

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: P395499

Luminaire Tested: **I3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395499
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-20L83050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.8 lumens
Efficiency: N/A
Efficacy: 131.4 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

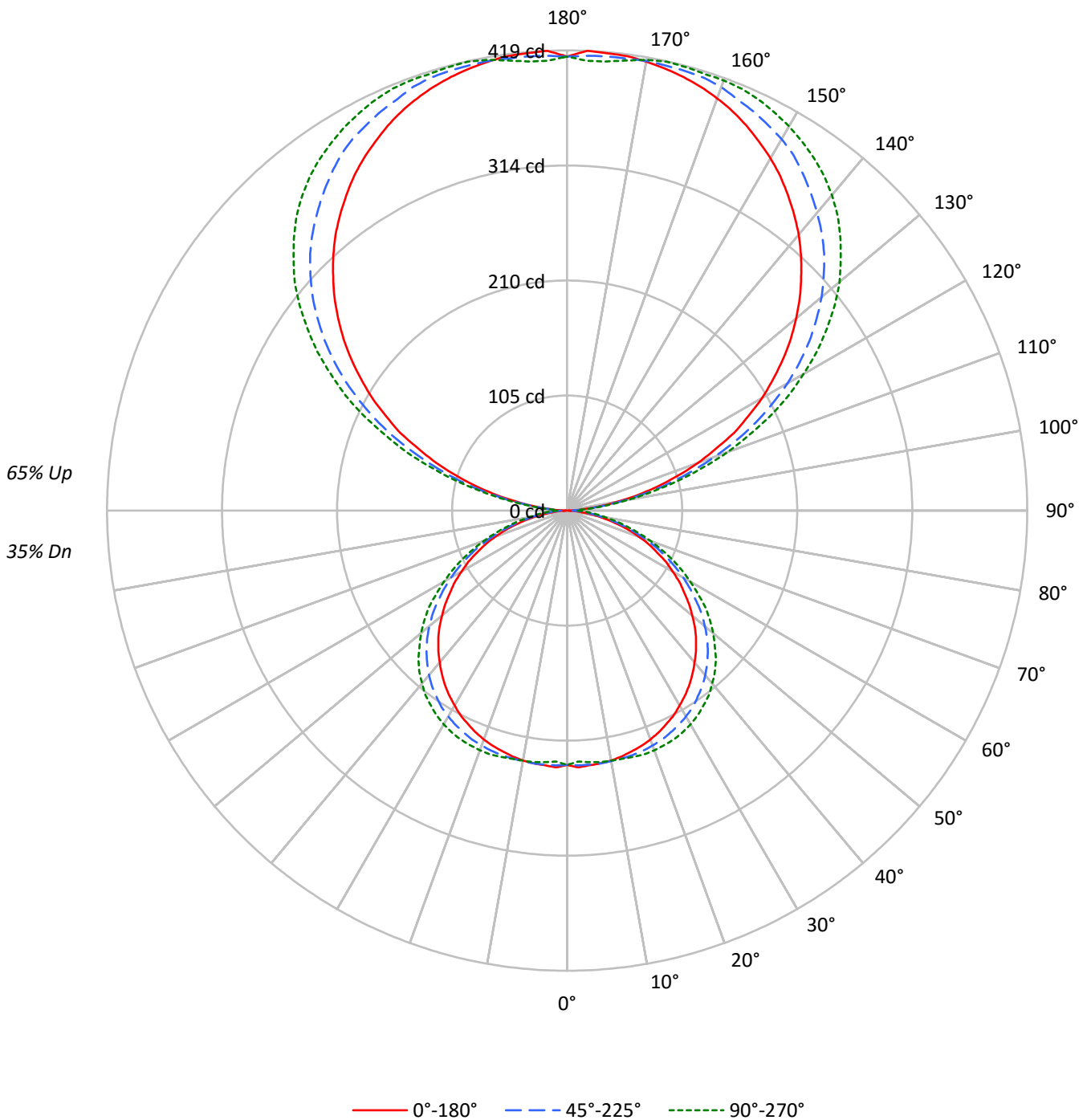
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1273	1273	1273
5°	1280	1252	1233
10°	1280	1235	1218
15°	1277	1224	1213
20°	1278	1214	1211
25°	1274	1203	1207
30°	1269	1191	1196
35°	1263	1172	1178
40°	1250	1148	1152
45°	1238	1112	1117
50°	1209	1063	1062
55°	1174	996	998
60°	1135	918	903
65°	1080	823	802
70°	1003	701	677
75°	872	557	538
80°	681	395	394
85°	369	226	258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	1.0
10°-20°	65.0	3.1
20°-30°	102.4	4.8
30°-40°	128.7	6.0
40°-50°	138.4	6.5
50°-60°	127.3	6.0
60°-70°	97.5	4.6
70°-80°	55.6	2.6
80°-90°	17.3	0.8
90°-100°	23.2	1.1
100°-110°	100.9	4.7
110°-120°	184.7	8.7
120°-130°	238.1	11.2
130°-140°	253.3	11.9
140°-150°	233.1	10.9
150°-160°	184.6	8.7
160°-170°	116.9	5.5
170°-180°	39.6	1.9
0°-30°	189.5	8.9
0°-40°	318.2	14.9
0°-60°	584.0	27.4
0°-90°	754.4	35.4
90°-120°	308.8	14.5
90°-150°	1033.3	48.5
90°-180°	1374.0	64.5
0°-180°	2128.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	232	232	232	232	232	
5°	233	230	232	231	230	22
15°	227	226	230	232	232	64
25°	214	215	223	228	230	99
35°	194	196	207	214	216	121
45°	166	170	181	189	192	128
55°	130	135	143	151	154	117
65°	91	94	99	104	106	90
75°	48	49	52	55	57	50
85°	9	11	14	19	20	11
90°	1	2	5	8	9	1
95°	16	15	17	19	20	20
105°	85	89	96	102	104	91
115°	168	175	189	199	204	165
125°	240	250	269	283	288	214
135°	301	311	331	345	352	233
145°	351	358	374	386	392	219
155°	387	391	401	409	413	178
165°	409	409	414	417	418	115
175°	418	415	415	413	410	40
180°	413	413	413	413	413	



