

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: P393842

Luminaire Tested: **I3-WL-30L835-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-30L835-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
3000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2894.3 lumens
Efficiency: N/A
Efficacy: 125.3 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

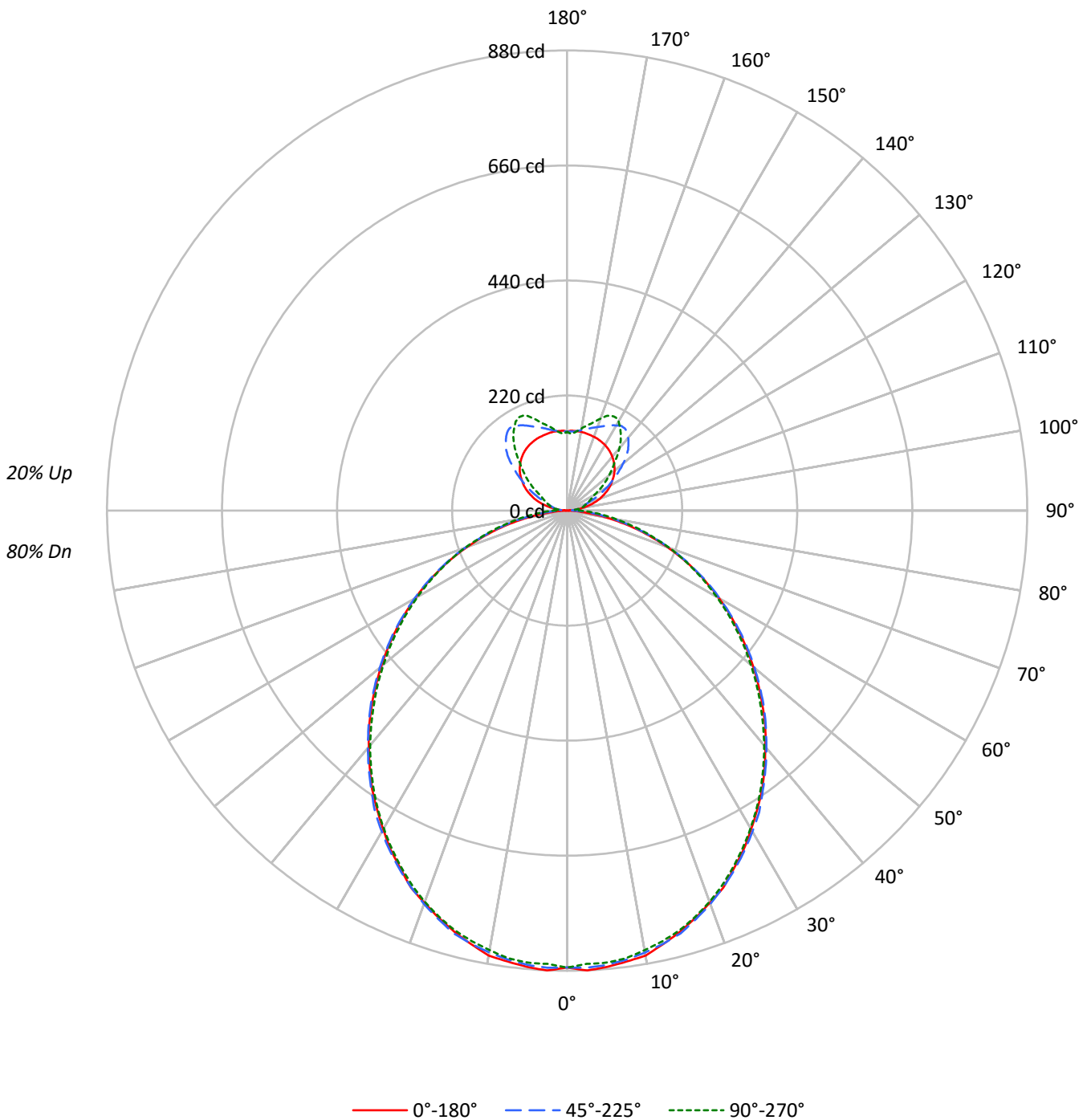
Input Watts (W): 23.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4802	4802	4802
5°	4814	4702	4652
10°	4786	4575	4500
15°	4691	4448	4340
20°	4598	4269	4152
25°	4487	4088	3946
30°	4359	3900	3733
35°	4238	3692	3514
40°	4086	3478	3286
45°	3940	3268	3046
50°	3783	3039	2804
55°	3619	2803	2557
60°	3436	2543	2303
65°	3224	2259	2030
70°	2925	1929	1742
75°	2520	1529	1399
80°	1923	1101	1044
85°	1006	658	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	2.9
10°-20°	234.1	8.1
20°-30°	346.6	12.0
30°-40°	405.1	14.0
40°-50°	407.0	14.1
50°-60°	357.7	12.4
60°-70°	268.0	9.3
70°-80°	152.4	5.3
80°-90°	48.1	1.7
90°-100°	17.4	0.6
100°-110°	42.3	1.5
110°-120°	70.2	2.4
120°-130°	98.5	3.4
130°-140°	113.6	3.9
140°-150°	108.4	3.7
150°-160°	81.6	2.8
160°-170°	46.1	1.6
170°-180°	14.6	0.5
0°-30°	663.3	22.9
0°-40°	1068.5	36.9
0°-60°	1833.1	63.3
0°-90°	2301.6	79.5
90°-120°	129.9	4.5
90°-150°	450.3	15.6
90°-180°	593.0	20.5
0°-180°	2894.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	874	874	874	874	874	
5°	876	867	872	869	868	83
15°	834	826	837	832	831	235
25°	755	752	758	755	752	348
35°	650	645	653	648	646	406
45°	528	528	532	526	522	408
55°	401	402	404	398	394	358
65°	270	271	273	270	268	267
75°	138	140	143	148	148	146
85°	24	31	42	52	54	31
90°	1	4	13	20	23	2
95°	13	13	13	14	15	14
105°	50	42	32	33	34	52
115°	81	101	62	50	50	80
125°	107	148	112	89	83	96
135°	127	161	165	137	127	98
145°	140	160	192	184	179	88
155°	148	157	179	197	200	68
165°	152	154	163	169	172	43
175°	153	152	152	152	149	15
180°	151	151	151	151	151	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	873.6	873.6	873.6	873.6	873.6	873.6	873.6	873.6	873.6	873.6	873.6
2.5°	880.3	878.8	875.1	871.4	870.7	869.9	869.9	869.2	869.2	870.7	875.1
5°	875.8	875.1	871.4	867.7	867.0	867.0	866.2	866.2	866.2	867.7	872.1
7.5°	869.9	868.4	864.8	861.1	860.3	860.3	860.3	859.6	860.3	861.1	866.2
10°	864.0	863.3	859.6	855.1	853.7	853.7	852.9	851.4	851.4	852.9	858.1
