

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: P395831

Luminaire Tested: **I3-WL-30L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395831
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-30L82765-1D-UNV-W2A-W-4 (4000K)
Description: CORELITE I3, DOWNLIGHT TRAY
3000 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: 2851.8 lumens
Efficiency: N/A
Efficacy: 109.3 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

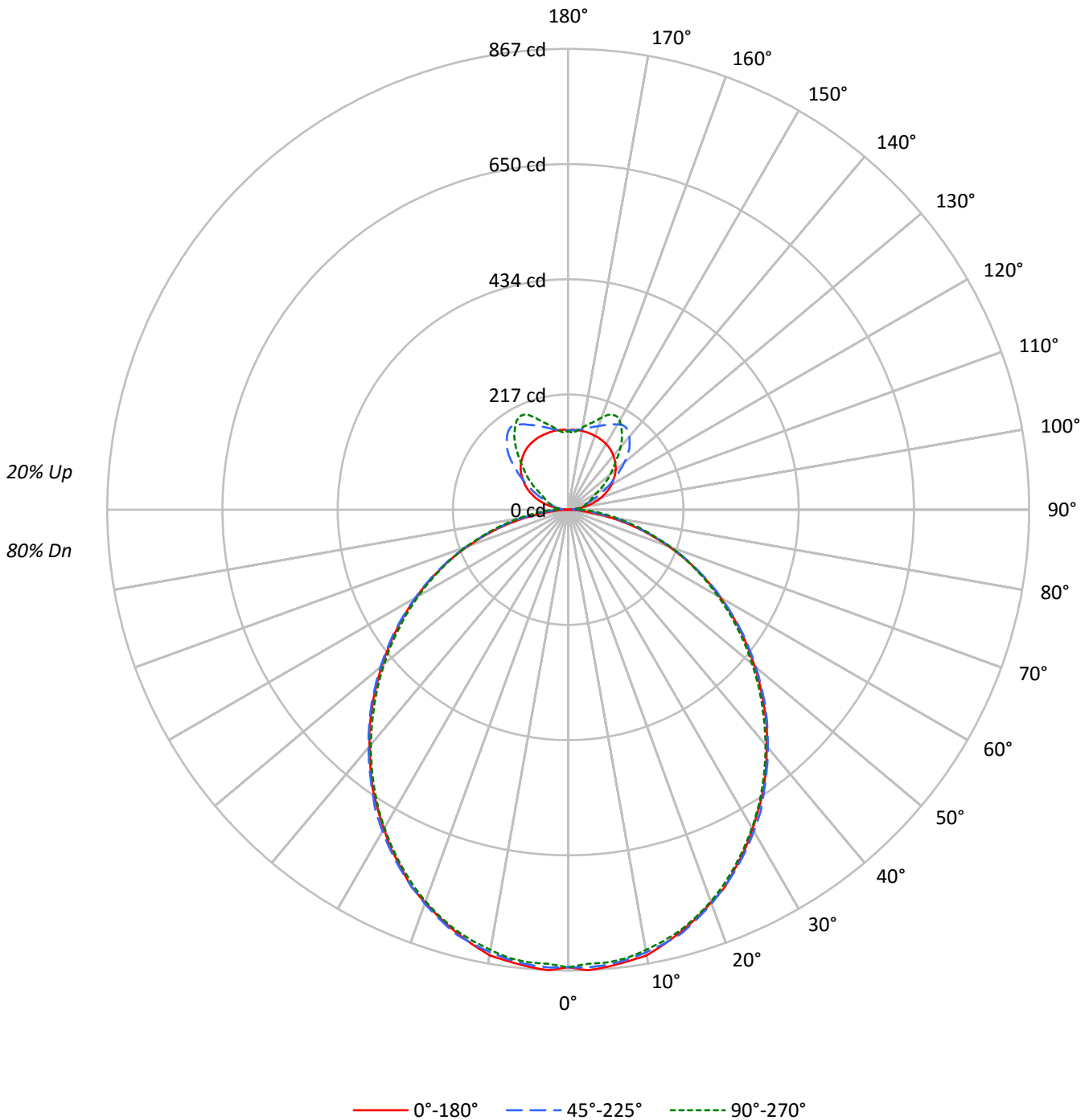
Input Watts (W): 26.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P395831

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (4000K)

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°	4731	4731	4731
5°	4744	4633	4584
10°	4716	4508	4434
15°	4622	4383	4276
20°	4530	4206	4091
25°	4421	4028	3887
30°	4295	3843	3678
35°	4176	3638	3463
40°	4026	3427	3238
45°	3882	3220	3002
50°	3728	2994	2763
55°	3566	2762	2520
60°	3385	2505	2268
65°	3176	2226	1999
70°	2882	1900	1716
75°	2483	1506	1378
80°	1895	1084	1028
85°	989	648	698



