

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: P395820

Luminaire Tested: **I3-WL-20L92765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395820
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-20L92765-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, DOWNLIGHT TRAY
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1814.2 lumens
Efficiency: N/A
Efficacy: 104.3 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

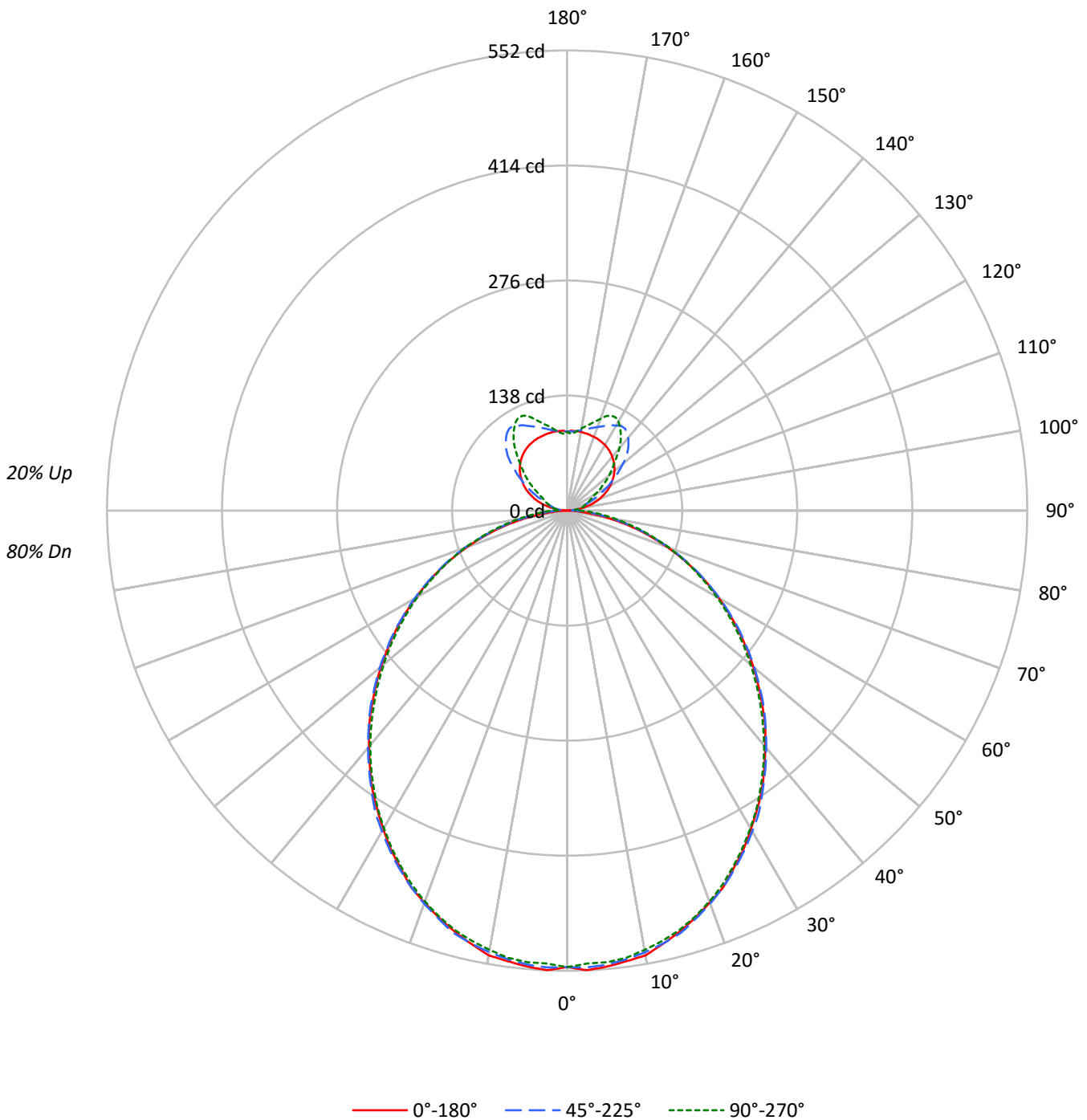
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3010	3010	3010
5°	3018	2948	2916
10°	3000	2868	2821
15°	2940	2788	2720
20°	2882	2676	2603
25°	2813	2563	2473
30°	2732	2445	2340
35°	2656	2314	2203
40°	2561	2180	2060
45°	2470	2049	1909
50°	2371	1905	1758
55°	2268	1757	1603
60°	2153	1594	1443
65°	2021	1417	1272
70°	1833	1209	1092
75°	1580	958	877
80°	1206	691	655
85°	628	412	443



