

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: P395830

Luminaire Tested: **I3-WL-30L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395830  
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-30L82765-1D-UNV-W2A-W-4 (3500K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2791.7 lumens  
Efficiency: N/A  
Efficacy: 107.8 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

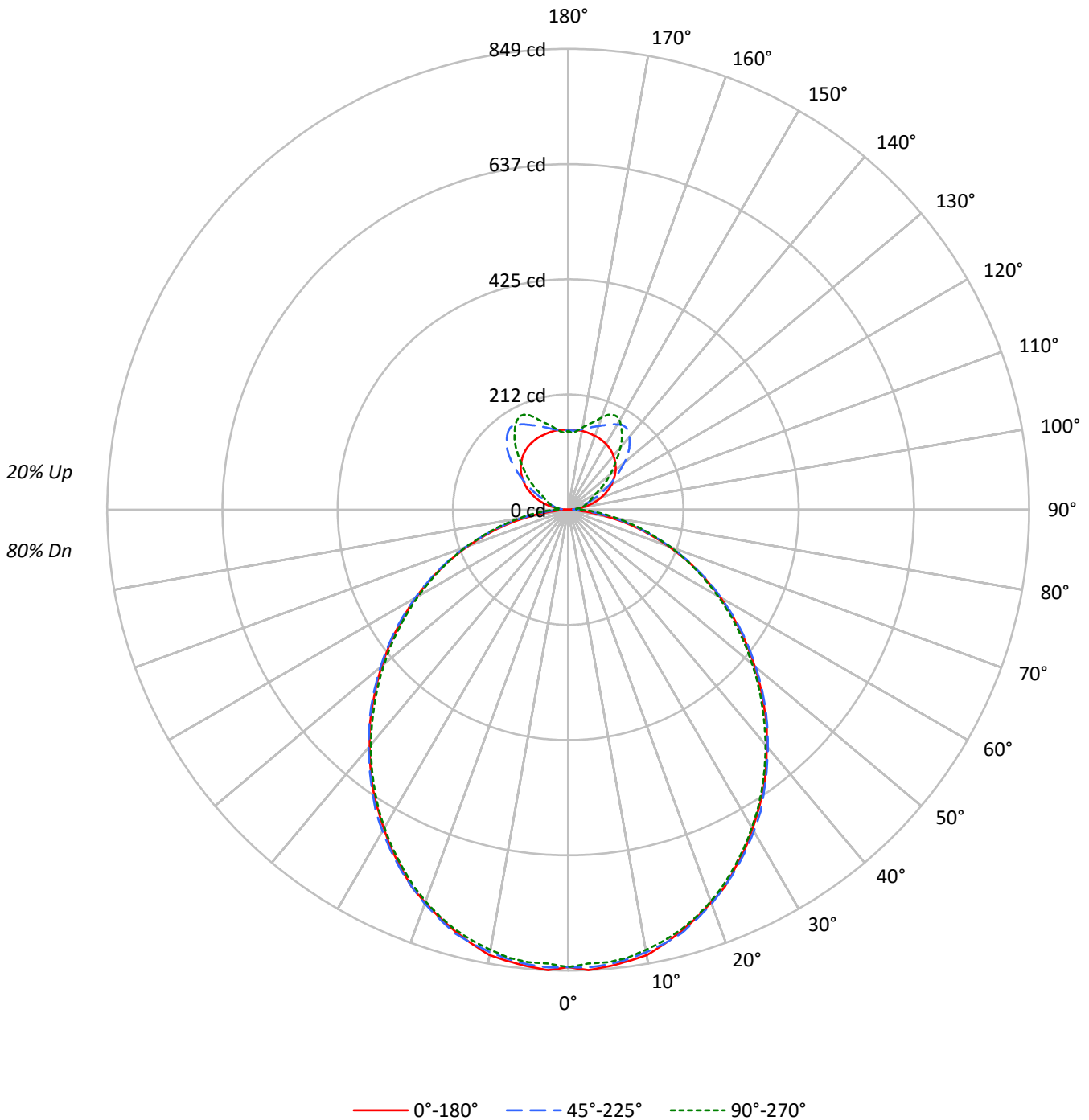
Input Watts (W): 25.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
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	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°	4632	4632	4632
5°	4644	4536	4487
10°	4617	4413	4340
15°	4525	4291	4186
20°	4435	4118	4005
25°	4329	3943	3805
30°	4204	3762	3601
35°	4088	3561	3390
40°	3941	3355	3170
45°	3800	3152	2938
50°	3649	2931	2705
55°	3491	2704	2467
60°	3314	2452	2221
65°	3109	2180	1957
70°	2822	1860	1680
75°	2430	1474	1350
80°	1854	1062	1007
85°	967	634	682