TEST NUMBER: P395831

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	2.9
10°-20°	230.7	8.1
20°-30°	341.6	12.0
30°-40°	399.2	14.0
40°-50°	401.0	14.1
50°-60°	352.4	12.4
60°-70°	264.1	9.3
70°-80°	150.2	5.3
80°-90°	47.4	1.7
90°-100°	17.1	0.6
100°-110°	41.6	1.5
110°-120°	69.2	2.4
120°-130°	97.1	3.4
130°-140°	111.9	3.9
140°-150°	106.8	3.7
150°-160°	80.4	2.8
160°-170°	45.5	1.6
170°-180°	14.4	0.5
0°-30°	653.6	22.9
0°-40°	1052.8	36.9
0°-60°	1806.2	63.3
0°-90°	2267.8	79.5
90°-120°	127.9	4.5
90°-150°	443.7	15.6
90°-180°	584.0	20.5
0°-180°	2851.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	863	854	859	856	855	82
15°	822	814	825	819	819	232
25°	744	741	746	744	741	343
35°	641	636	643	638	636	400
45°	521	520	524	518	515	402
55°	395	396	398	392	388	353
65°	266	267	269	266	264	263
75°	136	138	141	146	146	143
85°	23	31	42	51	53	30
90°	1	4	13	20	23	2
95°	12	12	12	14	15	14
105°	49	42	31	33	34	51
115°	80	100	61	50	49	79
125°	106	146	110	88	82	94
135°	125	159	162	135	125	97
145°	138	157	189	181	176	87
155°	146	154	176	194	197	67
165°	149	152	160	167	169	42
175°	151	149	149	149	147	14
180°	149	149	149	149	149	



