

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: P395840

Luminaire Tested: **I3-WL-30L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395840  
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-30L83050-1D-UNV-W2A-W-4 (5000K)  
Description: CORELITE I3, DOWNLIGHT TRAY  
3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3034.6 lumens  
Efficiency: N/A  
Efficacy: 112.0 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

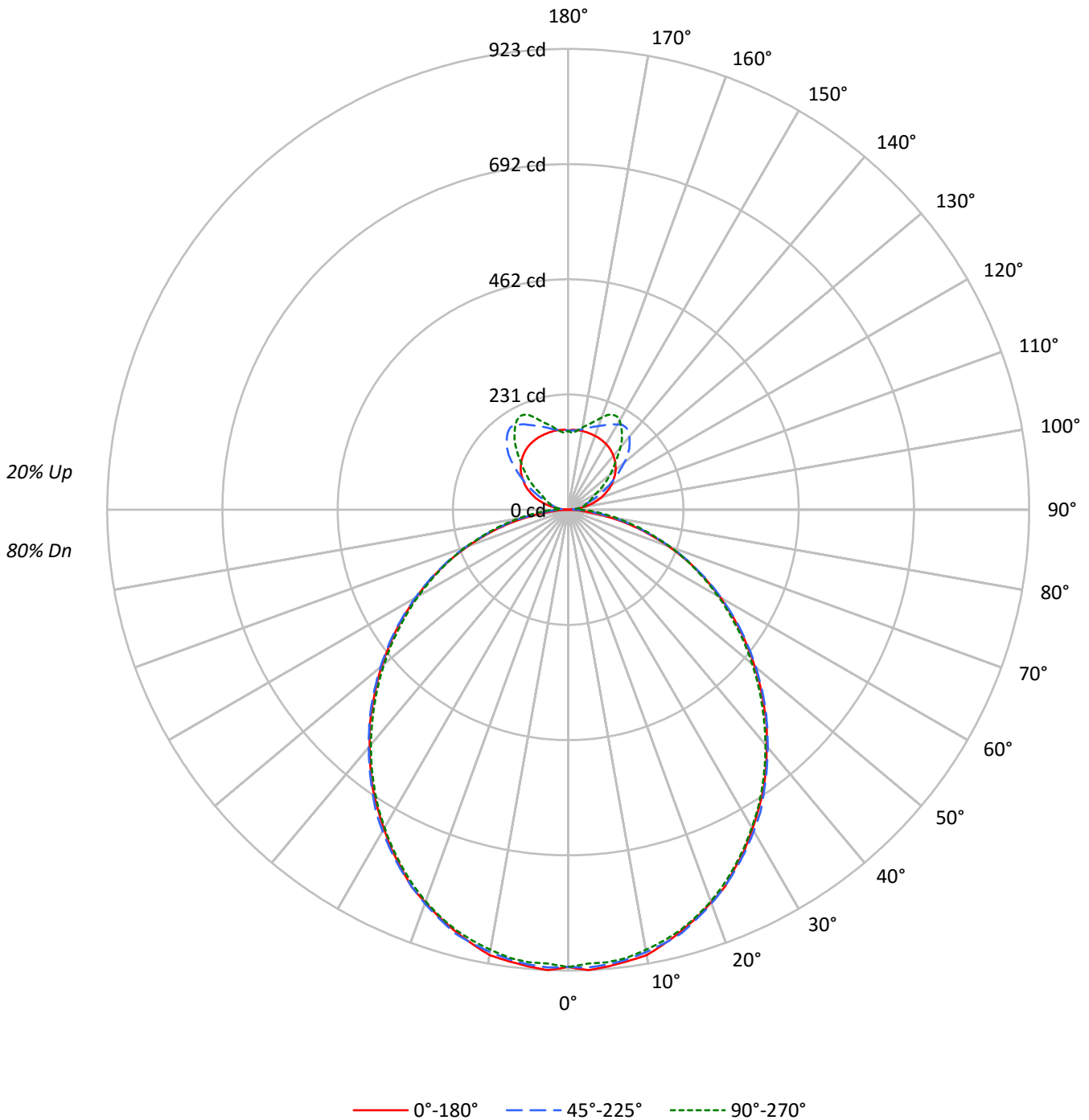
Input Watts (W): 27.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									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	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°	5035	5035	5035
5°	5048	4931	4878
10°	5018	4797	4718
15°	4918	4664	4550
20°	4821	4476	4354
25°	4705	4286	4137
30°	4570	4089	3914
35°	4444	3871	3685
40°	4284	3646	3445
45°	4131	3427	3194
50°	3967	3185	2941
55°	3794	2939	2681
60°	3602	2666	2414
65°	3380	2369	2127
70°	3066	2023	1827
75°	2641	1602	1467
80°	2014	1154	1095
85°	1052	690	742



