

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: P395491

Luminaire Tested: **I3-FL-20L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-20L82765-1D-UNV-W2A-W-4 (3000K)
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2009.6 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.43 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

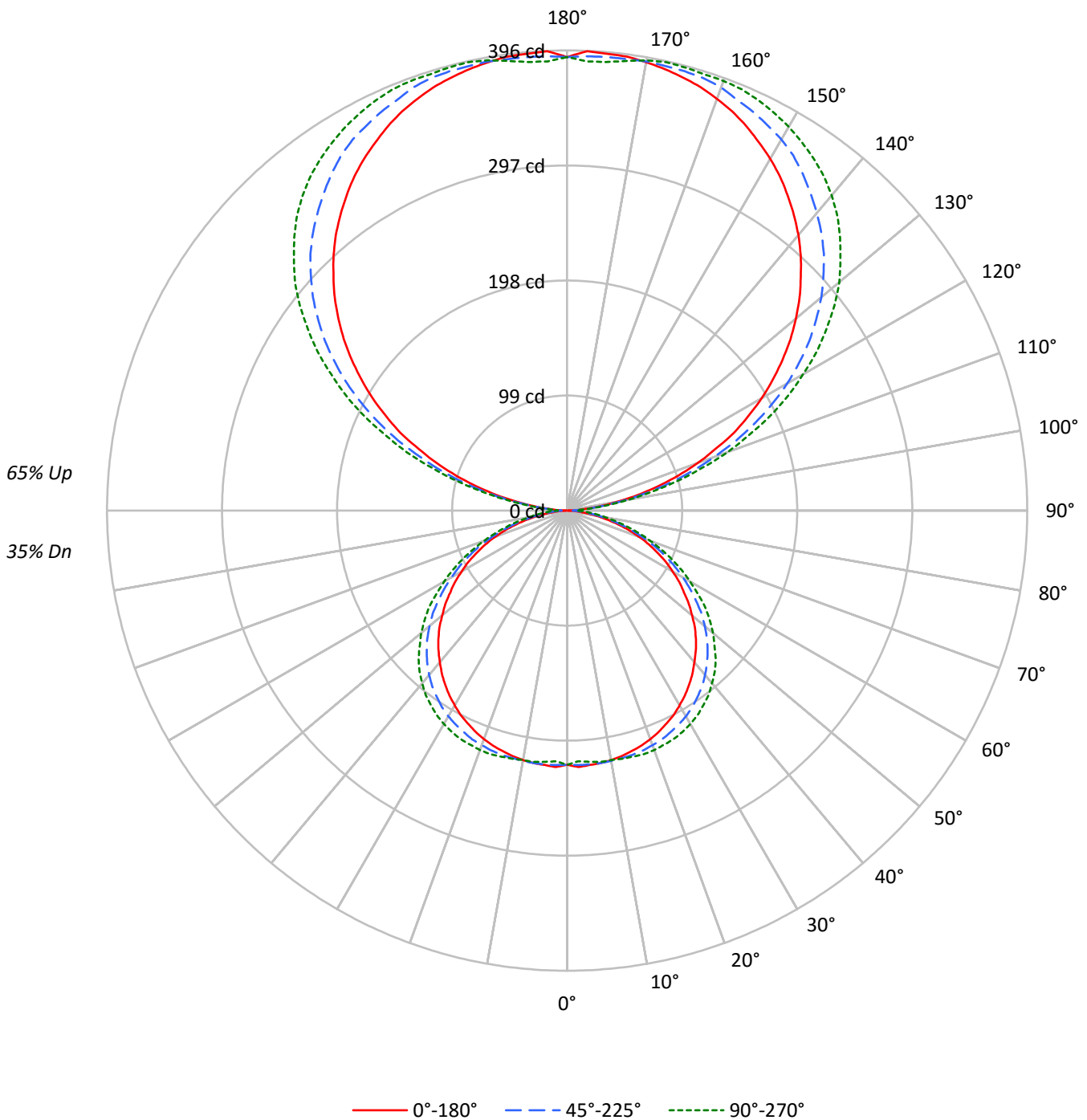
Input Watts (W): 16.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	94	90	86	83	85	81	78	75	66	63	61	51	49	48	37	36	36	29
2	86	78	72	67	77	71	66	61	57	53	50	44	42	40	33	31	30	24
3	78	69	61	55	70	62	56	51	50	46	42	39	36	33	29	27	25	20
4	71	60	53	47	64	55	48	43	44	39	35	35	31	28	25	23	21	17
5	65	54	46	40	59	49	42	36	39	34	30	31	27	24	23	20	18	15
6	60	48	40	34	54	44	37	31	35	30	26	28	24	21	21	18	16	13
7	55	43	35	30	50	39	32	27	32	27	23	25	21	18	19	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	13	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	15	16	13	11	9
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1202	1202	1202
5°	1208	1182	1163
10°	1208	1166	1150
15°	1206	1156	1145
20°	1206	1146	1143
25°	1202	1135	1139
30°	1199	1125	1129
35°	1192	1107	1112
40°	1180	1084	1088
45°	1168	1050	1054
50°	1142	1003	1003
55°	1109	941	943
60°	1072	866	852
65°	1019	776	756
70°	947	661	639
75°	823	526	508
80°	643	374	372
85°	348	214	244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	1.0
10°-20°	61.3	3.1
20°-30°	96.7	4.8
30°-40°	121.5	6.0
40°-50°	130.7	6.5
50°-60°	120.2	6.0
60°-70°	92.1	4.6
70°-80°	52.4	2.6
80°-90°	16.4	0.8
90°-100°	21.9	1.1
100°-110°	95.2	4.7
110°-120°	174.4	8.7
120°-130°	224.8	11.2
130°-140°	239.1	11.9
140°-150°	220.0	10.9
150°-160°	174.3	8.7
160°-170°	110.4	5.5
170°-180°	37.4	1.9
0°-30°	178.9	8.9
0°-40°	300.4	14.9
0°-60°	551.3	27.4
0°-90°	712.2	35.4
90°-120°	291.5	14.5
90°-150°	975.4	48.5
90°-180°	1297.0	64.5
0°-180°	2009.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	219	219	219	219	219	
5°	220	218	219	218	217	21
15°	214	213	218	219	219	61
25°	202	203	210	215	217	93
35°	183	185	196	202	204	114