TEST NUMBER: P395831

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8
2.5°	867.3	865.9	862.2	858.6	857.9	857.1	857.1	856.4	856.4	857.9	862.2
5°	863.0	862.2	858.6	855.0	854.2	854.2	853.5	853.5	853.5	855.0	859.3
7.5°	857.1	855.7	852.1	848.4	847.7	847.7	847.7	847.0	847.7	848.4	853.5
10°	851.3	850.6	847.0	842.6	841.1	841.1	840.4	838.9	838.9	840.4	845.5
12.5°	836.8	836.0	832.4	829.5	829.5	830.2	830.2	830.9	830.9	832.4	836.0
15°	821.5	820.7	817.1	814.2	814.2	814.2	813.5	813.5	814.2	818.6	825.1
17.5°	804.7	804.0	801.1	798.2	798.2	798.2	797.4	797.4	798.2	800.3	806.9
20°	786.5	785.8	782.9	780.0	780.0	780.0	779.2	780.0	780.0	782.9	788.7
22.5°	769.0	767.6	763.9	761.0	759.6	759.6	759.6	758.8	760.3	762.5	768.3
25°	743.5	742.8	741.4	739.2	740.6	741.4	739.9	738.4	738.4	741.4	746.5
27.5°	720.2	718.8	716.6	714.4	713.0	713.7	714.4	715.9	718.1	718.8	723.2
30°	693.3	692.6	690.4	687.5	688.2	688.9	688.9	688.9	690.4	696.9	698.4
32.5°	667.1	666.3	664.2	661.2	662.0	662.7	662.0	662.7	664.2	667.1	673.6
35°	640.9	639.4	637.2	636.5	635.8	635.8	635.8	636.5	637.2	639.4	643.0
37.5°	611.0	609.5	608.1	605.9	607.4	608.8	609.5	608.8	609.5	612.5	613.9
40°	581.1	580.4	579.0	577.5	578.2	579.0	578.2	580.4	581.9	583.3	584.1
42.5°	552.7	551.3	549.8	549.1	549.1	549.8	549.8	551.3	551.3	554.9	554.2
45°	520.7	520.0	519.2	519.2	520.0	520.0	520.0	520.7	521.4	523.6	524.3
47.5°	489.4	488.7	488.7	488.7	488.7	489.4	490.1	492.3	490.8	491.6	492.3
50°	458.1	457.3	457.3	457.3	458.8	458.8	460.3	461.0	461.7	460.3	461.0
52.5°	426.0	425.3	426.8	426.8	428.2	428.2	430.4	428.2	429.7	428.9	428.9
55°	394.7	394.0	395.4	394.7	396.2	396.2	397.6	398.4	397.6	397.6	397.6
57.5°	362.7	361.9	362.7	363.4	364.1	364.1	366.3	366.3	364.1	365.6	364.9
60°	330.6	329.9	330.6	331.4	332.1	332.1	332.8	331.4	332.8	333.5	332.8
62.5°	298.6	297.9	299.3	298.6	299.3	300.0	300.0	302.2	301.5	301.5	300.8
65°	266.5	265.8	265.8	265.8	266.5	267.3	268.0	268.7	268.7	269.5	268.7
67.5°	233.8	233.0	233.8	233.0	233.8	234.5	236.0	236.7	236.7	237.4	236.7
70°	200.3	201.0	200.3	201.0	201.7	202.5	203.2	204.6	204.6	204.6	204.6
72.5°	167.5	166.8	166.8	166.0	167.5	168.2	169.0	171.1	171.1	171.9	171.9
75°	135.5	134.0	134.7	134.0	136.9	137.6	137.6	139.8	140.6	142.0	141.3
77.5°	104.1	104.1	102.7	104.9	105.6	107.1	108.5	110.0	110.7	112.9	112.9
80°	74.3	74.3	73.6	75.0	77.9	78.7	80.8	81.6	83.7	85.2	85.9
82.5°	47.3	47.3	47.3	49.5	51.7	52.4	54.6	56.8	58.3	60.4	61.2
85°	23.3	24.8	24.8	27.7	29.1	30.6	31.3	34.2	36.4	39.3	41.5
87.5°	7.3	8.0	8.7	10.2	13.1	13.8	15.3	18.2	20.4	23.3	25.5
90°	0.7	0.7	1.5	2.2	3.6	4.4	5.8	7.3	9.5	11.7	13.1
92.5°	5.1	5.1	5.8	5.8	5.8	5.8	5.8	6.6	7.3	8.7	9.5
95°	12.4	19.7	11.7	10.9	12.4	12.4	13.1	12.4	12.4	12.4	12.4
97.5°	20.4	36.4	24.0	16.7	16.0	16.7	16.7	18.2	18.9	19.7	19.7
100°	29.9	45.9	42.2	27.7	22.6	21.8	21.8	21.8	22.6	23.3	24.0
102.5°	39.3	52.4	60.4	43.0	32.0	29.1	27.7	26.9	26.2	26.9	26.9
105°	48.8	59.0	74.3	58.3	45.9	41.5	37.1	32.0	31.3	31.3	31.3
107.5°	57.5	65.5	84.5	75.7	59.7	55.3	50.2	42.2	37.1	36.4	35.7
110°	65.5	72.1	91.8	90.3	75.0	68.5	64.1	55.3	48.1	43.0	40.8



