

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: P395649

Luminaire Tested: **I3-UL-20L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395649
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 (4000K)
Description: CORELITE I3, OPEN TOP
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2352.5 lumens
Efficiency: N/A
Efficacy: 143.4 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

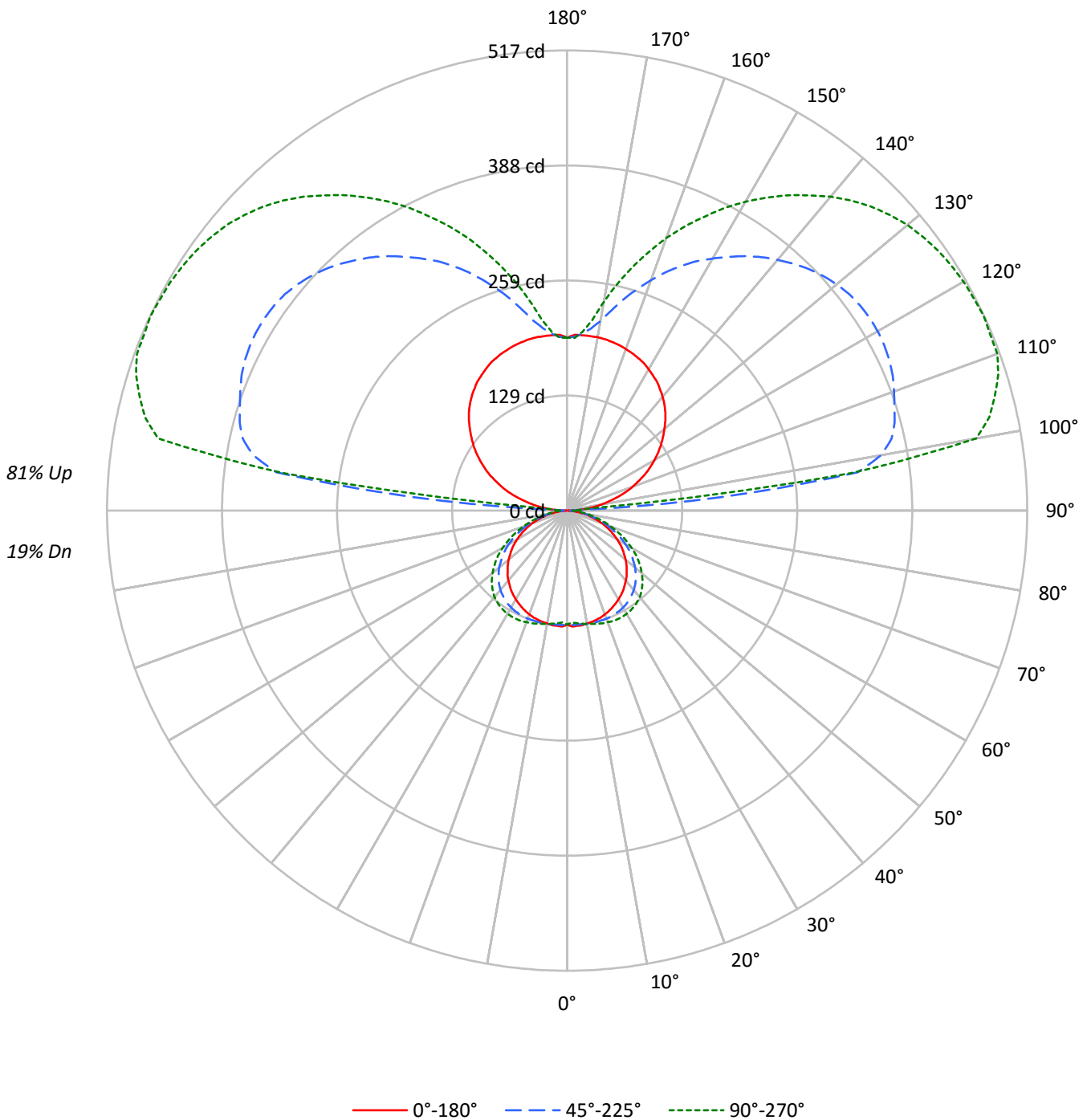
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	704	704	704
5°	714	694	681
10°	713	689	682
15°	715	687	687
20°	715	690	695
25°	714	691	706
30°	715	692	713
35°	714	689	716
40°	711	683	712
45°	705	669	696
50°	698	647	671
55°	687	616	632
60°	664	572	582
65°	635	509	519
70°	600	441	438
75°	520	346	351
80°	413	249	254
85°	246	145	168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.5
10°-20°	36.6	1.6
20°-30°	58.8	2.5
30°-40°	75.7	3.2
40°-50°	83.1	3.5
50°-60°	78.1	3.3
60°-70°	60.7	2.6
70°-80°	34.8	1.5
80°-90°	11.2	0.5
90°-100°	150.4	6.4
100°-110°	357.4	15.2
110°-120°	359.0	15.3
120°-130°	329.2	14.0
130°-140°	275.3	11.7
140°-150°	206.6	8.8
150°-160°	134.5	5.7
160°-170°	69.3	2.9
170°-180°	19.6	0.8
0°-30°	107.6	4.6
0°-40°	183.3	7.8
0°-60°	344.6	14.6
0°-90°	451.3	19.2
90°-120°	866.7	36.8
90°-150°	1677.9	71.3
90°-180°	1901.0	80.8
0°-180°	2352.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	128	128	128	128	128	
5°	130	129	129	128	127	12
15°	127	126	129	131	132	36
25°	120	121	128	133	134	55
35°	110	112	122	129	132	69
45°	94	99	109	117	119	73
55°	76	80	89	95	97	68
65°	53	56	62	67	68	53
75°	28	30	32	36	37	30
85°	6	7	9	12	13	7
90°	1	2	4	5	6	2
95°	20	168	173	23	20	20
105°	59	226	381	470	497	62
115°	97	254	400	486	517	95
125°	129	265	402	481	509	115
135°	156	264	384	456	483	120
145°	176	253	349	410	432	110
155°	189	232	303	347	364	87
165°	196	209	246	272	283	55
175°	198	197	199	202	202	19
180°	194	194	194	194	194	



TEST NUMBER: P395649

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1
2.5°	130.4	129.9	129.3	129.3	128.7	128.7	128.7	128.1	128.1	128.1	128.7
5°	129.9	129.9	129.3	128.7	128.7	128.7	128.1	128.1	128.1	128.1	128.7
7.5°	129.9	129.3	128.7	128.7	128.1	128.1	128.1	128.1	128.1	128.1	128.7
10°	128.7	128.7	128.1	128.1	127.6	128.1	128.1	128.1	128.1	128.1	129.3
12.5°	128.1	128.1	127.6	127.0	127.0	127.0	127.6	127.6	127.6	128.1	129.3
