

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: P395804

Luminaire Tested: **I3-WL-20L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-20L82765-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1918.3 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

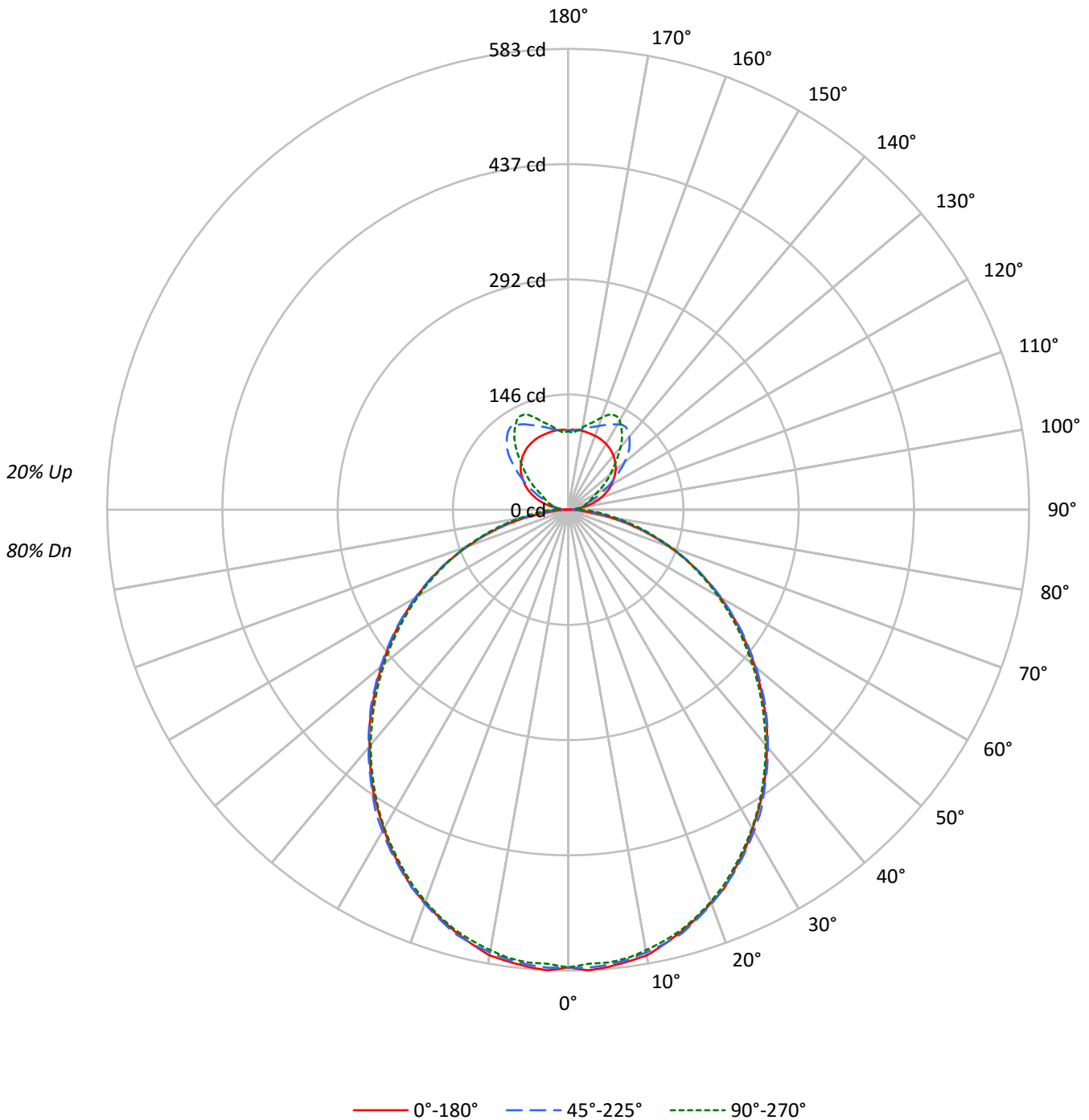
Input Watts (W): 17.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	56
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	47
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	40
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3182	3182	3182
5°	3191	3117	3083
10°	3172	3032	2983
15°	3109	2948	2876
20°	3048	2829	2752
25°	2974	2709	2615
30°	2889	2585	2474
35°	2809	2447	2329
40°	2708	2305	2178
45°	2612	2166	2019
50°	2507	2014	1859
55°	2398	1858	1695
60°	2277	1685	1526
65°	2137	1498	1345
70°	1938	1279	1155
75°	1670	1013	927
80°	1275	730	692
85°	666	436	469