TEST NUMBER: P395499

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6
2.5°	234.0	233.4	232.8	231.6	231.6	231.1	231.1	231.1	231.1	231.6	232.2
5°	232.8	232.8	232.2	231.1	231.1	230.5	230.5	231.1	230.5	231.1	232.2
7.5°	232.2	232.2	231.6	230.5	230.5	230.5	230.5	230.5	230.5	231.1	232.2
10°	231.1	231.1	229.9	229.3	229.3	229.3	229.3	229.9	229.9	230.5	231.6
12.5°	229.3	228.7	228.1	227.6	227.6	227.6	228.1	228.7	228.7	229.9	231.1
15°	227.0	227.0	226.4	225.8	225.8	225.8	226.4	227.0	227.6	228.7	230.5
17.5°	224.7	224.7	224.1	224.1	224.1	224.1	224.7	225.2	226.4	227.6	229.3
20°	221.8	221.8	221.2	221.2	221.2	221.8	221.8	222.9	224.1	225.8	227.6
22.5°	218.3	218.3	218.3	217.7	218.3	218.9	219.4	220.6	221.8	223.5	225.8
25°	214.2	214.2	214.2	214.2	214.8	214.8	216.0	217.1	218.3	220.6	222.9
27.5°	210.2	210.2	210.2	209.6	210.7	211.3	211.9	213.6	214.8	217.7	220.0
30°	204.9	204.9	204.9	205.5	206.1	206.7	207.8	209.6	210.7	213.6	216.5
32.5°	199.7	199.7	199.7	199.7	201.4	202.0	202.6	204.3	206.7	209.6	212.5
35°	193.9	193.9	193.9	194.5	195.6	196.2	197.4	199.1	201.4	204.3	207.2
37.5°	187.5	188.1	188.1	188.7	189.8	191.0	192.2	193.9	196.2	199.1	202.0
40°	180.5	181.1	181.1	181.7	182.9	184.0	185.2	187.5	189.8	192.7	195.6
42.5°	173.6	174.2	174.2	175.3	176.5	177.6	178.8	181.1	183.4	186.3	188.7
45°	166.0	166.6	166.6	167.8	169.5	170.1	171.8	174.2	176.5	178.8	181.1
47.5°	157.9	158.5	158.5	159.6	161.4	162.5	163.7	166.0	167.8	170.7	173.0
50°	148.6	149.2	149.8	150.9	153.3	154.4	155.6	157.3	159.6	161.4	163.7
52.5°	139.9	139.9	140.5	141.6	143.4	144.6	145.1	146.9	149.8	152.1	154.4
55°	130.0	130.6	131.2	132.4	134.1	135.3	135.8	137.6	139.3	141.1	143.4
57.5°	121.3	121.3	121.9	123.1	124.8	125.4	126.0	127.1	129.5	131.2	132.9
60°	110.9	111.5	112.0	113.2	114.4	115.5	115.5	117.3	119.0	120.7	121.9
62.5°	101.6	101.6	102.2	103.3	103.9	105.1	105.1	106.8	108.0	109.7	110.9
65°	90.6	91.1	91.7	92.3	93.5	93.5	94.0	95.2	96.4	97.5	99.3
67.5°	80.7	80.7	81.3	81.9	82.4	82.4	83.0	84.2	85.3	86.5	87.7
70°	69.7	70.2	70.2	70.2	70.8	71.4	72.0	72.6	73.7	74.3	75.5
72.5°	58.6	58.6	59.2	59.2	59.8	60.4	61.0	61.5	62.1	63.3	63.9
75°	47.6	47.6	48.2	48.2	48.8	48.8	48.8	49.9	50.5	51.7	52.2
77.5°	36.6	37.2	37.2	37.2	37.7	38.3	38.3	38.9	40.1	40.6	41.2
80°	26.7	26.7	26.7	26.7	27.3	27.9	28.4	28.4	29.6	30.8	31.3
82.5°	16.8	16.8	17.4	18.0	18.0	18.6	19.2	19.7	20.9	21.5	22.1
85°	8.7	8.7	9.3	9.9	10.4	11.0	11.0	11.6	12.8	13.9	14.5
87.5°	2.9	3.5	3.5	4.1	4.6	5.2	5.8	6.4	7.5	8.7	9.3
90°	0.6	0.6	0.6	1.2	1.7	1.7	2.3	2.9	3.5	4.1	5.2
92.5°	5.2	5.2	4.6	5.2	5.2	5.2	5.2	5.8	6.4	6.4	7.5
95°	15.7	15.1	15.1	15.1	15.1	15.1	15.1	15.7	16.3	16.3	16.8
97.5°	30.2	30.2	29.6	29.6	30.2	30.2	30.2	30.8	31.9	31.3	32.5
100°	47.0	47.0	46.4	47.0	47.6	48.2	49.3	49.3	50.5	50.5	52.2
102.5°	66.2	66.2	65.6	66.8	67.3	68.5	68.5	69.7	71.4	71.4	73.7
105°	85.3	85.9	85.9	87.1	88.2	89.4	89.4	91.1	93.5	93.5	96.4
107.5°	106.2	106.8	106.8	108.0	109.1	110.3	110.9	113.2	115.5	116.1	119.6
110°	126.6	127.1	127.7	128.9	130.0	131.8	132.9	135.3	138.2	139.3	142.2



