

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: P395680

Luminaire Tested: **I3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: I3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, OPEN TOP  
3000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2866.9 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

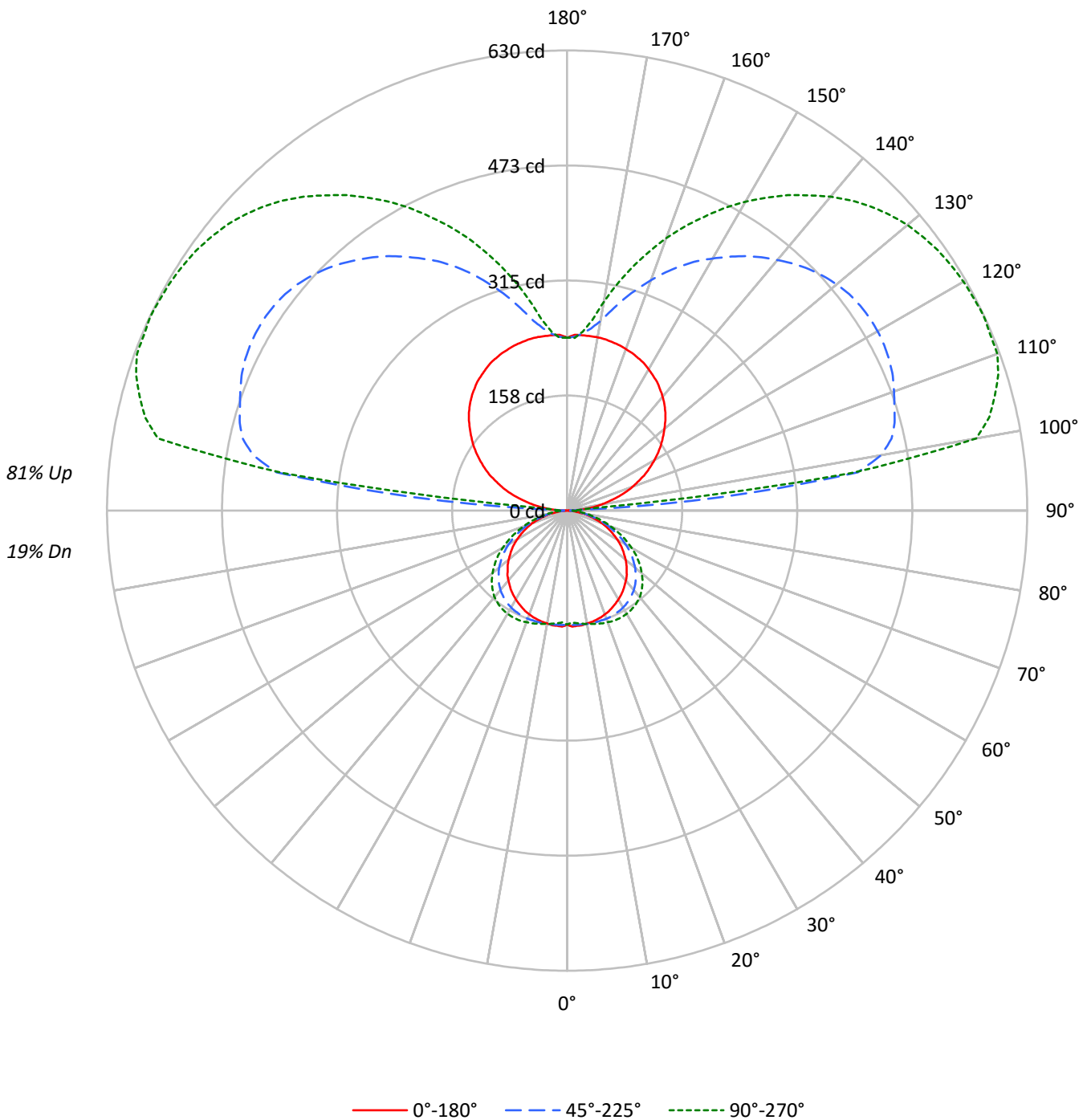
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P395680

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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	858	858	858
5°	870	846	829
10°	869	840	831
15°	870	837	838
20°	871	841	848
25°	870	842	860
30°	871	844	869
35°	870	840	873
40°	867	833	867
45°	859	816	848
50°	851	789	817
55°	837	751	771
60°	810	697	709
65°	775	620	633
70°	732	538	533
75°	634	422	428
80°	505	303	310
85°	301	176	203



