

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: P393823

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

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-UL-30L830-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
3000 LUMENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

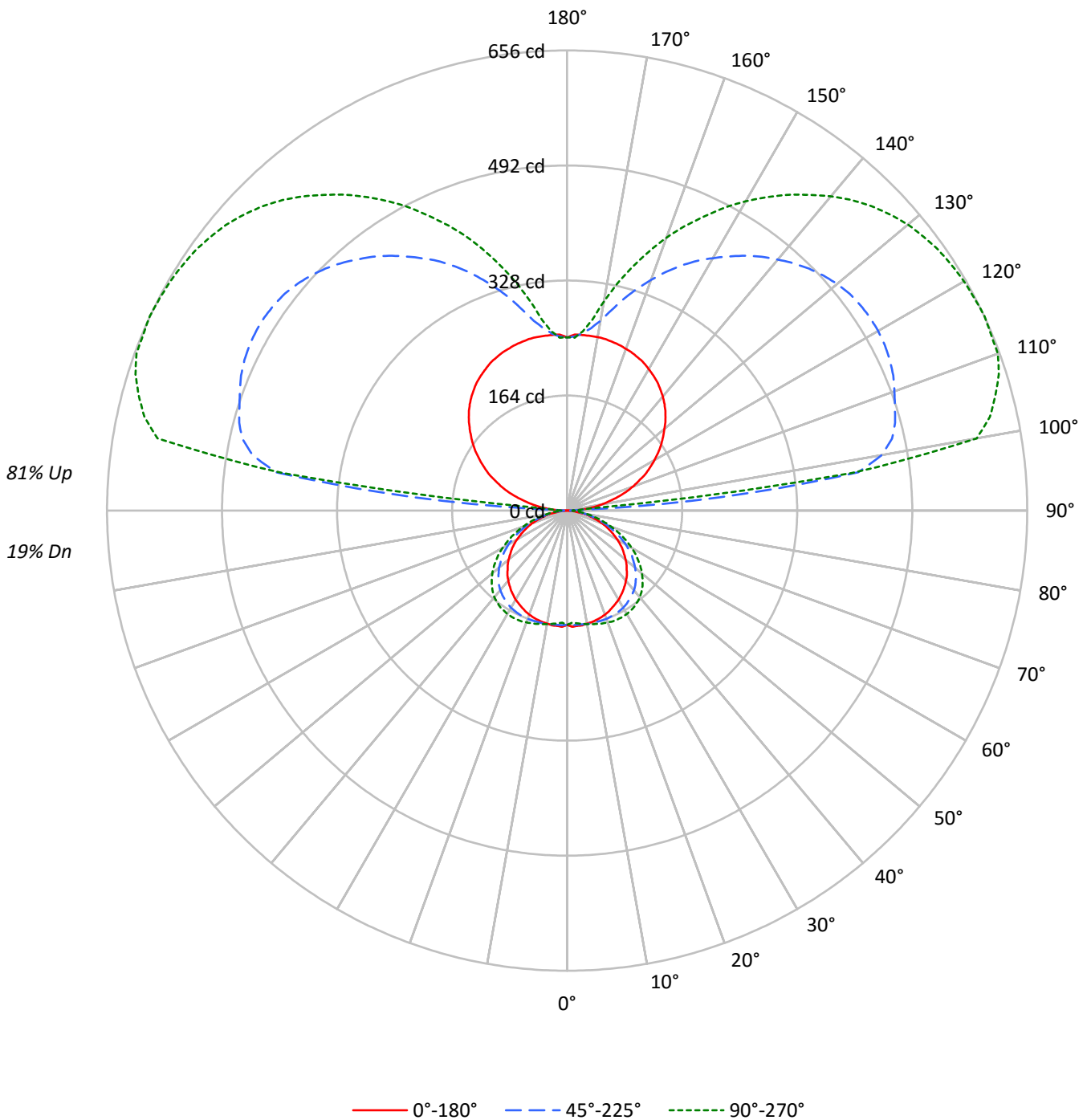
Lumens per Lamp: N/A
Luminaire Lumens: 2989.2 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 19.7
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: P393823
CATALOG NUMBER: I3-UL-30L830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P393823

CATALOG NUMBER: I3-UL-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	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°	895	895	895
5°	907	882	865
10°	906	876	866
15°	908	873	873
20°	908	876	884
25°	907	878	897
30°	908	880	906
35°	907	875	910
40°	903	869	904
45°	895	851	885
50°	887	823	852
55°	872	783	804
60°	845	726	739
65°	808	647	659
70°	763	561	556
75°	662	440	446
80°	525	316	323
85°	314	184	212



