

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: P393822

Luminaire Tested: **I3-UL-20L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393822  
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-20L840-1D-UNV-STD-W-4  
Description: CORELITE I3, OPEN TOP  
2000 LUMENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

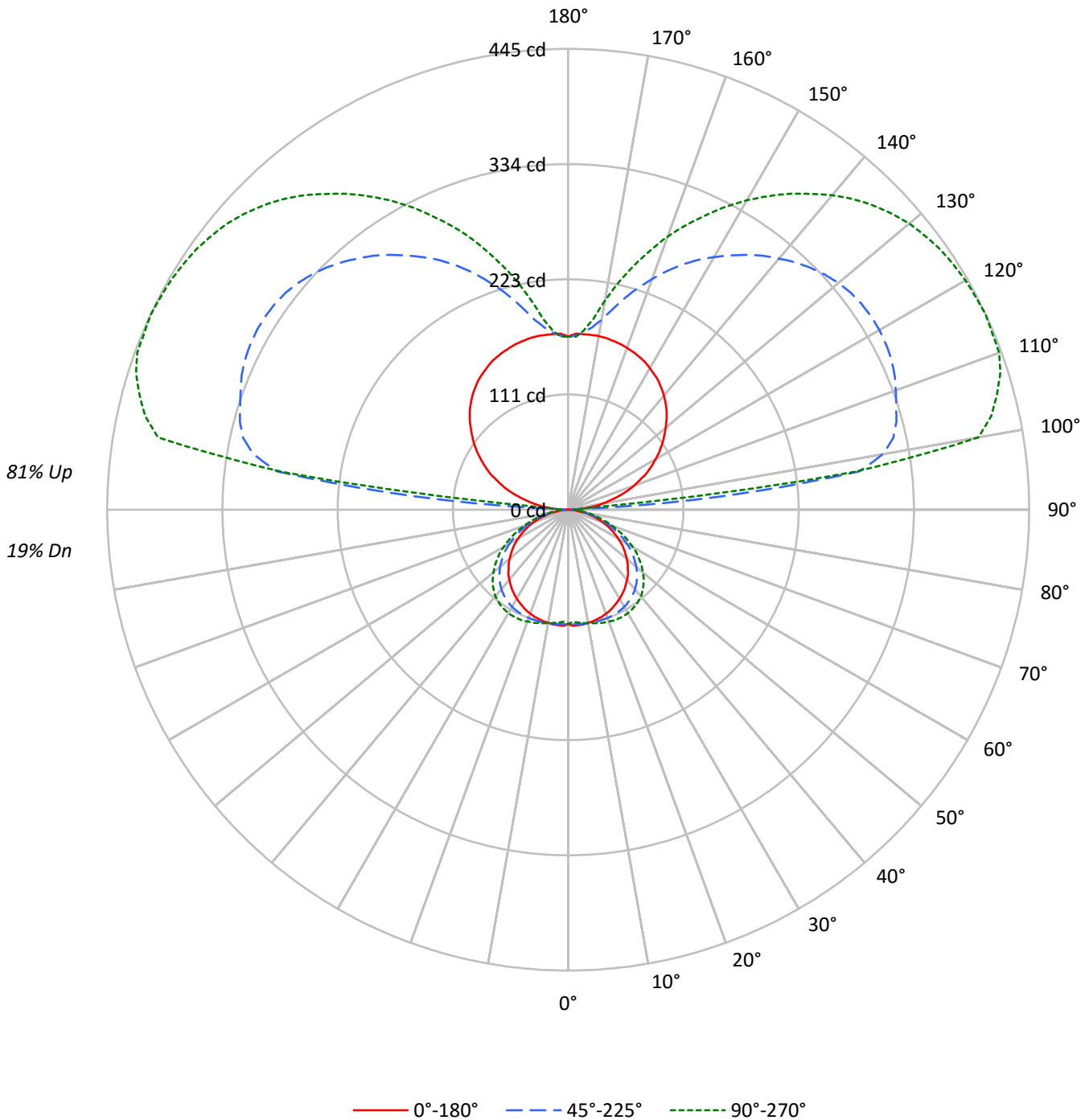
Lumens per Lamp: N/A  
Luminaire Lumens: 2025.6 lumens  
Efficiency: N/A  
Efficacy: 158.2 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')  
CIE Type: Semi-Indirect

Input Watts (W): 12.8  
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





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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°	606	606	606
5°	615	597	586
10°	614	593	587
15°	615	591	592
20°	615	594	599
25°	614	595	608
30°	615	596	614
35°	614	593	616
40°	612	588	613
45°	607	577	599
50°	601	558	577
55°	591	531	545
60°	572	492	501
65°	547	438	447
70°	517	380	377
75°	449	299	302
80°	357	215	219
85°	212	125	144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.6	0.5
10°-20°	31.5	1.6
20°-30°	50.6	2.5
30°-40°	65.2	3.2
40°-50°	71.6	3.5
50°-60°	67.3	3.3
60°-70°	52.2	2.6
70°-80°	30.0	1.5
80°-90°	9.6	0.5
90°-100°	129.5	6.4
100°-110°	307.7	15.2
110°-120°	309.1	15.3
120°-130°	283.5	14.0
130°-140°	237.0	11.7
140°-150°	177.9	8.8
150°-160°	115.8	5.7
160°-170°	59.6	2.9
170°-180°	16.9	0.8
0°-30°	92.7	4.6
0°-40°	157.8	7.8
0°-60°	296.7	14.6
0°-90°	388.5	19.2
90°-120°	746.3	36.8
90°-150°	1444.7	71.3
90°-180°	1637.0	80.8
0°-180°	2025.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	110	110	110	110	110	
5°	112	111	111	110	109	11
15°	109	109	111	113	113	31
25°	103	104	110	114	116	48
35°	94	97	105	111	113	59
45°	81	85	94	101	103	63
55°	65	69	76	82	84	58
65°	46	48	53	57	59	45
75°	24	26	28	31	32	26
85°	5	6	8	10	11	6
90°	0	2	3	4	5	2
95°	18	145	149	20	17	17
105°	50	194	328	404	428	53
115°	83	219	344	418	445	82
125°	111	228	346	414	438	99
135°	134	227	330	393	416	103
145°	152	218	300	353	372	95
155°	163	200	261	299	314	75
165°	169	180	212	235	244	48
175°	170	170	172	174	174	16
180°	167	167	167	167	167	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	112.3	111.8	111.3	111.3	110.8	110.8	110.8	110.3	110.3	110.3	110.8
5°	111.8	111.8	111.3	110.8	110.8	110.8	110.3	110.3	110.3	110.3	110.8
