

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: P395651

Luminaire Tested: **I3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395651
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 (5000K)
Description: CORELITE I3, OPEN TOP
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2427.9 lumens
Efficiency: N/A
Efficacy: 146.3 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

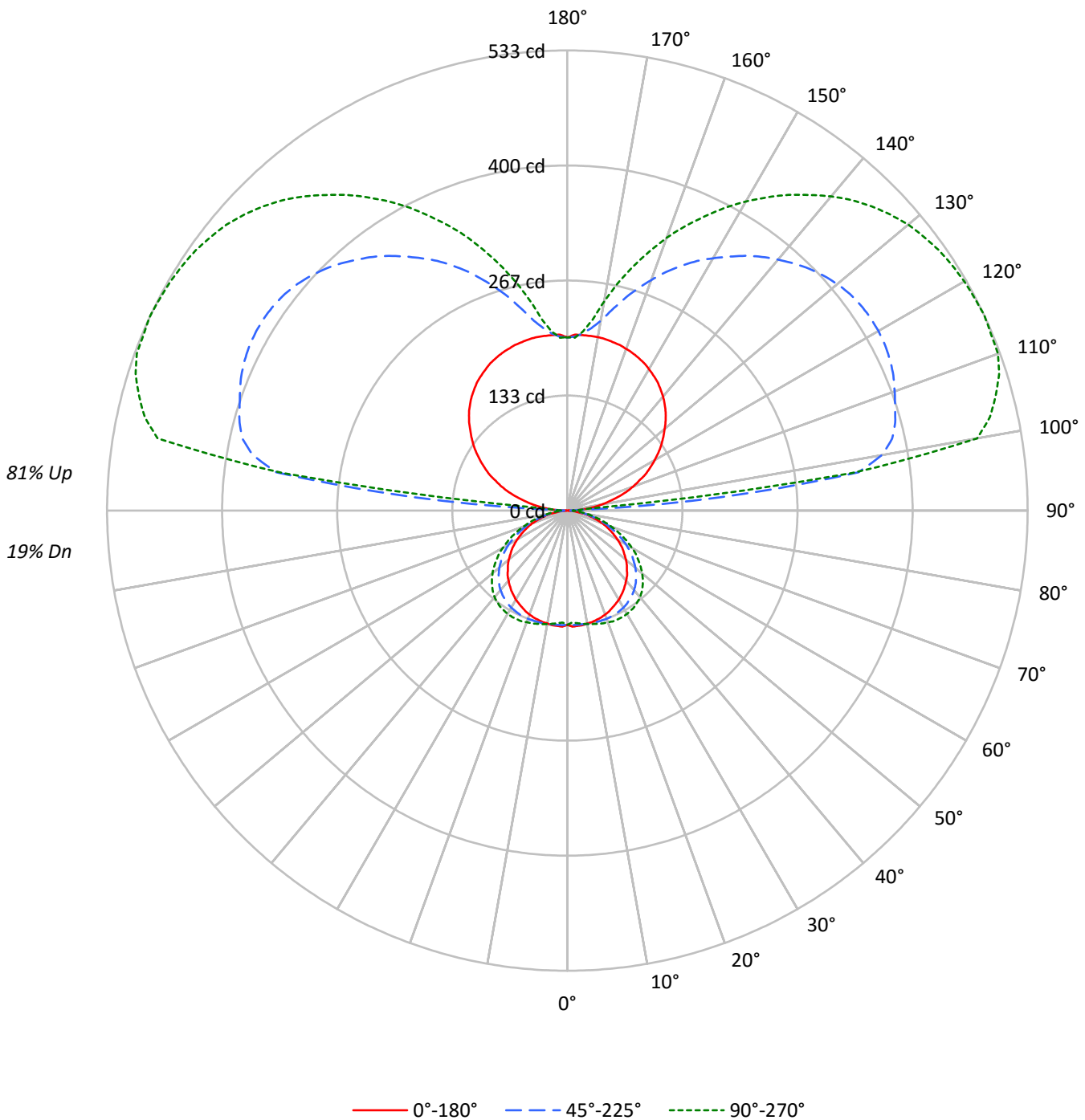
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395651

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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	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								19																				
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16								16																				
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13								13																				
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11								11																				
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9								9																				
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8								8																				
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7								7																				
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6								6																				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5								5																				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5								5																				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4								4																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	727	727	727
5°	737	716	702
10°	736	711	703
15°	737	709	709
20°	738	711	718
25°	737	713	729
30°	738	714	736
35°	737	711	739
40°	734	706	735
45°	727	691	719
50°	721	668	692
55°	708	636	652
60°	686	590	601
65°	655	525	535
70°	620	456	452
75°	537	357	362
80°	428	256	262
85°	255	150	173



