

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: P395652

Luminaire Tested: **I3-UL-20L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395652  
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-20L82765-1D-UNV-W2A-W-4 (5700K)  
Description: CORELITE I3, OPEN TOP  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2458.6 lumens  
Efficiency: N/A  
Efficacy: 147.2 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

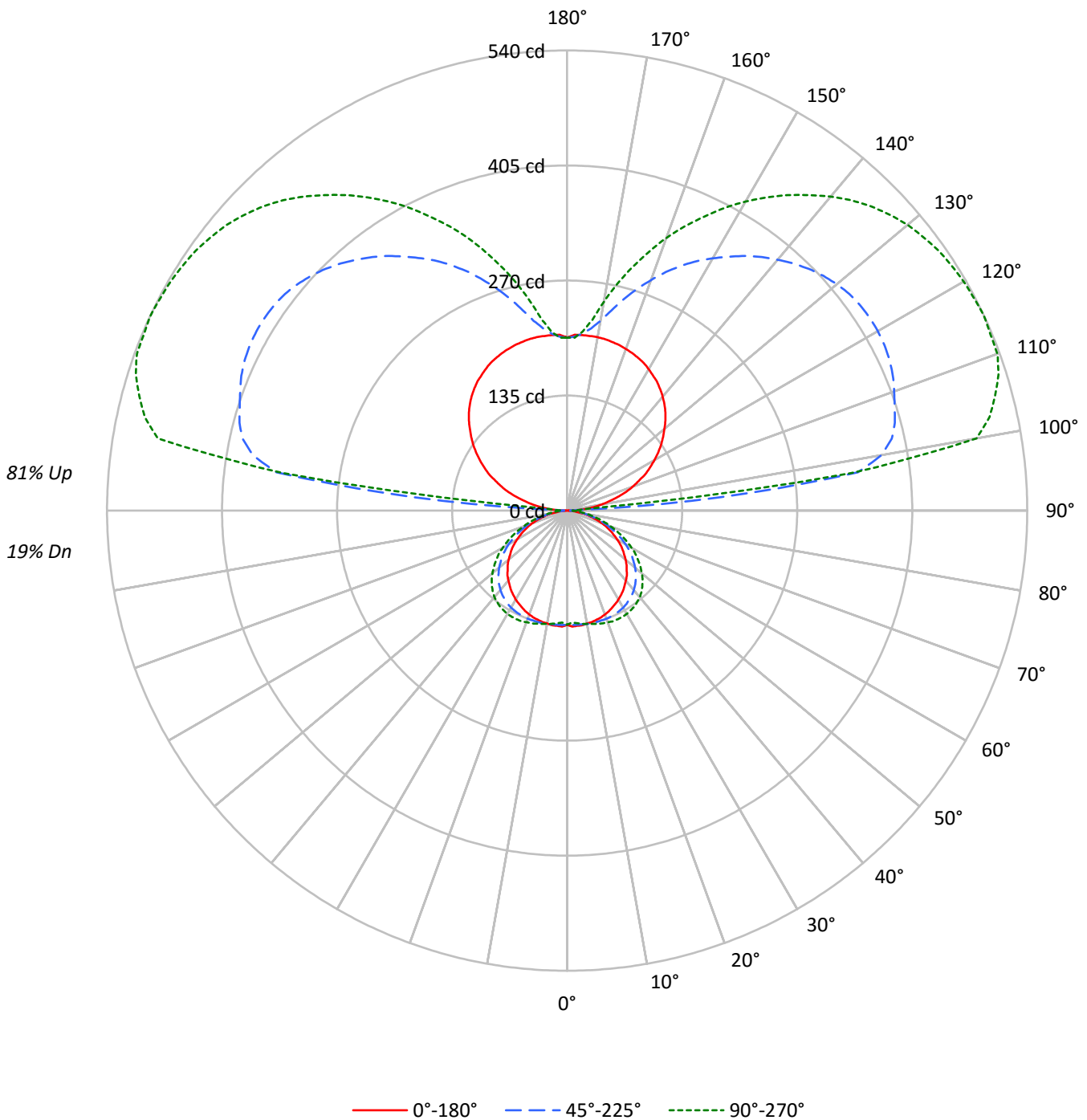
Input Watts (W): 16.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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°	736	736	736
5°	746	725	711
10°	745	720	712
15°	747	718	718
20°	747	721	727
25°	746	723	738
30°	747	724	745
35°	746	720	748
40°	743	715	744
45°	737	699	728
50°	730	677	701
55°	717	644	661
60°	695	598	608
65°	664	532	542
70°	627	462	457
75°	544	361	367
80°	433	260	265
85°	259	151	174