15°	127.0	127.0	126.4	126.4	126.4	126.4	127.0	127.0	127.6	128.1	129.3
17.5°	125.8	125.8	125.2	125.2	125.2	125.8	125.8	126.4	127.0	128.1	129.3
20°	124.1	124.1	124.1	124.1	124.1	124.7	124.7	125.2	126.4	127.6	129.3
22.5°	122.3	122.3	122.3	122.3	122.3	122.9	123.5	124.7	125.2	127.0	128.7
25°	120.0	120.0	120.0	120.0	120.6	121.2	121.8	122.9	124.1	125.8	128.1
27.5°	117.7	118.3	118.3	118.3	118.9	119.4	120.0	121.2	122.9	125.2	127.0
30°	115.4	115.4	115.4	116.0	116.5	117.1	118.3	119.4	121.2	123.5	125.8
32.5°	112.5	112.5	113.1	113.1	114.2	114.8	116.0	117.7	119.4	121.8	124.1
35°	109.6	109.6	109.6	110.7	111.3	112.5	113.1	114.8	117.1	119.4	121.8
37.5°	106.1	106.7	106.7	107.3	108.4	109.6	110.2	112.5	114.8	117.1	119.4
40°	102.6	103.2	103.2	103.8	105.5	106.1	107.3	109.6	111.3	114.2	116.5
42.5°	99.1	99.1	99.7	100.3	102.0	102.6	103.8	106.1	108.4	110.7	113.1
45°	94.5	95.1	95.7	96.2	98.0	99.1	100.3	102.0	104.4	106.7	109.0
47.5°	90.4	90.4	91.0	92.2	93.9	95.1	95.7	98.0	99.7	102.0	104.4
50°	85.8	86.4	86.4	87.5	89.3	90.4	91.0	93.3	95.1	97.4	99.7
52.5°	80.6	81.2	81.7	82.9	84.6	85.8	86.4	88.1	89.9	92.2	93.9
55°	76.0	76.5	76.5	77.7	79.4	80.0	81.2	82.3	84.6	86.4	88.7
57.5°	70.7	71.3	71.3	72.5	73.6	74.8	75.4	77.1	78.8	80.6	82.3
60°	64.9	65.5	66.1	66.7	67.8	69.0	69.6	70.7	72.5	74.2	76.0
62.5°	59.1	59.7	60.3	60.9	62.0	62.6	63.2	64.9	66.1	67.8	69.0
65°	53.3	53.9	54.5	55.1	55.7	56.2	56.8	58.0	59.1	60.9	61.5
67.5°	47.5	48.1	48.1	48.7	49.3	49.9	50.4	51.6	52.2	53.9	54.5
70°	41.7	41.7	41.7	42.3	42.3	42.9	43.5	44.6	45.2	46.4	47.5
72.5°	34.8	35.4	35.4	35.4	35.9	36.5	37.1	37.7	38.3	38.8	40.0
75°	28.4	29.0	28.4	29.0	29.6	29.6	30.1	30.7	31.3	31.9	32.5
77.5°	22.6	22.0	22.6	22.6	23.2	23.2	23.2	23.8	24.9	24.9	26.1
80°	16.2	16.2	16.2	16.2	16.8	16.8	17.4	17.4	18.6	19.1	19.7
82.5°	10.4	10.4	11.0	11.0	11.0	11.6	11.6	12.2	12.8	13.3	13.9
85°	5.8	5.8	5.8	6.4	6.4	7.0	7.0	7.5	8.1	8.7	9.3
87.5°	1.7	2.3	2.9	2.9	3.5	3.5	4.1	4.1	5.2	5.8	6.4
90°	0.6	0.6	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.9	3.5
92.5°	9.9	23.2	48.1	71.9	62.0	58.0	34.8	10.4	9.3	9.9	9.9
95°	20.3	38.3	70.2	113.6	147.3	168.1	182.0	208.7	236.0	231.3	172.8
97.5°	29.6	49.3	84.6	124.7	171.0	194.8	212.8	244.7	279.5	308.4	329.3
100°	38.8	59.1	96.8	138.6	181.5	202.9	223.8	267.3	301.5	330.5	358.3
102.5°	48.7	69.0	107.8	151.3	193.6	214.5	234.8	273.1	311.3	346.1	373.4
