

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: P393841

Luminaire Tested: **I3-WL-30L830-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393841
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-30L830-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
3000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

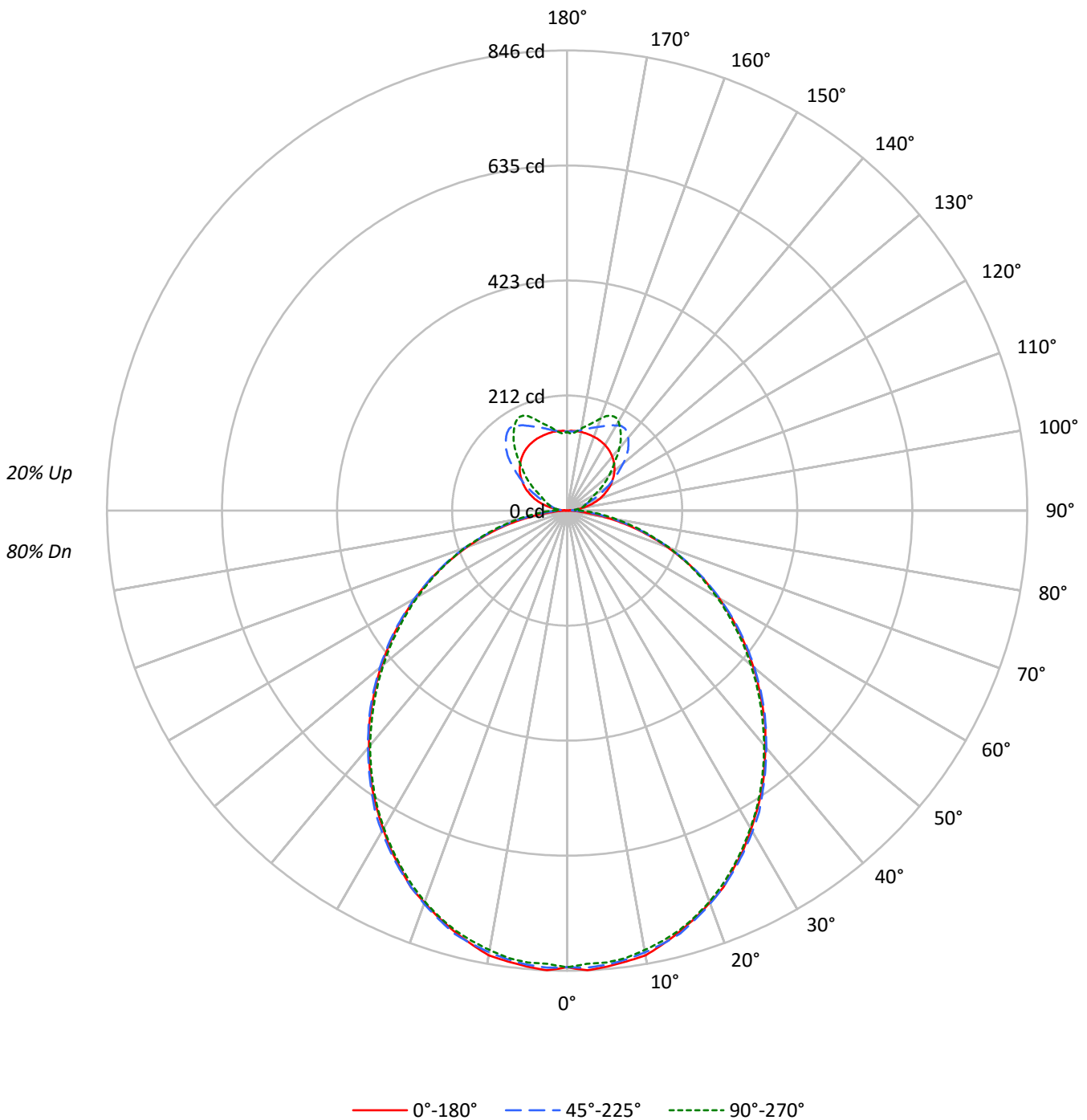
Lumens per Lamp: N/A
Luminaire Lumens: 2781.4 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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