TEST NUMBER: P395499

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	145.7	148.0	148.6	150.4	152.1	153.8	155.0	157.9	161.4	163.1	166.6
115°	167.8	168.9	169.5	171.3	173.6	175.3	176.5	179.4	182.9	185.2	189.3
117.5°	185.8	188.7	189.3	191.0	193.3	195.1	196.2	199.7	203.8	206.7	210.7
120°	204.9	207.2	209.6	210.7	212.5	214.8	216.0	219.4	224.1	227.0	231.6
122.5°	222.3	224.7	227.0	228.7	231.1	232.2	234.0	238.0	242.7	246.1	250.8
125°	239.8	242.7	244.4	246.1	249.0	250.2	251.9	256.0	260.7	264.7	269.4
127.5°	256.6	258.3	261.2	262.4	265.3	266.5	268.2	272.8	277.5	281.6	286.2
130°	272.3	274.6	276.9	277.5	281.0	282.7	284.5	288.5	293.7	297.8	302.5
132.5°	287.4	288.5	291.4	293.2	296.1	297.8	299.6	303.0	308.3	312.3	317.0
135°	301.3	302.5	305.9	307.7	309.4	311.2	313.5	317.0	322.2	326.3	330.9
137.5°	315.2	316.4	319.9	321.6	322.8	324.5	326.3	329.7	335.0	339.0	343.1
140°	328.0	329.2	331.5	333.8	335.0	336.1	337.9	341.4	346.0	350.1	354.1
142.5°	339.6	340.8	343.1	345.4	347.2	347.2	348.9	351.8	357.0	361.1	364.6
145°	350.6	351.2	353.5	355.9	358.2	358.2	358.8	361.7	366.3	371.0	374.4
147.5°	361.1	361.7	363.4	365.7	367.5	368.1	369.2	370.4	375.0	379.7	383.7
150°	370.4	371.0	372.1	374.4	375.6	376.8	377.9	378.5	382.0	386.1	390.7
152.5°	378.5	379.1	380.2	382.0	383.1	384.3	385.5	387.2	389.0	393.0	395.9
155°	386.6	387.2	387.8	389.5	390.7	391.3	391.9	394.2	395.9	398.2	401.1
157.5°	393.6	393.6	394.2	395.3	396.5	396.5	397.1	399.4	401.1	403.5	405.2
160°	399.4	399.4	400.0	401.1	401.1	401.7	402.3	404.0	405.2	408.1	410.4
162.5°	404.6	404.0	404.6	405.2	405.2	405.2	405.8	407.0	408.7	411.0	413.3
165°	408.7	408.7	408.7	409.3	409.3	408.7	408.7	409.9	411.0	412.8	414.5
167.5°	412.2	412.2	411.6	412.2	411.6	411.6	411.0	411.6	412.2	413.9	415.1
170°	415.1	414.5	414.5	414.5	413.9	413.3	413.3	413.3	413.3	414.5	415.7
172.5°	417.4	416.8	416.2	416.2	415.1	414.5	414.5	413.9	413.9	414.5	415.1
175°	418.0	417.4	416.8	416.8	415.7	415.1	414.5	414.5	413.9	414.5	415.1
177.5°	419.1	418.6	417.4	417.4	416.2	415.1	415.1	414.5	413.9	414.5	414.5
180°	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3