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CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.8	0.5
10°-20°	38.2	1.6
20°-30°	61.5	2.5
30°-40°	79.1	3.2
40°-50°	86.9	3.5
50°-60°	81.7	3.3
60°-70°	63.4	2.6
70°-80°	36.4	1.5
80°-90°	11.7	0.5
90°-100°	157.2	6.4
100°-110°	373.5	15.2
110°-120°	375.2	15.3
120°-130°	344.1	14.0
130°-140°	287.7	11.7
140°-150°	215.9	8.8
150°-160°	140.6	5.7
160°-170°	72.4	2.9
170°-180°	20.5	0.8
0°-30°	112.5	4.6
0°-40°	191.6	7.8
0°-60°	360.1	14.6
0°-90°	471.6	19.2
90°-120°	905.8	36.8
90°-150°	1753.5	71.3
90°-180°	1987.0	80.8
0°-180°	2458.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	134	134	134	134	134	
5°	136	134	134	134	133	13
15°	133	132	135	137	138	38
25°	125	127	134	139	141	58
35°	114	118	127	135	138	72
45°	99	104	114	122	125	76
55°	79	84	93	99	102	71
65°	56	59	64	70	72	55
75°	30	31	34	38	39	32
85°	6	7	10	13	13	7
90°	1	2	4	6	6	2
95°	21	176	181	24	21	21
105°	61	236	398	491	520	65
115°	101	265	418	508	540	99
125°	134	277	420	503	532	120
135°	163	276	401	477	505	126
145°	184	264	365	428	452	115
155°	198	242	317	363	380	91
165°	205	219	257	285	296	58
175°	207	206	208	211	211	20
180°	203	203	203	203	203	



TEST NUMBER: P395652

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9
2.5°	136.3	135.7	135.1	135.1	134.5	134.5	134.5	133.9	133.9	133.9	134.5
5°	135.7	135.7	135.1	134.5	134.5	134.5	133.9	133.9	133.9	133.9	134.5
7.5°	135.7	135.1	134.5	134.5	133.9	133.9	133.9	133.9	133.9	133.9	134.5
10°	134.5	134.5	133.9	133.9	133.3	133.9	133.9	133.9	133.9	133.9	135.1
12.5°	133.9	133.9	133.3	132.7	132.7	132.7	133.3	133.3	133.3	133.9	135.1
15°	132.7	132.7	132.1	132.1	132.1	132.1	132.7	132.7	133.3	133.9	135.1
17.5°	131.5	131.5	130.9	130.9	130.9	131.5	131.5	132.1	132.7	133.9	135.1
20°	129.7	129.7	129.7	129.7	129.7	130.3	130.3	130.9	132.1	133.3	135.1
22.5°	127.8	127.8	127.8	127.8	127.8	128.5	129.1	130.3	130.9	132.7	134.5
25°	125.4	125.4	125.4	125.4	126.0	126.6	127.2	128.5	129.7	131.5	133.9
27.5°	123.0	123.6	123.6	123.6	124.2	124.8	125.4	126.6	128.5	130.9	132.7
30°	120.6	120.6	120.6	121.2	121.8	122.4	123.6	124.8	126.6	129.1	131.5
32.5°	117.5	117.5	118.2	118.2	119.4	120.0	121.2	123.0	124.8	127.2	129.7
35°	114.5	114.5	114.5	115.7	116.3	117.5	118.2	120.0	122.4	124.8	127.2
37.5°	110.9	111.5	111.5	112.1	113.3	114.5	115.1	117.5	120.0	122.4	124.8
40°	107.2	107.9	107.9	108.5	110.3	110.9	112.1	114.5	116.3	119.4	121.8
42.5°	103.6	103.6	104.2	104.8	106.6	107.2	108.5	110.9	113.3	115.7	118.2
45°	98.8	99.4	100.0	100.6	102.4	103.6	104.8	106.6	109.1	111.5	113.9
47.5°	94.5	94.5	95.1	96.3	98.2	99.4	100.0	102.4	104.2	106.6	109.1
50°	89.7	90.3	90.3	91.5	93.3	94.5	95.1	97.6	99.4	101.8	104.2
52.5°	84.2	84.8	85.4	86.6	88.5	89.7	90.3	92.1	93.9	96.3	98.2
55°	79.4	80.0	80.0	81.2	83.0	83.6	84.8	86.0	88.5	90.3	92.7
57.5°	73.9	74.5	74.5	75.7	77.0	78.2	78.8	80.6	82.4	84.2	86.0
60°	67.9	68.5	69.1	69.7	70.9	72.1	72.7	73.9	75.7	77.6	79.4
62.5°	61.8	62.4	63.0	63.6	64.8	65.4	66.0	67.9	69.1	70.9	72.1
65°	55.7	56.4	57.0	57.6	58.2	58.8	59.4	60.6	61.8	63.6	64.2
67.5°	49.7	50.3	50.3	50.9	51.5	52.1	52.7	53.9	54.5	56.4	57.0
70°	43.6	43.6	43.6	44.2	44.2	44.8	45.4	46.7	47.3	48.5	49.7
72.5°	36.4	37.0	37.0	37.0	37.6	38.2	38.8	39.4	40.0	40.6	41.8
75°	29.7	30.3	29.7	30.3	30.9	30.9	31.5	32.1	32.7	33.3	33.9
77.5°	23.6	23.0	23.6	23.6	24.2	24.2	24.2	24.8	26.1	26.1	27.3
80°	17.0	17.0	17.0	17.0	17.6	17.6	18.2	18.2	19.4	20.0	20.6
82.5°	10.9	10.9	11.5	11.5	11.5	12.1	12.1	12.7	13.3	13.9	14.5
85°	6.1	6.1	6.1	6.7	6.7	7.3	7.3	7.9	8.5	9.1	9.7
87.5°	1.8	2.4	3.0	3.0	3.6	3.6	4.2	4.2	5.5	6.1	6.7
90°	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	2.4	3.0	3.6
92.5°	10.3	24.2	50.3	75.1	64.8	60.6	36.4	10.9	9.7	10.3	10.3
95°	21.2	40.0	73.3	118.8	153.9	175.7	190.3	218.1	246.6	241.8	180.6
97.5°	30.9	51.5	88.5	130.3	178.7	203.6	222.4	255.7	292.1	322.3	344.2
100°	40.6	61.8	101.2	144.8	189.7	212.1	233.9	279.3	315.1	345.4	374.5
102.5°	50.9	72.1	112.7	158.1	202.4	224.2	245.4	285.4	325.4	361.7	390.2
105°	61.2	83.0	123.0	169.7	213.9	235.7	256.3	294.5	331.4	365.4	398.1
107.5°	72.1	92.7	132.1	178.7	223.0	244.8	265.4	303.6	339.3	373.2	402.9
110°	81.8	101.8	141.2	187.2	231.5	253.3	273.9	312.0	347.2	379.3	408.4