TEST NUMBER: P395840

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	2.9
10°-20°	245.5	8.1
20°-30°	363.5	12.0
30°-40°	424.8	14.0
40°-50°	426.7	14.1
50°-60°	375.0	12.4
60°-70°	281.0	9.3
70°-80°	159.8	5.3
80°-90°	50.4	1.7
90°-100°	18.2	0.6
100°-110°	44.3	1.5
110°-120°	73.6	2.4
120°-130°	103.3	3.4
130°-140°	119.1	3.9
140°-150°	113.7	3.7
150°-160°	85.5	2.8
160°-170°	48.4	1.6
170°-180°	15.3	0.5
0°-30°	695.5	22.9
0°-40°	1120.3	36.9
0°-60°	1922.0	63.3
0°-90°	2413.3	79.5
90°-120°	136.1	4.5
90°-150°	472.1	15.6
90°-180°	621.0	20.5
0°-180°	3034.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	918	909	914	911	910	87
15°	874	866	878	872	871	246
25°	791	789	794	791	788	365
35°	682	676	684	679	677	426
45°	554	553	558	552	548	428
55°	420	422	423	418	413	375
65°	284	284	286	284	280	280
75°	144	146	150	155	155	153
85°	25	32	44	54	57	32
90°	1	5	14	21	24	2
95°	13	13	13	15	16	15
105°	52	44	33	35	36	54
115°	85	106	65	53	52	84
125°	112	155	117	94	87	101
135°	133	169	173	143	133	103
145°	147	167	202	193	188	92
155°	155	164	188	207	210	72
165°	159	161	170	178	180	45
175°	160	159	159	159	156	15
180°	158	158	158	158	158	



TEST NUMBER: P395840

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0
2.5°	923.0	921.4	917.5	913.7	912.9	912.1	912.1	911.3	911.3	912.9	917.5
5°	918.3	917.5	913.7	909.8	909.0	909.0	908.2	908.2	908.2	909.8	914.4
7.5°	912.1	910.6	906.7	902.8	902.0	902.0	902.0	901.3	902.0	902.8	908.2
10°	905.9	905.1	901.3	896.6	895.1	895.1	894.3	892.7	892.7	894.3	899.7
12.5°	890.4	889.6	885.8	882.7	882.7	883.4	883.4	884.2	884.2	885.8	889.6
15°	874.1	873.4	869.5	866.4	866.4	866.4	865.6	865.6	866.4	871.0	878.0
17.5°	856.3	855.5	852.4	849.3	849.3	849.3	848.6	848.6	849.3	851.7	858.6
20°	836.9	836.2	833.1	830.0	830.0	830.0	829.2	830.0	830.0	833.1	839.3
22.5°	818.3	816.8	812.9	809.8	808.3	808.3	808.3	807.5	809.0	811.4	817.6
25°	791.2	790.4	788.9	786.6	788.1	788.9	787.3	785.8	785.8	788.9	794.3
27.5°	766.4	764.9	762.6	760.2	758.7	759.5	760.2	761.8	764.1	764.9	769.5
30°	737.8	737.0	734.7	731.6	732.3	733.1	733.1	733.1	734.7	741.6	743.2
32.5°	709.9	709.1	706.8	703.7	704.4	705.2	704.4	705.2	706.8	709.9	716.8
35°	682.0	680.4	678.1	677.3	676.5	676.5	676.5	677.3	678.1	680.4	684.3
37.5°	650.2	648.6	647.1	644.8	646.3	647.9	648.6	647.9	648.6	651.7	653.3
40°	618.4	617.6	616.1	614.5	615.3	616.1	615.3	617.6	619.2	620.7	621.5
42.5°	588.2	586.6	585.1	584.3	584.3	585.1	585.1	586.6	586.6	590.5	589.7
45°	554.1	553.3	552.5	552.5	553.3	553.3	553.3	554.1	554.9	557.2	558.0
47.5°	520.8	520.0	520.0	520.0	520.0	520.8	521.5	523.9	522.3	523.1	523.9
50°	487.4	486.7	486.7	486.7	488.2	488.2	489.8	490.5	491.3	489.8	490.5
52.5°	453.3	452.6	454.1	454.1	455.7	455.7	458.0	455.7	457.2	456.4	456.4
55°	420.0	419.2	420.8	420.0	421.6	421.6	423.1	423.9	423.1	423.1	423.1
57.5°	385.9	385.2	385.9	386.7	387.5	387.5	389.8	389.8	387.5	389.0	388.2
60°	351.8	351.1	351.8	352.6	353.4	353.4	354.2	352.6	354.2	354.9	354.2
62.5°	317.7	317.0	318.5	317.7	318.5	319.3	319.3	321.6	320.8	320.8	320.1
65°	283.6	282.9	282.9	282.9	283.6	284.4	285.2	286.0	286.0	286.7	286.0
67.5°	248.8	248.0	248.8	248.0	248.8	249.5	251.1	251.9	251.9	252.6	251.9
70°	213.1	213.9	213.1	213.9	214.7	215.4	216.2	217.8	217.8	217.8	217.8
72.5°	178.2	177.5	177.5	176.7	178.2	179.0	179.8	182.1	182.1	182.9	182.9
75°	144.1	142.6	143.4	142.6	145.7	146.5	146.5	148.8	149.6	151.1	150.3
77.5°	110.8	110.8	109.3	111.6	112.4	113.9	115.5	117.0	117.8	120.1	120.1
80°	79.0	79.0	78.3	79.8	82.9	83.7	86.0	86.8	89.1	90.7	91.4
82.5°	50.4	50.4	50.4	52.7	55.0	55.8	58.1	60.4	62.0	64.3	65.1
85°	24.8	26.3	26.3	29.4	31.0	32.5	33.3	36.4	38.7	41.8	44.2
87.5°	7.7	8.5	9.3	10.8	13.9	14.7	16.3	19.4	21.7	24.8	27.1
90°	0.8	0.8	1.5	2.3	3.9	4.6	6.2	7.7	10.1	12.4	13.9
92.5°	5.4	5.4	6.2	6.2	6.2	6.2	6.2	7.0	7.7	9.3	10.1
95°	13.2	20.9	12.4	11.6	13.2	13.2	13.9	13.2	13.2	13.2	13.2
97.5°	21.7	38.7	25.6	17.8	17.0	17.8	17.8	19.4	20.1	20.9	20.9
100°	31.8	48.8	44.9	29.4	24.0	23.2	23.2	23.2	24.0	24.8	25.6
102.5°	41.8	55.8	64.3	45.7	34.1	31.0	29.4	28.7	27.9	28.7	28.7
105°	51.9	62.8	79.0	62.0	48.8	44.2	39.5	34.1	33.3	33.3	33.3
107.5°	61.2	69.7	89.9	80.6	63.5	58.9	53.5	44.9	39.5	38.7	38.0
110°	69.7	76.7	97.6	96.1	79.8	72.8	68.2	58.9	51.1	45.7	43.4