TEST NUMBER: P393841
CATALOG NUMBER: I3-WL-30L830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P393841

CATALOG NUMBER: I3-WL-30L830-1D-UNV-STD-W-4

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°	4615	4615	4615
5°	4627	4519	4471
10°	4600	4396	4325
15°	4508	4275	4171
20°	4419	4102	3991
25°	4313	3928	3792
30°	4189	3748	3588
35°	4072	3548	3377
40°	3927	3342	3158
45°	3787	3140	2928
50°	3636	2920	2695
55°	3478	2694	2458
60°	3302	2443	2213
65°	3099	2171	1950
70°	2810	1854	1674
75°	2421	1469	1345
80°	1846	1058	1003
85°	963	633	680



TEST NUMBER: P393841

CATALOG NUMBER: I3-WL-30L830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	2.9
10°-20°	225.0	8.1
20°-30°	333.1	12.0
30°-40°	389.3	14.0
40°-50°	391.1	14.1
50°-60°	343.7	12.4
60°-70°	257.5	9.3
70°-80°	146.5	5.3
80°-90°	46.2	1.7
90°-100°	16.7	0.6
100°-110°	40.6	1.5
110°-120°	67.5	2.4
120°-130°	94.7	3.4
130°-140°	109.1	3.9
140°-150°	104.2	3.7
150°-160°	78.4	2.8
160°-170°	44.3	1.6
170°-180°	14.0	0.5
0°-30°	637.4	22.9
0°-40°	1026.8	36.9
0°-60°	1761.6	63.3
0°-90°	2211.9	79.5
90°-120°	124.8	4.5
90°-150°	432.8	15.6
90°-180°	570.0	20.5
0°-180°	2781.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	842	833	838	835	834	80
15°	801	794	805	799	798	226
25°	725	723	728	725	722	334
35°	625	620	627	622	621	390
45°	508	507	511	506	502	392
55°	385	386	388	383	379	344
65°	260	261	262	260	257	257
75°	132	134	138	142	142	140
85°	23	30	40	50	52	30
90°	1	4	13	19	22	2
95°	12	12	12	14	14	13
105°	48	40	30	32	33	50
115°	78	97	60	48	48	77
125°	103	142	107	86	80	92
135°	122	155	158	131	122	94
145°	135	153	185	177	172	84
155°	142	151	172	190	192	66
165°	146	148	156	163	165	41
175°	147	146	146	146	144	14
180°	145	145	145	145	145	