TEST NUMBER: P393823

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	0.5
10°-20°	46.4	1.6
20°-30°	74.7	2.5
30°-40°	96.2	3.2
40°-50°	105.6	3.5
50°-60°	99.3	3.3
60°-70°	77.1	2.6
70°-80°	44.2	1.5
80°-90°	14.2	0.5
90°-100°	191.1	6.4
100°-110°	454.1	15.2
110°-120°	456.2	15.3
120°-130°	418.3	14.0
130°-140°	349.8	11.7
140°-150°	262.5	8.8
150°-160°	170.9	5.7
160°-170°	88.0	2.9
170°-180°	24.9	0.8
0°-30°	136.8	4.6
0°-40°	232.9	7.8
0°-60°	437.8	14.6
0°-90°	573.4	19.2
90°-120°	1101.3	36.8
90°-150°	2132.0	71.3
90°-180°	2416.0	80.8
0°-180°	2989.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	163	163	163	163	163	
5°	165	164	164	163	161	16
15°	161	161	164	166	167	46
25°	152	154	163	169	171	70
35°	139	143	155	164	167	87
45°	120	126	138	149	152	93
55°	96	102	113	121	124	86
65°	68	72	78	85	87	67
75°	36	38	41	46	47	38
85°	7	9	12	16	16	9
90°	1	2	4	7	7	2
95°	26	214	220	30	25	26
105°	74	287	484	597	632	79
115°	123	323	508	617	656	121
125°	164	337	510	612	647	146
135°	198	335	488	580	614	153
145°	224	321	444	521	550	140
155°	240	295	385	441	463	111
165°	249	266	312	346	360	70
175°	251	250	253	256	256	24
180°	247	247	247	247	247	



TEST NUMBER: P393823

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8
2.5°	165.8	165.0	164.3	164.3	163.5	163.5	163.5	162.8	162.8	162.8	163.5
5°	165.0	165.0	164.3	163.5	163.5	163.5	162.8	162.8	162.8	162.8	163.5
7.5°	165.0	164.3	163.5	163.5	162.8	162.8	162.8	162.8	162.8	162.8	163.5
10°	163.5	163.5	162.8	162.8	162.1	162.8	162.8	162.8	162.8	162.8	164.3
12.5°	162.8	162.8	162.1	161.3	161.3	161.3	162.1	162.1	162.1	162.8	164.3
15°	161.3	161.3	160.6	160.6	160.6	160.6	161.3	161.3	162.1	162.8	164.3
17.5°	159.9	159.9	159.1	159.1	159.1	159.9	159.9	160.6	161.3	162.8	164.3
20°	157.7	157.7	157.7	157.7	157.7	158.4	158.4	159.1	160.6	162.1	164.3
22.5°	155.4	155.4	155.4	155.4	155.4	156.2	156.9	158.4	159.1	161.3	163.5
25°	152.5	152.5	152.5	152.5	153.2	154.0	154.7	156.2	157.7	159.9	162.8
27.5°	149.5	150.3	150.3	150.3	151.0	151.8	152.5	154.0	156.2	159.1	161.3
30°	146.6	146.6	146.6	147.3	148.1	148.8	150.3	151.8	154.0	156.9	159.9
32.5°	142.9	142.9	143.7	143.7	145.1	145.9	147.3	149.5	151.8	154.7	157.7
35°	139.2	139.2	139.2	140.7	141.4	142.9	143.7	145.9	148.8	151.8	154.7
37.5°	134.8	135.6	135.6	136.3	137.8	139.2	140.0	142.9	145.9	148.8	151.8
40°	130.4	131.1	131.1	131.9	134.1	134.8	136.3	139.2	141.4	145.1	148.1
42.5°	126.0	126.0	126.7	127.4	129.7	130.4	131.9	134.8	137.8	140.7	143.7
45°	120.1	120.8	121.6	122.3	124.5	126.0	127.4	129.7	132.6	135.6	138.5
47.5°	114.9	114.9	115.7	117.1	119.3	120.8	121.6	124.5	126.7	129.7	132.6
50°	109.0	109.8	109.8	111.2	113.5	114.9	115.7	118.6	120.8	123.8	126.7
52.5°	102.4	103.1	103.9	105.3	107.6	109.0	109.8	112.0	114.2	117.1	119.3
55°	96.5	97.2	97.2	98.7	100.9	101.7	103.1	104.6	107.6	109.8	112.7
57.5°	89.9	90.6	90.6	92.1	93.6	95.0	95.8	98.0	100.2	102.4	104.6
60°	82.5	83.2	84.0	84.7	86.2	87.7	88.4	89.9	92.1	94.3	96.5
62.5°	75.1	75.9	76.6	77.4	78.8	79.6	80.3	82.5	84.0	86.2	87.7
65°	67.8	68.5	69.2	70.0	70.7	71.5	72.2	73.7	75.1	77.4	78.1
67.5°	60.4	61.1	61.1	61.9	62.6	63.4	64.1	65.6	66.3	68.5	69.2
70°	53.0	53.0	53.0	53.8	53.8	54.5	55.3	56.7	57.5	58.9	60.4
72.5°	44.2	44.9	44.9	44.9	45.7	46.4	47.1	47.9	48.6	49.4	50.8
75°	36.1	36.8	36.1	36.8	37.6	37.6	38.3	39.0	39.8	40.5	41.3
77.5°	28.7	28.0	28.7	28.7	29.5	29.5	29.5	30.2	31.7	31.7	33.2
80°	20.6	20.6	20.6	20.6	21.4	21.4	22.1	22.1	23.6	24.3	25.0
82.5°	13.3	13.3	14.0	14.0	14.0	14.7	14.7	15.5	16.2	16.9	17.7
85°	7.4	7.4	7.4	8.1	8.1	8.8	8.8	9.6	10.3	11.1	11.8
87.5°	2.2	2.9	3.7	3.7	4.4	4.4	5.2	5.2	6.6	7.4	8.1
90°	0.7	0.7	1.5	1.5	1.5	2.2	2.2	2.9	2.9	3.7	4.4
92.5°	12.5	29.5	61.1	91.3	78.8	73.7	44.2	13.3	11.8	12.5	12.5
95°	25.8	48.6	89.1	144.4	187.1	213.6	231.3	265.2	299.8	293.9	219.5
97.5°	37.6	62.6	107.6	158.4	217.3	247.5	270.4	310.9	355.1	391.9	418.4
100°	49.4	75.1	123.0	176.1	230.6	257.8	284.4	339.6	383.1	419.9	455.3
102.5°	61.9	87.7	137.0	192.3	246.1	272.6	298.4	347.0	395.6	439.8	474.4
105°	74.4	100.9	149.5	206.3	260.1	286.6	311.6	358.0	403.0	444.2	484.0
107.5°	87.7	112.7	160.6	217.3	271.1	297.6	322.7	369.1	412.5	453.8	489.9
110°	99.5	123.8	171.6	227.6	281.4	307.9	333.0	379.4	422.1	461.2	496.5