45°	157	161	171	178	181	121
55°	123	128	135	142	145	110
65°	86	88	94	98	100	85
75°	45	46	49	52	54	48
85°	8	10	14	18	19	10
90°	0	2	5	7	8	1
95°	15	14	16	18	19	18
105°	81	84	91	96	98	86
115°	158	166	179	188	193	155
125°	226	236	254	267	272	202
135°	284	294	312	326	332	220
145°	331	338	354	364	370	207
155°	365	369	379	386	390	168
165°	386	386	391	394	395	109
175°	395	392	392	390	387	38
180°	390	390	390	390	390	



TEST NUMBER: P395491

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7
2.5°	220.9	220.3	219.8	218.7	218.7	218.1	218.1	218.1	218.1	218.7	219.2
5°	219.8	219.8	219.2	218.1	218.1	217.6	217.6	218.1	217.6	218.1	219.2
7.5°	219.2	219.2	218.7	217.6	217.6	217.6	217.6	217.6	217.6	218.1	219.2
10°	218.1	218.1	217.0	216.5	216.5	216.5	216.5	217.0	217.0	217.6	218.7
12.5°	216.5	215.9	215.4	214.8	214.8	214.8	215.4	215.9	215.9	217.0	218.1
15°	214.3	214.3	213.7	213.2	213.2	213.2	213.7	214.3	214.8	215.9	217.6
17.5°	212.1	212.1	211.5	211.5	211.5	211.5	212.1	212.6	213.7	214.8	216.5
20°	209.3	209.3	208.8	208.8	208.8	209.3	209.3	210.4	211.5	213.2	214.8
22.5°	206.1	206.1	206.1	205.5	206.1	206.6	207.2	208.2	209.3	211.0	213.2
25°	202.2	202.2	202.2	202.2	202.8	202.8	203.9	205.0	206.1	208.2	210.4
27.5°	198.4	198.4	198.4	197.8	198.9	199.5	200.0	201.7	202.8	205.5	207.7
30°	193.5	193.5	193.5	194.0	194.5	195.1	196.2	197.8	198.9	201.7	204.4
32.5°	188.5	188.5	188.5	188.5	190.2	190.7	191.3	192.9	195.1	197.8	200.6
35°	183.0	183.0	183.0	183.6	184.7	185.2	186.3	188.0	190.2	192.9	195.6
37.5°	177.0	177.6	177.6	178.1	179.2	180.3	181.4	183.0	185.2	188.0	190.7
40°	170.4	171.0	171.0	171.5	172.6	173.7	174.8	177.0	179.2	181.9	184.7
42.5°	163.9	164.4	164.4	165.5	166.6	167.7	168.8	171.0	173.2	175.9	178.1
45°	156.7	157.3	157.3	158.4	160.0	160.6	162.2	164.4	166.6	168.8	171.0
47.5°	149.1	149.6	149.6	150.7	152.3	153.4	154.5	156.7	158.4	161.1	163.3
50°	140.3	140.8	141.4	142.5	144.7	145.8	146.9	148.5	150.7	152.3	154.5
52.5°	132.1	132.1	132.6	133.7	135.4	136.5	137.0	138.6	141.4	143.6	145.8
55°	122.8	123.3	123.9	124.9	126.6	127.7	128.2	129.9	131.5	133.2	135.4