TEST NUMBER: P393841

CATALOG NUMBER: I3-WL-30L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6
2.5°	845.9	844.5	841.0	837.4	836.7	836.0	836.0	835.3	835.3	836.7	841.0
5°	841.7	841.0	837.4	833.9	833.2	833.2	832.4	832.4	832.4	833.9	838.1
7.5°	836.0	834.6	831.0	827.5	826.8	826.8	826.8	826.1	826.8	827.5	832.4
10°	830.3	829.6	826.1	821.8	820.4	820.4	819.7	818.2	818.2	819.7	824.6
12.5°	816.1	815.4	811.9	809.0	809.0	809.7	809.7	810.4	810.4	811.9	815.4
15°	801.2	800.5	796.9	794.1	794.1	794.1	793.4	793.4	794.1	798.4	804.7
17.5°	784.9	784.1	781.3	778.5	778.5	778.5	777.8	777.8	778.5	780.6	787.0
20°	767.1	766.4	763.6	760.7	760.7	760.7	760.0	760.7	760.7	763.6	769.2
22.5°	750.1	748.6	745.1	742.2	740.8	740.8	740.8	740.1	741.5	743.7	749.3
25°	725.2	724.5	723.1	720.9	722.4	723.1	721.6	720.2	720.2	723.1	728.0
27.5°	702.5	701.0	698.9	696.8	695.4	696.1	696.8	698.2	700.3	701.0	705.3
30°	676.2	675.5	673.3	670.5	671.2	671.9	671.9	671.9	673.3	679.7	681.2
32.5°	650.6	649.9	647.8	644.9	645.6	646.4	645.6	646.4	647.8	650.6	657.0
35°	625.0	623.6	621.5	620.8	620.1	620.1	620.1	620.8	621.5	623.6	627.2
37.5°	595.9	594.5	593.1	591.0	592.4	593.8	594.5	593.8	594.5	597.3	598.8
40°	566.8	566.1	564.7	563.3	564.0	564.7	564.0	566.1	567.5	568.9	569.6
42.5°	539.1	537.7	536.3	535.6	535.6	536.3	536.3	537.7	537.7	541.2	540.5
45°	507.9	507.1	506.4	506.4	507.1	507.1	507.1	507.9	508.6	510.7	511.4
47.5°	477.3	476.6	476.6	476.6	476.6	477.3	478.0	480.1	478.7	479.4	480.1
50°	446.8	446.1	446.1	446.1	447.5	447.5	448.9	449.6	450.3	448.9	449.6
52.5°	415.5	414.8	416.2	416.2	417.6	417.6	419.8	417.6	419.1	418.4	418.4
55°	385.0	384.3	385.7	385.0	386.4	386.4	387.8	388.5	387.8	387.8	387.8
57.5°	353.7	353.0	353.7	354.4	355.1	355.1	357.3	357.3	355.1	356.6	355.9
60°	322.5	321.8	322.5	323.2	323.9	323.9	324.6	323.2	324.6	325.3	324.6
62.5°	291.2	290.5	291.9	291.2	291.9	292.6	292.6	294.8	294.1	294.1	293.3
65°	260.0	259.3	259.3	259.3	260.0	260.7	261.4	262.1	262.1	262.8	262.1
67.5°	228.0	227.3	228.0	227.3	228.0	228.7	230.1	230.8	230.8	231.6	230.8
70°	195.3	196.0	195.3	196.0	196.7	197.5	198.2	199.6	199.6	199.6	199.6
72.5°	163.4	162.7	162.7	161.9	163.4	164.1	164.8	166.9	166.9	167.6	167.6
75°	132.1	130.7	131.4	130.7	133.5	134.2	134.2	136.4	137.1	138.5	137.8
77.5°	101.6	101.6	100.1	102.3	103.0	104.4	105.8	107.3	108.0	110.1	110.1
80°	72.4	72.4	71.7	73.2	76.0	76.7	78.8	79.6	81.7	83.1	83.8
82.5°	46.2	46.2	46.2	48.3	50.4	51.1	53.3	55.4	56.8	59.0	59.7
85°	22.7	24.1	24.1	27.0	28.4	29.8	30.5	33.4	35.5	38.4	40.5
87.5°	7.1	7.8	8.5	9.9	12.8	13.5	14.9	17.8	19.9	22.7	24.9
90°	0.7	0.7	1.4	2.1	3.6	4.3	5.7	7.1	9.2	11.4	12.8
92.5°	5.0	5.0	5.7	5.7	5.7	5.7	5.7	6.4	7.1	8.5	9.2
95°	12.1	19.2	11.4	10.7	12.1	12.1	12.8	12.1	12.1	12.1	12.1
97.5°	19.9	35.5	23.4	16.3	15.6	16.3	16.3	17.8	18.5	19.2	19.2
100°	29.1	44.7	41.2	27.0	22.0	21.3	21.3	21.3	22.0	22.7	23.4
102.5°	38.4	51.1	59.0	41.9	31.3	28.4	27.0	26.3	25.6	26.3	26.3
105°	47.6	57.5	72.4	56.8	44.7	40.5	36.2	31.3	30.5	30.5	30.5
107.5°	56.1	63.9	82.4	73.9	58.2	54.0	49.0	41.2	36.2	35.5	34.8
110°	63.9	70.3	89.5	88.1	73.2	66.8	62.5	54.0	46.9	41.9	39.8