TEST NUMBER: P395651

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.5
10°-20°	37.7	1.6
20°-30°	60.7	2.5
30°-40°	78.1	3.2
40°-50°	85.8	3.5
50°-60°	80.6	3.3
60°-70°	62.6	2.6
70°-80°	35.9	1.5
80°-90°	11.5	0.5
90°-100°	155.2	6.4
100°-110°	368.8	15.2
110°-120°	370.5	15.3
120°-130°	339.8	14.0
130°-140°	284.1	11.7
140°-150°	213.2	8.8
150°-160°	138.8	5.7
160°-170°	71.5	2.9
170°-180°	20.2	0.8
0°-30°	111.1	4.6
0°-40°	189.2	7.8
0°-60°	355.6	14.6
0°-90°	465.7	19.2
90°-120°	894.5	36.8
90°-150°	1731.7	71.3
90°-180°	1962.0	80.8
0°-180°	2427.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	132	132	132	132	132	
5°	134	133	133	132	131	13
15°	131	130	133	135	136	37
25°	124	125	132	137	139	57
35°	113	116	126	133	136	71
45°	98	102	112	121	123	75
55°	78	83	92	98	100	70
65°	55	58	63	69	71	54
75°	29	30	34	37	38	31
85°	6	7	10	13	13	7
90°	1	2	4	5	6	2
95°	21	174	178	24	20	21
105°	60	233	393	485	513	64
115°	100	262	412	501	533	98
125°	133	274	415	497	525	119
135°	161	272	396	471	498	124
145°	182	261	360	423	446	114
155°	195	239	313	358	376	90
165°	202	216	254	281	292	57
175°	204	203	206	208	208	19
180°	200	200	200	200	200	



TEST NUMBER: P395651

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2
2.5°	134.6	134.0	133.4	133.4	132.8	132.8	132.8	132.2	132.2	132.2	132.8
5°	134.0	134.0	133.4	132.8	132.8	132.8	132.2	132.2	132.2	132.2	132.8
7.5°	134.0	133.4	132.8	132.8	132.2	132.2	132.2	132.2	132.2	132.2	132.8
10°	132.8	132.8	132.2	132.2	131.6	132.2	132.2	132.2	132.2	132.2	133.4
12.5°	132.2	132.2	131.6	131.0	131.0	131.0	131.6	131.6	131.6	132.2	133.4
15°	131.0	131.0	130.4	130.4	130.4	130.4	131.0	131.0	131.6	132.2	133.4
17.5°	129.8	129.8	129.2	129.2	129.2	129.8	129.8	130.4	131.0	132.2	133.4
20°	128.1	128.1	128.1	128.1	128.1	128.6	128.6	129.2	130.4	131.6	133.4
22.5°	126.3	126.3	126.3	126.3	126.3	126.9	127.5	128.6	129.2	131.0	132.8
25°	123.9	123.9	123.9	123.9	124.5	125.1	125.7	126.9	128.1	129.8	132.2
27.5°	121.5	122.1	122.1	122.1	122.7	123.3	123.9	125.1	126.9	129.2	131.0
30°	119.1	119.1	119.1	119.7	120.3	120.9	122.1	123.3	125.1	127.5	129.8
32.5°	116.1	116.1	116.7	116.7	117.9	118.5	119.7	121.5	123.3	125.7	128.1
35°	113.1	113.1	113.1	114.3	114.9	116.1	116.7	118.5	120.9	123.3	125.7
37.5°	109.5	110.1	110.1	110.7	111.9	113.1	113.7	116.1	118.5	120.9	123.3
40°	105.9	106.5	106.5	107.1	108.9	109.5	110.7	113.1	114.9	117.9	120.3
42.5°	102.3	102.3	102.9	103.5	105.3	105.9	107.1	109.5	111.9	114.3	116.7
45°	97.5	98.1	98.7	99.3	101.1	102.3	103.5	105.3	107.7	110.1	112.5
47.5°	93.3	93.3	93.9	95.1	96.9	98.1	98.7	101.1	102.9	105.3	107.7
50°	88.6	89.2	89.2	90.4	92.1	93.3	93.9	96.3	98.1	100.5	102.9
52.5°	83.2	83.8	84.4	85.6	87.4	88.6	89.2	91.0	92.7	95.1	96.9
55°	78.4	79.0	79.0	80.2	82.0	82.6	83.8	85.0	87.4	89.2	91.5
57.5°	73.0	73.6	73.6	74.8	76.0	77.2	77.8	79.6	81.4	83.2	85.0
60°	67.0	67.6	68.2	68.8	70.0	71.2	71.8	73.0	74.8	76.6	78.4
62.5°	61.0	61.6	62.2	62.8	64.0	64.6	65.2	67.0	68.2	70.0	71.2
65°	55.0	55.6	56.2	56.8	57.4	58.0	58.6	59.8	61.0	62.8	63.4
67.5°	49.1	49.7	49.7	50.3	50.9	51.5	52.1	53.3	53.9	55.6	56.2
70°	43.1	43.1	43.1	43.7	43.7	44.3	44.9	46.1	46.7	47.9	49.1
72.5°	35.9	36.5	36.5	36.5	37.1	37.7	38.3	38.9	39.5	40.1	41.3
75°	29.3	29.9	29.3	29.9	30.5	30.5	31.1	31.7	32.3	32.9	33.5
77.5°	23.3	22.7	23.3	23.3	23.9	23.9	23.9	24.5	25.7	25.7	26.9
80°	16.8	16.8	16.8	16.8	17.4	17.4	18.0	18.0	19.1	19.7	20.3
82.5°	10.8	10.8	11.4	11.4	11.4	12.0	12.0	12.6	13.2	13.8	14.4
85°	6.0	6.0	6.0	6.6	6.6	7.2	7.2	7.8	8.4	9.0	9.6
87.5°	1.8	2.4	3.0	3.0	3.6	3.6	4.2	4.2	5.4	6.0	6.6
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°	10.2	23.9	49.7	74.2	64.0	59.8	35.9	10.8	9.6	10.2	10.2
95°	20.9	39.5	72.4	117.3	152.0	173.5	187.9	215.4	243.5	238.7	178.3
97.5°	30.5	50.9	87.4	128.6	176.5	201.1	219.6	252.5	288.4	318.3	339.9
100°	40.1	61.0	99.9	143.0	187.3	209.4	231.0	275.8	311.1	341.1	369.8
102.5°	50.3	71.2	111.3	156.2	199.9	221.4	242.3	281.8	321.3	357.2	385.3
105°	60.4	82.0	121.5	167.5	211.2	232.8	253.1	290.8	327.3	360.8	393.1
107.5°	71.2	91.5	130.4	176.5	220.2	241.7	262.1	299.8	335.1	368.6	397.9
110°	80.8	100.5	139.4	184.9	228.6	250.1	270.5	308.2	342.9	374.6	403.3