TEST NUMBER: P395652

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	90.9	110.3	149.7	194.5	238.1	259.9	279.9	318.1	353.2	384.8	413.8
115°	101.2	118.2	158.1	201.2	244.2	265.4	285.4	323.0	358.1	389.0	417.5
117.5°	109.7	126.0	165.4	206.6	249.0	269.6	289.0	326.6	361.1	392.0	419.9
120°	118.2	133.3	172.1	211.5	252.7	272.7	292.1	329.0	363.6	393.8	421.1
122.5°	126.6	140.6	177.5	216.3	255.7	275.7	294.5	330.8	364.8	394.5	421.1
125°	134.5	146.6	182.4	219.9	257.5	276.9	295.1	330.8	364.2	393.2	419.9
127.5°	141.8	153.3	186.0	223.6	258.7	277.5	295.1	329.6	362.9	391.4	417.5
130°	149.1	159.4	189.7	225.4	259.9	276.9	293.9	327.2	359.9	388.4	413.2
132.5°	156.3	166.0	192.7	227.2	260.5	276.9	292.7	324.8	356.3	384.2	407.8
135°	163.0	170.9	195.7	228.4	259.9	275.7	290.2	320.5	350.8	378.1	401.1
137.5°	169.1	175.7	198.1	229.0	259.3	273.9	288.4	315.7	344.2	370.8	393.2
140°	174.5	180.6	199.3	229.0	256.9	271.5	284.8	310.8	336.9	362.3	384.2
142.5°	179.4	184.8	201.2	227.8	254.5	268.4	281.1	306.0	329.6	353.9	375.1
145°	184.2	188.4	202.4	227.2	251.5	264.2	276.3	299.9	323.0	344.8	364.8
147.5°	187.8	192.1	203.6	224.8	247.8	259.3	270.8	293.3	314.5	335.1	353.2
150°	191.5	195.1	204.2	222.4	243.6	253.9	264.2	285.4	306.0	324.8	341.7
152.5°	195.1	197.5	206.0	219.9	238.7	248.4	258.7	277.5	296.3	313.9	330.2
155°	197.5	199.3	206.6	217.5	233.9	242.4	250.8	268.4	285.4	301.7	316.9
157.5°	200.0	201.8	207.2	215.7	228.4	236.3	243.6	258.7	274.5	289.0	303.0
160°	201.8	203.0	207.2	214.5	223.6	229.0	235.7	249.6	263.0	275.7	287.8
162.5°	203.6	204.2	207.2	212.7	219.3	223.0	227.8	238.7	250.8	261.8	272.7
165°	204.8	205.4	207.2	211.5	215.7	218.7	221.2	229.0	238.1	247.8	256.9
167.5°	206.0	206.0	207.2	210.3	212.7	214.5	216.3	220.6	226.6	233.9	240.5
170°	206.6	206.6	207.2	209.0	210.9	211.5	212.7	215.1	218.1	221.8	226.0
172.5°	206.6	206.6	206.6	207.8	208.4	208.4	208.4	209.6	211.5	213.9	215.7
175°	206.6	206.0	206.0	206.6	206.0	206.0	206.0	206.0	206.6	207.8	208.4
177.5°	206.6	206.0	205.4	205.4	204.8	204.8	204.2	204.2	204.2	204.2	204.2
180°	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9
2.5°	134.5	134.5	133.9	133.3	133.3	133.3	132.7	132.1	131.5	131.5
5°	134.5	134.5	133.9	133.9	133.9	133.9	133.3	133.3	132.7	132.7
7.5°	135.1	134.5	134.5	134.5	134.5	134.5	134.5	134.5	133.9	133.9
10°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1	135.1
12.5°	135.7	135.7	135.7	135.7	136.3	136.3	136.3	136.3	136.3	136.3