57.5°	114.5	114.5	115.1	116.2	117.8	118.4	118.9	120.0	122.2	123.9	125.5
60°	104.7	105.2	105.8	106.9	108.0	109.1	109.1	110.7	112.3	114.0	115.1
62.5°	95.9	95.9	96.5	97.5	98.1	99.2	99.2	100.8	101.9	103.6	104.7
65°	85.5	86.0	86.6	87.1	88.2	88.2	88.8	89.9	91.0	92.1	93.7
67.5°	76.2	76.2	76.7	77.3	77.8	77.8	78.4	79.5	80.6	81.7	82.8
70°	65.8	66.3	66.3	66.3	66.9	67.4	68.0	68.5	69.6	70.1	71.2
72.5°	55.3	55.3	55.9	55.9	56.4	57.0	57.5	58.1	58.6	59.7	60.3
75°	44.9	44.9	45.5	45.5	46.0	46.0	46.0	47.1	47.7	48.8	49.3
77.5°	34.5	35.1	35.1	35.1	35.6	36.2	36.2	36.7	37.8	38.4	38.9
80°	25.2	25.2	25.2	25.2	25.8	26.3	26.9	26.9	27.9	29.0	29.6
82.5°	15.9	15.9	16.4	17.0	17.0	17.5	18.1	18.6	19.7	20.3	20.8
85°	8.2	8.2	8.8	9.3	9.9	10.4	10.4	11.0	12.1	13.2	13.7
87.5°	2.7	3.3	3.3	3.8	4.4	4.9	5.5	6.0	7.1	8.2	8.8
90°	0.5	0.5	0.5	1.1	1.6	1.6	2.2	2.7	3.3	3.8	4.9
92.5°	4.9	4.9	4.4	4.9	4.9	4.9	4.9	5.5	6.0	6.0	7.1
95°	14.8	14.2	14.2	14.2	14.2	14.2	14.2	14.8	15.3	15.3	15.9
97.5°	28.5	28.5	27.9	27.9	28.5	28.5	28.5	29.0	30.1	29.6	30.7
100°	44.4	44.4	43.8	44.4	44.9	45.5	46.6	46.6	47.7	47.7	49.3
102.5°	62.5	62.5	61.9	63.0	63.6	64.7	64.7	65.8	67.4	67.4	69.6
105°	80.6	81.1	81.1	82.2	83.3	84.4	84.4	86.0	88.2	88.2	91.0
107.5°	100.3	100.8	100.8	101.9	103.0	104.1	104.7	106.9	109.1	109.6	112.9
110°	119.5	120.0	120.6	121.7	122.8	124.4	125.5	127.7	130.4	131.5	134.3



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CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	137.6	139.7	140.3	141.9	143.6	145.2	146.3	149.1	152.3	154.0	157.3
115°	158.4	159.5	160.0	161.7	163.9	165.5	166.6	169.3	172.6	174.8	178.7
117.5°	175.4	178.1	178.7	180.3	182.5	184.1	185.2	188.5	192.4	195.1	198.9
120°	193.5	195.6	197.8	198.9	200.6	202.8	203.9	207.2	211.5	214.3	218.7
122.5°	209.9	212.1	214.3	215.9	218.1	219.2	220.9	224.7	229.1	232.4	236.7
125°	226.3	229.1	230.7	232.4	235.1	236.2	237.8	241.7	246.1	249.9	254.3
127.5°	242.2	243.9	246.6	247.7	250.4	251.5	253.2	257.6	262.0	265.8	270.2
130°	257.0	259.2	261.4	262.0	265.2	266.9	268.5	272.4	277.3	281.1	285.5