TEST NUMBER: P393823

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	110.5	134.1	182.0	236.5	289.5	316.0	340.4	386.8	429.5	467.8	503.2
115°	123.0	143.7	192.3	244.6	296.9	322.7	347.0	392.7	435.4	473.0	507.6
117.5°	133.3	153.2	201.1	251.2	302.8	327.8	351.4	397.1	439.1	476.6	510.5
120°	143.7	162.1	209.2	257.1	307.2	331.5	355.1	400.0	442.0	478.8	512.0
122.5°	154.0	170.9	215.9	263.0	310.9	335.2	358.0	402.2	443.5	479.6	512.0
125°	163.5	178.3	221.7	267.4	313.1	336.7	358.8	402.2	442.8	478.1	510.5
127.5°	172.4	186.4	226.2	271.8	314.6	337.4	358.8	400.8	441.3	475.9	507.6
130°	181.2	193.8	230.6	274.0	316.0	336.7	357.3	397.8	437.6	472.2	502.4
132.5°	190.1	201.9	234.3	276.3	316.8	336.7	355.8	394.9	433.2	467.1	495.8
135°	198.2	207.7	238.0	277.7	316.0	335.2	352.9	389.7	426.5	459.7	487.7
137.5°	205.5	213.6	240.9	278.5	315.3	333.0	350.7	383.8	418.4	450.9	478.1
140°	212.2	219.5	242.4	278.5	312.4	330.0	346.2	377.9	409.6	440.5	467.1
142.5°	218.1	224.7	244.6	277.0	309.4	326.4	341.8	372.0	400.8	430.2	456.0
145°	224.0	229.1	246.1	276.3	305.7	321.2	335.9	364.7	392.7	419.2	443.5
147.5°	228.4	233.5	247.5	273.3	301.3	315.3	329.3	356.6	382.3	407.4	429.5
150°	232.8	237.2	248.3	270.4	296.2	308.7	321.2	347.0	372.0	394.9	415.5
152.5°	237.2	240.2	250.5	267.4	290.3	302.0	314.6	337.4	360.2	381.6	401.5
155°	240.2	242.4	251.2	264.5	284.4	294.7	305.0	326.4	347.0	366.9	385.3
157.5°	243.1	245.3	251.9	262.3	277.7	287.3	296.2	314.6	333.7	351.4	368.3
160°	245.3	246.8	251.9	260.8	271.8	278.5	286.6	303.5	319.7	335.2	349.9
162.5°	247.5	248.3	251.9	258.6	266.7	271.1	277.0	290.3	305.0	318.3	331.5
165°	249.0	249.7	251.9	257.1	262.3	265.9	268.9	278.5	289.5	301.3	312.4
167.5°	250.5	250.5	251.9	255.6	258.6	260.8	263.0	268.2	275.5	284.4	292.5
170°	251.2	251.2	251.9	254.2	256.4	257.1	258.6	261.5	265.2	269.6	274.8
172.5°	251.2	251.2	251.2	252.7	253.4	253.4	253.4	254.9	257.1	260.1	262.3
175°	251.2	250.5	250.5	251.2	250.5	250.5	250.5	250.5	251.2	252.7	253.4
177.5°	251.2	250.5	249.7	249.7	249.0	249.0	248.3	248.3	248.3	248.3	248.3
180°	246.8	246.8	246.8	246.8	246.8	246.8	246.8	246.8	246.8	246.8	246.8