15°	135.7	136.3	136.9	136.9	136.9	137.5	137.5	137.5	137.5	137.5
17.5°	136.3	136.9	137.5	137.5	138.1	138.1	138.8	138.8	138.8	138.8
20°	136.3	136.9	137.5	138.1	138.8	138.8	139.4	140.0	140.0	139.4
22.5°	135.7	136.9	137.5	138.1	138.8	139.4	140.0	140.6	140.6	140.6
25°	135.1	136.3	137.5	138.8	138.8	139.4	140.6	140.6	140.6	140.6
27.5°	134.5	135.7	136.9	138.1	138.8	139.4	140.0	140.6	140.6	140.6
30°	133.3	135.1	136.3	137.5	138.1	138.8	139.4	140.0	140.0	140.0
32.5°	131.5	133.3	134.5	136.3	136.9	137.5	138.1	138.8	138.8	138.8
35°	129.7	131.5	132.7	134.5	135.1	135.7	136.9	136.9	137.5	137.5
37.5°	126.6	129.1	130.3	132.1	132.7	133.3	134.5	135.1	135.1	135.1
40°	123.6	126.0	127.2	129.1	129.7	130.3	131.5	132.1	132.7	132.7
42.5°	120.0	122.4	123.6	125.4	126.0	126.6	127.8	128.5	129.1	129.1
45°	116.3	118.2	119.4	121.2	122.4	122.4	123.6	124.2	124.8	124.8
47.5°	111.5	113.3	114.5	116.3	117.5	118.2	118.8	119.4	120.0	120.0
50°	106.0	107.9	109.7	110.9	112.1	112.1	113.3	113.9	114.5	114.5
52.5°	100.6	101.8	103.6	105.4	106.0	106.6	107.2	107.9	108.5	108.5
55°	94.5	95.7	97.6	98.8	99.4	100.0	100.6	101.2	101.8	101.8
57.5°	87.9	89.1	90.9	92.1	92.7	93.3	93.9	94.5	95.1	95.1
60°	80.6	81.8	83.6	84.8	85.4	85.4	86.6	87.3	87.3	87.3
62.5°	73.3	74.5	75.7	77.0	77.6	78.2	78.8	79.4	79.4	79.4
65°	66.0	67.3	68.5	69.1	69.7	69.7	70.3	70.9	71.5	71.5
67.5°	58.2	59.4	60.6	61.2	61.8	61.8	62.4	63.0	63.0	63.0
70°	50.3	50.9	52.1	52.7	53.3	53.3	54.5	54.5	54.5	54.5
72.5°	42.4	43.0	44.2	44.8	45.4	45.4	46.0	46.7	46.7	46.7
75°	35.1	35.7	36.4	37.6	37.6	37.6	38.2	38.8	38.8	38.8
77.5°	27.9	28.5	29.1	29.7	30.3	30.3	30.9	31.5	31.5	31.5
80°	21.2	21.8	22.4	23.0	23.0	23.6	23.6	24.2	24.2	24.2
82.5°	15.1	15.8	16.4	17.0	17.6	17.6	18.2	18.8	18.8	18.2
85°	10.3	11.5	12.1	12.7	12.7	12.7	13.3	13.9	13.9	13.3
87.5°	7.3	7.3	7.9	8.5	8.5	9.1	9.1	9.7	9.7	9.7
90°	4.2	4.2	4.8	4.8	5.5	5.5	5.5	6.1	6.1	6.1
92.5°	10.3	10.3	10.9	10.9	10.9	10.9	11.5	11.5	11.5	11.5
95°	110.3	49.7	41.8	25.4	24.2	21.2	20.6	21.2	21.2	20.6
97.5°	370.2	396.3	412.6	420.5	410.8	400.5	389.0	387.2	371.4	336.3
100°	399.3	419.9	439.9	453.8	459.3	464.1	475.0	481.7	484.7	487.8
102.5°	413.8	435.7	453.2	470.8	478.1	484.7	494.4	502.3	505.3	507.8
105°	426.6	449.0	468.4	484.1	490.8	496.9	506.5	513.8	519.3	519.9
107.5°	429.6	453.2	475.0	494.4	502.3	509.0	520.5	525.9	530.8	530.8
110°	435.0	457.5	477.5	495.0	502.9	510.8	522.9	531.4	536.2	537.4