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CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	89.8	108.9	147.8	192.1	235.2	256.7	276.4	314.1	348.8	380.0	408.7
115°	99.9	116.7	156.2	198.7	241.1	262.1	281.8	318.9	353.6	384.2	412.3
117.5°	108.3	124.5	163.4	204.0	245.9	266.3	285.4	322.5	356.6	387.1	414.7
120°	116.7	131.6	169.9	208.8	249.5	269.3	288.4	324.9	359.0	388.9	415.9
122.5°	125.1	138.8	175.3	213.6	252.5	272.3	290.8	326.7	360.2	389.5	415.9
125°	132.8	144.8	180.1	217.2	254.3	273.5	291.4	326.7	359.6	388.3	414.7
127.5°	140.0	151.4	183.7	220.8	255.5	274.1	291.4	325.5	358.4	386.5	412.3
130°	147.2	157.4	187.3	222.6	256.7	273.5	290.2	323.1	355.4	383.6	408.1
132.5°	154.4	164.0	190.3	224.4	257.3	273.5	289.0	320.7	351.8	379.4	402.7
135°	161.0	168.7	193.3	225.6	256.7	272.3	286.6	316.5	346.5	373.4	396.1
137.5°	166.9	173.5	195.7	226.2	256.1	270.5	284.8	311.7	339.9	366.2	388.3
140°	172.3	178.3	196.9	226.2	253.7	268.1	281.2	307.0	332.7	357.8	379.4
142.5°	177.1	182.5	198.7	225.0	251.3	265.1	277.6	302.2	325.5	349.4	370.4
145°	181.9	186.1	199.9	224.4	248.3	260.9	272.9	296.2	318.9	340.5	360.2
147.5°	185.5	189.7	201.1	222.0	244.7	256.1	267.5	289.6	310.6	330.9	348.8
150°	189.1	192.7	201.6	219.6	240.5	250.7	260.9	281.8	302.2	320.7	337.5
152.5°	192.7	195.1	203.4	217.2	235.8	245.3	255.5	274.1	292.6	310.0	326.1
155°	195.1	196.9	204.0	214.8	231.0	239.3	247.7	265.1	281.8	298.0	312.9
157.5°	197.5	199.3	204.6	213.0	225.6	233.4	240.5	255.5	271.1	285.4	299.2
160°	199.3	200.5	204.6	211.8	220.8	226.2	232.8	246.5	259.7	272.3	284.2
162.5°	201.1	201.6	204.6	210.0	216.6	220.2	225.0	235.8	247.7	258.5	269.3
165°	202.2	202.8	204.6	208.8	213.0	216.0	218.4	226.2	235.2	244.7	253.7
167.5°	203.4	203.4	204.6	207.6	210.0	211.8	213.6	217.8	223.8	231.0	237.6
170°	204.0	204.0	204.6	206.4	208.2	208.8	210.0	212.4	215.4	219.0	223.2
172.5°	204.0	204.0	204.0	205.2	205.8	205.8	205.8	207.0	208.8	211.2	213.0
175°	204.0	203.4	203.4	204.0	203.4	203.4	203.4	203.4	204.0	205.2	205.8
177.5°	204.0	203.4	202.8	202.8	202.2	202.2	201.6	201.6	201.6	201.6	201.6
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5