TEST NUMBER: P395804

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	2.9
10°-20°	155.2	8.1
20°-30°	229.8	12.0
30°-40°	268.5	14.0
40°-50°	269.7	14.1
50°-60°	237.1	12.4
60°-70°	177.6	9.3
70°-80°	101.0	5.3
80°-90°	31.9	1.7
90°-100°	11.5	0.6
100°-110°	28.0	1.5
110°-120°	46.5	2.4
120°-130°	65.3	3.4
130°-140°	75.3	3.9
140°-150°	71.9	3.7
150°-160°	54.1	2.8
160°-170°	30.6	1.6
170°-180°	9.7	0.5
0°-30°	439.6	22.9
0°-40°	708.1	36.9
0°-60°	1214.9	63.3
0°-90°	1525.5	79.5
90°-120°	86.0	4.5
90°-150°	298.4	15.6
90°-180°	393.0	20.5
0°-180°	1918.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	580	575	578	576	575	55
15°	553	548	555	551	551	156
25°	500	499	502	500	498	231
35°	431	428	432	429	428	269
45°	350	350	353	349	346	270
55°	266	266	268	264	261	237
65°	179	180	181	179	177	177
75°	91	93	95	98	98	97
85°	16	21	28	34	36	20
90°	0	3	9	13	15	1
95°	8	8	8	9	10	9
105°	33	28	21	22	22	34
115°	54	67	41	33	33	53
125°	71	98	74	59	55	64
135°	84	107	109	91	84	65
145°	93	106	127	122	118	58
155°	98	104	118	131	133	45
165°	100	102	108	112	114	28
175°	101	100	100	100	99	10
180°	100	100	100	100	100	