12.5°	849.2	848.5	844.8	841.8	841.8	842.6	842.6	843.3	843.3	844.8	848.5
15°	833.7	833.0	829.3	826.3	826.3	826.3	825.6	825.6	826.3	830.8	837.4
17.5°	816.7	816.0	813.0	810.1	810.1	810.1	809.3	809.3	810.1	812.3	818.9
20°	798.2	797.5	794.5	791.6	791.6	791.6	790.8	791.6	791.6	794.5	800.5
22.5°	780.5	779.0	775.3	772.4	770.9	770.9	770.9	770.1	771.6	773.8	779.8
25°	754.6	753.9	752.4	750.2	751.7	752.4	750.9	749.5	749.5	752.4	757.6
27.5°	731.0	729.5	727.3	725.1	723.6	724.3	725.1	726.5	728.8	729.5	733.9
30°	703.6	702.9	700.7	697.7	698.5	699.2	699.2	699.2	700.7	707.3	708.8
32.5°	677.0	676.3	674.1	671.1	671.8	672.6	671.8	672.6	674.1	677.0	683.7
35°	650.4	648.9	646.7	646.0	645.2	645.2	645.2	646.0	646.7	648.9	652.6
37.5°	620.1	618.6	617.2	614.9	616.4	617.9	618.6	617.9	618.6	621.6	623.1
40°	589.8	589.1	587.6	586.1	586.8	587.6	586.8	589.1	590.5	592.0	592.8
42.5°	561.0	559.5	558.0	557.3	557.3	558.0	558.0	559.5	559.5	563.2	562.5
45°	528.5	527.7	527.0	527.0	527.7	527.7	527.7	528.5	529.2	531.4	532.2
47.5°	496.7	495.9	495.9	495.9	495.9	496.7	497.4	499.6	498.2	498.9	499.6
50°	464.9	464.2	464.2	464.2	465.6	465.6	467.1	467.9	468.6	467.1	467.9
52.5°	432.4	431.6	433.1	433.1	434.6	434.6	436.8	434.6	436.1	435.3	435.3
55°	400.6	399.9	401.3	400.6	402.1	402.1	403.6	404.3	403.6	403.6	403.6
57.5°	368.1	367.3	368.1	368.8	369.6	369.6	371.8	371.8	369.6	371.0	370.3
60°	335.6	334.8	335.6	336.3	337.0	337.0	337.8	336.3	337.8	338.5	337.8
62.5°	303.0	302.3	303.8	303.0	303.8	304.5	304.5	306.7	306.0	306.0	305.3
65°	270.5	269.8	269.8	269.8	270.5	271.3	272.0	272.7	272.7	273.5	272.7
67.5°	237.3	236.5	237.3	236.5	237.3	238.0	239.5	240.2	240.2	240.9	240.2
70°	203.3	204.0	203.3	204.0	204.7	205.5	206.2	207.7	207.7	207.7	207.7
72.5°	170.0	169.3	169.3	168.5	170.0	170.7	171.5	173.7	173.7	174.4	174.4
75°	137.5	136.0	136.7	136.0	139.0	139.7	139.7	141.9	142.6	144.1	143.4
77.5°	105.7	105.7	104.2	106.4	107.2	108.6	110.1	111.6	112.3	114.6	114.6
80°	75.4	75.4	74.6	76.1	79.1	79.8	82.0	82.8	85.0	86.5	87.2
82.5°	48.0	48.0	48.0	50.3	52.5	53.2	55.4	57.7	59.1	61.3	62.1
85°	23.7	25.1	25.1	28.1	29.6	31.0	31.8	34.7	37.0	39.9	42.1
87.5°	7.4	8.1	8.9	10.3	13.3	14.0	15.5	18.5	20.7	23.7	25.9
90°	0.7	0.7	1.5	2.2	3.7	4.4	5.9	7.4	9.6	11.8	13.3
92.5°	5.2	5.2	5.9	5.9	5.9	5.9	5.9	6.7	7.4	8.9	9.6
95°	12.6	20.0	11.8	11.1	12.6	12.6	13.3	12.6	12.6	12.6	12.6
97.5°	20.7	37.0	24.4	17.0	16.3	17.0	17.0	18.5	19.2	20.0	20.0