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CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	72.8	78.7	96.9	102.7	91.8	83.7	77.2	68.5	60.4	53.9	48.8
115°	80.1	85.2	101.2	112.9	106.3	99.8	92.5	81.6	73.6	67.0	61.2
117.5°	87.4	91.8	105.6	120.2	118.7	114.3	108.5	95.4	85.9	79.4	72.8
120°	93.9	98.3	110.0	125.3	129.6	126.0	122.3	110.7	99.0	91.8	85.9
122.5°	99.8	103.4	114.3	129.6	137.6	136.9	133.3	125.3	113.6	104.9	97.6
125°	105.6	109.2	118.7	132.5	143.5	145.6	144.2	137.6	128.9	118.7	110.0
127.5°	111.4	114.3	123.1	135.5	147.8	152.2	152.9	148.6	142.0	133.3	123.8
130°	116.5	119.4	126.7	137.6	150.7	155.8	158.8	158.0	152.9	147.1	137.6
132.5°	120.9	123.1	130.4	139.8	152.2	158.0	162.4	166.0	162.4	158.0	151.5
135°	125.3	127.4	133.3	142.0	152.9	158.8	164.6	170.4	171.1	167.5	162.4
137.5°	128.9	130.4	136.2	143.5	152.9	158.8	164.6	172.6	177.0	175.5	171.1
140°	132.5	134.0	138.4	145.6	153.7	158.8	163.9	173.3	179.1	181.3	179.1
142.5°	135.5	136.9	140.6	147.1	153.7	158.0	163.1	171.9	179.9	184.2	185.7
145°	138.4	139.1	142.7	147.8	153.7	157.3	161.7	170.4	178.4	185.0	189.3
147.5°	140.6	141.3	143.5	148.6	153.7	156.6	160.2	167.5	175.5	182.8	189.3
150°	142.7	142.7	144.9	148.6	153.7	155.8	158.8	165.3	171.9	179.1	185.0
152.5°	144.2	144.2	146.4	149.3	152.9	155.1	158.0	163.1	169.0	175.5	181.3
155°	145.6	145.6	147.1	149.3	152.9	154.4	156.6	160.9	166.0	171.1	176.2
157.5°	147.1	147.1	147.8	150.0	152.2	153.7	155.8	159.5	163.1	167.5	171.9
160°	147.8	147.8	148.6	150.0	151.5	152.9	154.4	157.3	160.9	163.9	167.5
162.5°	148.6	148.6	149.3	150.0	151.5	152.2	152.9	155.8	158.0	160.9	163.9
165°	149.3	149.3	149.3	150.0	150.7	151.5	152.2	153.7	155.8	158.0	160.2
167.5°	150.0	150.0	150.0	150.0	150.7	150.7	151.5	152.2	153.7	155.1	156.6
170°	150.7	150.0	150.0	150.7	150.0	150.0	150.7	151.5	151.5	152.9	153.7
172.5°	150.7	150.7	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.7	151.5
175°	150.7	150.7	150.0	150.0	150.0	149.3	149.3	149.3	149.3	149.3	149.3
177.5°	150.7	150.7	150.0	150.0	149.3	149.3	149.3	149.3	149.3	149.3	149.3
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8	860.8
2.5°	866.6	863.0	861.5	860.8	860.1	859.3	857.9	856.4	855.0	855.0
5°	863.0	859.3	857.9	857.1	856.4	855.7	855.0	855.0	855.0	855.0
7.5°	857.1	853.5	852.1	851.3	851.3	850.6	850.6	850.6	849.9	850.6
10°	848.4	844.8	844.0	843.3	842.6	841.1	841.1	841.1	840.4	841.1
12.5°	837.5	833.8	833.1	832.4	831.7	830.9	830.9	830.2	830.2	830.9
15°	826.6	821.5	820.0	820.0	819.3	818.6	819.3	818.6	818.6	818.6
17.5°	810.5	808.4	806.2	804.7	804.0	803.3	803.3	802.5	802.5	802.5
20°	789.4	789.4	789.4	785.8	785.1	784.3	784.3	784.3	784.3	784.3
22.5°	769.0	765.4	768.3	766.1	764.7	763.2	763.9	763.9	763.9	763.9
25°	746.5	743.5	744.3	745.0	743.5	741.4	741.4	741.4	741.4	740.6
27.5°	722.4	720.2	719.5	720.2	721.7	720.2	718.1	715.9	716.6	716.6
30°	696.2	695.5	694.7	693.3	694.7	695.5	691.8	691.1	691.1	691.1
32.5°	670.0	669.3	667.1	665.6	666.3	667.8	666.3	664.9	664.9	664.9
35°	643.8	640.9	638.7	637.9	637.9	639.4	638.7	636.5	636.5	636.5
37.5°	613.2	613.9	610.3	609.5	609.5	609.5	611.0	607.4	608.1	607.4
40°	583.3	584.1	581.9	579.7	580.4	579.0	581.1	577.5	577.5	577.5
42.5°	553.5	552.0	552.7	548.4	549.1	549.1	549.8	547.6	546.9	546.2
45°	522.9	521.4	520.7	518.5	518.5	517.8	517.8	514.9	514.9	514.9
47.5°	490.8	490.1	488.7	487.2	487.2	486.5	485.0	484.3	483.6	483.6
50°	460.3	458.1	455.9	456.6	455.9	455.2	453.7	453.0	452.2	451.5
52.5°	427.5	427.5	424.6	424.6	424.6	423.8	422.4	420.9	420.9	420.2
55°	395.4	394.7	392.5	391.8	392.5	391.8	390.3	388.9	388.9	388.2
57.5°	363.4	361.9	361.2	361.2	360.5	360.5	358.3	356.8	357.6	356.8
60°	330.6	330.6	329.9	329.2	329.2	328.4	326.3	326.3	326.3	325.5
62.5°	299.3	299.3	297.9	297.1	297.9	297.1	296.4	295.7	294.9	294.2
65°	266.5	267.3	265.8	266.5	266.5	265.1	265.1	264.4	264.4	263.6
67.5°	236.0	236.0	235.2	235.2	236.0	235.2	235.2	234.5	234.5	233.8
70°	204.6	206.1	205.4	205.4	205.4	204.6	204.6	204.6	203.9	204.6
72.5°	173.3	173.3	173.3	173.3	173.3	174.1	174.1	174.1	174.1	173.3
75°	144.2	144.9	144.2	144.9	145.6	145.6	145.6	145.6	146.4	145.6
77.5°	115.8	116.5	116.5	118.0	118.0	118.0	118.7	118.7	118.7	118.7
80°	88.8	89.6	90.3	91.8	91.8	93.2	93.9	93.9	93.9	93.9
82.5°	64.1	66.3	67.0	69.2	69.9	69.9	71.4	72.1	72.1	72.1
85°	44.4	46.6	48.1	49.5	51.0	51.0	52.4	52.4	53.2	53.2
87.5°	27.7	29.9	31.3	33.5	34.2	35.0	35.7	36.4	37.1	37.1
90°	15.3	16.7	18.2	19.7	19.7	20.4	21.1	21.8	22.6	22.6
92.5°	10.9	11.7	13.1	13.8	13.8	14.6	15.3	15.3	16.0	16.0
95°	12.4	13.1	13.1	13.8	13.8	13.8	14.6	14.6	14.6	14.6
97.5°	18.9	18.9	18.9	18.2	18.2	18.2	18.2	18.2	18.2	18.2
100°	24.8	25.5	25.5	25.5	26.2	26.2	26.2	26.2	25.5	25.5
102.5°	27.7	28.4	29.1	29.9	29.9	29.9	30.6	30.6	30.6	30.6
105°	31.3	31.3	32.0	32.8	32.8	32.8	33.5	33.5	33.5	33.5
107.5°	35.7	35.7	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
110°	40.8	40.8	40.8	40.1	40.8	40.1	40.1	40.1	40.1	40.1