132.5°	271.3	272.4	275.1	276.7	279.5	281.1	282.8	286.1	291.0	294.8	299.2
135°	284.4	285.5	288.8	290.4	292.1	293.7	295.9	299.2	304.2	308.0	312.4
137.5°	297.6	298.7	302.0	303.6	304.7	306.3	308.0	311.3	316.2	320.0	323.9
140°	309.6	310.7	312.9	315.1	316.2	317.3	318.9	322.2	326.6	330.5	334.3
142.5°	320.6	321.7	323.9	326.1	327.7	327.7	329.4	332.1	337.0	340.9	344.2
145°	331.0	331.6	333.7	335.9	338.1	338.1	338.7	341.4	345.8	350.2	353.5
147.5°	340.9	341.4	343.1	345.3	346.9	347.4	348.5	349.6	354.0	358.4	362.2
150°	349.6	350.2	351.3	353.5	354.6	355.7	356.8	357.3	360.6	364.4	368.8
152.5°	357.3	357.9	359.0	360.6	361.7	362.8	363.9	365.5	367.2	371.0	373.7
155°	365.0	365.5	366.1	367.7	368.8	369.4	369.9	372.1	373.7	375.9	378.7
157.5°	371.6	371.6	372.1	373.2	374.3	374.3	374.8	377.0	378.7	380.9	382.5
160°	377.0	377.0	377.6	378.7	378.7	379.2	379.8	381.4	382.5	385.3	387.4
162.5°	382.0	381.4	382.0	382.5	382.5	382.5	383.1	384.2	385.8	388.0	390.2
165°	385.8	385.8	385.8	386.4	386.4	385.8	385.8	386.9	388.0	389.6	391.3
167.5°	389.1	389.1	388.5	389.1	388.5	388.5	388.0	388.5	389.1	390.7	391.8
170°	391.8	391.3	391.3	391.3	390.7	390.2	390.2	390.2	390.2	391.3	392.4
172.5°	394.0	393.5	392.9	392.9	391.8	391.3	391.3	390.7	390.7	391.3	391.8
175°	394.6	394.0	393.5	393.5	392.4	391.8	391.3	391.3	390.7	391.3	391.8
177.5°	395.7	395.1	394.0	394.0	392.9	391.8	391.8	391.3	390.7	391.3	391.3
180°	390.2	390.2	390.2	390.2	390.2	390.2	390.2	390.2	390.2	390.2	390.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7	218.7
2.5°	219.8	219.8	219.2	218.7	218.7	218.1	217.6	217.0	216.5	215.9
5°	219.8	219.2	218.7	218.7	218.1	218.1	218.1	217.6	217.0	217.0
7.5°	219.8	219.8	219.2	218.7	218.7	218.7	218.7	218.7	218.1	218.1
10°	219.8	219.2	219.2	219.2	218.7	219.2	219.2	218.7	218.7	218.1
12.5°	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	218.7
15°	218.1	218.7	218.7	219.2	219.2	219.2	219.8	219.8	219.2	219.2
17.5°	217.6	218.1	218.7	219.2	219.2	219.2	219.8	219.8	219.8	219.8
20°	216.5	217.0	217.6	218.1	218.1	218.7	218.7	219.2	219.2	219.2