TEST NUMBER: P393841

CATALOG NUMBER: I3-WL-30L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	71.0	76.7	94.5	100.1	89.5	81.7	75.3	66.8	59.0	52.6	47.6
115°	78.1	83.1	98.7	110.1	103.7	97.3	90.2	79.6	71.7	65.3	59.7
117.5°	85.2	89.5	103.0	117.2	115.8	111.5	105.8	93.0	83.8	77.4	71.0
120°	91.6	95.9	107.3	122.2	126.4	122.9	119.3	108.0	96.6	89.5	83.8
122.5°	97.3	100.9	111.5	126.4	134.2	133.5	130.0	122.2	110.8	102.3	95.2
125°	103.0	106.5	115.8	129.3	139.9	142.1	140.6	134.2	125.7	115.8	107.3
127.5°	108.7	111.5	120.0	132.1	144.2	148.4	149.2	144.9	138.5	130.0	120.7
130°	113.6	116.5	123.6	134.2	147.0	152.0	154.8	154.1	149.2	143.5	134.2
132.5°	117.9	120.0	127.1	136.4	148.4	154.1	158.4	161.9	158.4	154.1	147.7
135°	122.2	124.3	130.0	138.5	149.2	154.8	160.5	166.2	166.9	163.4	158.4
137.5°	125.7	127.1	132.8	139.9	149.2	154.8	160.5	168.3	172.6	171.2	166.9
140°	129.3	130.7	135.0	142.1	149.9	154.8	159.8	169.0	174.7	176.9	174.7
142.5°	132.1	133.5	137.1	143.5	149.9	154.1	159.1	167.6	175.4	179.7	181.1
145°	135.0	135.7	139.2	144.2	149.9	153.4	157.7	166.2	174.0	180.4	184.7
147.5°	137.1	137.8	139.9	144.9	149.9	152.7	156.3	163.4	171.2	178.3	184.7
150°	139.2	139.2	141.3	144.9	149.9	152.0	154.8	161.2	167.6	174.7	180.4
152.5°	140.6	140.6	142.8	145.6	149.2	151.3	154.1	159.1	164.8	171.2	176.9
155°	142.1	142.1	143.5	145.6	149.2	150.6	152.7	157.0	161.9	166.9	171.9
157.5°	143.5	143.5	144.2	146.3	148.4	149.9	152.0	155.6	159.1	163.4	167.6
160°	144.2	144.2	144.9	146.3	147.7	149.2	150.6	153.4	157.0	159.8	163.4
162.5°	144.9	144.9	145.6	146.3	147.7	148.4	149.2	152.0	154.1	157.0	159.8
165°	145.6	145.6	145.6	146.3	147.0	147.7	148.4	149.9	152.0	154.1	156.3
167.5°	146.3	146.3	146.3	146.3	147.0	147.0	147.7	148.4	149.9	151.3	152.7
170°	147.0	146.3	146.3	147.0	146.3	146.3	147.0	147.7	147.7	149.2	149.9
172.5°	147.0	147.0	146.3	146.3	146.3	146.3	146.3	146.3	146.3	147.0	147.7
175°	147.0	147.0	146.3	146.3	146.3	145.6	145.6	145.6	145.6	145.6	145.6
177.5°	147.0	147.0	146.3	146.3	145.6	145.6	145.6	145.6	145.6	145.6	145.6
180°	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9