TEST NUMBER: P395840

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	77.5	83.7	103.1	109.3	97.6	89.1	82.1	72.8	64.3	57.3	51.9
115°	85.2	90.7	107.7	120.1	113.1	106.2	98.4	86.8	78.3	71.3	65.1
117.5°	93.0	97.6	112.4	127.9	126.3	121.7	115.5	101.5	91.4	84.5	77.5
120°	100.0	104.6	117.0	133.3	137.9	134.1	130.2	117.8	105.4	97.6	91.4
122.5°	106.2	110.0	121.7	137.9	146.5	145.7	141.8	133.3	120.9	111.6	103.8
125°	112.4	116.2	126.3	141.0	152.7	155.0	153.4	146.5	137.2	126.3	117.0
127.5°	118.6	121.7	131.0	144.1	157.3	162.0	162.7	158.1	151.1	141.8	131.7
130°	124.0	127.1	134.8	146.5	160.4	165.8	168.9	168.2	162.7	156.5	146.5
132.5°	128.6	131.0	138.7	148.8	162.0	168.2	172.8	176.7	172.8	168.2	161.2
135°	133.3	135.6	141.8	151.1	162.7	168.9	175.1	181.3	182.1	178.2	172.8
137.5°	137.2	138.7	144.9	152.7	162.7	168.9	175.1	183.7	188.3	186.8	182.1
140°	141.0	142.6	147.2	155.0	163.5	168.9	174.4	184.4	190.6	193.0	190.6
142.5°	144.1	145.7	149.6	156.5	163.5	168.2	173.6	182.9	191.4	196.1	197.6
145°	147.2	148.0	151.9	157.3	163.5	167.4	172.0	181.3	189.9	196.8	201.5
147.5°	149.6	150.3	152.7	158.1	163.5	166.6	170.5	178.2	186.8	194.5	201.5
150°	151.9	151.9	154.2	158.1	163.5	165.8	168.9	175.9	182.9	190.6	196.8
152.5°	153.4	153.4	155.8	158.9	162.7	165.1	168.2	173.6	179.8	186.8	193.0
155°	155.0	155.0	156.5	158.9	162.7	164.3	166.6	171.3	176.7	182.1	187.5
157.5°	156.5	156.5	157.3	159.6	162.0	163.5	165.8	169.7	173.6	178.2	182.9
160°	157.3	157.3	158.1	159.6	161.2	162.7	164.3	167.4	171.3	174.4	178.2
162.5°	158.1	158.1	158.9	159.6	161.2	162.0	162.7	165.8	168.2	171.3	174.4
165°	158.9	158.9	158.9	159.6	160.4	161.2	162.0	163.5	165.8	168.2	170.5
167.5°	159.6	159.6	159.6	159.6	160.4	160.4	161.2	162.0	163.5	165.1	166.6
170°	160.4	159.6	159.6	160.4	159.6	159.6	160.4	161.2	161.2	162.7	163.5
172.5°	160.4	160.4	159.6	159.6	159.6	159.6	159.6	159.6	159.6	160.4	161.2
175°	160.4	160.4	159.6	159.6	159.6	158.9	158.9	158.9	158.9	158.9	158.9
177.5°	160.4	160.4	159.6	159.6	158.9	158.9	158.9	158.9	158.9	158.9	158.9
180°	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0	916.0
2.5°	922.2	918.3	916.8	916.0	915.2	914.4	912.9	911.3	909.8	909.8
5°	918.3	914.4	912.9	912.1	911.3	910.6	909.8	909.8	909.8	909.8
7.5°	912.1	908.2	906.7	905.9	905.9	905.1	905.1	905.1	904.4	905.1
10°	902.8	898.9	898.2	897.4	896.6	895.1	895.1	895.1	894.3	895.1
12.5°	891.2	887.3	886.5	885.8	885.0	884.2	884.2	883.4	883.4	884.2