22.5°	214.3	214.8	215.9	216.5	217.0	217.6	218.1	218.1	218.1	218.1
25°	212.1	213.2	213.7	214.8	215.4	215.9	216.5	216.5	216.5	217.0
27.5°	209.3	210.4	212.1	212.6	213.2	213.7	214.3	214.8	214.8	214.8
30°	206.1	207.7	208.8	209.9	210.4	211.0	211.5	211.5	212.1	212.1
32.5°	202.2	203.9	205.0	206.1	206.6	207.2	208.2	208.2	208.8	208.8
35°	197.3	198.9	200.6	201.7	202.2	202.8	203.9	204.4	204.4	204.4
37.5°	192.4	194.0	195.6	197.3	197.8	198.4	199.5	199.5	200.0	200.0
40°	186.3	188.0	189.6	191.3	191.3	192.4	192.9	193.5	194.0	194.0
42.5°	180.3	181.9	183.0	184.7	185.2	185.8	186.3	187.4	187.4	188.0
45°	173.2	174.8	175.9	177.6	178.1	178.7	179.8	180.3	180.8	180.8
47.5°	165.5	166.6	167.7	169.3	170.4	171.0	171.5	172.1	172.6	172.1
50°	156.7	157.8	159.5	161.1	161.7	162.2	163.3	163.3	163.9	163.9
52.5°	147.4	149.1	150.2	151.8	152.3	152.9	154.0	154.0	154.5	154.5
55°	137.0	138.1	139.2	141.9	142.5	143.0	144.1	144.1	144.7	145.2
57.5°	127.1	127.7	129.3	130.4	131.5	131.5	132.1	132.6	133.2	133.2
60°	116.7	117.3	118.4	120.0	120.0	120.6	121.7	121.7	122.2	122.2
62.5°	105.8	106.9	108.0	109.6	109.1	109.6	110.7	110.7	111.2	111.2
65°	94.8	95.4	96.5	97.5	98.1	98.1	98.6	99.2	99.7	99.7
67.5°	83.3	84.4	84.9	86.6	86.0	86.6	87.1	87.1	87.7	87.7
70°	72.3	72.9	74.0	74.5	74.5	75.1	75.6	75.6	75.6	76.2
72.5°	61.4	61.9	62.5	63.0	63.0	63.6	64.1	64.1	64.7	64.7
75°	49.9	51.0	51.5	52.6	52.1	52.6	53.7	53.7	53.7	53.7
77.5°	40.0	40.6	41.6	42.2	42.2	42.2	43.3	42.7	43.3	43.3
80°	30.1	30.7	31.8	32.3	32.3	32.9	33.4	33.4	33.4	34.0
82.5°	21.4	22.5	23.6	24.1	24.1	24.7	25.2	25.2	25.8	25.8
85°	14.8	15.9	17.0	17.0	17.5	18.1	18.6	18.6	18.6	18.6
87.5°	9.9	10.4	11.0	11.5	12.1	12.1	12.6	12.6	13.2	13.2
90°	5.5	6.0	6.6	7.1	7.1	7.7	7.7	8.2	8.2	8.2
92.5°	7.7	7.7	8.2	8.8	8.8	8.8	8.8	9.3	9.3	9.3
95°	16.4	17.0	17.0	18.1	18.1	18.1	18.6	18.6	18.6	18.6
97.5°	31.8	31.8	31.8	32.9	32.9	32.9	33.4	33.4	33.4	34.0
100°	49.9	50.4	50.4	52.1	51.5	52.6	52.6	52.6	52.6	53.2
102.5°	70.1	71.2	71.8	73.4	73.4	73.4	74.5	74.0	74.5	74.5
105°	92.1	93.2	93.7	95.4	96.5	96.5	97.5	97.0	97.5	98.1