TEST NUMBER: P393823

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8
2.5°	163.5	163.5	162.8	162.1	162.1	162.1	161.3	160.6	159.9	159.9
5°	163.5	163.5	162.8	162.8	162.8	162.8	162.1	162.1	161.3	161.3
7.5°	164.3	163.5	163.5	163.5	163.5	163.5	163.5	163.5	162.8	162.8
10°	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3
12.5°	165.0	165.0	165.0	165.0	165.8	165.8	165.8	165.8	165.8	165.8
15°	165.0	165.8	166.5	166.5	166.5	167.2	167.2	167.2	167.2	167.2
17.5°	165.8	166.5	167.2	167.2	168.0	168.0	168.7	168.7	168.7	168.7
20°	165.8	166.5	167.2	168.0	168.7	168.7	169.4	170.2	170.2	169.4
22.5°	165.0	166.5	167.2	168.0	168.7	169.4	170.2	170.9	170.9	170.9
25°	164.3	165.8	167.2	168.7	168.7	169.4	170.9	170.9	170.9	170.9
27.5°	163.5	165.0	166.5	168.0	168.7	169.4	170.2	170.9	170.9	170.9
30°	162.1	164.3	165.8	167.2	168.0	168.7	169.4	170.2	170.2	170.2
32.5°	159.9	162.1	163.5	165.8	166.5	167.2	168.0	168.7	168.7	168.7
35°	157.7	159.9	161.3	163.5	164.3	165.0	166.5	166.5	167.2	167.2
37.5°	154.0	156.9	158.4	160.6	161.3	162.1	163.5	164.3	164.3	164.3
40°	150.3	153.2	154.7	156.9	157.7	158.4	159.9	160.6	161.3	161.3
42.5°	145.9	148.8	150.3	152.5	153.2	154.0	155.4	156.2	156.9	156.9
45°	141.4	143.7	145.1	147.3	148.8	148.8	150.3	151.0	151.8	151.8
47.5°	135.6	137.8	139.2	141.4	142.9	143.7	144.4	145.1	145.9	145.9
50°	128.9	131.1	133.3	134.8	136.3	136.3	137.8	138.5	139.2	139.2
52.5°	122.3	123.8	126.0	128.2	128.9	129.7	130.4	131.1	131.9	131.9
55°	114.9	116.4	118.6	120.1	120.8	121.6	122.3	123.0	123.8	123.8
57.5°	106.8	108.3	110.5	112.0	112.7	113.5	114.2	114.9	115.7	115.7
60°	98.0	99.5	101.7	103.1	103.9	103.9	105.3	106.1	106.1	106.1
62.5°	89.1	90.6	92.1	93.6	94.3	95.0	95.8	96.5	96.5	96.5
65°	80.3	81.8	83.2	84.0	84.7	84.7	85.5	86.2	86.9	86.9
67.5°	70.7	72.2	73.7	74.4	75.1	75.1	75.9	76.6	76.6	76.6
70°	61.1	61.9	63.4	64.1	64.8	64.8	66.3	66.3	66.3	66.3
72.5°	51.6	52.3	53.8	54.5	55.3	55.3	56.0	56.7	56.7	56.7
75°	42.7	43.5	44.2	45.7	45.7	45.7	46.4	47.1	47.1	47.1
77.5°	33.9	34.6	35.4	36.1	36.8	36.8	37.6	38.3	38.3	38.3
80°	25.8	26.5	27.3	28.0	28.0	28.7	28.7	29.5	29.5	29.5
82.5°	18.4	19.2	19.9	20.6	21.4	21.4	22.1	22.8	22.8	22.1
85°	12.5	14.0	14.7	15.5	15.5	15.5	16.2	16.9	16.9	16.2
87.5°	8.8	8.8	9.6	10.3	10.3	11.1	11.1	11.8	11.8	11.8
90°	5.2	5.2	5.9	5.9	6.6	6.6	6.6	7.4	7.4	7.4
92.5°	12.5	12.5	13.3	13.3	13.3	13.3	14.0	14.0	14.0	14.0
95°	134.1	60.4	50.8	30.9	29.5	25.8	25.0	25.8	25.8	25.0
97.5°	450.1	481.8	501.7	511.3	499.5	487.0	473.0	470.7	451.6	408.9
100°	485.5	510.5	534.8	551.8	558.4	564.3	577.6	585.7	589.4	593.0
102.5°	503.2	529.7	551.0	572.4	581.3	589.4	601.1	610.7	614.4	617.3
105°	518.6	545.9	569.5	588.6	596.7	604.1	615.9	624.7	631.3	632.1
107.5°	522.3	551.0	577.6	601.1	610.7	618.8	632.8	639.4	645.3	645.3
110°	528.9	556.2	580.5	601.9	611.5	621.0	635.8	646.1	652.0	653.4