TEST NUMBER: P395820

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	2.9
10°-20°	146.7	8.1
20°-30°	217.3	12.0
30°-40°	254.0	14.0
40°-50°	255.1	14.1
50°-60°	224.2	12.4
60°-70°	168.0	9.3
70°-80°	95.5	5.3
80°-90°	30.2	1.7
90°-100°	10.9	0.6
100°-110°	26.5	1.5
110°-120°	44.0	2.4
120°-130°	61.8	3.4
130°-140°	71.2	3.9
140°-150°	68.0	3.7
150°-160°	51.1	2.8
160°-170°	28.9	1.6
170°-180°	9.2	0.5
0°-30°	415.8	22.9
0°-40°	669.7	36.9
0°-60°	1149.0	63.3
0°-90°	1442.7	79.5
90°-120°	81.4	4.5
90°-150°	282.3	15.6
90°-180°	371.0	20.4
0°-180°	1814.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	549	543	547	545	544	52
15°	523	518	525	521	521	147
25°	473	472	475	473	471	218
35°	408	404	409	406	405	255
45°	331	331	334	330	328	256
55°	251	252	253	250	247	224
65°	170	170	171	170	168	167
75°	86	88	90	93	93	91
85°	15	20	26	32	34	19
90°	0	3	8	12	14	1
95°	8	8	8	9	9	9
105°	31	26	20	21	21	32
115°	51	64	39	32	31	50
125°	67	93	70	56	52	60
135°	80	101	103	86	80	61
145°	88	100	120	115	112	55
155°	93	98	112	124	126	43
165°	95	96	102	106	108	27
175°	96	95	95	95	94	9
180°	94	94	94	94	94	



TEST NUMBER: P395820

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	547.6	547.6	547.6	547.6	547.6	547.6	547.6	547.6	547.6	547.6	547.6
2.5°	551.8	550.9	548.5	546.2	545.8	545.3	545.3	544.8	544.8	545.8	548.5
5°	549.0	548.5	546.2	543.9	543.4	543.4	543.0	543.0	543.0	543.9	546.7
7.5°	545.3	544.4	542.0	539.7	539.3	539.3	539.3	538.8	539.3	539.7	543.0
10°	541.6	541.1	538.8	536.0	535.1	535.1	534.6	533.7	533.7	534.6	537.9
12.5°	532.3	531.9	529.5	527.7	527.7	528.1	528.1	528.6	528.6	529.5	531.9
15°	522.6	522.1	519.8	518.0	518.0	518.0	517.5	517.5	518.0	520.7	524.9
17.5°	511.9	511.5	509.6	507.8	507.8	507.8	507.3	507.3	507.8	509.2	513.3
20°	500.4	499.9	498.0	496.2	496.2	496.2	495.7	496.2	496.2	498.0	501.7
22.5°	489.2	488.3	486.0	484.1	483.2	483.2	483.2	482.7	483.7	485.1	488.8
25°	473.0	472.6	471.6	470.2	471.2	471.6	470.7	469.8	469.8	471.6	474.9
27.5°	458.2	457.3	455.9	454.5	453.6	454.0	454.5	455.4	456.8	457.3	460.0
30°	441.1	440.6	439.2	437.3	437.8	438.3	438.3	438.3	439.2	443.4	444.3
32.5°	424.4	423.9	422.5	420.7	421.1	421.6	421.1	421.6	422.5	424.4	428.5
35°	407.7	406.8	405.4	404.9	404.5	404.5	404.5	404.9	405.4	406.8	409.1
37.5°	388.7	387.8	386.8	385.5	386.4	387.3	387.8	387.3	387.8	389.6	390.6
40°	369.7	369.2	368.3	367.4	367.9	368.3	367.9	369.2	370.2	371.1	371.6
42.5°	351.6	350.7	349.8	349.3	349.3	349.8	349.8	350.7	350.7	353.0	352.6
45°	331.3	330.8	330.3	330.3	330.8	330.8	330.8	331.3	331.7	333.1	333.6
47.5°	311.3	310.9	310.9	310.9	310.9	311.3	311.8	313.2	312.3	312.7	313.2
50°	291.4	290.9	290.9	290.9	291.9	291.9	292.8	293.3	293.7	292.8	293.3
52.5°	271.0	270.6	271.5	271.5	272.4	272.4	273.8	272.4	273.3	272.9	272.9
55°	251.1	250.6	251.6	251.1	252.0	252.0	253.0	253.4	253.0	253.0	253.0
57.5°	230.7	230.3	230.7	231.2	231.6	231.6	233.0	233.0	231.6	232.6	232.1
60°	210.3	209.9	210.3	210.8	211.3	211.3	211.7	210.8	211.7	212.2	211.7
62.5°	189.9	189.5	190.4	189.9	190.4	190.9	190.9	192.3	191.8	191.8	191.3
65°	169.6	169.1	169.1	169.1	169.6	170.0	170.5	171.0	171.0	171.4	171.0
67.5°	148.7	148.3	148.7	148.3	148.7	149.2	150.1	150.6	150.6	151.0	150.6
70°	127.4	127.9	127.4	127.9	128.3	128.8	129.3	130.2	130.2	130.2	130.2
72.5°	106.6	106.1	106.1	105.6	106.6	107.0	107.5	108.9	108.9	109.3	109.3
75°	86.2	85.2	85.7	85.2	87.1	87.6	87.6	89.0	89.4	90.3	89.9
77.5°	66.3	66.3	65.3	66.7	67.2	68.1	69.0	70.0	70.4	71.8	71.8
80°	47.3	47.3	46.8	47.7	49.6	50.0	51.4	51.9	53.3	54.2	54.7
82.5°	30.1	30.1	30.1	31.5	32.9	33.4	34.7	36.1	37.1	38.5	38.9
85°	14.8	15.8	15.8	17.6	18.5	19.5	19.9	21.8	23.2	25.0	26.4
87.5°	4.6	5.1	5.6	6.5	8.3	8.8	9.7	11.6	13.0	14.8	16.2
90°	0.5	0.5	0.9	1.4	2.3	2.8	3.7	4.6	6.0	7.4	8.3
92.5°	3.2	3.2	3.7	3.7	3.7	3.7	3.7	4.2	4.6	5.6	6.0
95°	7.9	12.5	7.4	6.9	7.9	7.9	8.3	7.9	7.9	7.9	7.9
97.5°	13.0	23.2	15.3	10.7	10.2	10.7	10.7	11.6	12.0	12.5	12.5
100°	19.0	29.2	26.9	17.6	14.4	13.9	13.9	13.9	14.4	14.8	15.3
102.5°	25.0	33.4	38.5	27.3	20.4	18.5	17.6	17.1	16.7	17.1	17.1
105°	31.0	37.5	47.3	37.1	29.2	26.4	23.6	20.4	19.9	19.9	19.9
107.5°	36.6	41.7	53.7	48.2	38.0	35.2	32.0	26.9	23.6	23.2	22.7
110°	41.7	45.9	58.4	57.4	47.7	43.5	40.8	35.2	30.6	27.3	25.9