TEST NUMBER: P395680

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.9	0.5
10°-20°	44.5	1.6
20°-30°	71.7	2.5
30°-40°	92.2	3.2
40°-50°	101.3	3.5
50°-60°	95.2	3.3
60°-70°	74.0	2.6
70°-80°	42.4	1.5
80°-90°	13.6	0.5
90°-100°	183.3	6.4
100°-110°	435.5	15.2
110°-120°	437.5	15.3
120°-130°	401.2	14.0
130°-140°	335.5	11.7
140°-150°	251.8	8.8
150°-160°	163.9	5.7
160°-170°	84.4	2.9
170°-180°	23.9	0.8
0°-30°	131.2	4.6
0°-40°	223.4	7.8
0°-60°	419.9	14.6
0°-90°	549.9	19.2
90°-120°	1056.2	36.8
90°-150°	2044.7	71.3
90°-180°	2317.0	80.8
0°-180°	2866.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	156	156	156	156	156	
5°	158	157	157	156	155	15
15°	155	154	158	160	160	44
25°	146	148	156	162	164	68
35°	134	137	148	158	160	83
45°	115	121	133	143	146	89
55°	93	98	108	116	119	83
65°	65	68	75	81	83	64
75°	35	36	40	44	45	37
85°	7	8	11	15	16	8
90°	1	2	4	6	7	2
95°	25	205	210	28	24	25
105°	71	275	464	572	606	75
115°	118	310	487	592	630	116
125°	157	323	490	586	620	140
135°	190	322	468	556	588	146
145°	215	308	425	500	527	134
155°	230	283	370	423	444	106
165°	239	255	300	332	345	68
175°	241	240	243	246	246	23
180°	237	237	237	237	237	



TEST NUMBER: P395680

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	156.1	156.1	156.1	156.1	156.1	156.1	156.1	156.1	156.1	156.1	156.1
2.5°	159.0	158.3	157.6	157.6	156.9	156.9	156.9	156.1	156.1	156.1	156.9
5°	158.3	158.3	157.6	156.9	156.9	156.9	156.1	156.1	156.1	156.1	156.9
7.5°	158.3	157.6	156.9	156.9	156.1	156.1	156.1	156.1	156.1	156.1	156.9
10°	156.9	156.9	156.1	156.1	155.4	156.1	156.1	156.1	156.1	156.1	157.6
12.5°	156.1	156.1	155.4	154.7	154.7	154.7	155.4	155.4	155.4	156.1	157.6
15°	154.7	154.7	154.0	154.0	154.0	154.0	154.7	154.7	155.4	156.1	157.6
17.5°	153.3	153.3	152.6	152.6	152.6	153.3	153.3	154.0	154.7	156.1	157.6
20°	151.2	151.2	151.2	151.2	151.2	151.9	151.9	152.6	154.0	155.4	157.6
22.5°	149.1	149.1	149.1	149.1	149.1	149.8	150.5	151.9	152.6	154.7	156.9
25°	146.3	146.3	146.3	146.3	147.0	147.7	148.4	149.8	151.2	153.3	156.1
27.5°	143.4	144.1	144.1	144.1	144.8	145.5	146.3	147.7	149.8	152.6	154.7
30°	140.6	140.6	140.6	141.3	142.0	142.7	144.1	145.5	147.7	150.5	153.3
32.5°	137.1	137.1	137.8	137.8	139.2	139.9	141.3	143.4	145.5	148.4	151.2
35°	133.5	133.5	133.5	134.9	135.7	137.1	137.8	139.9	142.7	145.5	148.4
37.5°	129.3	130.0	130.0	130.7	132.1	133.5	134.2	137.1	139.9	142.7	145.5
40°	125.1	125.8	125.8	126.5	128.6	129.3	130.7	133.5	135.7	139.2	142.0
42.5°	120.8	120.8	121.5	122.2	124.4	125.1	126.5	129.3	132.1	134.9	137.8
45°	115.2	115.9	116.6	117.3	119.4	120.8	122.2	124.4	127.2	130.0	132.8
47.5°	110.2	110.2	110.9	112.3	114.5	115.9	116.6	119.4	121.5	124.4	127.2
50°	104.6	105.3	105.3	106.7	108.8	110.2	110.9	113.8	115.9	118.7	121.5
52.5°	98.2	98.9	99.6	101.0	103.2	104.6	105.3	107.4	109.5	112.3	114.5
55°	92.6	93.3	93.3	94.7	96.8	97.5	98.9	100.3	103.2	105.3	108.1
57.5°	86.2	86.9	86.9	88.3	89.7	91.1	91.8	94.0	96.1	98.2	100.3
60°	79.1	79.8	80.5	81.3	82.7	84.1	84.8	86.2	88.3	90.4	92.6
62.5°	72.1	72.8	73.5	74.2	75.6	76.3	77.0	79.1	80.5	82.7	84.1
65°	65.0	65.7	66.4	67.1	67.8	68.5	69.2	70.7	72.1	74.2	74.9
67.5°	57.9	58.6	58.6	59.3	60.1	60.8	61.5	62.9	63.6	65.7	66.4
70°	50.9	50.9	50.9	51.6	51.6	52.3	53.0	54.4	55.1	56.5	57.9
72.5°	42.4	43.1	43.1	43.1	43.8	44.5	45.2	45.9	46.6	47.3	48.8
75°	34.6	35.3	34.6	35.3	36.0	36.0	36.7	37.4	38.2	38.9	39.6
77.5°	27.6	26.8	27.6	27.6	28.3	28.3	28.3	29.0	30.4	30.4	31.8
80°	19.8	19.8	19.8	19.8	20.5	20.5	21.2	21.2	22.6	23.3	24.0
82.5°	12.7	12.7	13.4	13.4	13.4	14.1	14.1	14.8	15.5	16.3	17.0
85°	7.1	7.1	7.1	7.8	7.8	8.5	8.5	9.2	9.9	10.6	11.3
87.5°	2.1	2.8	3.5	3.5	4.2	4.2	4.9	4.9	6.4	7.1	7.8
90°	0.7	0.7	1.4	1.4	1.4	2.1	2.1	2.8	2.8	3.5	4.2
92.5°	12.0	28.3	58.6	87.6	75.6	70.7	42.4	12.7	11.3	12.0	12.0
95°	24.7	46.6	85.5	138.5	179.5	204.9	221.9	254.4	287.6	281.9	210.5
97.5°	36.0	60.1	103.2	151.9	208.4	237.4	259.3	298.2	340.5	375.9	401.3
100°	47.3	72.1	118.0	168.9	221.1	247.3	272.7	325.7	367.4	402.7	436.6
102.5°	59.3	84.1	131.4	184.4	236.0	261.4	286.1	332.8	379.4	421.8	455.0
105°	71.4	96.8	143.4	197.8	249.4	274.8	298.9	343.4	386.5	426.0	464.2
107.5°	84.1	108.1	154.0	208.4	260.0	285.4	309.5	354.0	395.7	435.2	469.8
110°	95.4	118.7	164.6	218.3	269.9	295.3	319.4	363.9	404.8	442.3	476.2