105°	58.6	79.4	117.7	162.3	204.7	225.5	245.2	281.8	317.1	349.6	380.9
107.5°	69.0	88.7	126.4	171.0	213.4	234.2	253.9	290.5	324.7	357.1	385.6
110°	78.3	97.4	135.1	179.2	221.5	242.3	262.1	298.6	332.2	362.9	390.8



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CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	87.0	105.5	143.2	186.1	227.9	248.7	267.9	304.4	338.0	368.2	396.0
115°	96.8	113.1	151.3	192.5	233.6	253.9	273.1	309.0	342.6	372.2	399.5
117.5°	104.9	120.6	158.3	197.7	238.3	258.0	276.6	312.5	345.5	375.1	401.8
120°	113.1	127.6	164.7	202.3	241.8	260.9	279.5	314.8	347.9	376.9	402.9
122.5°	121.2	134.5	169.9	207.0	244.7	263.8	281.8	316.6	349.0	377.4	402.9
125°	128.7	140.3	174.5	210.5	246.4	265.0	282.4	316.6	348.4	376.3	401.8
127.5°	135.7	146.7	178.0	213.9	247.6	265.5	282.4	315.4	347.3	374.5	399.5
130°	142.6	152.5	181.5	215.7	248.7	265.0	281.2	313.1	344.4	371.6	395.4
132.5°	149.6	158.9	184.4	217.4	249.3	265.0	280.0	310.8	340.9	367.6	390.2
135°	156.0	163.5	187.3	218.6	248.7	263.8	277.7	306.7	335.7	361.8	383.8
137.5°	161.8	168.1	189.6	219.2	248.1	262.1	276.0	302.1	329.3	354.8	376.3
140°	167.0	172.8	190.7	219.2	245.8	259.7	272.5	297.4	322.4	346.7	367.6
142.5°	171.6	176.8	192.5	218.0	243.5	256.8	269.0	292.8	315.4	338.6	358.9
145°	176.3	180.3	193.6	217.4	240.6	252.8	264.4	287.0	309.0	329.9	349.0
147.5°	179.7	183.8	194.8	215.1	237.1	248.1	259.2	280.6	300.9	320.6	338.0
150°	183.2	186.7	195.4	212.8	233.1	242.9	252.8	273.1	292.8	310.8	327.0
152.5°	186.7	189.0	197.1	210.5	228.4	237.7	247.6	265.5	283.5	300.3	316.0
155°	189.0	190.7	197.7	208.1	223.8	231.9	240.0	256.8	273.1	288.7	303.2
157.5°	191.3	193.1	198.3	206.4	218.6	226.1	233.1	247.6	262.6	276.6	289.9
160°	193.1	194.2	198.3	205.2	213.9	219.2	225.5	238.9	251.6	263.8	275.4
162.5°	194.8	195.4	198.3	203.5	209.9	213.4	218.0	228.4	240.0	250.5	260.9
165°	196.0	196.5	198.3	202.3	206.4	209.3	211.6	219.2	227.9	237.1	245.8
167.5°	197.1	197.1	198.3	201.2	203.5	205.2	207.0	211.0	216.8	223.8	230.2
170°	197.7	197.7	198.3	200.0	201.8	202.3	203.5	205.8	208.7	212.2	216.3
172.5°	197.7	197.7	197.7	198.9	199.4	199.4	199.4	200.6	202.3	204.7	206.4
175°	197.7	197.1	197.1	197.7	197.1	197.1	197.1	197.1	197.7	198.9	199.4
177.5°	197.7	197.1	196.5	196.5	196.0	196.0	195.4	195.4	195.4	195.4	195.4