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CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6	231.6
2.5°	232.8	232.8	232.2	231.6	231.6	231.1	230.5	229.9	229.3	228.7
5°	232.8	232.2	231.6	231.6	231.1	231.1	231.1	230.5	229.9	229.9
7.5°	232.8	232.8	232.2	231.6	231.6	231.6	231.6	231.6	231.1	231.1
10°	232.8	232.2	232.2	232.2	231.6	232.2	232.2	231.6	231.6	231.1
12.5°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	231.6
15°	231.1	231.6	231.6	232.2	232.2	232.2	232.8	232.8	232.2	232.2
17.5°	230.5	231.1	231.6	232.2	232.2	232.2	232.8	232.8	232.8	232.8
20°	229.3	229.9	230.5	231.1	231.1	231.6	231.6	232.2	232.2	232.2
22.5°	227.0	227.6	228.7	229.3	229.9	230.5	231.1	231.1	231.1	231.1
25°	224.7	225.8	226.4	227.6	228.1	228.7	229.3	229.3	229.3	229.9
27.5°	221.8	222.9	224.7	225.2	225.8	226.4	227.0	227.6	227.6	227.6
30°	218.3	220.0	221.2	222.3	222.9	223.5	224.1	224.1	224.7	224.7
32.5°	214.2	216.0	217.1	218.3	218.9	219.4	220.6	220.6	221.2	221.2
35°	209.0	210.7	212.5	213.6	214.2	214.8	216.0	216.5	216.5	216.5
37.5°	203.8	205.5	207.2	209.0	209.6	210.2	211.3	211.3	211.9	211.9
40°	197.4	199.1	200.9	202.6	202.6	203.8	204.3	204.9	205.5	205.5
42.5°	191.0	192.7	193.9	195.6	196.2	196.8	197.4	198.5	198.5	199.1
45°	183.4	185.2	186.3	188.1	188.7	189.3	190.4	191.0	191.6	191.6
47.5°	175.3	176.5	177.6	179.4	180.5	181.1	181.7	182.3	182.9	182.3
50°	166.0	167.2	168.9	170.7	171.3	171.8	173.0	173.0	173.6	173.6
52.5°	156.2	157.9	159.1	160.8	161.4	162.0	163.1	163.1	163.7	163.7
55°	145.1	146.3	147.5	150.4	150.9	151.5	152.7	152.7	153.3	153.8
57.5°	134.7	135.3	137.0	138.2	139.3	139.3	139.9	140.5	141.1	141.1
60°	123.7	124.2	125.4	127.1	127.1	127.7	128.9	128.9	129.5	129.5
62.5°	112.0	113.2	114.4	116.1	115.5	116.1	117.3	117.3	117.8	117.8
65°	100.4	101.0	102.2	103.3	103.9	103.9	104.5	105.1	105.7	105.7
67.5°	88.2	89.4	90.0	91.7	91.1	91.7	92.3	92.3	92.9	92.9
70°	76.6	77.2	78.4	79.0	79.0	79.5	80.1	80.1	80.1	80.7
72.5°	65.0	65.6	66.2	66.8	66.8	67.3	67.9	67.9	68.5	68.5
75°	52.8	54.0	54.6	55.7	55.2	55.7	56.9	56.9	56.9	56.9
77.5°	42.4	43.0	44.1	44.7	44.7	44.7	45.9	45.3	45.9	45.9
80°	31.9	32.5	33.7	34.3	34.3	34.8	35.4	35.4	35.4	36.0
82.5°	22.6	23.8	25.0	25.5	25.5	26.1	26.7	26.7	27.3	27.3
85°	15.7	16.8	18.0	18.0	18.6	19.2	19.7	19.7	19.7	19.7
87.5°	10.4	11.0	11.6	12.2	12.8	12.8	13.4	13.4	13.9	13.9
90°	5.8	6.4	7.0	7.5	7.5	8.1	8.1	8.7	8.7	8.7
92.5°	8.1	8.1	8.7	9.3	9.3	9.3	9.3	9.9	9.9	9.9
95°	17.4	18.0	18.0	19.2	19.2	19.2	19.7	19.7	19.7	19.7
97.5°	33.7	33.7	33.7	34.8	34.8	34.8	35.4	35.4	35.4	36.0
100°	52.8	53.4	53.4	55.2	54.6	55.7	55.7	55.7	55.7	56.3
102.5°	74.3	75.5	76.0	77.8	77.8	77.8	79.0	78.4	79.0	79.0
105°	97.5	98.7	99.3	101.0	102.2	102.2	103.3	102.8	103.3	103.9
107.5°	120.7	122.5	123.7	125.4	126.6	127.1	127.1	127.7	128.3	128.9
110°	144.6	146.3	149.2	150.9	151.5	152.7	153.3	153.8	154.4	155.6