7.5°	111.8	111.3	110.8	110.8	110.3	110.3	110.3	110.3	110.3	110.3	110.8
10°	110.8	110.8	110.3	110.3	109.8	110.3	110.3	110.3	110.3	110.3	111.3
12.5°	110.3	110.3	109.8	109.3	109.3	109.3	109.8	109.8	109.8	110.3	111.3
15°	109.3	109.3	108.8	108.8	108.8	108.8	109.3	109.3	109.8	110.3	111.3
17.5°	108.3	108.3	107.8	107.8	107.8	108.3	108.3	108.8	109.3	110.3	111.3
20°	106.8	106.8	106.8	106.8	106.8	107.3	107.3	107.8	108.8	109.8	111.3
22.5°	105.3	105.3	105.3	105.3	105.3	105.8	106.3	107.3	107.8	109.3	110.8
25°	103.3	103.3	103.3	103.3	103.8	104.3	104.8	105.8	106.8	108.3	110.3
27.5°	101.3	101.8	101.8	101.8	102.3	102.8	103.3	104.3	105.8	107.8	109.3
30°	99.3	99.3	99.3	99.8	100.3	100.8	101.8	102.8	104.3	106.3	108.3
32.5°	96.8	96.8	97.3	97.3	98.3	98.8	99.8	101.3	102.8	104.8	106.8
35°	94.3	94.3	94.3	95.3	95.8	96.8	97.3	98.8	100.8	102.8	104.8
37.5°	91.4	91.9	91.9	92.4	93.4	94.3	94.8	96.8	98.8	100.8	102.8
40°	88.4	88.9	88.9	89.4	90.9	91.4	92.4	94.3	95.8	98.3	100.3
42.5°	85.4	85.4	85.9	86.4	87.9	88.4	89.4	91.4	93.4	95.3	97.3
45°	81.4	81.9	82.4	82.9	84.4	85.4	86.4	87.9	89.9	91.9	93.9
47.5°	77.9	77.9	78.4	79.4	80.9	81.9	82.4	84.4	85.9	87.9	89.9
50°	73.9	74.4	74.4	75.4	76.9	77.9	78.4	80.4	81.9	83.9	85.9
52.5°	69.4	69.9	70.4	71.4	72.9	73.9	74.4	75.9	77.4	79.4	80.9
55°	65.4	65.9	65.9	66.9	68.4	68.9	69.9	70.9	72.9	74.4	76.4
57.5°	60.9	61.4	61.4	62.4	63.4	64.4	64.9	66.4	67.9	69.4	70.9
60°	55.9	56.4	56.9	57.4	58.4	59.4	59.9	60.9	62.4	63.9	65.4
62.5°	50.9	51.4	51.9	52.4	53.4	53.9	54.4	55.9	56.9	58.4	59.4
65°	45.9	46.4	46.9	47.4	47.9	48.4	48.9	49.9	50.9	52.4	52.9
67.5°	40.9	41.4	41.4	41.9	42.4	42.9	43.4	44.4	44.9	46.4	46.9
70°	35.9	35.9	35.9	36.4	36.4	36.9	37.4	38.4	38.9	39.9	40.9
72.5°	30.0	30.5	30.5	30.5	31.0	31.4	31.9	32.4	32.9	33.4	34.4
75°	24.5	25.0	24.5	25.0	25.5	25.5	26.0	26.5	27.0	27.5	28.0
77.5°	19.5	19.0	19.5	19.5	20.0	20.0	20.0	20.5	21.5	21.5	22.5
80°	14.0	14.0	14.0	14.0	14.5	14.5	15.0	15.0	16.0	16.5	17.0
82.5°	9.0	9.0	9.5	9.5	9.5	10.0	10.0	10.5	11.0	11.5	12.0
85°	5.0	5.0	5.0	5.5	5.5	6.0	6.0	6.5	7.0	7.5	8.0
87.5°	1.5	2.0	2.5	2.5	3.0	3.0	3.5	3.5	4.5	5.0	5.5
90°	0.5	0.5	1.0	1.0	1.0	1.5	1.5	2.0	2.0	2.5	3.0
92.5°	8.5	20.0	41.4	61.9	53.4	49.9	30.0	9.0	8.0	8.5	8.5
95°	17.5	32.9	60.4	97.8	126.8	144.8	156.8	179.7	203.2	199.2	148.8
97.5°	25.5	42.4	72.9	107.3	147.3	167.7	183.2	210.7	240.6	265.6	283.5
100°	33.4	50.9	83.4	119.3	156.3	174.7	192.7	230.1	259.6	284.5	308.5