TEST NUMBER: P395804

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
2.5°	583.4	582.4	580.0	577.5	577.1	576.6	576.6	576.1	576.1	577.1	580.0
5°	580.5	580.0	577.5	575.1	574.6	574.6	574.1	574.1	574.1	575.1	578.0
7.5°	576.6	575.6	573.1	570.7	570.2	570.2	570.2	569.7	570.2	570.7	574.1
10°	572.6	572.2	569.7	566.8	565.8	565.8	565.3	564.3	564.3	565.3	568.7
12.5°	562.9	562.4	559.9	558.0	558.0	558.4	558.4	558.9	558.9	559.9	562.4
15°	552.6	552.1	549.6	547.7	547.7	547.7	547.2	547.2	547.7	550.6	555.0
17.5°	541.3	540.8	538.8	536.9	536.9	536.9	536.4	536.4	536.9	538.4	542.8
20°	529.1	528.6	526.6	524.6	524.6	524.6	524.2	524.6	524.6	526.6	530.5
22.5°	517.3	516.3	513.9	511.9	510.9	510.9	510.9	510.4	511.4	512.9	516.8
25°	500.1	499.7	498.7	497.2	498.2	498.7	497.7	496.7	496.7	498.7	502.1
27.5°	484.5	483.5	482.0	480.6	479.6	480.1	480.6	481.5	483.0	483.5	486.4
30°	466.3	465.9	464.4	462.4	462.9	463.4	463.4	463.4	464.4	468.8	469.8
32.5°	448.7	448.2	446.8	444.8	445.3	445.8	445.3	445.8	446.8	448.7	453.1
35°	431.1	430.1	428.6	428.1	427.7	427.7	427.7	428.1	428.6	430.1	432.5
37.5°	411.0	410.0	409.0	407.6	408.5	409.5	410.0	409.5	410.0	412.0	413.0
40°	390.9	390.4	389.4	388.5	389.0	389.4	389.0	390.4	391.4	392.4	392.9
42.5°	371.8	370.8	369.8	369.4	369.4	369.8	369.8	370.8	370.8	373.3	372.8
45°	350.3	349.8	349.3	349.3	349.8	349.8	349.8	350.3	350.7	352.2	352.7
47.5°	329.2	328.7	328.7	328.7	328.7	329.2	329.7	331.1	330.2	330.7	331.1
50°	308.1	307.6	307.6	307.6	308.6	308.6	309.6	310.1	310.6	309.6	310.1
52.5°	286.6	286.1	287.1	287.1	288.0	288.0	289.5	288.0	289.0	288.5	288.5
55°	265.5	265.0	266.0	265.5	266.5	266.5	267.5	268.0	267.5	267.5	267.5
57.5°	244.0	243.5	244.0	244.4	244.9	244.9	246.4	246.4	244.9	245.9	245.4
60°	222.4	221.9	222.4	222.9	223.4	223.4	223.9	222.9	223.9	224.4	223.9
62.5°	200.8	200.4	201.3	200.8	201.3	201.8	201.8	203.3	202.8	202.8	202.3
65°	179.3	178.8	178.8	178.8	179.3	179.8	180.3	180.8	180.8	181.2	180.8
67.5°	157.2	156.8	157.2	156.8	157.2	157.7	158.7	159.2	159.2	159.7	159.2
70°	134.7	135.2	134.7	135.2	135.7	136.2	136.7	137.7	137.7	137.7	137.7
72.5°	112.7	112.2	112.2	111.7	112.7	113.2	113.6	115.1	115.1	115.6	115.6
75°	91.1	90.1	90.6	90.1	92.1	92.6	92.6	94.1	94.5	95.5	95.0
77.5°	70.1	70.1	69.1	70.5	71.0	72.0	73.0	74.0	74.5	75.9	75.9
80°	50.0	50.0	49.5	50.5	52.4	52.9	54.4	54.9	56.3	57.3	57.8
82.5°	31.8	31.8	31.8	33.3	34.8	35.3	36.7	38.2	39.2	40.7	41.1
85°	15.7	16.7	16.7	18.6	19.6	20.6	21.1	23.0	24.5	26.5	27.9
87.5°	4.9	5.4	5.9	6.9	8.8	9.3	10.3	12.2	13.7	15.7	17.1
90°	0.5	0.5	1.0	1.5	2.4	2.9	3.9	4.9	6.4	7.8	8.8
92.5°	3.4	3.4	3.9	3.9	3.9	3.9	3.9	4.4	4.9	5.9	6.4
95°	8.3	13.2	7.8	7.3	8.3	8.3	8.8	8.3	8.3	8.3	8.3
97.5°	13.7	24.5	16.2	11.3	10.8	11.3	11.3	12.2	12.7	13.2	13.2
100°	20.1	30.9	28.4	18.6	15.2	14.7	14.7	14.7	15.2	15.7	16.2
102.5°	26.5	35.3	40.7	28.9	21.6	19.6	18.6	18.1	17.6	18.1	18.1
105°	32.8	39.7	50.0	39.2	30.9	27.9	25.0	21.6	21.1	21.1	21.1
107.5°	38.7	44.1	56.8	50.9	40.2	37.2	33.8	28.4	25.0	24.5	24.0
110°	44.1	48.5	61.7	60.7	50.5	46.0	43.1	37.2	32.3	28.9	27.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	49.0	52.9	65.2	69.1	61.7	56.3	51.9	46.0	40.7	36.2	32.8
115°	53.9	57.3	68.1	75.9	71.5	67.1	62.2	54.9	49.5	45.1	41.1
117.5°	58.8	61.7	71.0	80.8	79.8	76.9	73.0	64.2	57.8	53.4	49.0
120°	63.2	66.1	74.0	84.3	87.2	84.7	82.3	74.5	66.6	61.7	57.8
122.5°	67.1	69.6	76.9	87.2	92.6	92.1	89.6	84.3	76.4	70.5	65.6
125°	71.0	73.5	79.8	89.2	96.5	98.0	97.0	92.6	86.7	79.8	74.0
127.5°	74.9	76.9	82.8	91.1	99.4	102.4	102.9	99.9	95.5	89.6	83.3
130°	78.4	80.3	85.2	92.6	101.4	104.8	106.8	106.3	102.9	99.0	92.6
132.5°	81.3	82.8	87.7	94.1	102.4	106.3	109.2	111.7	109.2	106.3	101.9
135°	84.3	85.7	89.6	95.5	102.9	106.8	110.7	114.6	115.1	112.7	109.2
137.5°	86.7	87.7	91.6	96.5	102.9	106.8	110.7	116.1	119.0	118.1	115.1
140°	89.2	90.1	93.1	98.0	103.4	106.8	110.2	116.6	120.5	122.0	120.5