TEST NUMBER: P393823

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	534.1	562.1	584.9	606.3	614.4	623.2	637.2	646.8	652.0	654.2
115°	538.5	565.8	588.6	608.5	617.3	626.2	640.2	648.3	654.2	656.4
117.5°	541.5	568.0	590.8	609.2	618.8	626.2	639.4	648.3	654.2	654.9
120°	542.2	568.7	590.8	609.2	617.3	625.5	638.7	647.6	653.4	653.4
122.5°	542.2	568.0	590.1	607.8	615.1	622.5	635.0	645.3	650.5	650.5
125°	539.3	565.0	586.4	604.1	611.5	618.1	631.3	640.9	646.1	646.8
127.5°	534.8	559.9	581.3	598.9	606.3	612.2	626.2	635.0	640.2	640.9
130°	528.9	554.0	574.6	591.6	598.9	605.6	617.3	626.9	632.8	634.3
132.5°	522.3	545.9	566.5	582.7	590.1	596.0	607.8	617.3	622.5	624.7
135°	514.2	536.3	556.2	572.4	579.8	585.7	596.7	606.3	611.5	613.7
137.5°	503.9	525.3	544.4	560.6	567.3	573.1	584.2	593.0	597.5	600.4
140°	492.1	512.0	531.9	546.6	553.3	559.1	568.7	578.3	582.7	584.9
142.5°	479.6	499.5	517.2	531.9	537.8	543.7	553.3	562.1	566.5	567.3
145°	466.3	485.5	501.7	515.7	520.8	526.7	535.6	544.4	548.8	549.6
147.5°	451.6	469.3	484.7	498.0	503.9	508.3	516.4	524.5	528.9	529.7
150°	434.6	450.9	464.9	478.1	483.3	487.7	496.5	503.9	508.3	509.1
152.5°	418.4	433.9	445.7	457.5	462.6	467.1	474.4	481.8	486.2	487.0
155°	401.5	415.5	427.3	436.9	441.3	445.7	451.6	458.2	461.9	462.6
157.5°	383.8	397.1	407.4	416.2	420.7	424.3	429.5	435.4	437.6	439.1
160°	364.7	375.7	384.6	393.4	397.1	400.8	405.9	410.3	413.3	414.0
162.5°	344.0	353.6	361.0	369.1	371.3	374.2	379.4	383.8	386.0	386.8
165°	322.7	331.5	338.1	344.8	346.2	348.5	352.1	356.6	358.0	359.5
167.5°	301.3	308.7	313.1	319.0	321.2	322.7	326.4	329.3	330.8	331.5
170°	280.7	285.8	289.5	293.9	294.7	296.9	299.1	302.0	302.8	302.8
172.5°	264.5	266.7	268.9	270.4	271.1	271.8	273.3	274.0	274.0	274.0
175°	254.2	255.6	255.6	256.4	256.4	256.4	256.4	256.4	256.4	256.4
177.5°	248.3	248.3	248.3	247.5	247.5	247.5	247.5	246.8	246.8	246.8
180°	246.8	246.8	246.8	246.8	246.8	246.8	246.8	246.8	246.8	246.8

(END OF REPORT)