102.5°	41.9	59.4	92.9	130.3	166.7	184.7	202.2	235.1	268.1	298.0	321.5
105°	50.4	68.4	101.3	139.8	176.2	194.2	211.2	242.6	273.1	301.0	328.0
107.5°	59.4	76.4	108.8	147.3	183.7	201.7	218.7	250.1	279.6	307.5	332.0
110°	67.4	83.9	116.3	154.3	190.7	208.7	225.6	257.1	286.0	312.5	336.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	74.9	90.9	123.3	160.2	196.2	214.2	230.6	262.1	291.0	317.0	341.0
115°	83.4	97.3	130.3	165.7	201.2	218.7	235.1	266.1	295.0	320.5	344.0
117.5°	90.4	103.8	136.3	170.2	205.2	222.1	238.1	269.1	297.5	323.0	345.9
120°	97.3	109.8	141.8	174.2	208.2	224.6	240.6	271.1	299.5	324.5	346.9
122.5°	104.3	115.8	146.3	178.2	210.7	227.1	242.6	272.6	300.5	325.0	346.9
125°	110.8	120.8	150.3	181.2	212.2	228.1	243.1	272.6	300.0	324.0	345.9
127.5°	116.8	126.3	153.3	184.2	213.2	228.6	243.1	271.6	299.0	322.5	344.0
130°	122.8	131.3	156.3	185.7	214.2	228.1	242.1	269.6	296.5	320.0	340.5
132.5°	128.8	136.8	158.7	187.2	214.7	228.1	241.1	267.6	293.5	316.5	336.0
135°	134.3	140.8	161.2	188.2	214.2	227.1	239.1	264.1	289.0	311.5	330.5
137.5°	139.3	144.8	163.2	188.7	213.7	225.6	237.6	260.1	283.5	305.5	324.0
140°	143.8	148.8	164.2	188.7	211.7	223.6	234.6	256.1	277.6	298.5	316.5
142.5°	147.8	152.3	165.7	187.7	209.7	221.1	231.6	252.1	271.6	291.5	309.0
145°	151.8	155.3	166.7	187.2	207.2	217.7	227.6	247.1	266.1	284.0	300.5
147.5°	154.8	158.2	167.7	185.2	204.2	213.7	223.1	241.6	259.1	276.1	291.0
150°	157.7	160.7	168.2	183.2	200.7	209.2	217.7	235.1	252.1	267.6	281.6
152.5°	160.7	162.7	169.7	181.2	196.7	204.7	213.2	228.6	244.1	258.6	272.1
155°	162.7	164.2	170.2	179.2	192.7	199.7	206.7	221.1	235.1	248.6	261.1
157.5°	164.7	166.2	170.7	177.7	188.2	194.7	200.7	213.2	226.1	238.1	249.6
160°	166.2	167.2	170.7	176.7	184.2	188.7	194.2	205.7	216.7	227.1	237.1
162.5°	167.7	168.2	170.7	175.2	180.7	183.7	187.7	196.7	206.7	215.7	224.6
165°	168.7	169.2	170.7	174.2	177.7	180.2	182.2	188.7	196.2	204.2	211.7
167.5°	169.7	169.7	170.7	173.2	175.2	176.7	178.2	181.7	186.7	192.7	198.2
170°	170.2	170.2	170.7	172.2	173.7	174.2	175.2	177.2	179.7	182.7	186.2
172.5°	170.2	170.2	170.2	171.2	171.7	171.7	171.7	172.7	174.2	176.2	177.7
175°	170.2	169.7	169.7	170.2	169.7	169.7	169.7	169.7	170.2	171.2	171.7
177.5°	170.2	169.7	169.2	169.2	168.7	168.7	168.2	168.2	168.2	168.2	168.2