142.5°	91.1	92.1	94.5	99.0	103.4	106.3	109.7	115.6	121.0	123.9	124.9
145°	93.1	93.6	96.0	99.4	103.4	105.8	108.7	114.6	120.0	124.4	127.4
147.5°	94.5	95.0	96.5	99.9	103.4	105.3	107.8	112.7	118.1	123.0	127.4
150°	96.0	96.0	97.5	99.9	103.4	104.8	106.8	111.2	115.6	120.5	124.4
152.5°	97.0	97.0	98.5	100.4	102.9	104.3	106.3	109.7	113.6	118.1	122.0
155°	98.0	98.0	99.0	100.4	102.9	103.9	105.3	108.3	111.7	115.1	118.5
157.5°	99.0	99.0	99.4	100.9	102.4	103.4	104.8	107.3	109.7	112.7	115.6
160°	99.4	99.4	99.9	100.9	101.9	102.9	103.9	105.8	108.3	110.2	112.7
162.5°	99.9	99.9	100.4	100.9	101.9	102.4	102.9	104.8	106.3	108.3	110.2
165°	100.4	100.4	100.4	100.9	101.4	101.9	102.4	103.4	104.8	106.3	107.8
167.5°	100.9	100.9	100.9	100.9	101.4	101.4	101.9	102.4	103.4	104.3	105.3
170°	101.4	100.9	100.9	101.4	100.9	100.9	101.4	101.9	101.9	102.9	103.4
172.5°	101.4	101.4	100.9	100.9	100.9	100.9	100.9	100.9	100.9	101.4	101.9
175°	101.4	101.4	100.9	100.9	100.9	100.4	100.4	100.4	100.4	100.4	100.4
177.5°	101.4	101.4	100.9	100.9	100.4	100.4	100.4	100.4	100.4	100.4	100.4
180°	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0	579.0
2.5°	582.9	580.5	579.5	579.0	578.5	578.0	577.1	576.1	575.1	575.1
5°	580.5	578.0	577.1	576.6	576.1	575.6	575.1	575.1	575.1	575.1
7.5°	576.6	574.1	573.1	572.6	572.6	572.2	572.2	572.2	571.7	572.2
10°	570.7	568.2	567.8	567.3	566.8	565.8	565.8	565.8	565.3	565.8
12.5°	563.3	560.9	560.4	559.9	559.4	558.9	558.9	558.4	558.4	558.9
15°	556.0	552.6	551.6	551.6	551.1	550.6	551.1	550.6	550.6	550.6
17.5°	545.2	543.7	542.3	541.3	540.8	540.3	540.3	539.8	539.8	539.8
20°	531.0	531.0	531.0	528.6	528.1	527.6	527.6	527.6	527.6	527.6
22.5°	517.3	514.8	516.8	515.3	514.4	513.4	513.9	513.9	513.9	513.9
25°	502.1	500.1	500.6	501.1	500.1	498.7	498.7	498.7	498.7	498.2
27.5°	485.9	484.5	484.0	484.5	485.5	484.5	483.0	481.5	482.0	482.0
30°	468.3	467.8	467.3	466.3	467.3	467.8	465.4	464.9	464.9	464.9
32.5°	450.7	450.2	448.7	447.7	448.2	449.2	448.2	447.2	447.2	447.2
35°	433.0	431.1	429.6	429.1	429.1	430.1	429.6	428.1	428.1	428.1
37.5°	412.5	413.0	410.5	410.0	410.0	410.0	411.0	408.5	409.0	408.5
40°	392.4	392.9	391.4	389.9	390.4	389.4	390.9	388.5	388.5	388.5
42.5°	372.3	371.3	371.8	368.9	369.4	369.4	369.8	368.4	367.9	367.4
45°	351.7	350.7	350.3	348.8	348.8	348.3	348.3	346.3	346.3	346.3
47.5°	330.2	329.7	328.7	327.7	327.7	327.2	326.2	325.8	325.3	325.3
50°	309.6	308.1	306.7	307.1	306.7	306.2	305.2	304.7	304.2	303.7
52.5°	287.5	287.5	285.6	285.6	285.6	285.1	284.1	283.1	283.1	282.7
55°	266.0	265.5	264.0	263.5	264.0	263.5	262.6	261.6	261.6	261.1
57.5°	244.4	243.5	243.0	243.0	242.5	242.5	241.0	240.0	240.5	240.0
60°	222.4	222.4	221.9	221.4	221.4	220.9	219.5	219.5	219.5	219.0
62.5°	201.3	201.3	200.4	199.9	200.4	199.9	199.4	198.9	198.4	197.9
65°	179.3	179.8	178.8	179.3	179.3	178.3	178.3	177.8	177.8	177.3
67.5°	158.7	158.7	158.2	158.2	158.7	158.2	158.2	157.7	157.7	157.2
70°	137.7	138.6	138.1	138.1	138.1	137.7	137.7	137.7	137.2	137.7
72.5°	116.6	116.6	116.6	116.6	116.6	117.1	117.1	117.1	117.1	116.6
75°	97.0	97.5	97.0	97.5	98.0	98.0	98.0	98.0	98.5	98.0
77.5°	77.9	78.4	78.4	79.4	79.4	79.4	79.8	79.8	79.8	79.8
80°	59.8	60.3	60.7	61.7	61.7	62.7	63.2	63.2	63.2	63.2
82.5°	43.1	44.6	45.1	46.5	47.0	47.0	48.0	48.5	48.5	48.5
85°	29.9	31.4	32.3	33.3	34.3	34.3	35.3	35.3	35.8	35.8
87.5°	18.6	20.1	21.1	22.5	23.0	23.5	24.0	24.5	25.0	25.0
90°	10.3	11.3	12.2	13.2	13.2	13.7	14.2	14.7	15.2	15.2
92.5°	7.3	7.8	8.8	9.3	9.3	9.8	10.3	10.3	10.8	10.8
95°	8.3	8.8	8.8	9.3	9.3	9.3	9.8	9.8	9.8	9.8
97.5°	12.7	12.7	12.7	12.2	12.2	12.2	12.2	12.2	12.2	12.2
100°	16.7	17.1	17.1	17.1	17.6	17.6	17.6	17.6	17.1	17.1
102.5°	18.6	19.1	19.6	20.1	20.1	20.1	20.6	20.6	20.6	20.6
105°	21.1	21.1	21.6	22.0	22.0	22.0	22.5	22.5	22.5	22.5
107.5°	24.0	24.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
110°	27.4	27.4	27.4	26.9	27.4	26.9	26.9	26.9	26.9	26.9