TEST NUMBER: P395830

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	2.9
10°-20°	225.8	8.1
20°-30°	334.4	12.0
30°-40°	390.8	14.0
40°-50°	392.6	14.1
50°-60°	345.0	12.4
60°-70°	258.5	9.3
70°-80°	147.0	5.3
80°-90°	46.4	1.7
90°-100°	16.7	0.6
100°-110°	40.8	1.5
110°-120°	67.7	2.4
120°-130°	95.0	3.4
130°-140°	109.5	3.9
140°-150°	104.6	3.7
150°-160°	78.7	2.8
160°-170°	44.5	1.6
170°-180°	14.1	0.5
0°-30°	639.8	22.9
0°-40°	1030.6	36.9
0°-60°	1768.2	63.3
0°-90°	2220.1	79.5
90°-120°	125.2	4.5
90°-150°	434.4	15.6
90°-180°	572.0	20.5
0°-180°	2791.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	845	836	841	838	837	80
15°	804	797	808	802	801	227
25°	728	726	731	728	725	335
35°	627	622	630	624	623	392
45°	510	509	513	508	504	393
55°	386	388	389	384	380	345
65°	261	262	263	261	258	258
75°	133	135	138	143	143	140
85°	23	30	41	50	52	30
90°	1	4	13	19	22	2
95°	12	12	12	14	14	13
105°	48	41	31	32	33	50
115°	78	98	60	48	48	78
125°	103	143	108	86	80	92
135°	123	155	159	132	123	95
145°	136	154	185	178	172	85
155°	143	151	172	190	193	66
165°	146	148	157	163	165	41
175°	148	146	146	146	144	14
180°	145	145	145	145	145	



TEST NUMBER: P395830

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7
2.5°	849.1	847.7	844.1	840.5	839.8	839.1	839.1	838.4	838.4	839.8	844.1
5°	844.8	844.1	840.5	837.0	836.3	836.3	835.5	835.5	835.5	837.0	841.3
7.5°	839.1	837.7	834.1	830.6	829.8	829.8	829.8	829.1	829.8	830.6	835.5
10°	833.4	832.7	829.1	824.9	823.4	823.4	822.7	821.3	821.3	822.7	827.7
12.5°	819.2	818.4	814.9	812.0	812.0	812.7	812.7	813.4	813.4	814.9	818.4
15°	804.2	803.5	799.9	797.0	797.0	797.0	796.3	796.3	797.0	801.3	807.7
17.5°	787.8	787.1	784.2	781.4	781.4	781.4	780.7	780.7	781.4	783.5	789.9
20°	770.0	769.2	766.4	763.5	763.5	763.5	762.8	763.5	763.5	766.4	772.1
22.5°	752.8	751.4	747.9	745.0	743.6	743.6	743.6	742.9	744.3	746.4	752.1
25°	727.9	727.2	725.8	723.6	725.0	725.8	724.3	722.9	722.9	725.8	730.7
27.5°	705.1	703.7	701.5	699.4	698.0	698.7	699.4	700.8	702.9	703.7	707.9
30°	678.7	678.0	675.9	673.0	673.7	674.4	674.4	674.4	675.9	682.3	683.7
32.5°	653.0	652.3	650.2	647.3	648.0	648.8	648.0	648.8	650.2	653.0	659.5
35°	627.4	625.9	623.8	623.1	622.4	622.4	622.4	623.1	623.8	625.9	629.5
37.5°	598.1	596.7	595.3	593.2	594.6	596.0	596.7	596.0	596.7	599.6	601.0
40°	568.9	568.2	566.8	565.3	566.1	566.8	566.1	568.2	569.6	571.1	571.8
42.5°	541.1	539.7	538.3	537.5	537.5	538.3	538.3	539.7	539.7	543.2	542.5
45°	509.7	509.0	508.3	508.3	509.0	509.0	509.0	509.7	510.5	512.6	513.3
47.5°	479.1	478.4	478.4	478.4	478.4	479.1	479.8	481.9	480.5	481.2	481.9
50°	448.4	447.7	447.7	447.7	449.1	449.1	450.6	451.3	452.0	450.6	451.3
52.5°	417.1	416.3	417.8	417.8	419.2	419.2	421.3	419.2	420.6	419.9	419.9
55°	386.4	385.7	387.1	386.4	387.8	387.8	389.3	390.0	389.3	389.3	389.3
57.5°	355.0	354.3	355.0	355.7	356.5	356.5	358.6	358.6	356.5	357.9	357.2
60°	323.7	323.0	323.7	324.4	325.1	325.1	325.8	324.4	325.8	326.5	325.8
62.5°	292.3	291.6	293.0	292.3	293.0	293.7	293.7	295.9	295.2	295.2	294.4
65°	260.9	260.2	260.2	260.2	260.9	261.6	262.4	263.1	263.1	263.8	263.1
67.5°	228.8	228.1	228.8	228.1	228.8	229.6	231.0	231.7	231.7	232.4	231.7
70°	196.1	196.8	196.1	196.8	197.5	198.2	198.9	200.3	200.3	200.3	200.3
72.5°	164.0	163.3	163.3	162.5	164.0	164.7	165.4	167.5	167.5	168.3	168.3
75°	132.6	131.2	131.9	131.2	134.0	134.7	134.7	136.9	137.6	139.0	138.3
77.5°	101.9	101.9	100.5	102.7	103.4	104.8	106.2	107.7	108.4	110.5	110.5
80°	72.7	72.7	72.0	73.4	76.3	77.0	79.1	79.8	82.0	83.4	84.1
82.5°	46.3	46.3	46.3	48.5	50.6	51.3	53.5	55.6	57.0	59.2	59.9
85°	22.8	24.2	24.2	27.1	28.5	29.9	30.7	33.5	35.6	38.5	40.6
87.5°	7.1	7.8	8.6	10.0	12.8	13.5	15.0	17.8	20.0	22.8	25.0
90°	0.7	0.7	1.4	2.1	3.6	4.3	5.7	7.1	9.3	11.4	12.8
92.5°	5.0	5.0	5.7	5.7	5.7	5.7	5.7	6.4	7.1	8.6	9.3
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°	20.0	35.6	23.5	16.4	15.7	16.4	16.4	17.8	18.5	19.2	19.2
100°	29.2	44.9	41.3	27.1	22.1	21.4	21.4	21.4	22.1	22.8	23.5
102.5°	38.5	51.3	59.2	42.1	31.4	28.5	27.1	26.4	25.7	26.4	26.4
105°	47.8	57.7	72.7	57.0	44.9	40.6	36.4	31.4	30.7	30.7	30.7
107.5°	56.3	64.2	82.7	74.1	58.5	54.2	49.2	41.3	36.4	35.6	34.9
110°	64.2	70.6	89.8	88.4	73.4	67.0	62.7	54.2	47.1	42.1	39.9