TEST NUMBER: P395680

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	106.0	128.6	174.5	226.8	277.7	303.1	326.4	370.9	411.9	448.6	482.6
115°	118.0	137.8	184.4	234.6	284.7	309.5	332.8	376.6	417.6	453.6	486.8
117.5°	127.9	147.0	192.9	240.9	290.4	314.4	337.0	380.8	421.1	457.1	489.6
120°	137.8	155.4	200.7	246.6	294.6	317.9	340.5	383.6	423.9	459.2	491.0
122.5°	147.7	163.9	207.0	252.2	298.2	321.5	343.4	385.8	425.3	460.0	491.0
125°	156.9	171.0	212.7	256.5	300.3	322.9	344.1	385.8	424.6	458.5	489.6
127.5°	165.3	178.8	216.9	260.7	301.7	323.6	344.1	384.4	423.2	456.4	486.8
130°	173.8	185.8	221.1	262.8	303.1	322.9	342.7	381.5	419.7	452.9	481.9
132.5°	182.3	193.6	224.7	265.0	303.8	322.9	341.3	378.7	415.4	447.9	475.5
135°	190.1	199.2	228.2	266.4	303.1	321.5	338.4	373.8	409.1	440.9	467.7
137.5°	197.1	204.9	231.0	267.1	302.4	319.4	336.3	368.1	401.3	432.4	458.5
140°	203.5	210.5	232.5	267.1	299.6	316.5	332.1	362.5	392.8	422.5	447.9
142.5°	209.1	215.5	234.6	265.7	296.7	313.0	327.8	356.8	384.4	412.6	437.3
145°	214.8	219.7	236.0	265.0	293.2	308.0	322.2	349.7	376.6	402.0	425.3
147.5°	219.0	224.0	237.4	262.1	289.0	302.4	315.8	342.0	366.7	390.7	411.9
150°	223.3	227.5	238.1	259.3	284.0	296.0	308.0	332.8	356.8	378.7	398.5
152.5°	227.5	230.3	240.2	256.5	278.4	289.7	301.7	323.6	345.5	366.0	385.1
155°	230.3	232.5	240.9	253.6	272.7	282.6	292.5	313.0	332.8	351.9	369.5
157.5°	233.2	235.3	241.6	251.5	266.4	275.5	284.0	301.7	320.1	337.0	353.3
160°	235.3	236.7	241.6	250.1	260.7	267.1	274.8	291.1	306.6	321.5	335.6
162.5°	237.4	238.1	241.6	248.0	255.8	260.0	265.7	278.4	292.5	305.2	317.9
165°	238.8	239.5	241.6	246.6	251.5	255.1	257.9	267.1	277.7	289.0	299.6
167.5°	240.2	240.2	241.6	245.2	248.0	250.1	252.2	257.2	264.2	272.7	280.5
170°	240.9	240.9	241.6	243.8	245.9	246.6	248.0	250.8	254.4	258.6	263.5
172.5°	240.9	240.9	240.9	242.3	243.0	243.0	243.0	244.5	246.6	249.4	251.5
175°	240.9	240.2	240.2	240.9	240.2	240.2	240.2	240.2	240.9	242.3	243.0
177.5°	240.9	240.2	239.5	239.5	238.8	238.8	238.1	238.1	238.1	238.1	238.1
180°	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7