107.5°	114.0	115.6	116.7	118.4	119.5	120.0	120.0	120.6	121.1	121.7
110°	136.5	138.1	140.8	142.5	143.0	144.1	144.7	145.2	145.8	146.9



TEST NUMBER: P395491

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	160.0	161.7	163.9	166.0	165.5	167.1	168.2	168.8	169.3	168.8
115°	181.4	183.6	185.8	188.0	188.0	189.1	191.3	191.8	191.8	192.9
117.5°	201.7	204.4	206.6	208.8	209.3	210.4	212.1	213.7	213.7	214.8
120°	221.4	224.7	226.9	229.1	230.2	230.7	232.4	234.6	234.6	234.6
122.5°	240.0	242.8	245.5	247.7	248.8	249.9	251.0	253.7	253.7	254.8
125°	257.6	260.9	263.6	265.8	266.9	268.0	270.2	271.8	272.4	272.4
127.5°	274.0	277.3	280.0	282.8	283.3	284.4	286.6	288.8	289.4	289.9
130°	289.4	292.6	295.4	298.1	299.2	299.8	302.5	304.2	305.2	305.8
132.5°	303.1	306.3	309.1	311.8	312.9	314.0	315.7	318.4	318.9	318.9
135°	315.7	318.9	321.7	325.0	325.5	326.6	328.8	330.5	331.6	332.1
137.5°	327.2	330.5	333.7	336.5	337.6	338.1	340.3	342.5	343.6	344.2
140°	337.6	340.9	344.2	346.3	346.9	348.5	350.2	352.4	353.5	354.0
142.5°	347.4	350.2	352.9	355.7	356.2	357.3	359.0	361.1	362.2	362.8
145°	356.2	359.0	361.1	363.3	363.9	365.0	366.6	368.3	369.4	369.9
147.5°	364.4	366.6	368.8	370.5	371.0	372.1	373.2	374.3	375.4	375.9
150°	371.6	372.7	374.8	375.9	376.5	377.6	378.7	379.8	380.9	381.4
152.5°	377.0	378.7	379.8	381.4	382.0	382.5	383.6	384.7	385.8	385.8
155°	381.4	383.1	384.2	385.8	386.4	386.9	388.0	388.5	389.6	389.6
157.5°	384.7	386.4	387.4	388.5	389.1	389.6	390.2	391.3	392.4	392.4
160°	388.5	389.1	389.6	390.7	390.7	391.3	391.8	392.4	393.5	393.5
162.5°	391.8	392.4	391.3	391.8	391.3	391.8	392.4	392.9	393.5	393.5
165°	392.9	394.0	393.5	394.0	394.0	394.0	394.0	394.6	394.6	394.6
167.5°	392.9	394.0	393.5	393.5	394.0	394.0	394.6	395.1	395.1	395.1
170°	392.9	393.5	392.9	392.4	392.9	392.9	392.9	393.5	393.5	393.5
172.5°	392.4	392.9	391.8	391.3	391.3	391.3	390.7	390.7	390.2	390.2
175°	391.8	391.8	390.7	390.2	390.2	390.2	389.1	388.5	388.0	387.4
177.5°	391.3	391.3	389.6	389.1	389.1	388.5	388.5	387.4	387.4	386.9
180°	390.2	390.2	390.2	390.2	390.2	390.2	390.2	390.2	390.2	390.2

(END OF REPORT)