TEST NUMBER: P395831

CATALOG NUMBER: I3-WL-30L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	46.6	45.9	45.9	45.2	45.2	45.2	44.4	44.4	44.4	44.4
115°	56.1	52.4	51.0	49.5	49.5	49.5	48.8	48.8	48.8	48.8
117.5°	67.7	62.6	59.7	56.8	56.1	55.3	53.9	53.9	53.2	53.2
120°	80.1	75.0	70.6	67.0	65.5	64.8	62.6	61.2	59.7	59.7
122.5°	91.8	86.7	82.3	78.7	77.2	75.7	73.6	72.1	70.6	70.6
125°	103.4	98.3	93.9	90.3	88.1	86.7	84.5	83.0	81.6	81.6
127.5°	115.8	109.2	104.9	101.2	99.0	98.3	95.4	93.9	92.5	92.5
130°	129.6	121.6	115.8	111.4	110.0	108.5	106.3	104.9	103.4	103.4
132.5°	143.5	135.5	128.9	123.1	120.9	119.4	116.5	115.1	113.6	113.6
135°	156.6	149.3	142.7	136.9	134.7	132.5	129.6	126.7	125.3	125.3
137.5°	166.8	161.7	155.8	150.7	148.6	146.4	143.5	140.6	138.4	139.1
140°	175.5	171.1	167.5	163.9	161.7	160.2	157.3	155.1	152.9	152.9
142.5°	183.5	179.9	176.2	173.3	172.6	171.9	169.7	167.5	166.0	166.0
145°	190.8	188.6	185.7	182.1	181.3	180.6	178.4	177.0	176.2	176.2
147.5°	193.0	193.7	193.0	190.8	190.1	189.3	187.9	186.4	185.7	185.7
150°	191.5	194.4	195.9	195.9	195.9	195.9	195.9	194.4	193.7	193.7
152.5°	187.2	191.5	194.4	196.6	197.4	198.1	198.1	198.8	198.1	198.1
155°	182.1	186.4	190.8	193.0	194.4	195.2	196.6	197.4	198.1	197.4
157.5°	176.2	179.9	182.8	187.2	188.6	190.1	191.5	193.0	193.7	193.0
160°	171.1	174.1	176.2	179.1	179.9	181.3	182.8	183.5	185.0	184.2
162.5°	166.0	168.2	170.4	171.9	173.3	174.1	175.5	176.2	177.0	176.2
165°	162.4	163.9	164.6	166.0	166.8	167.5	168.2	169.0	169.0	169.0
167.5°	158.0	159.5	160.2	160.9	161.7	162.4	162.4	163.1	163.1	163.1
170°	154.4	155.1	155.8	156.6	156.6	157.3	157.3	157.3	158.0	157.3
172.5°	151.5	151.5	151.5	152.2	152.2	152.2	152.2	152.2	152.2	151.5
175°	150.0	150.0	149.3	149.3	149.3	149.3	149.3	148.6	147.8	147.1
177.5°	149.3	148.6	148.6	147.8	147.8	147.8	147.1	146.4	145.6	144.9
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6

(END OF REPORT)