TEST NUMBER: P393841

CATALOG NUMBER: I3-WL-30L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6
2.5°	845.2	841.7	840.3	839.6	838.8	838.1	836.7	835.3	833.9	833.9
5°	841.7	838.1	836.7	836.0	835.3	834.6	833.9	833.9	833.9	833.9
7.5°	836.0	832.4	831.0	830.3	830.3	829.6	829.6	829.6	828.9	829.6
10°	827.5	823.9	823.2	822.5	821.8	820.4	820.4	820.4	819.7	820.4
12.5°	816.8	813.3	812.6	811.9	811.1	810.4	810.4	809.7	809.7	810.4
15°	806.2	801.2	799.8	799.8	799.1	798.4	799.1	798.4	798.4	798.4
17.5°	790.5	788.4	786.3	784.9	784.1	783.4	783.4	782.7	782.7	782.7
20°	769.9	769.9	769.9	766.4	765.7	765.0	765.0	765.0	765.0	765.0
22.5°	750.1	746.5	749.3	747.2	745.8	744.4	745.1	745.1	745.1	745.1
25°	728.0	725.2	725.9	726.6	725.2	723.1	723.1	723.1	723.1	722.4
27.5°	704.6	702.5	701.8	702.5	703.9	702.5	700.3	698.2	698.9	698.9
30°	679.0	678.3	677.6	676.2	677.6	678.3	674.8	674.1	674.1	674.1
32.5°	653.5	652.7	650.6	649.2	649.9	651.3	649.9	648.5	648.5	648.5
35°	627.9	625.0	622.9	622.2	622.2	623.6	622.9	620.8	620.8	620.8
37.5°	598.1	598.8	595.2	594.5	594.5	594.5	595.9	592.4	593.1	592.4
40°	568.9	569.6	567.5	565.4	566.1	564.7	566.8	563.3	563.3	563.3
42.5°	539.8	538.4	539.1	534.8	535.6	535.6	536.3	534.1	533.4	532.7
45°	510.0	508.6	507.9	505.7	505.7	505.0	505.0	502.2	502.2	502.2
47.5°	478.7	478.0	476.6	475.2	475.2	474.5	473.0	472.3	471.6	471.6
50°	448.9	446.8	444.6	445.3	444.6	443.9	442.5	441.8	441.1	440.4
52.5°	416.9	416.9	414.1	414.1	414.1	413.4	412.0	410.5	410.5	409.8
55°	385.7	385.0	382.8	382.1	382.8	382.1	380.7	379.3	379.3	378.6
57.5°	354.4	353.0	352.3	352.3	351.6	351.6	349.5	348.0	348.7	348.0
60°	322.5	322.5	321.8	321.0	321.0	320.3	318.2	318.2	318.2	317.5
62.5°	291.9	291.9	290.5	289.8	290.5	289.8	289.1	288.4	287.7	287.0
65°	260.0	260.7	259.3	260.0	260.0	258.5	258.5	257.8	257.8	257.1
67.5°	230.1	230.1	229.4	229.4	230.1	229.4	229.4	228.7	228.7	228.0
70°	199.6	201.0	200.3	200.3	200.3	199.6	199.6	199.6	198.9	199.6
72.5°	169.0	169.0	169.0	169.0	169.0	169.8	169.8	169.8	169.8	169.0
75°	140.6	141.3	140.6	141.3	142.1	142.1	142.1	142.1	142.8	142.1
77.5°	112.9	113.6	113.6	115.1	115.1	115.1	115.8	115.8	115.8	115.8
80°	86.7	87.4	88.1	89.5	89.5	90.9	91.6	91.6	91.6	91.6
82.5°	62.5	64.6	65.3	67.5	68.2	68.2	69.6	70.3	70.3	70.3
85°	43.3	45.5	46.9	48.3	49.7	49.7	51.1	51.1	51.9	51.9
87.5°	27.0	29.1	30.5	32.7	33.4	34.1	34.8	35.5	36.2	36.2
90°	14.9	16.3	17.8	19.2	19.2	19.9	20.6	21.3	22.0	22.0
92.5°	10.7	11.4	12.8	13.5	13.5	14.2	14.9	14.9	15.6	15.6
95°	12.1	12.8	12.8	13.5	13.5	13.5	14.2	14.2	14.2	14.2
97.5°	18.5	18.5	18.5	17.8	17.8	17.8	17.8	17.8	17.8	17.8
100°	24.1	24.9	24.9	24.9	25.6	25.6	25.6	25.6	24.9	24.9
102.5°	27.0	27.7	28.4	29.1	29.1	29.1	29.8	29.8	29.8	29.8
105°	30.5	30.5	31.3	32.0	32.0	32.0	32.7	32.7	32.7	32.7
107.5°	34.8	34.8	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
110°	39.8	39.8	39.8	39.1	39.8	39.1	39.1	39.1	39.1	39.1