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CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	46.3	50.0	61.6	65.3	58.4	53.3	49.1	43.5	38.5	34.3	31.0
115°	51.0	54.2	64.4	71.8	67.6	63.5	58.8	51.9	46.8	42.6	38.9
117.5°	55.6	58.4	67.2	76.4	75.5	72.7	69.0	60.7	54.7	50.5	46.3
120°	59.8	62.5	70.0	79.7	82.5	80.1	77.8	70.4	63.0	58.4	54.7
122.5°	63.5	65.8	72.7	82.5	87.6	87.1	84.8	79.7	72.3	66.7	62.1
125°	67.2	69.5	75.5	84.3	91.3	92.7	91.7	87.6	82.0	75.5	70.0
127.5°	70.9	72.7	78.3	86.2	94.0	96.8	97.3	94.5	90.3	84.8	78.8
130°	74.1	76.0	80.6	87.6	95.9	99.1	101.0	100.5	97.3	93.6	87.6
132.5°	76.9	78.3	82.9	89.0	96.8	100.5	103.3	105.6	103.3	100.5	96.4
135°	79.7	81.1	84.8	90.3	97.3	101.0	104.7	108.4	108.9	106.6	103.3
137.5°	82.0	82.9	86.6	91.3	97.3	101.0	104.7	109.8	112.6	111.7	108.9
140°	84.3	85.2	88.0	92.7	97.8	101.0	104.2	110.3	114.0	115.4	114.0
142.5°	86.2	87.1	89.4	93.6	97.8	100.5	103.8	109.3	114.4	117.2	118.1
145°	88.0	88.5	90.8	94.0	97.8	100.1	102.9	108.4	113.5	117.7	120.5
147.5°	89.4	89.9	91.3	94.5	97.8	99.6	101.9	106.6	111.7	116.3	120.5
150°	90.8	90.8	92.2	94.5	97.8	99.1	101.0	105.2	109.3	114.0	117.7
152.5°	91.7	91.7	93.1	95.0	97.3	98.7	100.5	103.8	107.5	111.7	115.4
155°	92.7	92.7	93.6	95.0	97.3	98.2	99.6	102.4	105.6	108.9	112.1
157.5°	93.6	93.6	94.0	95.4	96.8	97.8	99.1	101.5	103.8	106.6	109.3
160°	94.0	94.0	94.5	95.4	96.4	97.3	98.2	100.1	102.4	104.2	106.6
162.5°	94.5	94.5	95.0	95.4	96.4	96.8	97.3	99.1	100.5	102.4	104.2
165°	95.0	95.0	95.0	95.4	95.9	96.4	96.8	97.8	99.1	100.5	101.9
167.5°	95.4	95.4	95.4	95.4	95.9	95.9	96.4	96.8	97.8	98.7	99.6
170°	95.9	95.4	95.4	95.9	95.4	95.4	95.9	96.4	96.4	97.3	97.8
172.5°	95.9	95.9	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.9	96.4
175°	95.9	95.9	95.4	95.4	95.4	95.0	95.0	95.0	95.0	95.0	95.0
177.5°	95.9	95.9	95.4	95.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0
180°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	547.6	547.6	547.6	547.6	547.6	547.6	547.6	547.6	547.6	547.6
2.5°	551.3	549.0	548.1	547.6	547.1	546.7	545.8	544.8	543.9	543.9
5°	549.0	546.7	545.8	545.3	544.8	544.4	543.9	543.9	543.9	543.9
7.5°	545.3	543.0	542.0	541.6	541.6	541.1	541.1	541.1	540.7	541.1
10°	539.7	537.4	537.0	536.5	536.0	535.1	535.1	535.1	534.6	535.1
12.5°	532.8	530.5	530.0	529.5	529.1	528.6	528.6	528.1	528.1	528.6
15°	525.8	522.6	521.7	521.7	521.2	520.7	521.2	520.7	520.7	520.7