15°	879.6	874.1	872.6	872.6	871.8	871.0	871.8	871.0	871.0	871.0
17.5°	862.5	860.2	857.9	856.3	855.5	854.8	854.8	854.0	854.0	854.0
20°	840.0	840.0	840.0	836.2	835.4	834.6	834.6	834.6	834.6	834.6
22.5°	818.3	814.5	817.6	815.2	813.7	812.1	812.9	812.9	812.9	812.9
25°	794.3	791.2	792.0	792.8	791.2	788.9	788.9	788.9	788.9	788.1
27.5°	768.8	766.4	765.7	766.4	768.0	766.4	764.1	761.8	762.6	762.6
30°	740.9	740.1	739.3	737.8	739.3	740.1	736.2	735.4	735.4	735.4
32.5°	713.0	712.2	709.9	708.3	709.1	710.6	709.1	707.5	707.5	707.5
35°	685.1	682.0	679.6	678.9	678.9	680.4	679.6	677.3	677.3	677.3
37.5°	652.5	653.3	649.4	648.6	648.6	648.6	650.2	646.3	647.1	646.3
40°	620.7	621.5	619.2	616.9	617.6	616.1	618.4	614.5	614.5	614.5
42.5°	589.0	587.4	588.2	583.5	584.3	584.3	585.1	582.8	582.0	581.2
45°	556.4	554.9	554.1	551.8	551.8	551.0	551.0	547.9	547.9	547.9
47.5°	522.3	521.5	520.0	518.4	518.4	517.7	516.1	515.3	514.6	514.6
50°	489.8	487.4	485.1	485.9	485.1	484.3	482.8	482.0	481.2	480.5
52.5°	454.9	454.9	451.8	451.8	451.8	451.0	449.5	447.9	447.9	447.1
55°	420.8	420.0	417.7	416.9	417.7	416.9	415.4	413.8	413.8	413.0
57.5°	386.7	385.2	384.4	384.4	383.6	383.6	381.3	379.7	380.5	379.7
60°	351.8	351.8	351.1	350.3	350.3	349.5	347.2	347.2	347.2	346.4
62.5°	318.5	318.5	317.0	316.2	317.0	316.2	315.4	314.6	313.9	313.1
65°	283.6	284.4	282.9	283.6	283.6	282.1	282.1	281.3	281.3	280.5
67.5°	251.1	251.1	250.3	250.3	251.1	250.3	250.3	249.5	249.5	248.8
70°	217.8	219.3	218.5	218.5	218.5	217.8	217.8	217.8	217.0	217.8
72.5°	184.4	184.4	184.4	184.4	184.4	185.2	185.2	185.2	185.2	184.4
75°	153.4	154.2	153.4	154.2	155.0	155.0	155.0	155.0	155.8	155.0
77.5°	123.2	124.0	124.0	125.5	125.5	125.5	126.3	126.3	126.3	126.3
80°	94.5	95.3	96.1	97.6	97.6	99.2	100.0	100.0	100.0	100.0
82.5°	68.2	70.5	71.3	73.6	74.4	74.4	75.9	76.7	76.7	76.7
85°	47.3	49.6	51.1	52.7	54.2	54.2	55.8	55.8	56.6	56.6
87.5°	29.4	31.8	33.3	35.6	36.4	37.2	38.0	38.7	39.5	39.5
90°	16.3	17.8	19.4	20.9	20.9	21.7	22.5	23.2	24.0	24.0
92.5°	11.6	12.4	13.9	14.7	14.7	15.5	16.3	16.3	17.0	17.0
95°	13.2	13.9	13.9	14.7	14.7	14.7	15.5	15.5	15.5	15.5
97.5°	20.1	20.1	20.1	19.4	19.4	19.4	19.4	19.4	19.4	19.4
100°	26.3	27.1	27.1	27.1	27.9	27.9	27.9	27.9	27.1	27.1
102.5°	29.4	30.2	31.0	31.8	31.8	31.8	32.5	32.5	32.5	32.5
105°	33.3	33.3	34.1	34.9	34.9	34.9	35.6	35.6	35.6	35.6
107.5°	38.0	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
110°	43.4	43.4	43.4	42.6	43.4	42.6	42.6	42.6	42.6	42.6