180°	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1
2.5°	128.7	128.7	128.1	127.6	127.6	127.6	127.0	126.4	125.8	125.8
5°	128.7	128.7	128.1	128.1	128.1	128.1	127.6	127.6	127.0	127.0
7.5°	129.3	128.7	128.7	128.7	128.7	128.7	128.7	128.7	128.1	128.1
10°	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3	129.3
12.5°	129.9	129.9	129.9	129.9	130.4	130.4	130.4	130.4	130.4	130.4
15°	129.9	130.4	131.0	131.0	131.0	131.6	131.6	131.6	131.6	131.6
17.5°	130.4	131.0	131.6	131.6	132.2	132.2	132.8	132.8	132.8	132.8
20°	130.4	131.0	131.6	132.2	132.8	132.8	133.3	133.9	133.9	133.3
22.5°	129.9	131.0	131.6	132.2	132.8	133.3	133.9	134.5	134.5	134.5
25°	129.3	130.4	131.6	132.8	132.8	133.3	134.5	134.5	134.5	134.5
27.5°	128.7	129.9	131.0	132.2	132.8	133.3	133.9	134.5	134.5	134.5
30°	127.6	129.3	130.4	131.6	132.2	132.8	133.3	133.9	133.9	133.9
32.5°	125.8	127.6	128.7	130.4	131.0	131.6	132.2	132.8	132.8	132.8
35°	124.1	125.8	127.0	128.7	129.3	129.9	131.0	131.0	131.6	131.6
37.5°	121.2	123.5	124.7	126.4	127.0	127.6	128.7	129.3	129.3	129.3
40°	118.3	120.6	121.8	123.5	124.1	124.7	125.8	126.4	127.0	127.0
42.5°	114.8	117.1	118.3	120.0	120.6	121.2	122.3	122.9	123.5	123.5
45°	111.3	113.1	114.2	116.0	117.1	117.1	118.3	118.9	119.4	119.4
47.5°	106.7	108.4	109.6	111.3	112.5	113.1	113.6	114.2	114.8	114.8
50°	101.5	103.2	104.9	106.1	107.3	107.3	108.4	109.0	109.6	109.6
52.5°	96.2	97.4	99.1	100.9	101.5	102.0	102.6	103.2	103.8	103.8
55°	90.4	91.6	93.3	94.5	95.1	95.7	96.2	96.8	97.4	97.4
57.5°	84.1	85.2	87.0	88.1	88.7	89.3	89.9	90.4	91.0	91.0
60°	77.1	78.3	80.0	81.2	81.7	81.7	82.9	83.5	83.5	83.5
62.5°	70.2	71.3	72.5	73.6	74.2	74.8	75.4	76.0	76.0	76.0
65°	63.2	64.4	65.5	66.1	66.7	66.7	67.3	67.8	68.4	68.4
67.5°	55.7	56.8	58.0	58.6	59.1	59.1	59.7	60.3	60.3	60.3
70°	48.1	48.7	49.9	50.4	51.0	51.0	52.2	52.2	52.2	52.2
72.5°	40.6	41.2	42.3	42.9	43.5	43.5	44.1	44.6	44.6	44.6
75°	33.6	34.2	34.8	35.9	35.9	35.9	36.5	37.1	37.1	37.1
77.5°	26.7	27.2	27.8	28.4	29.0	29.0	29.6	30.1	30.1	30.1
80°	20.3	20.9	21.5	22.0	22.0	22.6	22.6	23.2	23.2	23.2
82.5°	14.5	15.1	15.7	16.2	16.8	16.8	17.4	18.0	18.0	17.4
85°	9.9	11.0	11.6	12.2	12.2	12.2	12.8	13.3	13.3	12.8
87.5°	7.0	7.0	7.5	8.1	8.1	8.7	8.7	9.3	9.3	9.3
90°	4.1	4.1	4.6	4.6	5.2	5.2	5.2	5.8	5.8	5.8
92.5°	9.9	9.9	10.4	10.4	10.4	10.4	11.0	11.0	11.0	11.0
95°	105.5	47.5	40.0	24.4	23.2	20.3	19.7	20.3	20.3	19.7