TEST NUMBER: P395652

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	439.3	462.3	481.1	498.7	505.3	512.6	524.1	532.0	536.2	538.1
115°	442.9	465.3	484.1	500.5	507.8	515.0	526.5	533.2	538.1	539.9
117.5°	445.3	467.2	485.9	501.1	509.0	515.0	525.9	533.2	538.1	538.7
120°	446.0	467.8	485.9	501.1	507.8	514.4	525.3	532.6	537.4	537.4
122.5°	446.0	467.2	485.3	499.9	505.9	512.0	522.3	530.8	535.0	535.0
125°	443.5	464.7	482.3	496.9	502.9	508.4	519.3	527.1	531.4	532.0
127.5°	439.9	460.5	478.1	492.6	498.7	503.5	515.0	522.3	526.5	527.1
130°	435.0	455.6	472.6	486.6	492.6	498.1	507.8	515.6	520.5	521.7
132.5°	429.6	449.0	466.0	479.3	485.3	490.2	499.9	507.8	512.0	513.8
135°	422.9	441.1	457.5	470.8	476.9	481.7	490.8	498.7	502.9	504.7
137.5°	414.4	432.0	447.8	461.1	466.6	471.4	480.5	487.8	491.4	493.8
140°	404.8	421.1	437.5	449.6	455.0	459.9	467.8	475.6	479.3	481.1
142.5°	394.5	410.8	425.4	437.5	442.3	447.2	455.0	462.3	466.0	466.6
145°	383.5	399.3	412.6	424.1	428.4	433.2	440.5	447.8	451.4	452.0
147.5°	371.4	386.0	398.7	409.6	414.4	418.1	424.7	431.4	435.0	435.7
150°	357.5	370.8	382.3	393.2	397.5	401.1	408.4	414.4	418.1	418.7
152.5°	344.2	356.9	366.6	376.3	380.5	384.2	390.2	396.3	399.9	400.5
155°	330.2	341.7	351.4	359.3	362.9	366.6	371.4	376.9	379.9	380.5
157.5°	315.7	326.6	335.1	342.3	346.0	349.0	353.2	358.1	359.9	361.1
160°	299.9	309.0	316.3	323.6	326.6	329.6	333.9	337.5	339.9	340.5
162.5°	283.0	290.8	296.9	303.6	305.4	307.8	312.0	315.7	317.5	318.1
165°	265.4	272.7	278.1	283.6	284.8	286.6	289.6	293.3	294.5	295.7
167.5°	247.8	253.9	257.5	262.4	264.2	265.4	268.4	270.8	272.1	272.7
170°	230.9	235.1	238.1	241.8	242.4	244.2	246.0	248.4	249.0	249.0
172.5°	217.5	219.3	221.2	222.4	223.0	223.6	224.8	225.4	225.4	225.4
175°	209.0	210.3	210.3	210.9	210.9	210.9	210.9	210.9	210.9	210.9
177.5°	204.2	204.2	204.2	203.6	203.6	203.6	203.6	203.0	203.0	203.0
180°	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0

(END OF REPORT)