

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: P395653

Luminaire Tested: **I3-UL-20L82765-1D-UNV-W2A-W-4 (6500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395653
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 (6500K)
Description: CORELITE I3, OPEN TOP
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2463.3 lumens
Efficiency: N/A
Efficacy: 145.8 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

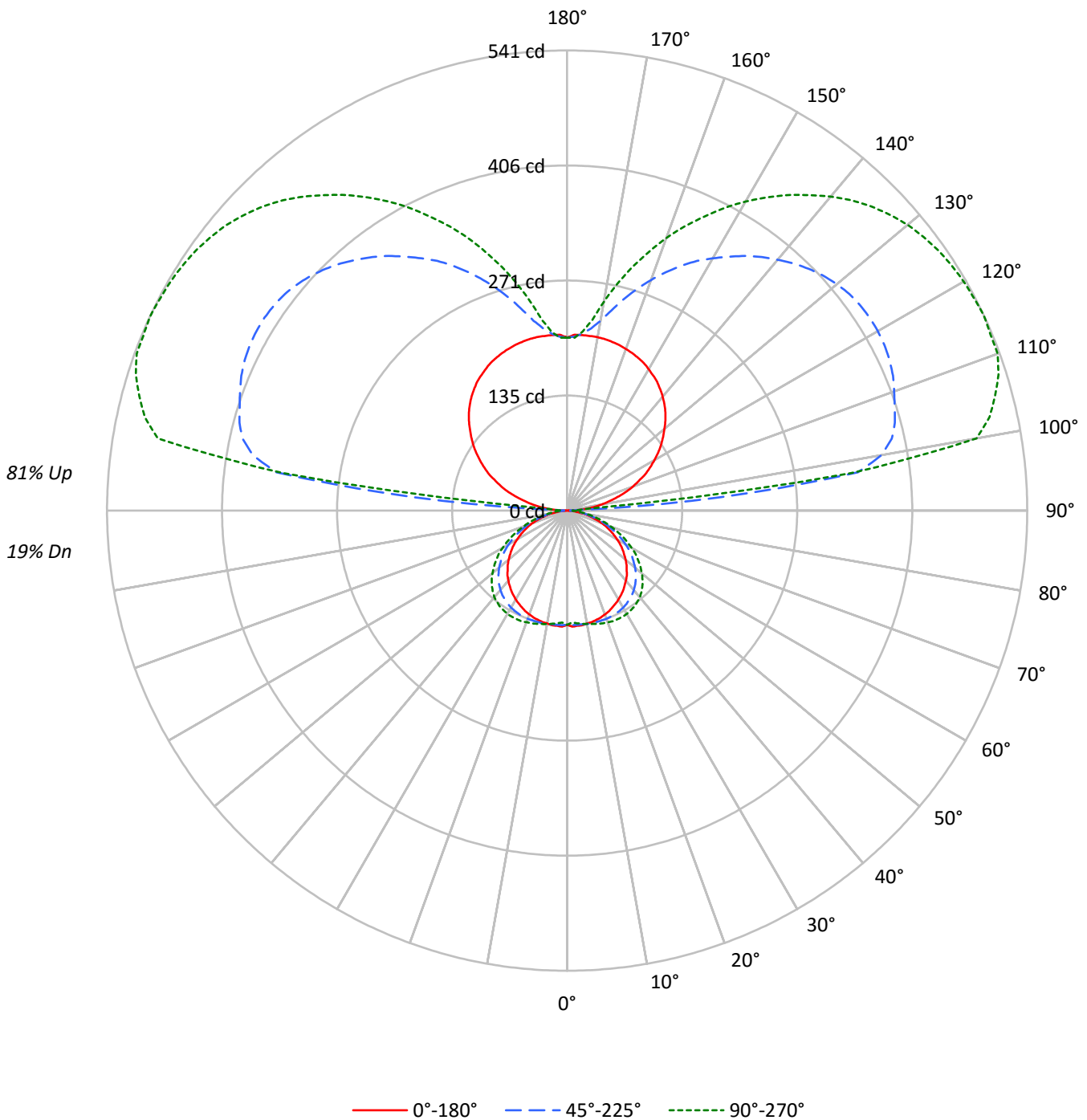
Input Watts (W): 16.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	738	738	738
5°	748	727	713
10°	747	722	714
15°	748	719	720
20°	748	722	728
25°	747	724	739
30°	748	725	746
35°	747	721	750
40°	745	716	746
45°	738	701	729
50°	731	678	702
55°	718	645	662
60°	696	598	609
65°	666	533	543
70°	629	463	458
75°	544	362	368
80°	433	260	266
85°	259	151	176