TEST NUMBER: P395651

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2	132.2
2.5°	132.8	132.8	132.2	131.6	131.6	131.6	131.0	130.4	129.8	129.8
5°	132.8	132.8	132.2	132.2	132.2	132.2	131.6	131.6	131.0	131.0
7.5°	133.4	132.8	132.8	132.8	132.8	132.8	132.8	132.8	132.2	132.2
10°	133.4	133.4	133.4	133.4	133.4	133.4	133.4	133.4	133.4	133.4
12.5°	134.0	134.0	134.0	134.0	134.6	134.6	134.6	134.6	134.6	134.6
15°	134.0	134.6	135.2	135.2	135.2	135.8	135.8	135.8	135.8	135.8
17.5°	134.6	135.2	135.8	135.8	136.4	136.4	137.0	137.0	137.0	137.0
20°	134.6	135.2	135.8	136.4	137.0	137.0	137.6	138.2	138.2	137.6
22.5°	134.0	135.2	135.8	136.4	137.0	137.6	138.2	138.8	138.8	138.8
25°	133.4	134.6	135.8	137.0	137.0	137.6	138.8	138.8	138.8	138.8
27.5°	132.8	134.0	135.2	136.4	137.0	137.6	138.2	138.8	138.8	138.8
30°	131.6	133.4	134.6	135.8	136.4	137.0	137.6	138.2	138.2	138.2
32.5°	129.8	131.6	132.8	134.6	135.2	135.8	136.4	137.0	137.0	137.0
35°	128.1	129.8	131.0	132.8	133.4	134.0	135.2	135.2	135.8	135.8
37.5°	125.1	127.5	128.6	130.4	131.0	131.6	132.8	133.4	133.4	133.4
40°	122.1	124.5	125.7	127.5	128.1	128.6	129.8	130.4	131.0	131.0
42.5°	118.5	120.9	122.1	123.9	124.5	125.1	126.3	126.9	127.5	127.5
45°	114.9	116.7	117.9	119.7	120.9	120.9	122.1	122.7	123.3	123.3
47.5°	110.1	111.9	113.1	114.9	116.1	116.7	117.3	117.9	118.5	118.5
50°	104.7	106.5	108.3	109.5	110.7	110.7	111.9	112.5	113.1	113.1
52.5°	99.3	100.5	102.3	104.1	104.7	105.3	105.9	106.5	107.1	107.1
55°	93.3	94.5	96.3	97.5	98.1	98.7	99.3	99.9	100.5	100.5
57.5°	86.8	88.0	89.8	91.0	91.5	92.1	92.7	93.3	93.9	93.9
60°	79.6	80.8	82.6	83.8	84.4	84.4	85.6	86.2	86.2	86.2
62.5°	72.4	73.6	74.8	76.0	76.6	77.2	77.8	78.4	78.4	78.4
65°	65.2	66.4	67.6	68.2	68.8	68.8	69.4	70.0	70.6	70.6
67.5°	57.4	58.6	59.8	60.4	61.0	61.0	61.6	62.2	62.2	62.2
70°	49.7	50.3	51.5	52.1	52.7	52.7	53.9	53.9	53.9	53.9
72.5°	41.9	42.5	43.7	44.3	44.9	44.9	45.5	46.1	46.1	46.1
75°	34.7	35.3	35.9	37.1	37.1	37.1	37.7	38.3	38.3	38.3
77.5°	27.5	28.1	28.7	29.3	29.9	29.9	30.5	31.1	31.1	31.1
80°	20.9	21.5	22.1	22.7	22.7	23.3	23.3	23.9	23.9	23.9
82.5°	15.0	15.6	16.2	16.8	17.4	17.4	18.0	18.5	18.5	18.0
85°	10.2	11.4	12.0	12.6	12.6	12.6	13.2	13.8	13.8	13.2
87.5°	7.2	7.2	7.8	8.4	8.4	9.0	9.0	9.6	9.6	9.6
90°	4.2	4.2	4.8	4.8	5.4	5.4	5.4	6.0	6.0	6.0
92.5°	10.2	10.2	10.8	10.8	10.8	10.8	11.4	11.4	11.4	11.4
95°	108.9	49.1	41.3	25.1	23.9	20.9	20.3	20.9	20.9	20.3
97.5°	365.6	391.3	407.5	415.3	405.7	395.5	384.2	382.4	366.8	332.1
100°	394.3	414.7	434.4	448.2	453.6	458.3	469.1	475.7	478.7	481.7
102.5°	408.7	430.2	447.6	464.9	472.1	478.7	488.3	496.0	499.0	501.4
105°	421.2	443.4	462.5	478.1	484.7	490.7	500.2	507.4	512.8	513.4
107.5°	424.2	447.6	469.1	488.3	496.0	502.6	514.0	519.4	524.2	524.2
110°	429.6	451.8	471.5	488.9	496.6	504.4	516.4	524.8	529.6	530.7