TEST NUMBER: P395804

CATALOG NUMBER: I3-WL-20L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	31.4	30.9	30.9	30.4	30.4	30.4	29.9	29.9	29.9	29.9
115°	37.7	35.3	34.3	33.3	33.3	33.3	32.8	32.8	32.8	32.8
117.5°	45.6	42.1	40.2	38.2	37.7	37.2	36.2	36.2	35.8	35.8
120°	53.9	50.5	47.5	45.1	44.1	43.6	42.1	41.1	40.2	40.2
122.5°	61.7	58.3	55.4	52.9	51.9	50.9	49.5	48.5	47.5	47.5
125°	69.6	66.1	63.2	60.7	59.3	58.3	56.8	55.8	54.9	54.9
127.5°	77.9	73.5	70.5	68.1	66.6	66.1	64.2	63.2	62.2	62.2
130°	87.2	81.8	77.9	74.9	74.0	73.0	71.5	70.5	69.6	69.6
132.5°	96.5	91.1	86.7	82.8	81.3	80.3	78.4	77.4	76.4	76.4
135°	105.3	100.4	96.0	92.1	90.6	89.2	87.2	85.2	84.3	84.3
137.5°	112.2	108.7	104.8	101.4	99.9	98.5	96.5	94.5	93.1	93.6
140°	118.1	115.1	112.7	110.2	108.7	107.8	105.8	104.3	102.9	102.9
142.5°	123.4	121.0	118.5	116.6	116.1	115.6	114.1	112.7	111.7	111.7
145°	128.3	126.9	124.9	122.5	122.0	121.5	120.0	119.0	118.5	118.5
147.5°	129.8	130.3	129.8	128.3	127.9	127.4	126.4	125.4	124.9	124.9
150°	128.8	130.8	131.8	131.8	131.8	131.8	131.8	130.8	130.3	130.3
152.5°	125.9	128.8	130.8	132.3	132.8	133.2	133.2	133.7	133.2	133.2
155°	122.5	125.4	128.3	129.8	130.8	131.3	132.3	132.8	133.2	132.8
157.5°	118.5	121.0	123.0	125.9	126.9	127.9	128.8	129.8	130.3	129.8
160°	115.1	117.1	118.5	120.5	121.0	122.0	123.0	123.4	124.4	123.9
162.5°	111.7	113.2	114.6	115.6	116.6	117.1	118.1	118.5	119.0	118.5
165°	109.2	110.2	110.7	111.7	112.2	112.7	113.2	113.6	113.6	113.6
167.5°	106.3	107.3	107.8	108.3	108.7	109.2	109.2	109.7	109.7	109.7
170°	103.9	104.3	104.8	105.3	105.3	105.8	105.8	105.8	106.3	105.8
172.5°	101.9	101.9	101.9	102.4	102.4	102.4	102.4	102.4	102.4	101.9
175°	100.9	100.9	100.4	100.4	100.4	100.4	100.4	99.9	99.4	99.0
177.5°	100.4	99.9	99.9	99.4	99.4	99.4	99.0	98.5	98.0	97.5
180°	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

(END OF REPORT)