TEST NUMBER: P395653

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	0.5
10°-20°	38.3	1.6
20°-30°	61.6	2.5
30°-40°	79.2	3.2
40°-50°	87.0	3.5
50°-60°	81.8	3.3
60°-70°	63.6	2.6
70°-80°	36.5	1.5
80°-90°	11.7	0.5
90°-100°	157.5	6.4
100°-110°	374.2	15.2
110°-120°	375.9	15.3
120°-130°	344.7	14.0
130°-140°	288.2	11.7
140°-150°	216.4	8.8
150°-160°	140.8	5.7
160°-170°	72.5	2.9
170°-180°	20.5	0.8
0°-30°	112.7	4.6
0°-40°	192.0	7.8
0°-60°	360.8	14.6
0°-90°	472.5	19.2
90°-120°	907.6	36.8
90°-150°	1756.9	71.3
90°-180°	1991.0	80.8
0°-180°	2463.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	134	134	134	134	134	
5°	136	135	135	134	133	13
15°	133	132	135	137	138	38
25°	126	127	134	139	141	58
35°	115	118	128	135	138	72
45°	99	104	114	123	125	77
55°	80	84	93	100	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	399	492	521	65
115°	101	266	418	509	541	100
125°	135	277	421	504	533	120
135°	163	276	402	478	506	126
145°	185	265	366	429	453	115
155°	198	243	318	364	381	91
165°	205	219	257	285	296	58
175°	207	206	209	211	211	20
180°	203	203	203	203	203	



TEST NUMBER: P395653

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
2.5°	136.6	136.0	135.4	135.4	134.8	134.8	134.8	134.2	134.2	134.2	134.8
5°	136.0	136.0	135.4	134.8	134.8	134.8	134.2	134.2	134.2	134.2	134.8
7.5°	136.0	135.4	134.8	134.8	134.2	134.2	134.2	134.2	134.2	134.2	134.8
10°	134.8	134.8	134.2	134.2	133.6	134.2	134.2	134.2	134.2	134.2	135.4
12.5°	134.2	134.2	133.6	133.0	133.0	133.0	133.6	133.6	133.6	134.2	135.4
15°	133.0	133.0	132.3	132.3	132.3	132.3	133.0	133.0	133.6	134.2	135.4
17.5°	131.7	131.7	131.1	131.1	131.1	131.7	131.7	132.3	133.0	134.2	135.4
20°	129.9	129.9	129.9	129.9	129.9	130.5	130.5	131.1	132.3	133.6	135.4
22.5°	128.1	128.1	128.1	128.1	128.1	128.7	129.3	130.5	131.1	133.0	134.8
25°	125.7	125.7	125.7	125.7	126.3	126.9	127.5	128.7	129.9	131.7	134.2
27.5°	123.2	123.8	123.8	123.8	124.5	125.1	125.7	126.9	128.7	131.1	133.0
30°	120.8	120.8	120.8	121.4	122.0	122.6	123.8	125.1	126.9	129.3	131.7
32.5°	117.8	117.8	118.4	118.4	119.6	120.2	121.4	123.2	125.1	127.5	129.9
35°	114.7	114.7	114.7	116.0	116.6	117.8	118.4	120.2	122.6	125.1	127.5
37.5°	111.1	111.7	111.7	112.3	113.5	114.7	115.3	117.8	120.2	122.6	125.1
40°	107.5	108.1	108.1	108.7	110.5	111.1	112.3	114.7	116.6	119.6	122.0
42.5°	103.8	103.8	104.4	105.0	106.8	107.5	108.7	111.1	113.5	116.0	118.4
45°	99.0	99.6	100.2	100.8	102.6	103.8	105.0	106.8	109.3	111.7	114.1
47.5°	94.7	94.7	95.3	96.5	98.3	99.6	100.2	102.6	104.4	106.8	109.3
50°	89.8	90.5	90.5	91.7	93.5	94.7	95.3	97.7	99.6	102.0	104.4
52.5°	84.4	85.0	85.6	86.8	88.6	89.8	90.5	92.3	94.1	96.5	98.3
55°	79.5	80.1	80.1	81.3	83.2	83.8	85.0	86.2	88.6	90.5	92.9
57.5°	74.1	74.7	74.7	75.9	77.1	78.3	78.9	80.7	82.6	84.4	86.2
60°	68.0	68.6	69.2	69.8	71.0	72.2	72.8	74.1	75.9	77.7	79.5
62.5°	61.9	62.5	63.1	63.7	65.0	65.6	66.2	68.0	69.2	71.0	72.2
65°	55.9	56.5	57.1	57.7	58.3	58.9	59.5	60.7	61.9	63.7	64.4
67.5°	49.8	50.4	50.4	51.0	51.6	52.2	52.8	54.0	54.6	56.5	57.1
70°	43.7	43.7	43.7	44.3	44.3	44.9	45.5	46.7	47.4	48.6	49.8
72.5°	36.4	37.0	37.0	37.0	37.6	38.2	38.9	39.5	40.1	40.7	41.9
75°	29.7	30.4	29.7	30.4	31.0	31.0	31.6	32.2	32.8	33.4	34.0
77.5°	23.7	23.1	23.7	23.7	24.3	24.3	24.3	24.9	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	13.4	14.0	14.6
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	24.3	50.4	75.3	65.0	60.7	36.4	10.9	9.7	10.3	10.3
95°	21.2	40.1	73.5	119.0	154.2	176.1	190.6	218.5	247.1	242.2	180.9
97.5°	31.0	51.6	88.6	130.5	179.1	204.0	222.8	256.2	292.6	323.0	344.8
100°	40.7	61.9	101.4	145.1	190.0	212.5	234.3	279.9	315.7	346.0	375.2
102.5°	51.0	72.2	112.9	158.4	202.8	224.6	245.9	285.9	326.0	362.4	391.0
105°	61.3	83.2	123.2	170.0	214.3	236.2	256.8	295.0	332.1	366.1	398.9
107.5°	72.2	92.9	132.3	179.1	223.4	245.3	265.9	304.1	340.0	374.0	403.7
110°	82.0	102.0	141.4	187.6	231.9	253.8	274.4	312.6	347.9	380.0	409.2