180°	167.2	167.2	167.2	167.2	167.2	167.2	167.2	167.2	167.2	167.2	167.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3	110.3
2.5°	110.8	110.8	110.3	109.8	109.8	109.8	109.3	108.8	108.3	108.3
5°	110.8	110.8	110.3	110.3	110.3	110.3	109.8	109.8	109.3	109.3
7.5°	111.3	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.3	110.3
10°	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3	111.3
12.5°	111.8	111.8	111.8	111.8	112.3	112.3	112.3	112.3	112.3	112.3
15°	111.8	112.3	112.8	112.8	112.8	113.3	113.3	113.3	113.3	113.3
17.5°	112.3	112.8	113.3	113.3	113.8	113.8	114.3	114.3	114.3	114.3
20°	112.3	112.8	113.3	113.8	114.3	114.3	114.8	115.3	115.3	114.8
22.5°	111.8	112.8	113.3	113.8	114.3	114.8	115.3	115.8	115.8	115.8
25°	111.3	112.3	113.3	114.3	114.3	114.8	115.8	115.8	115.8	115.8
27.5°	110.8	111.8	112.8	113.8	114.3	114.8	115.3	115.8	115.8	115.8
30°	109.8	111.3	112.3	113.3	113.8	114.3	114.8	115.3	115.3	115.3
32.5°	108.3	109.8	110.8	112.3	112.8	113.3	113.8	114.3	114.3	114.3
35°	106.8	108.3	109.3	110.8	111.3	111.8	112.8	112.8	113.3	113.3
37.5°	104.3	106.3	107.3	108.8	109.3	109.8	110.8	111.3	111.3	111.3
40°	101.8	103.8	104.8	106.3	106.8	107.3	108.3	108.8	109.3	109.3
42.5°	98.8	100.8	101.8	103.3	103.8	104.3	105.3	105.8	106.3	106.3
45°	95.8	97.3	98.3	99.8	100.8	100.8	101.8	102.3	102.8	102.8
47.5°	91.9	93.4	94.3	95.8	96.8	97.3	97.8	98.3	98.8	98.8
50°	87.4	88.9	90.4	91.4	92.4	92.4	93.4	93.9	94.3	94.3
52.5°	82.9	83.9	85.4	86.9	87.4	87.9	88.4	88.9	89.4	89.4
55°	77.9	78.9	80.4	81.4	81.9	82.4	82.9	83.4	83.9	83.9
57.5°	72.4	73.4	74.9	75.9	76.4	76.9	77.4	77.9	78.4	78.4
60°	66.4	67.4	68.9	69.9	70.4	70.4	71.4	71.9	71.9	71.9
62.5°	60.4	61.4	62.4	63.4	63.9	64.4	64.9	65.4	65.4	65.4
65°	54.4	55.4	56.4	56.9	57.4	57.4	57.9	58.4	58.9	58.9
67.5°	47.9	48.9	49.9	50.4	50.9	50.9	51.4	51.9	51.9	51.9
70°	41.4	41.9	42.9	43.4	43.9	43.9	44.9	44.9	44.9	44.9
72.5°	34.9	35.4	36.4	36.9	37.4	37.4	37.9	38.4	38.4	38.4
75°	29.0	29.5	30.0	31.0	31.0	31.0	31.4	31.9	31.9	31.9
77.5°	23.0	23.5	24.0	24.5	25.0	25.0	25.5	26.0	26.0	26.0
80°	17.5	18.0	18.5	19.0	19.0	19.5	19.5	20.0	20.0	20.0
82.5°	12.5	13.0	13.5	14.0	14.5	14.5	15.0	15.5	15.5	15.0
85°	8.5	9.5	10.0	10.5	10.5	10.5	11.0	11.5	11.5	11.0
87.5°	6.0	6.0	6.5	7.0	7.0	7.5	7.5	8.0	8.0	8.0
90°	3.5	3.5	4.0	4.0	4.5	4.5	4.5	5.0	5.0	5.0
92.5°	8.5	8.5	9.0	9.0	9.0	9.0	9.5	9.5	9.5	9.5
95°	90.9	40.9	34.4	21.0	20.0	17.5	17.0	17.5	17.5	17.0