100°	30.3	46.6	42.9	28.1	22.9	22.2	22.2	22.2	22.9	23.7	24.4
102.5°	39.9	53.2	61.3	43.6	32.5	29.6	28.1	27.3	26.6	27.3	27.3
105°	49.5	59.9	75.4	59.1	46.6	42.1	37.7	32.5	31.8	31.8	31.8
107.5°	58.4	66.5	85.7	76.9	60.6	56.2	51.0	42.9	37.7	37.0	36.2
110°	66.5	73.2	93.1	91.6	76.1	69.5	65.0	56.2	48.8	43.6	41.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	73.9	79.8	98.3	104.2	93.1	85.0	78.3	69.5	61.3	54.7	49.5
115°	81.3	86.5	102.7	114.6	107.9	101.3	93.9	82.8	74.6	68.0	62.1
117.5°	88.7	93.1	107.2	122.0	120.5	116.0	110.1	96.8	87.2	80.6	73.9
120°	95.3	99.8	111.6	127.1	131.6	127.9	124.2	112.3	100.5	93.1	87.2
122.5°	101.3	105.0	116.0	131.6	139.7	139.0	135.3	127.1	115.3	106.4	99.0
125°	107.2	110.9	120.5	134.5	145.6	147.8	146.3	139.7	130.8	120.5	111.6
127.5°	113.1	116.0	124.9	137.5	150.0	154.5	155.2	150.8	144.1	135.3	125.6
130°	118.3	121.2	128.6	139.7	153.0	158.2	161.1	160.4	155.2	149.3	139.7
132.5°	122.7	124.9	132.3	141.9	154.5	160.4	164.8	168.5	164.8	160.4	153.7
135°	127.1	129.3	135.3	144.1	155.2	161.1	167.0	173.0	173.7	170.0	164.8
137.5°	130.8	132.3	138.2	145.6	155.2	161.1	167.0	175.2	179.6	178.1	173.7
140°	134.5	136.0	140.4	147.8	156.0	161.1	166.3	175.9	181.8	184.0	181.8
142.5°	137.5	139.0	142.6	149.3	156.0	160.4	165.6	174.4	182.6	187.0	188.5
145°	140.4	141.2	144.9	150.0	156.0	159.6	164.1	173.0	181.1	187.7	192.2
147.5°	142.6	143.4	145.6	150.8	156.0	158.9	162.6	170.0	178.1	185.5	192.2
150°	144.9	144.9	147.1	150.8	156.0	158.2	161.1	167.8	174.4	181.8	187.7
152.5°	146.3	146.3	148.6	151.5	155.2	157.4	160.4	165.6	171.5	178.1	184.0
155°	147.8	147.8	149.3	151.5	155.2	156.7	158.9	163.3	168.5	173.7	178.9
157.5°	149.3	149.3	150.0	152.3	154.5	156.0	158.2	161.9	165.6	170.0	174.4
160°	150.0	150.0	150.8	152.3	153.7	155.2	156.7	159.6	163.3	166.3	170.0
162.5°	150.8	150.8	151.5	152.3	153.7	154.5	155.2	158.2	160.4	163.3	166.3
165°	151.5	151.5	151.5	152.3	153.0	153.7	154.5	156.0	158.2	160.4	162.6
167.5°	152.3	152.3	152.3	152.3	153.0	153.0	153.7	154.5	156.0	157.4	158.9
170°	153.0	152.3	152.3	153.0	152.3	152.3	153.0	153.7	153.7	155.2	156.0
172.5°	153.0	153.0	152.3	152.3	152.3	152.3	152.3	152.3	152.3	153.0	153.7
175°	153.0	153.0	152.3	152.3	152.3	151.5	151.5	151.5	151.5	151.5	151.5
177.5°	153.0	153.0	152.3	152.3	151.5	151.5	151.5	151.5	151.5	151.5	151.5
180°	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	873.6	873.6	873.6	873.6	873.6	873.6	873.6	873.6	873.6	873.6