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CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	91.1	110.5	149.9	194.9	238.6	260.4	280.5	318.7	353.9	385.5	414.6
115°	101.4	118.4	158.4	201.6	244.7	265.9	285.9	323.6	358.8	389.7	418.3
117.5°	109.9	126.3	165.7	207.0	249.5	270.2	289.6	327.2	361.8	392.8	420.7
120°	118.4	133.6	172.4	211.9	253.2	273.2	292.6	329.6	364.2	394.6	421.9
122.5°	126.9	140.8	177.9	216.7	256.2	276.2	295.0	331.5	365.5	395.2	421.9
125°	134.8	146.9	182.7	220.4	258.0	277.4	295.6	331.5	364.9	394.0	420.7
127.5°	142.1	153.6	186.4	224.0	259.2	278.0	295.6	330.3	363.6	392.2	418.3
130°	149.3	159.7	190.0	225.8	260.4	277.4	294.4	327.8	360.6	389.1	414.0
132.5°	156.6	166.3	193.1	227.7	261.0	277.4	293.2	325.4	357.0	384.9	408.6
135°	163.3	171.2	196.1	228.9	260.4	276.2	290.8	321.1	351.5	378.8	401.9
137.5°	169.4	176.1	198.5	229.5	259.8	274.4	289.0	316.3	344.8	371.5	394.0
140°	174.8	180.9	199.7	229.5	257.4	272.0	285.3	311.4	337.5	363.0	384.9
142.5°	179.7	185.2	201.6	228.3	255.0	268.9	281.7	306.6	330.3	354.5	375.8
145°	184.6	188.8	202.8	227.7	251.9	264.7	276.8	300.5	323.6	345.4	365.5
147.5°	188.2	192.4	204.0	225.2	248.3	259.8	271.4	293.8	315.1	335.7	353.9
150°	191.8	195.5	204.6	222.8	244.0	254.4	264.7	285.9	306.6	325.4	342.4
152.5°	195.5	197.9	206.4	220.4	239.2	248.9	259.2	278.0	296.9	314.5	330.9
155°	197.9	199.7	207.0	217.9	234.3	242.8	251.3	268.9	285.9	302.3	317.5
157.5°	200.3	202.2	207.6	216.1	228.9	236.8	244.0	259.2	275.0	289.6	303.5
160°	202.2	203.4	207.6	214.9	224.0	229.5	236.2	250.1	263.5	276.2	288.4
162.5°	204.0	204.6	207.6	213.1	219.8	223.4	228.3	239.2	251.3	262.3	273.2
165°	205.2	205.8	207.6	211.9	216.1	219.2	221.6	229.5	238.6	248.3	257.4
167.5°	206.4	206.4	207.6	210.7	213.1	214.9	216.7	221.0	227.0	234.3	241.0
170°	207.0	207.0	207.6	209.4	211.3	211.9	213.1	215.5	218.5	222.2	226.4
172.5°	207.0	207.0	207.0	208.2	208.8	208.8	208.8	210.0	211.9	214.3	216.1
175°	207.0	206.4	206.4	207.0	206.4	206.4	206.4	206.4	207.0	208.2	208.8
177.5°	207.0	206.4	205.8	205.8	205.2	205.2	204.6	204.6	204.6	204.6	204.6
180°	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2	134.2
2.5°	134.8	134.8	134.2	133.6	133.6	133.6	133.0	132.3	131.7	131.7
5°	134.8	134.8	134.2	134.2	134.2	134.2	133.6	133.6	133.0	133.0
7.5°	135.4	134.8	134.8	134.8	134.8	134.8	134.8	134.8	134.2	134.2
10°	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4	135.4