97.5°	305.0	326.5	340.0	346.4	338.5	330.0	320.5	319.0	306.0	277.1
100°	329.0	345.9	362.4	373.9	378.4	382.4	391.4	396.9	399.4	401.9
102.5°	341.0	358.9	373.4	387.9	393.9	399.4	407.4	413.8	416.3	418.3
105°	351.4	369.9	385.9	398.9	404.4	409.3	417.3	423.3	427.8	428.3
107.5°	353.9	373.4	391.4	407.4	413.8	419.3	428.8	433.3	437.3	437.3
110°	358.4	376.9	393.4	407.9	414.3	420.8	430.8	437.8	441.8	442.8





TEST NUMBER: P393822

CATALOG NUMBER: I3-UL-20L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	361.9	380.9	396.4	410.8	416.3	422.3	431.8	438.3	441.8	443.3
115°	364.9	383.4	398.9	412.3	418.3	424.3	433.8	439.3	443.3	444.8
117.5°	366.9	384.9	400.4	412.8	419.3	424.3	433.3	439.3	443.3	443.8
120°	367.4	385.4	400.4	412.8	418.3	423.8	432.8	438.8	442.8	442.8
122.5°	367.4	384.9	399.9	411.8	416.8	421.8	430.3	437.3	440.8	440.8
125°	365.4	382.9	397.4	409.3	414.3	418.8	427.8	434.3	437.8	438.3
127.5°	362.4	379.4	393.9	405.9	410.8	414.8	424.3	430.3	433.8	434.3
130°	358.4	375.4	389.4	400.9	405.9	410.3	418.3	424.8	428.8	429.8
132.5°	353.9	369.9	383.9	394.9	399.9	403.9	411.8	418.3	421.8	423.3
135°	348.4	363.4	376.9	387.9	392.9	396.9	404.4	410.8	414.3	415.8
137.5°	341.5	355.9	368.9	379.9	384.4	388.4	395.9	401.9	404.9	406.9
140°	333.5	346.9	360.4	370.4	374.9	378.9	385.4	391.9	394.9	396.4
142.5°	325.0	338.5	350.4	360.4	364.4	368.4	374.9	380.9	383.9	384.4
145°	316.0	329.0	340.0	349.4	352.9	356.9	362.9	368.9	371.9	372.4
147.5°	306.0	318.0	328.5	337.5	341.5	344.5	349.9	355.4	358.4	358.9
150°	294.5	305.5	315.0	324.0	327.5	330.5	336.5	341.5	344.5	345.0
152.5°	283.5	294.0	302.0	310.0	313.5	316.5	321.5	326.5	329.5	330.0
155°	272.1	281.6	289.5	296.0	299.0	302.0	306.0	310.5	313.0	313.5
157.5°	260.1	269.1	276.1	282.1	285.0	287.5	291.0	295.0	296.5	297.5
160°	247.1	254.6	260.6	266.6	269.1	271.6	275.1	278.1	280.1	280.6
162.5°	233.1	239.6	244.6	250.1	251.6	253.6	257.1	260.1	261.6	262.1
165°	218.7	224.6	229.1	233.6	234.6	236.1	238.6	241.6	242.6	243.6
167.5°	204.2	209.2	212.2	216.2	217.7	218.7	221.1	223.1	224.1	224.6
170°	190.2	193.7	196.2	199.2	199.7	201.2	202.7	204.7	205.2	205.2
172.5°	179.2	180.7	182.2	183.2	183.7	184.2	185.2	185.7	185.7	185.7
175°	172.2	173.2	173.2	173.7	173.7	173.7	173.7	173.7	173.7	173.7
177.5°	168.2	168.2	168.2	167.7	167.7	167.7	167.7	167.2	167.2	167.2
180°	167.2	167.2	167.2	167.2	167.2	167.2	167.2	167.2	167.2	167.2

(END OF REPORT)