97.5°	354.2	379.2	394.8	402.4	393.1	383.2	372.2	370.5	355.4	321.8
100°	382.1	401.8	420.9	434.3	439.5	444.1	454.5	460.9	463.8	466.7
102.5°	396.0	416.9	433.7	450.5	457.4	463.8	473.1	480.6	483.5	485.9
105°	408.2	429.6	448.2	463.2	469.6	475.4	484.7	491.6	496.9	497.4
107.5°	411.1	433.7	454.5	473.1	480.6	487.0	498.0	503.2	507.9	507.9
110°	416.3	437.7	456.9	473.7	481.2	488.8	500.3	508.5	513.1	514.3



TEST NUMBER: P395649

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	420.3	442.4	460.3	477.2	483.5	490.5	501.5	509.0	513.1	514.8
115°	423.8	445.3	463.2	478.9	485.9	492.8	503.8	510.2	514.8	516.6
117.5°	426.1	447.0	465.0	479.5	487.0	492.8	503.2	510.2	514.8	515.4
120°	426.7	447.6	465.0	479.5	485.9	492.2	502.7	509.6	514.3	514.3
122.5°	426.7	447.0	464.4	478.3	484.1	489.9	499.8	507.9	511.9	511.9
125°	424.4	444.7	461.5	475.4	481.2	486.4	496.9	504.4	508.5	509.0
127.5°	420.9	440.6	457.4	471.4	477.2	481.8	492.8	499.8	503.8	504.4
130°	416.3	436.0	452.2	465.6	471.4	476.6	485.9	493.4	498.0	499.2
132.5°	411.1	429.6	445.8	458.6	464.4	469.0	478.3	485.9	489.9	491.6
135°	404.7	422.1	437.7	450.5	456.3	460.9	469.6	477.2	481.2	483.0
137.5°	396.6	413.4	428.5	441.2	446.4	451.1	459.8	466.7	470.2	472.5
140°	387.3	402.9	418.6	430.2	435.4	440.0	447.6	455.1	458.6	460.3
142.5°	377.4	393.1	407.0	418.6	423.2	427.9	435.4	442.4	445.8	446.4
145°	367.0	382.1	394.8	405.8	409.9	414.5	421.5	428.5	431.9	432.5
147.5°	355.4	369.3	381.5	391.9	396.6	400.0	406.4	412.8	416.3	416.9
150°	342.1	354.8	365.8	376.3	380.3	383.8	390.8	396.6	400.0	400.6
152.5°	329.3	341.5	350.8	360.0	364.1	367.6	373.4	379.2	382.7	383.2
155°	316.0	327.0	336.3	343.8	347.3	350.8	355.4	360.6	363.5	364.1
157.5°	302.1	312.5	320.6	327.6	331.1	334.0	338.0	342.6	344.4	345.5
160°	287.0	295.7	302.6	309.6	312.5	315.4	319.5	322.9	325.3	325.8
162.5°	270.8	278.3	284.1	290.5	292.2	294.5	298.6	302.1	303.8	304.4
165°	253.9	260.9	266.1	271.3	272.5	274.2	277.1	280.6	281.8	282.9
167.5°	237.1	242.9	246.4	251.0	252.8	253.9	256.8	259.2	260.3	260.9
170°	220.9	225.0	227.9	231.3	231.9	233.6	235.4	237.7	238.3	238.3
172.5°	208.1	209.9	211.6	212.8	213.4	213.9	215.1	215.7	215.7	215.7
175°	200.0	201.2	201.2	201.8	201.8	201.8	201.8	201.8	201.8	201.8
177.5°	195.4	195.4	195.4	194.8	194.8	194.8	194.8	194.2	194.2	194.2
180°	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)