12.5°	136.0	136.0	136.0	136.0	136.6	136.6	136.6	136.6	136.6	136.6
15°	136.0	136.6	137.2	137.2	137.2	137.8	137.8	137.8	137.8	137.8
17.5°	136.6	137.2	137.8	137.8	138.4	138.4	139.0	139.0	139.0	139.0
20°	136.6	137.2	137.8	138.4	139.0	139.0	139.6	140.2	140.2	139.6
22.5°	136.0	137.2	137.8	138.4	139.0	139.6	140.2	140.8	140.8	140.8
25°	135.4	136.6	137.8	139.0	139.0	139.6	140.8	140.8	140.8	140.8
27.5°	134.8	136.0	137.2	138.4	139.0	139.6	140.2	140.8	140.8	140.8
30°	133.6	135.4	136.6	137.8	138.4	139.0	139.6	140.2	140.2	140.2
32.5°	131.7	133.6	134.8	136.6	137.2	137.8	138.4	139.0	139.0	139.0
35°	129.9	131.7	133.0	134.8	135.4	136.0	137.2	137.2	137.8	137.8
37.5°	126.9	129.3	130.5	132.3	133.0	133.6	134.8	135.4	135.4	135.4
40°	123.8	126.3	127.5	129.3	129.9	130.5	131.7	132.3	133.0	133.0
42.5°	120.2	122.6	123.8	125.7	126.3	126.9	128.1	128.7	129.3	129.3
45°	116.6	118.4	119.6	121.4	122.6	122.6	123.8	124.5	125.1	125.1
47.5°	111.7	113.5	114.7	116.6	117.8	118.4	119.0	119.6	120.2	120.2
50°	106.2	108.1	109.9	111.1	112.3	112.3	113.5	114.1	114.7	114.7
52.5°	100.8	102.0	103.8	105.6	106.2	106.8	107.5	108.1	108.7	108.7
55°	94.7	95.9	97.7	99.0	99.6	100.2	100.8	101.4	102.0	102.0
57.5°	88.0	89.2	91.1	92.3	92.9	93.5	94.1	94.7	95.3	95.3
60°	80.7	82.0	83.8	85.0	85.6	85.6	86.8	87.4	87.4	87.4
62.5°	73.5	74.7	75.9	77.1	77.7	78.3	78.9	79.5	79.5	79.5
65°	66.2	67.4	68.6	69.2	69.8	69.8	70.4	71.0	71.6	71.6
67.5°	58.3	59.5	60.7	61.3	61.9	61.9	62.5	63.1	63.1	63.1
70°	50.4	51.0	52.2	52.8	53.4	53.4	54.6	54.6	54.6	54.6
72.5°	42.5	43.1	44.3	44.9	45.5	45.5	46.1	46.7	46.7	46.7
75°	35.2	35.8	36.4	37.6	37.6	37.6	38.2	38.9	38.9	38.9
77.5°	27.9	28.5	29.1	29.7	30.4	30.4	31.0	31.6	31.6	31.6
80°	21.2	21.9	22.5	23.1	23.1	23.7	23.7	24.3	24.3	24.3
82.5°	15.2	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	13.4	14.0	14.0	13.4
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	4.9	4.9	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°	110.5	49.8	41.9	25.5	24.3	21.2	20.6	21.2	21.2	20.6
97.5°	370.9	397.0	413.4	421.3	411.6	401.3	389.7	387.9	372.1	336.9
100°	400.1	420.7	440.7	454.7	460.2	465.0	475.9	482.6	485.7	488.7
102.5°	414.6	436.5	454.1	471.7	479.0	485.7	495.4	503.3	506.3	508.7
105°	427.4	449.8	469.3	485.1	491.7	497.8	507.5	514.8	520.3	520.9
107.5°	430.4	454.1	475.9	495.4	503.3	509.9	521.5	526.9	531.8	531.8
110°	435.9	458.3	478.4	496.0	503.9	511.8	523.9	532.4	537.3	538.5



