1019.9
12.5°	1015.4	1011.0	1010.2	1009.3	1008.4	1007.5	1007.5	1006.6	1006.6	1007.5
15°	1002.2	996.0	994.3	994.3	993.4	992.5	993.4	992.5	992.5	992.5
17.5°	982.8	980.1	977.5	975.7	974.8	973.9	973.9	973.1	973.1	973.1
20°	957.2	957.2	957.2	952.8	951.9	951.0	951.0	951.0	951.0	951.0
22.5°	932.4	928.0	931.6	928.9	927.2	925.4	926.3	926.3	926.3	926.3
25°	905.1	901.5	902.4	903.3	901.5	898.9	898.9	898.9	898.9	898.0
27.5°	875.9	873.3	872.4	873.3	875.1	873.3	870.6	868.0	868.9	868.9
30°	844.1	843.3	842.4	840.6	842.4	843.3	838.8	838.0	838.0	838.0
32.5°	812.4	811.5	808.8	807.1	807.9	809.7	807.9	806.2	806.2	806.2
35°	780.6	777.0	774.4	773.5	773.5	775.3	774.4	771.7	771.7	771.7
37.5°	743.5	744.4	740.0	739.1	739.1	739.1	740.8	736.4	737.3	736.4
40°	707.3	708.2	705.5	702.9	703.8	702.0	704.6	700.2	700.2	700.2
42.5°	671.1	669.3	670.2	664.9	665.8	665.8	666.7	664.0	663.1	662.2
45°	634.0	632.2	631.3	628.7	628.7	627.8	627.8	624.3	624.3	624.3
47.5°	595.1	594.3	592.5	590.7	590.7	589.8	588.1	587.2	586.3	586.3
50°	558.1	555.4	552.8	553.6	552.8	551.9	550.1	549.2	548.3	547.5
52.5°	518.3	518.3	514.8	514.8	514.8	513.9	512.1	510.4	510.4	509.5
55°	479.5	478.6	475.9	475.1	475.9	475.1	473.3	471.5	471.5	470.6
57.5°	440.6	438.9	438.0	438.0	437.1	437.1	434.4	432.7	433.6	432.7
60°	400.9	400.9	400.0	399.1	399.1	398.2	395.6	395.6	395.6	394.7
62.5°	362.9	362.9	361.1	360.3	361.1	360.3	359.4	358.5	357.6	356.7
65°	323.2	324.1	322.3	323.2	323.2	321.4	321.4	320.5	320.5	319.6
67.5°	286.1	286.1	285.2	285.2	286.1	285.2	285.2	284.3	284.3	283.4
70°	248.1	249.9	249.0	249.0	249.0	248.1	248.1	248.1	247.2	248.1
72.5°	210.2	210.2	210.2	210.2	210.2	211.0	211.0	211.0	211.0	210.2
75°	174.8	175.7	174.8	175.7	176.6	176.6	176.6	176.6	177.5	176.6
77.5°	140.4	141.3	141.3	143.0	143.0	143.0	143.9	143.9	143.9	143.9
80°	107.7	108.6	109.5	111.3	111.3	113.0	113.9	113.9	113.9	113.9
82.5°	77.7	80.4	81.2	83.9	84.8	84.8	86.5	87.4	87.4	87.4
85°	53.9	56.5	58.3	60.0	61.8	61.8	63.6	63.6	64.5	64.5
87.5°	33.6	36.2	38.0	40.6	41.5	42.4	43.3	44.2	45.0	45.0
90°	18.5	20.3	22.1	23.8	23.8	24.7	25.6	26.5	27.4	27.4
92.5°	13.2	14.1	15.9	16.8	16.8	17.7	18.5	18.5	19.4	19.4
95°	15.0	15.9	15.9	16.8	16.8	16.8	17.7	17.7	17.7	17.7
97.5°	23.0	23.0	23.0	22.1	22.1	22.1	22.1	22.1	22.1	22.1
100°	30.0	30.9	30.9	30.9	31.8	31.8	31.8	31.8	30.9	30.9
102.5°	33.6	34.4	35.3	36.2	36.2	36.2	37.1	37.1	37.1	37.1
105°	38.0	38.0	38.9	39.7	39.7	39.7	40.6	40.6	40.6	40.6
107.5°	43.3	43.3	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
110°	49.4	49.4	49.4	48.6	49.4	48.6	48.6	48.6	48.6	48.6



TEST NUMBER: P395080

CATALOG NUMBER: I3-WL-40L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	56.5	55.6	55.6	54.7	54.7	54.7	53.9	53.9	53.9	53.9
115°	68.0	63.6	61.8	60.0	60.0	60.0	59.2	59.2	59.2	59.2
117.5°	82.1	75.9	72.4	68.9	68.0	67.1	65.3	65.3	64.5	64.5
120°	97.1	90.9	85.7	81.2	79.5	78.6	75.9	74.2	72.4	72.4
122.5°	111.3	105.1	99.8	95.4	93.6	91.8	89.2	87.4	85.7	85.7
125°	125.4	119.2	113.9	109.5	106.8	105.1	102.4	100.7	98.9	98.9
127.5°	140.4	132.4	127.2	122.7	120.1	119.2	115.7	113.9	112.1	112.1
130°	157.2	147.5	140.4	135.1	133.3	131.6	128.9	127.2	125.4	125.4
132.5°	174.0	164.2	156.3	149.2	146.6	144.8	141.3	139.5	137.7	137.7
135°	189.8	181.0	173.1	166.0	163.4	160.7	157.2	153.6	151.9	151.9
137.5°	202.2	196.0	189.0	182.8	180.1	177.5	174.0	170.4	167.8	168.7
140°	212.8	207.5	203.1	198.7	196.0	194.3	190.7	188.1	185.4	185.4
142.5°	222.5	218.1	213.7	210.2	209.3	208.4	205.7	203.1	201.3	201.3
145°	231.3	228.7	225.2	220.8	219.9	219.0	216.3	214.6	213.7	213.7
147.5°	234.0	234.9	234.0	231.3	230.5	229.6	227.8	226.0	225.2	225.2
150°	232.2	235.8	237.5	237.5	237.5	237.5	237.5	235.8	234.9	234.9
152.5°	226.9	232.2	235.8	238.4	239.3	240.2	240.2	241.1	240.2	240.2
155°	220.8	226.0	231.3	234.0	235.8	236.6	238.4	239.3	240.2	239.3
157.5°	213.7	218.1	221.6	226.9	228.7	230.5	232.2	234.0	234.9	234.0
160°	207.5	211.0	213.7	217.2	218.1	219.9	221.6	222.5	224.3	223.4
162.5°	201.3	204.0	206.6	208.4	210.2	211.0	212.8	213.7	214.6	213.7
165°	196.9	198.7	199.6	201.3	202.2	203.1	204.0	204.9	204.9	204.9
167.5°	191.6	193.4	194.3	195.1	196.0	196.9	196.9	197.8	197.8	197.8
170°	187.2	188.1	189.0	189.8	189.8	190.7	190.7	190.7	191.6	190.7
172.5°	183.7	183.7	183.7	184.5	184.5	184.5	184.5	184.5	184.5	183.7
175°	181.9	181.9	181.0	181.0	181.0	181.0	181.0	180.1	179.2	178.4
177.5°	181.0	180.1	180.1	179.2	179.2	179.2	178.4	177.5	176.6	175.7
180°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1

(END OF REPORT)