TEST NUMBER: P395840

CATALOG NUMBER: I3-WL-30L83050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	49.6	48.8	48.8	48.0	48.0	48.0	47.3	47.3	47.3	47.3
115°	59.7	55.8	54.2	52.7	52.7	52.7	51.9	51.9	51.9	51.9
117.5°	72.1	66.6	63.5	60.4	59.7	58.9	57.3	57.3	56.6	56.6
120°	85.2	79.8	75.2	71.3	69.7	69.0	66.6	65.1	63.5	63.5
122.5°	97.6	92.2	87.6	83.7	82.1	80.6	78.3	76.7	75.2	75.2
125°	110.0	104.6	100.0	96.1	93.8	92.2	89.9	88.3	86.8	86.8
127.5°	123.2	116.2	111.6	107.7	105.4	104.6	101.5	100.0	98.4	98.4
130°	137.9	129.4	123.2	118.6	117.0	115.5	113.1	111.6	110.0	110.0
132.5°	152.7	144.1	137.2	131.0	128.6	127.1	124.0	122.4	120.9	120.9
135°	166.6	158.9	151.9	145.7	143.4	141.0	137.9	134.8	133.3	133.3
137.5°	177.5	172.0	165.8	160.4	158.1	155.8	152.7	149.6	147.2	148.0
140°	186.8	182.1	178.2	174.4	172.0	170.5	167.4	165.1	162.7	162.7
142.5°	195.3	191.4	187.5	184.4	183.7	182.9	180.6	178.2	176.7	176.7
145°	203.0	200.7	197.6	193.7	193.0	192.2	189.9	188.3	187.5	187.5
147.5°	205.4	206.1	205.4	203.0	202.3	201.5	199.9	198.4	197.6	197.6
150°	203.8	206.9	208.5	208.5	208.5	208.5	208.5	206.9	206.1	206.1
152.5°	199.2	203.8	206.9	209.2	210.0	210.8	210.8	211.6	210.8	210.8
155°	193.7	198.4	203.0	205.4	206.9	207.7	209.2	210.0	210.8	210.0
157.5°	187.5	191.4	194.5	199.2	200.7	202.3	203.8	205.4	206.1	205.4
160°	182.1	185.2	187.5	190.6	191.4	193.0	194.5	195.3	196.8	196.1
162.5°	176.7	179.0	181.3	182.9	184.4	185.2	186.8	187.5	188.3	187.5
165°	172.8	174.4	175.1	176.7	177.5	178.2	179.0	179.8	179.8	179.8
167.5°	168.2	169.7	170.5	171.3	172.0	172.8	172.8	173.6	173.6	173.6
170°	164.3	165.1	165.8	166.6	166.6	167.4	167.4	167.4	168.2	167.4
172.5°	161.2	161.2	161.2	162.0	162.0	162.0	162.0	162.0	162.0	161.2
175°	159.6	159.6	158.9	158.9	158.9	158.9	158.9	158.1	157.3	156.5
177.5°	158.9	158.1	158.1	157.3	157.3	157.3	156.5	155.8	155.0	154.2
180°	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1	158.1

(END OF REPORT)