TEST NUMBER: P395653

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	440.1	463.2	482.0	499.6	506.3	513.6	525.1	533.0	537.3	539.1
115°	443.8	466.2	485.1	501.4	508.7	516.0	527.6	534.2	539.1	540.9
117.5°	446.2	468.1	486.9	502.1	509.9	516.0	526.9	534.2	539.1	539.7
120°	446.8	468.7	486.9	502.1	508.7	515.4	526.3	533.6	538.5	538.5
122.5°	446.8	468.1	486.3	500.8	506.9	513.0	523.3	531.8	536.1	536.1
125°	444.4	465.6	483.2	497.8	503.9	509.3	520.3	528.2	532.4	533.0
127.5°	440.7	461.4	479.0	493.6	499.6	504.5	516.0	523.3	527.6	528.2
130°	435.9	456.5	473.5	487.5	493.6	499.0	508.7	516.6	521.5	522.7
132.5°	430.4	449.8	466.8	480.2	486.3	491.1	500.8	508.7	513.0	514.8
135°	423.7	442.0	458.3	471.7	477.8	482.6	491.7	499.6	503.9	505.7
137.5°	415.2	432.8	448.6	462.0	467.5	472.3	481.4	488.7	492.3	494.8
140°	405.5	421.9	438.3	450.5	455.9	460.8	468.7	476.6	480.2	482.0
142.5°	395.2	411.6	426.2	438.3	443.2	448.0	455.9	463.2	466.8	467.5
145°	384.3	400.1	413.4	425.0	429.2	434.1	441.3	448.6	452.3	452.9
147.5°	372.1	386.7	399.5	410.4	415.2	418.9	425.6	432.2	435.9	436.5
150°	358.2	371.5	383.1	394.0	398.2	401.9	409.2	415.2	418.9	419.5
152.5°	344.8	357.6	367.3	377.0	381.2	384.9	391.0	397.0	400.7	401.3
155°	330.9	342.4	352.1	360.0	363.6	367.3	372.1	377.6	380.6	381.2
157.5°	316.3	327.2	335.7	343.0	346.6	349.7	353.9	358.8	360.6	361.8
160°	300.5	309.6	316.9	324.2	327.2	330.3	334.5	338.1	340.6	341.2
162.5°	283.5	291.4	297.5	304.1	306.0	308.4	312.6	316.3	318.1	318.7
165°	265.9	273.2	278.6	284.1	285.3	287.1	290.2	293.8	295.0	296.3
167.5°	248.3	254.4	258.0	262.9	264.7	265.9	268.9	271.4	272.6	273.2
170°	231.3	235.5	238.6	242.2	242.8	244.7	246.5	248.9	249.5	249.5
172.5°	217.9	219.8	221.6	222.8	223.4	224.0	225.2	225.8	225.8	225.8
175°	209.4	210.7	210.7	211.3	211.3	211.3	211.3	211.3	211.3	211.3
177.5°	204.6	204.6	204.6	204.0	204.0	204.0	204.0	203.4	203.4	203.4
180°	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4

(END OF REPORT)