TEST NUMBER: P395499

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	169.5	171.3	173.6	175.9	175.3	177.1	178.2	178.8	179.4	178.8
115°	192.2	194.5	196.8	199.1	199.1	200.3	202.6	203.2	203.2	204.3
117.5°	213.6	216.5	218.9	221.2	221.8	222.9	224.7	226.4	226.4	227.6
120°	234.5	238.0	240.3	242.7	243.8	244.4	246.1	248.5	248.5	248.5
122.5°	254.3	257.2	260.1	262.4	263.6	264.7	265.9	268.8	268.8	269.9
125°	272.8	276.3	279.2	281.6	282.7	283.9	286.2	287.9	288.5	288.5
127.5°	290.3	293.7	296.6	299.6	300.1	301.3	303.6	305.9	306.5	307.1
130°	306.5	310.0	312.9	315.8	317.0	317.5	320.5	322.2	323.4	323.9
132.5°	321.0	324.5	327.4	330.3	331.5	332.6	334.4	337.3	337.9	337.9
135°	334.4	337.9	340.8	344.3	344.8	346.0	348.3	350.1	351.2	351.8
137.5°	346.6	350.1	353.5	356.4	357.6	358.2	360.5	362.8	364.0	364.6
140°	357.6	361.1	364.6	366.9	367.5	369.2	371.0	373.3	374.4	375.0
142.5°	368.1	371.0	373.9	376.8	377.3	378.5	380.2	382.6	383.7	384.3
145°	377.3	380.2	382.6	384.9	385.5	386.6	388.4	390.1	391.3	391.9
147.5°	386.1	388.4	390.7	392.4	393.0	394.2	395.3	396.5	397.7	398.2
150°	393.6	394.8	397.1	398.2	398.8	400.0	401.1	402.3	403.5	404.0
152.5°	399.4	401.1	402.3	404.0	404.6	405.2	406.4	407.5	408.7	408.7
155°	404.0	405.8	407.0	408.7	409.3	409.9	411.0	411.6	412.8	412.8
157.5°	407.5	409.3	410.4	411.6	412.2	412.8	413.3	414.5	415.7	415.7
160°	411.6	412.2	412.8	413.9	413.9	414.5	415.1	415.7	416.8	416.8
162.5°	415.1	415.7	414.5	415.1	414.5	415.1	415.7	416.2	416.8	416.8
165°	416.2	417.4	416.8	417.4	417.4	417.4	417.4	418.0	418.0	418.0
167.5°	416.2	417.4	416.8	416.8	417.4	417.4	418.0	418.6	418.6	418.6
170°	416.2	416.8	416.2	415.7	416.2	416.2	416.2	416.8	416.8	416.8
172.5°	415.7	416.2	415.1	414.5	414.5	414.5	413.9	413.9	413.3	413.3
175°	415.1	415.1	413.9	413.3	413.3	413.3	412.2	411.6	411.0	410.4
177.5°	414.5	414.5	412.8	412.2	412.2	411.6	411.6	410.4	410.4	409.9
180°	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3	413.3

(END OF REPORT)