2.5°	879.5	875.8	874.4	873.6	872.9	872.1	870.7	869.2	867.7	867.7
5°	875.8	872.1	870.7	869.9	869.2	868.4	867.7	867.7	867.7	867.7
7.5°	869.9	866.2	864.8	864.0	864.0	863.3	863.3	863.3	862.5	863.3
10°	861.1	857.4	856.6	855.9	855.1	853.7	853.7	853.7	852.9	853.7
12.5°	850.0	846.3	845.5	844.8	844.1	843.3	843.3	842.6	842.6	843.3
15°	838.9	833.7	832.2	832.2	831.5	830.8	831.5	830.8	830.8	830.8
17.5°	822.6	820.4	818.2	816.7	816.0	815.2	815.2	814.5	814.5	814.5
20°	801.2	801.2	801.2	797.5	796.8	796.0	796.0	796.0	796.0	796.0
22.5°	780.5	776.8	779.8	777.5	776.1	774.6	775.3	775.3	775.3	775.3
25°	757.6	754.6	755.4	756.1	754.6	752.4	752.4	752.4	752.4	751.7
27.5°	733.2	731.0	730.2	731.0	732.5	731.0	728.8	726.5	727.3	727.3
30°	706.6	705.8	705.1	703.6	705.1	705.8	702.2	701.4	701.4	701.4
32.5°	680.0	679.2	677.0	675.5	676.3	677.8	676.3	674.8	674.8	674.8
35°	653.4	650.4	648.2	647.5	647.5	648.9	648.2	646.0	646.0	646.0
37.5°	622.3	623.1	619.4	618.6	618.6	618.6	620.1	616.4	617.2	616.4
40°	592.0	592.8	590.5	588.3	589.1	587.6	589.8	586.1	586.1	586.1
42.5°	561.7	560.2	561.0	556.5	557.3	557.3	558.0	555.8	555.1	554.3
45°	530.7	529.2	528.5	526.2	526.2	525.5	525.5	522.5	522.5	522.5
47.5°	498.2	497.4	495.9	494.5	494.5	493.7	492.2	491.5	490.8	490.8
50°	467.1	464.9	462.7	463.4	462.7	461.9	460.5	459.7	459.0	458.2
52.5°	433.9	433.9	430.9	430.9	430.9	430.2	428.7	427.2	427.2	426.5
55°	401.3	400.6	398.4	397.6	398.4	397.6	396.2	394.7	394.7	393.9
57.5°	368.8	367.3	366.6	366.6	365.9	365.9	363.6	362.2	362.9	362.2
60°	335.6	335.6	334.8	334.1	334.1	333.3	331.1	331.1	331.1	330.4
62.5°	303.8	303.8	302.3	301.6	302.3	301.6	300.8	300.1	299.3	298.6
65°	270.5	271.3	269.8	270.5	270.5	269.0	269.0	268.3	268.3	267.6
67.5°	239.5	239.5	238.7	238.7	239.5	238.7	238.7	238.0	238.0	237.3
70°	207.7	209.2	208.4	208.4	208.4	207.7	207.7	207.7	206.9	207.7
72.5°	175.9	175.9	175.9	175.9	175.9	176.6	176.6	176.6	176.6	175.9
75°	146.3	147.1	146.3	147.1	147.8	147.8	147.8	147.8	148.6	147.8
77.5°	117.5	118.3	118.3	119.7	119.7	119.7	120.5	120.5	120.5	120.5
80°	90.2	90.9	91.6	93.1	93.1	94.6	95.3	95.3	95.3	95.3
82.5°	65.0	67.3	68.0	70.2	71.0	71.0	72.4	73.2	73.2	73.2
85°	45.1	47.3	48.8	50.3	51.7	51.7	53.2	53.2	54.0	54.0
87.5°	28.1	30.3	31.8	34.0	34.7	35.5	36.2	37.0	37.7	37.7
90°	15.5	17.0	18.5	20.0	20.0	20.7	21.4	22.2	22.9	22.9