TEST NUMBER: P395830

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	71.3	77.0	94.8	100.5	89.8	82.0	75.6	67.0	59.2	52.8	47.8
115°	78.4	83.4	99.1	110.5	104.1	97.7	90.5	79.8	72.0	65.6	59.9
117.5°	85.6	89.8	103.4	117.6	116.2	111.9	106.2	93.4	84.1	77.7	71.3
120°	92.0	96.2	107.7	122.6	126.9	123.3	119.8	108.4	97.0	89.8	84.1
122.5°	97.7	101.2	111.9	126.9	134.7	134.0	130.5	122.6	111.2	102.7	95.5
125°	103.4	106.9	116.2	129.8	140.4	142.6	141.2	134.7	126.2	116.2	107.7
127.5°	109.1	111.9	120.5	132.6	144.7	149.0	149.7	145.4	139.0	130.5	121.2
130°	114.1	116.9	124.0	134.7	147.6	152.6	155.4	154.7	149.7	144.0	134.7
132.5°	118.3	120.5	127.6	136.9	149.0	154.7	159.0	162.5	159.0	154.7	148.3
135°	122.6	124.8	130.5	139.0	149.7	155.4	161.1	166.8	167.5	164.0	159.0
137.5°	126.2	127.6	133.3	140.4	149.7	155.4	161.1	169.0	173.2	171.8	167.5
140°	129.8	131.2	135.5	142.6	150.4	155.4	160.4	169.7	175.4	177.5	175.4
142.5°	132.6	134.0	137.6	144.0	150.4	154.7	159.7	168.3	176.1	180.4	181.8
145°	135.5	136.2	139.7	144.7	150.4	154.0	158.3	166.8	174.7	181.1	185.4
147.5°	137.6	138.3	140.4	145.4	150.4	153.3	156.8	164.0	171.8	178.9	185.4
150°	139.7	139.7	141.9	145.4	150.4	152.6	155.4	161.8	168.3	175.4	181.1
152.5°	141.2	141.2	143.3	146.1	149.7	151.9	154.7	159.7	165.4	171.8	177.5
155°	142.6	142.6	144.0	146.1	149.7	151.1	153.3	157.6	162.5	167.5	172.5
157.5°	144.0	144.0	144.7	146.9	149.0	150.4	152.6	156.1	159.7	164.0	168.3
160°	144.7	144.7	145.4	146.9	148.3	149.7	151.1	154.0	157.6	160.4	164.0
162.5°	145.4	145.4	146.1	146.9	148.3	149.0	149.7	152.6	154.7	157.6	160.4
165°	146.1	146.1	146.1	146.9	147.6	148.3	149.0	150.4	152.6	154.7	156.8
167.5°	146.9	146.9	146.9	146.9	147.6	147.6	148.3	149.0	150.4	151.9	153.3
170°	147.6	146.9	146.9	147.6	146.9	146.9	147.6	148.3	148.3	149.7	150.4
172.5°	147.6	147.6	146.9	146.9	146.9	146.9	146.9	146.9	146.9	147.6	148.3
175°	147.6	147.6	146.9	146.9	146.9	146.1	146.1	146.1	146.1	146.1	146.1
177.5°	147.6	147.6	146.9	146.9	146.1	146.1	146.1	146.1	146.1	146.1	146.1
180°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4