TEST NUMBER: P395680

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	156.1	156.1	156.1	156.1	156.1	156.1	156.1	156.1	156.1	156.1
2.5°	156.9	156.9	156.1	155.4	155.4	155.4	154.7	154.0	153.3	153.3
5°	156.9	156.9	156.1	156.1	156.1	156.1	155.4	155.4	154.7	154.7
7.5°	157.6	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.1	156.1
10°	157.6	157.6	157.6	157.6	157.6	157.6	157.6	157.6	157.6	157.6
12.5°	158.3	158.3	158.3	158.3	159.0	159.0	159.0	159.0	159.0	159.0
15°	158.3	159.0	159.7	159.7	159.7	160.4	160.4	160.4	160.4	160.4
17.5°	159.0	159.7	160.4	160.4	161.1	161.1	161.8	161.8	161.8	161.8
20°	159.0	159.7	160.4	161.1	161.8	161.8	162.5	163.2	163.2	162.5
22.5°	158.3	159.7	160.4	161.1	161.8	162.5	163.2	163.9	163.9	163.9
25°	157.6	159.0	160.4	161.8	161.8	162.5	163.9	163.9	163.9	163.9
27.5°	156.9	158.3	159.7	161.1	161.8	162.5	163.2	163.9	163.9	163.9
30°	155.4	157.6	159.0	160.4	161.1	161.8	162.5	163.2	163.2	163.2
32.5°	153.3	155.4	156.9	159.0	159.7	160.4	161.1	161.8	161.8	161.8
35°	151.2	153.3	154.7	156.9	157.6	158.3	159.7	159.7	160.4	160.4
37.5°	147.7	150.5	151.9	154.0	154.7	155.4	156.9	157.6	157.6	157.6
40°	144.1	147.0	148.4	150.5	151.2	151.9	153.3	154.0	154.7	154.7
42.5°	139.9	142.7	144.1	146.3	147.0	147.7	149.1	149.8	150.5	150.5
45°	135.7	137.8	139.2	141.3	142.7	142.7	144.1	144.8	145.5	145.5
47.5°	130.0	132.1	133.5	135.7	137.1	137.8	138.5	139.2	139.9	139.9
50°	123.6	125.8	127.9	129.3	130.7	130.7	132.1	132.8	133.5	133.5
52.5°	117.3	118.7	120.8	122.9	123.6	124.4	125.1	125.8	126.5	126.5
55°	110.2	111.6	113.8	115.2	115.9	116.6	117.3	118.0	118.7	118.7
57.5°	102.4	103.9	106.0	107.4	108.1	108.8	109.5	110.2	110.9	110.9
60°	94.0	95.4	97.5	98.9	99.6	99.6	101.0	101.7	101.7	101.7
62.5°	85.5	86.9	88.3	89.7	90.4	91.1	91.8	92.6	92.6	92.6
65°	77.0	78.4	79.8	80.5	81.3	81.3	82.0	82.7	83.4	83.4
67.5°	67.8	69.2	70.7	71.4	72.1	72.1	72.8	73.5	73.5	73.5
70°	58.6	59.3	60.8	61.5	62.2	62.2	63.6	63.6	63.6	63.6
72.5°	49.5	50.2	51.6	52.3	53.0	53.0	53.7	54.4	54.4	54.4
75°	41.0	41.7	42.4	43.8	43.8	43.8	44.5	45.2	45.2	45.2
77.5°	32.5	33.2	33.9	34.6	35.3	35.3	36.0	36.7	36.7	36.7
80°	24.7	25.4	26.1	26.8	26.8	27.6	27.6	28.3	28.3	28.3
82.5°	17.7	18.4	19.1	19.8	20.5	20.5	21.2	21.9	21.9	21.2
85°	12.0	13.4	14.1	14.8	14.8	14.8	15.5	16.3	16.3	15.5
87.5°	8.5	8.5	9.2	9.9	9.9	10.6	10.6	11.3	11.3	11.3
90°	4.9	4.9	5.7	5.7	6.4	6.4	6.4	7.1	7.1	7.1
92.5°	12.0	12.0	12.7	12.7	12.7	12.7	13.4	13.4	13.4	13.4
95°	128.6	57.9	48.8	29.7	28.3	24.7	24.0	24.7	24.7	24.0
97.5°	431.7	462.1	481.2	490.3	479.0	467.0	453.6	451.5	433.1	392.1
100°	465.6	489.6	512.9	529.2	535.6	541.2	553.9	561.7	565.2	568.8
102.5°	482.6	508.0	528.5	549.0	557.5	565.2	576.5	585.7	589.3	592.1
105°	497.4	523.5	546.2	564.5	572.3	579.4	590.7	599.1	605.5	606.2
107.5°	500.9	528.5	553.9	576.5	585.7	593.5	606.9	613.3	618.9	618.9
110°	507.3	533.4	556.7	577.2	586.4	595.6	609.7	619.6	625.3	626.7