17.5°	515.6	514.3	512.9	511.9	511.5	511.0	511.0	510.5	510.5	510.5
20°	502.2	502.2	502.2	499.9	499.4	499.0	499.0	499.0	499.0	499.0
22.5°	489.2	486.9	488.8	487.4	486.5	485.5	486.0	486.0	486.0	486.0
25°	474.9	473.0	473.5	473.9	473.0	471.6	471.6	471.6	471.6	471.2
27.5°	459.6	458.2	457.7	458.2	459.1	458.2	456.8	455.4	455.9	455.9
30°	442.9	442.4	442.0	441.1	442.0	442.4	440.1	439.7	439.7	439.7
32.5°	426.2	425.8	424.4	423.4	423.9	424.8	423.9	423.0	423.0	423.0
35°	409.5	407.7	406.3	405.8	405.8	406.8	406.3	404.9	404.9	404.9
37.5°	390.1	390.6	388.2	387.8	387.8	387.8	388.7	386.4	386.8	386.4
40°	371.1	371.6	370.2	368.8	369.2	368.3	369.7	367.4	367.4	367.4
42.5°	352.1	351.2	351.6	348.9	349.3	349.3	349.8	348.4	347.9	347.5
45°	332.6	331.7	331.3	329.9	329.9	329.4	329.4	327.5	327.5	327.5
47.5°	312.3	311.8	310.9	309.9	309.9	309.5	308.6	308.1	307.6	307.6
50°	292.8	291.4	290.0	290.5	290.0	289.6	288.6	288.2	287.7	287.2
52.5°	272.0	272.0	270.1	270.1	270.1	269.6	268.7	267.8	267.8	267.3
55°	251.6	251.1	249.7	249.2	249.7	249.2	248.3	247.4	247.4	246.9
57.5°	231.2	230.3	229.8	229.8	229.3	229.3	227.9	227.0	227.5	227.0
60°	210.3	210.3	209.9	209.4	209.4	208.9	207.6	207.6	207.6	207.1
62.5°	190.4	190.4	189.5	189.0	189.5	189.0	188.6	188.1	187.6	187.2
65°	169.6	170.0	169.1	169.6	169.6	168.6	168.6	168.2	168.2	167.7
67.5°	150.1	150.1	149.6	149.6	150.1	149.6	149.6	149.2	149.2	148.7
70°	130.2	131.1	130.6	130.6	130.6	130.2	130.2	130.2	129.7	130.2
72.5°	110.3	110.3	110.3	110.3	110.3	110.7	110.7	110.7	110.7	110.3
75°	91.7	92.2	91.7	92.2	92.7	92.7	92.7	92.7	93.1	92.7
77.5°	73.7	74.1	74.1	75.1	75.1	75.1	75.5	75.5	75.5	75.5
80°	56.5	57.0	57.4	58.4	58.4	59.3	59.8	59.8	59.8	59.8
82.5°	40.8	42.2	42.6	44.0	44.5	44.5	45.4	45.9	45.9	45.9
85°	28.3	29.7	30.6	31.5	32.4	32.4	33.4	33.4	33.8	33.8
87.5°	17.6	19.0	19.9	21.3	21.8	22.2	22.7	23.2	23.6	23.6
90°	9.7	10.7	11.6	12.5	12.5	13.0	13.4	13.9	14.4	14.4
92.5°	6.9	7.4	8.3	8.8	8.8	9.3	9.7	9.7	10.2	10.2
95°	7.9	8.3	8.3	8.8	8.8	8.8	9.3	9.3	9.3	9.3
97.5°	12.0	12.0	12.0	11.6	11.6	11.6	11.6	11.6	11.6	11.6
100°	15.8	16.2	16.2	16.2	16.7	16.7	16.7	16.7	16.2	16.2
102.5°	17.6	18.1	18.5	19.0	19.0	19.0	19.5	19.5	19.5	19.5
105°	19.9	19.9	20.4	20.8	20.8	20.8	21.3	21.3	21.3	21.3
107.5°	22.7	22.7	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
110°	25.9	25.9	25.9	25.5	25.9	25.5	25.5	25.5	25.5	25.5