TEST NUMBER: P395651

CATALOG NUMBER: I3-UL-20L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	433.8	456.6	475.1	492.5	499.0	506.2	517.6	525.4	529.6	531.3
115°	437.4	459.5	478.1	494.2	501.4	508.6	520.0	526.6	531.3	533.1
117.5°	439.8	461.3	479.9	494.8	502.6	508.6	519.4	526.6	531.3	531.9
120°	440.4	461.9	479.9	494.8	501.4	508.0	518.8	526.0	530.7	530.7
122.5°	440.4	461.3	479.3	493.7	499.6	505.6	515.8	524.2	528.4	528.4
125°	438.0	458.9	476.3	490.7	496.6	502.0	512.8	520.6	524.8	525.4
127.5°	434.4	454.8	472.1	486.5	492.5	497.2	508.6	515.8	520.0	520.6
130°	429.6	450.0	466.7	480.5	486.5	491.9	501.4	509.2	514.0	515.2
132.5°	424.2	443.4	460.1	473.3	479.3	484.1	493.7	501.4	505.6	507.4
135°	417.7	435.6	451.8	464.9	470.9	475.7	484.7	492.5	496.6	498.4
137.5°	409.3	426.6	442.2	455.4	460.7	465.5	474.5	481.7	485.3	487.7
140°	399.7	415.9	432.0	444.0	449.4	454.2	461.9	469.7	473.3	475.1
142.5°	389.5	405.7	420.1	432.0	436.8	441.6	449.4	456.6	460.1	460.7
145°	378.8	394.3	407.5	418.9	423.0	427.8	435.0	442.2	445.8	446.4
147.5°	366.8	381.2	393.7	404.5	409.3	412.9	419.5	426.0	429.6	430.2
150°	353.0	366.2	377.6	388.3	392.5	396.1	403.3	409.3	412.9	413.5
152.5°	339.9	352.4	362.0	371.6	375.8	379.4	385.3	391.3	394.9	395.5
155°	326.1	337.5	347.1	354.8	358.4	362.0	366.8	372.2	375.2	375.8
157.5°	311.7	322.5	330.9	338.1	341.7	344.7	348.8	353.6	355.4	356.6
160°	296.2	305.2	312.3	319.5	322.5	325.5	329.7	333.3	335.7	336.3
162.5°	279.4	287.2	293.2	299.8	301.6	304.0	308.2	311.7	313.5	314.1
165°	262.1	269.3	274.6	280.0	281.2	283.0	286.0	289.6	290.8	292.0
167.5°	244.7	250.7	254.3	259.1	260.9	262.1	265.1	267.5	268.7	269.3
170°	228.0	232.2	235.2	238.7	239.3	241.1	242.9	245.3	245.9	245.9
172.5°	214.8	216.6	218.4	219.6	220.2	220.8	222.0	222.6	222.6	222.6
175°	206.4	207.6	207.6	208.2	208.2	208.2	208.2	208.2	208.2	208.2
177.5°	201.6	201.6	201.6	201.1	201.1	201.1	201.1	200.5	200.5	200.5
180°	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5	200.5

(END OF REPORT)