TEST NUMBER: P395680

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	512.2	539.1	561.0	581.5	589.3	597.7	611.2	620.3	625.3	627.4
115°	516.5	542.6	564.5	583.6	592.1	600.6	614.0	621.8	627.4	629.5
117.5°	519.3	544.7	566.6	584.3	593.5	600.6	613.3	621.8	627.4	628.1
120°	520.0	545.4	566.6	584.3	592.1	599.8	612.6	621.0	626.7	626.7
122.5°	520.0	544.7	565.9	582.9	590.0	597.0	609.0	618.9	623.9	623.9
125°	517.2	541.9	562.4	579.4	586.4	592.8	605.5	614.7	619.6	620.3
127.5°	512.9	537.0	557.5	574.4	581.5	587.1	600.6	609.0	614.0	614.7
130°	507.3	531.3	551.1	567.3	574.4	580.8	592.1	601.3	606.9	608.3
132.5°	500.9	523.5	543.3	558.9	565.9	571.6	582.9	592.1	597.0	599.1
135°	493.2	514.4	533.4	549.0	556.0	561.7	572.3	581.5	586.4	588.5
137.5°	483.3	503.8	522.1	537.7	544.0	549.7	560.3	568.8	573.0	575.8
140°	472.0	491.0	510.1	524.2	530.6	536.3	545.4	554.6	558.9	561.0
142.5°	460.0	479.0	496.0	510.1	515.8	521.4	530.6	539.1	543.3	544.0
145°	447.2	465.6	481.2	494.6	499.5	505.2	513.7	522.1	526.4	527.1
147.5°	433.1	450.1	464.9	477.6	483.3	487.5	495.3	503.1	507.3	508.0
150°	416.9	432.4	445.8	458.5	463.5	467.7	476.2	483.3	487.5	488.2
152.5°	401.3	416.1	427.5	438.8	443.7	447.9	455.0	462.1	466.3	467.0
155°	385.1	398.5	409.8	419.0	423.2	427.5	433.1	439.5	443.0	443.7
157.5°	368.1	380.8	390.7	399.2	403.4	407.0	411.9	417.6	419.7	421.1
160°	349.7	360.3	368.8	377.3	380.8	384.4	389.3	393.5	396.4	397.1
162.5°	330.0	339.1	346.2	354.0	356.1	358.9	363.9	368.1	370.2	370.9
165°	309.5	317.9	324.3	330.7	332.1	334.2	337.7	342.0	343.4	344.8
167.5°	289.0	296.0	300.3	305.9	308.0	309.5	313.0	315.8	317.2	317.9
170°	269.2	274.1	277.7	281.9	282.6	284.7	286.9	289.7	290.4	290.4
172.5°	253.6	255.8	257.9	259.3	260.0	260.7	262.1	262.8	262.8	262.8
175°	243.8	245.2	245.2	245.9	245.9	245.9	245.9	245.9	245.9	245.9
177.5°	238.1	238.1	238.1	237.4	237.4	237.4	237.4	236.7	236.7	236.7
180°	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7	236.7

(END OF REPORT)