92.5°	11.1	11.8	13.3	14.0	14.0	14.8	15.5	15.5	16.3	16.3
95°	12.6	13.3	13.3	14.0	14.0	14.0	14.8	14.8	14.8	14.8
97.5°	19.2	19.2	19.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5
100°	25.1	25.9	25.9	25.9	26.6	26.6	26.6	26.6	25.9	25.9
102.5°	28.1	28.8	29.6	30.3	30.3	30.3	31.0	31.0	31.0	31.0
105°	31.8	31.8	32.5	33.3	33.3	33.3	34.0	34.0	34.0	34.0
107.5°	36.2	36.2	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
110°	41.4	41.4	41.4	40.7	41.4	40.7	40.7	40.7	40.7	40.7



TEST NUMBER: P393842

CATALOG NUMBER: I3-WL-30L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	47.3	46.6	46.6	45.8	45.8	45.8	45.1	45.1	45.1	45.1
115°	56.9	53.2	51.7	50.3	50.3	50.3	49.5	49.5	49.5	49.5
117.5°	68.7	63.6	60.6	57.7	56.9	56.2	54.7	54.7	54.0	54.0
120°	81.3	76.1	71.7	68.0	66.5	65.8	63.6	62.1	60.6	60.6
122.5°	93.1	88.0	83.5	79.8	78.3	76.9	74.6	73.2	71.7	71.7
125°	105.0	99.8	95.3	91.6	89.4	88.0	85.7	84.3	82.8	82.8
127.5°	117.5	110.9	106.4	102.7	100.5	99.8	96.8	95.3	93.9	93.9
130°	131.6	123.4	117.5	113.1	111.6	110.1	107.9	106.4	105.0	105.0
132.5°	145.6	137.5	130.8	124.9	122.7	121.2	118.3	116.8	115.3	115.3
135°	158.9	151.5	144.9	139.0	136.7	134.5	131.6	128.6	127.1	127.1
137.5°	169.3	164.1	158.2	153.0	150.8	148.6	145.6	142.6	140.4	141.2
140°	178.1	173.7	170.0	166.3	164.1	162.6	159.6	157.4	155.2	155.2
142.5°	186.3	182.6	178.9	175.9	175.2	174.4	172.2	170.0	168.5	168.5
145°	193.6	191.4	188.5	184.8	184.0	183.3	181.1	179.6	178.9	178.9
147.5°	195.9	196.6	195.9	193.6	192.9	192.2	190.7	189.2	188.5	188.5
150°	194.4	197.3	198.8	198.8	198.8	198.8	198.8	197.3	196.6	196.6
152.5°	190.0	194.4	197.3	199.6	200.3	201.0	201.0	201.8	201.0	201.0
155°	184.8	189.2	193.6	195.9	197.3	198.1	199.6	200.3	201.0	200.3
157.5°	178.9	182.6	185.5	190.0	191.4	192.9	194.4	195.9	196.6	195.9
160°	173.7	176.6	178.9	181.8	182.6	184.0	185.5	186.3	187.7	187.0
162.5°	168.5	170.7	173.0	174.4	175.9	176.6	178.1	178.9	179.6	178.9
165°	164.8	166.3	167.0	168.5	169.3	170.0	170.7	171.5	171.5	171.5
167.5°	160.4	161.9	162.6	163.3	164.1	164.8	164.8	165.6	165.6	165.6
170°	156.7	157.4	158.2	158.9	158.9	159.6	159.6	159.6	160.4	159.6
172.5°	153.7	153.7	153.7	154.5	154.5	154.5	154.5	154.5	154.5	153.7
175°	152.3	152.3	151.5	151.5	151.5	151.5	151.5	150.8	150.0	149.3
177.5°	151.5	150.8	150.8	150.0	150.0	150.0	149.3	148.6	147.8	147.1
180°	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.8

(END OF REPORT)