TEST NUMBER: P395820

CATALOG NUMBER: I3-WL-20L92765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	29.7	29.2	29.2	28.7	28.7	28.7	28.3	28.3	28.3	28.3
115°	35.7	33.4	32.4	31.5	31.5	31.5	31.0	31.0	31.0	31.0
117.5°	43.1	39.8	38.0	36.1	35.7	35.2	34.3	34.3	33.8	33.8
120°	51.0	47.7	44.9	42.6	41.7	41.2	39.8	38.9	38.0	38.0
122.5°	58.4	55.1	52.4	50.0	49.1	48.2	46.8	45.9	44.9	44.9
125°	65.8	62.5	59.8	57.4	56.1	55.1	53.7	52.8	51.9	51.9
127.5°	73.7	69.5	66.7	64.4	63.0	62.5	60.7	59.8	58.8	58.8
130°	82.5	77.4	73.7	70.9	70.0	69.0	67.6	66.7	65.8	65.8
132.5°	91.3	86.2	82.0	78.3	76.9	76.0	74.1	73.2	72.3	72.3
135°	99.6	95.0	90.8	87.1	85.7	84.3	82.5	80.6	79.7	79.7
137.5°	106.1	102.9	99.1	95.9	94.5	93.1	91.3	89.4	88.0	88.5
140°	111.7	108.9	106.6	104.2	102.9	101.9	100.1	98.7	97.3	97.3
142.5°	116.7	114.4	112.1	110.3	109.8	109.3	107.9	106.6	105.6	105.6
145°	121.4	120.0	118.1	115.8	115.4	114.9	113.5	112.6	112.1	112.1
147.5°	122.8	123.2	122.8	121.4	120.9	120.5	119.5	118.6	118.1	118.1
150°	121.8	123.7	124.6	124.6	124.6	124.6	124.6	123.7	123.2	123.2
152.5°	119.1	121.8	123.7	125.1	125.6	126.0	126.0	126.5	126.0	126.0
155°	115.8	118.6	121.4	122.8	123.7	124.2	125.1	125.6	126.0	125.6
157.5°	112.1	114.4	116.3	119.1	120.0	120.9	121.8	122.8	123.2	122.8
160°	108.9	110.7	112.1	114.0	114.4	115.4	116.3	116.7	117.7	117.2
162.5°	105.6	107.0	108.4	109.3	110.3	110.7	111.7	112.1	112.6	112.1
165°	103.3	104.2	104.7	105.6	106.1	106.6	107.0	107.5	107.5	107.5
167.5°	100.5	101.5	101.9	102.4	102.9	103.3	103.3	103.8	103.8	103.8
170°	98.2	98.7	99.1	99.6	99.6	100.1	100.1	100.1	100.5	100.1
172.5°	96.4	96.4	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.4
175°	95.4	95.4	95.0	95.0	95.0	95.0	95.0	94.5	94.0	93.6
177.5°	95.0	94.5	94.5	94.0	94.0	94.0	93.6	93.1	92.7	92.2
180°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5

(END OF REPORT)