TEST NUMBER: P393841

CATALOG NUMBER: I3-WL-30L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	45.5	44.7	44.7	44.0	44.0	44.0	43.3	43.3	43.3	43.3
115°	54.7	51.1	49.7	48.3	48.3	48.3	47.6	47.6	47.6	47.6
117.5°	66.1	61.1	58.2	55.4	54.7	54.0	52.6	52.6	51.9	51.9
120°	78.1	73.2	68.9	65.3	63.9	63.2	61.1	59.7	58.2	58.2
122.5°	89.5	84.5	80.3	76.7	75.3	73.9	71.7	70.3	68.9	68.9
125°	100.9	95.9	91.6	88.1	85.9	84.5	82.4	81.0	79.6	79.6
127.5°	112.9	106.5	102.3	98.7	96.6	95.9	93.0	91.6	90.2	90.2
130°	126.4	118.6	112.9	108.7	107.3	105.8	103.7	102.3	100.9	100.9
132.5°	139.9	132.1	125.7	120.0	117.9	116.5	113.6	112.2	110.8	110.8
135°	152.7	145.6	139.2	133.5	131.4	129.3	126.4	123.6	122.2	122.2
137.5°	162.7	157.7	152.0	147.0	144.9	142.8	139.9	137.1	135.0	135.7
140°	171.2	166.9	163.4	159.8	157.7	156.3	153.4	151.3	149.2	149.2
142.5°	179.0	175.4	171.9	169.0	168.3	167.6	165.5	163.4	161.9	161.9
145°	186.1	184.0	181.1	177.6	176.9	176.1	174.0	172.6	171.9	171.9
147.5°	188.2	188.9	188.2	186.1	185.4	184.7	183.3	181.8	181.1	181.1
150°	186.8	189.6	191.1	191.1	191.1	191.1	191.1	189.6	188.9	188.9
152.5°	182.5	186.8	189.6	191.8	192.5	193.2	193.2	193.9	193.2	193.2
155°	177.6	181.8	186.1	188.2	189.6	190.4	191.8	192.5	193.2	192.5
157.5°	171.9	175.4	178.3	182.5	184.0	185.4	186.8	188.2	188.9	188.2
160°	166.9	169.8	171.9	174.7	175.4	176.9	178.3	179.0	180.4	179.7
162.5°	161.9	164.1	166.2	167.6	169.0	169.8	171.2	171.9	172.6	171.9
165°	158.4	159.8	160.5	161.9	162.7	163.4	164.1	164.8	164.8	164.8
167.5°	154.1	155.6	156.3	157.0	157.7	158.4	158.4	159.1	159.1	159.1
170°	150.6	151.3	152.0	152.7	152.7	153.4	153.4	153.4	154.1	153.4
172.5°	147.7	147.7	147.7	148.4	148.4	148.4	148.4	148.4	148.4	147.7
175°	146.3	146.3	145.6	145.6	145.6	145.6	145.6	144.9	144.2	143.5
177.5°	145.6	144.9	144.9	144.2	144.2	144.2	143.5	142.8	142.1	141.3
180°	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9

(END OF REPORT)