TEST NUMBER: P395830

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7	842.7
2.5°	848.4	844.8	843.4	842.7	842.0	841.3	839.8	838.4	837.0	837.0
5°	844.8	841.3	839.8	839.1	838.4	837.7	837.0	837.0	837.0	837.0
7.5°	839.1	835.5	834.1	833.4	833.4	832.7	832.7	832.7	832.0	832.7
10°	830.6	827.0	826.3	825.6	824.9	823.4	823.4	823.4	822.7	823.4
12.5°	819.9	816.3	815.6	814.9	814.2	813.4	813.4	812.7	812.7	813.4
15°	809.2	804.2	802.8	802.8	802.0	801.3	802.0	801.3	801.3	801.3
17.5°	793.5	791.3	789.2	787.8	787.1	786.4	786.4	785.6	785.6	785.6
20°	772.8	772.8	772.8	769.2	768.5	767.8	767.8	767.8	767.8	767.8
22.5°	752.8	749.3	752.1	750.0	748.6	747.1	747.9	747.9	747.9	747.9
25°	730.7	727.9	728.6	729.3	727.9	725.8	725.8	725.8	725.8	725.0
27.5°	707.2	705.1	704.4	705.1	706.5	705.1	702.9	700.8	701.5	701.5
30°	681.6	680.8	680.1	678.7	680.1	680.8	677.3	676.6	676.6	676.6
32.5°	655.9	655.2	653.0	651.6	652.3	653.8	652.3	650.9	650.9	650.9
35°	630.2	627.4	625.2	624.5	624.5	625.9	625.2	623.1	623.1	623.1
37.5°	600.3	601.0	597.4	596.7	596.7	596.7	598.1	594.6	595.3	594.6
40°	571.1	571.8	569.6	567.5	568.2	566.8	568.9	565.3	565.3	565.3
42.5°	541.8	540.4	541.1	536.8	537.5	537.5	538.3	536.1	535.4	534.7
45°	511.9	510.5	509.7	507.6	507.6	506.9	506.9	504.0	504.0	504.0
47.5°	480.5	479.8	478.4	476.9	476.9	476.2	474.8	474.1	473.4	473.4
50°	450.6	448.4	446.3	447.0	446.3	445.6	444.2	443.4	442.7	442.0
52.5°	418.5	418.5	415.6	415.6	415.6	414.9	413.5	412.1	412.1	411.4
55°	387.1	386.4	384.3	383.6	384.3	383.6	382.1	380.7	380.7	380.0
57.5°	355.7	354.3	353.6	353.6	352.9	352.9	350.8	349.3	350.0	349.3
60°	323.7	323.7	323.0	322.2	322.2	321.5	319.4	319.4	319.4	318.7
62.5°	293.0	293.0	291.6	290.9	291.6	290.9	290.2	289.4	288.7	288.0
65°	260.9	261.6	260.2	260.9	260.9	259.5	259.5	258.8	258.8	258.1
67.5°	231.0	231.0	230.3	230.3	231.0	230.3	230.3	229.6	229.6	228.8
70°	200.3	201.8	201.0	201.0	201.0	200.3	200.3	200.3	199.6	200.3
72.5°	169.7	169.7	169.7	169.7	169.7	170.4	170.4	170.4	170.4	169.7
75°	141.2	141.9	141.2	141.9	142.6	142.6	142.6	142.6	143.3	142.6
77.5°	113.4	114.1	114.1	115.5	115.5	115.5	116.2	116.2	116.2	116.2
80°	87.0	87.7	88.4	89.8	89.8	91.3	92.0	92.0	92.0	92.0
82.5°	62.7	64.9	65.6	67.7	68.4	68.4	69.9	70.6	70.6	70.6
85°	43.5	45.6	47.1	48.5	49.9	49.9	51.3	51.3	52.0	52.0
87.5°	27.1	29.2	30.7	32.8	33.5	34.2	34.9	35.6	36.4	36.4
90°	15.0	16.4	17.8	19.2	19.2	20.0	20.7	21.4	22.1	22.1
92.5°	10.7	11.4	12.8	13.5	13.5	14.3	15.0	15.0	15.7	15.7
95°	12.1	12.8	12.8	13.5	13.5	13.5	14.3	14.3	14.3	14.3
97.5°	18.5	18.5	18.5	17.8	17.8	17.8	17.8	17.8	17.8	17.8
100°	24.2	25.0	25.0	25.0	25.7	25.7	25.7	25.7	25.0	25.0
102.5°	27.1	27.8	28.5	29.2	29.2	29.2	29.9	29.9	29.9	29.9
105°	30.7	30.7	31.4	32.1	32.1	32.1	32.8	32.8	32.8	32.8
107.5°	34.9	34.9	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
110°	39.9	39.9	39.9	39.2	39.9	39.2	39.2	39.2	39.2	39.2





TEST NUMBER: P395830

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	45.6	44.9	44.9	44.2	44.2	44.2	43.5	43.5	43.5	43.5
115°	54.9	51.3	49.9	48.5	48.5	48.5	47.8	47.8	47.8	47.8
117.5°	66.3	61.3	58.5	55.6	54.9	54.2	52.8	52.8	52.0	52.0
120°	78.4	73.4	69.2	65.6	64.2	63.5	61.3	59.9	58.5	58.5
122.5°	89.8	84.8	80.6	77.0	75.6	74.1	72.0	70.6	69.2	69.2
125°	101.2	96.2	92.0	88.4	86.3	84.8	82.7	81.3	79.8	79.8
127.5°	113.4	106.9	102.7	99.1	97.0	96.2	93.4	92.0	90.5	90.5
130°	126.9	119.1	113.4	109.1	107.7	106.2	104.1	102.7	101.2	101.2
132.5°	140.4	132.6	126.2	120.5	118.3	116.9	114.1	112.6	111.2	111.2
135°	153.3	146.1	139.7	134.0	131.9	129.8	126.9	124.0	122.6	122.6
137.5°	163.3	158.3	152.6	147.6	145.4	143.3	140.4	137.6	135.5	136.2
140°	171.8	167.5	164.0	160.4	158.3	156.8	154.0	151.9	149.7	149.7
142.5°	179.7	176.1	172.5	169.7	169.0	168.3	166.1	164.0	162.5	162.5
145°	186.8	184.6	181.8	178.2	177.5	176.8	174.7	173.2	172.5	172.5
147.5°	188.9	189.6	188.9	186.8	186.1	185.4	183.9	182.5	181.8	181.8
150°	187.5	190.4	191.8	191.8	191.8	191.8	191.8	190.4	189.6	189.6
152.5°	183.2	187.5	190.4	192.5	193.2	193.9	193.9	194.6	193.9	193.9
155°	178.2	182.5	186.8	188.9	190.4	191.1	192.5	193.2	193.9	193.2
157.5°	172.5	176.1	178.9	183.2	184.6	186.1	187.5	188.9	189.6	188.9
160°	167.5	170.4	172.5	175.4	176.1	177.5	178.9	179.7	181.1	180.4
162.5°	162.5	164.7	166.8	168.3	169.7	170.4	171.8	172.5	173.2	172.5
165°	159.0	160.4	161.1	162.5	163.3	164.0	164.7	165.4	165.4	165.4
167.5°	154.7	156.1	156.8	157.6	158.3	159.0	159.0	159.7	159.7	159.7
170°	151.1	151.9	152.6	153.3	153.3	154.0	154.0	154.0	154.7	154.0
172.5°	148.3	148.3	148.3	149.0	149.0	149.0	149.0	149.0	149.0	148.3
175°	146.9	146.9	146.1	146.1	146.1	146.1	146.1	145.4	144.7	144.0
177.5°	146.1	145.4	145.4	144.7	144.7	144.7	144.0	143.3	142.6	141.9
180°	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4	145.4

(END OF REPORT)