

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: P395500

Luminaire Tested: **I3-FL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395500
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 (4000K)
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2241.7 lumens
Efficiency: N/A
Efficacy: 135.0 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

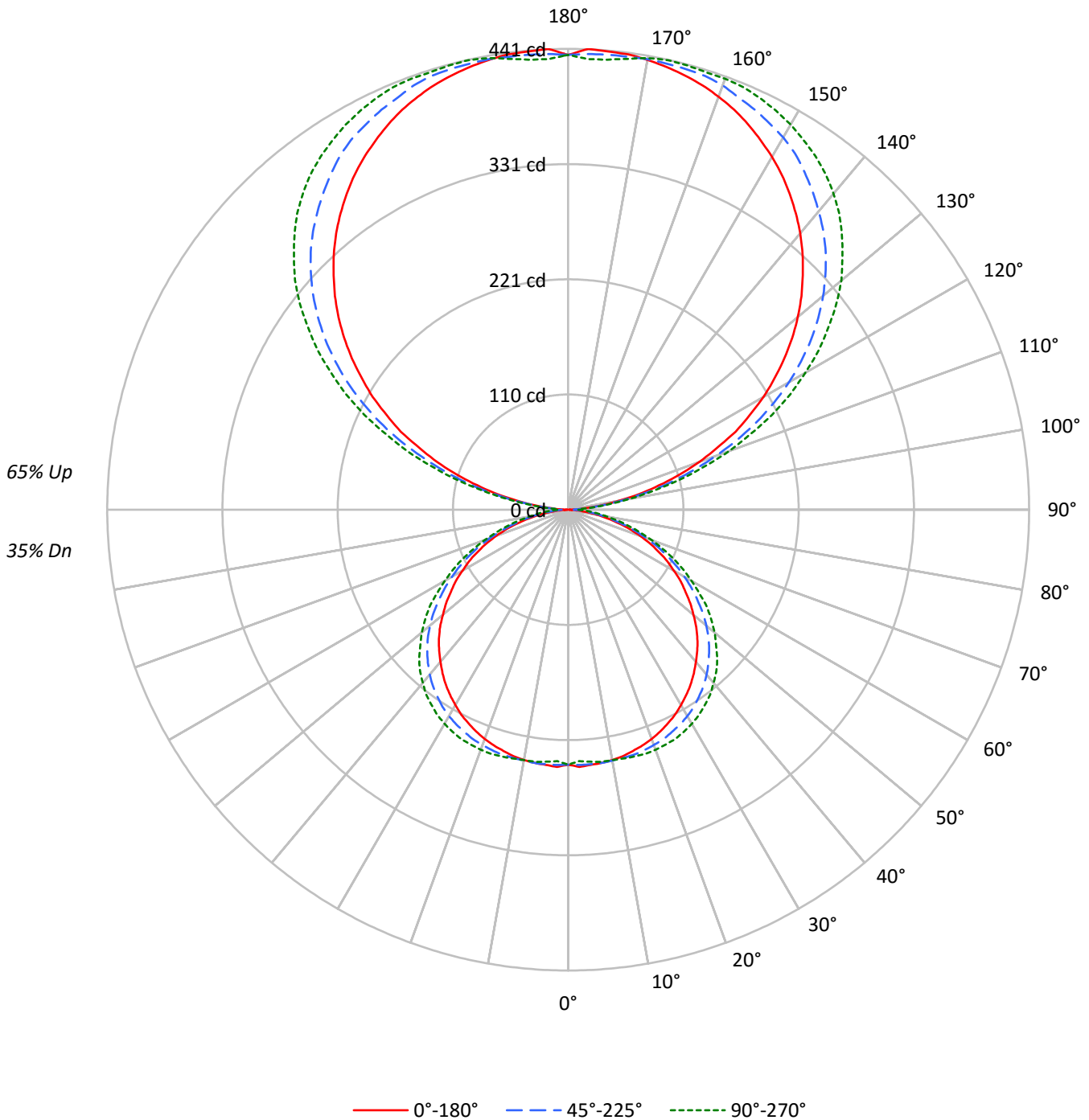
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P395500

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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°	1341	1341	1341
5°	1347	1318	1298
10°	1348	1300	1283
15°	1345	1289	1277
20°	1345	1278	1275
25°	1342	1266	1271
30°	1337	1255	1259
35°	1331	1234	1240
40°	1317	1209	1213
45°	1303	1171	1176
50°	1274	1120	1119
55°	1237	1049	1052
60°	1196	967	950
65°	1137	866	844
70°	1056	738	713
75°	918	586	567
80°	717	417	415
85°	390	239	273



TEST NUMBER: P395500

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	1.0
10°-20°	68.4	3.1
20°-30°	107.9	4.8
30°-40°	135.6	6.0
40°-50°	145.8	6.5
50°-60°	134.1	6.0
60°-70°	102.7	4.6
70°-80°	58.5	2.6
80°-90°	18.3	0.8
90°-100°	24.4	1.1
100°-110°	106.2	4.7
110°-120°	194.5	8.7
120°-130°	250.7	11.2
130°-140°	266.8	11.9
140°-150°	245.4	10.9
150°-160°	194.4	8.7
160°-170°	123.1	5.5
170°-180°	41.7	1.9
0°-30°	199.5	8.9
0°-40°	335.1	14.9
0°-60°	614.9	27.4
0°-90°	794.4	35.4
90°-120°	325.2	14.5
90°-150°	1088.0	48.5
90°-180°	1447.0	64.5
0°-180°	2241.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	244	244	244	244	244	
5°	245	243	244	243	242	23
15°	239	238	243	244	244	68
25°	226	226	235	240	242	104
35°	204	207	218	226	228	128
45°	175	179	191	199	202	135
55°	137	142	151	159	162	123
65°	95	98	104	109	111	95
75°	50	51	55	58	60	53
85°	9	12	15	20	21	12
90°	1	2	6	8	9	1
95°	16	16	18	20	21	21
105°	90	94	102	108	109	96
115°	177	185	199	210	215	173
125°	252	264	284	298	304	225
135°	317	328	348	363	370	245
145°	369	377	394	406	413	231
155°	407	412	422	431	435	188
165°	430	430	436	440	440	122
175°	440	437	437	435	432	42
180°	435	435	435	435	435	



TEST NUMBER: P395500

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9
2.5°	246.4	245.7	245.1	243.9	243.9	243.3	243.3	243.3	243.3	243.9	244.5
5°	245.1	245.1	244.5	243.3	243.3	242.7	242.7	243.3	242.7	243.3	244.5
7.5°	244.5	244.5	243.9	242.7	242.7	242.7	242.7	242.7	242.7	243.3	244.5
10°	243.3	243.3	242.1	241.5	241.5	241.5	241.5	242.1	242.1	242.7	243.9
12.5°	241.5	240.9	240.2	239.6	239.6	239.6	240.2	240.9	240.9	242.1	243.3
15°	239.0	239.0	238.4	237.8	237.8	237.8	238.4	239.0	239.6	240.9	242.7
17.5°	236.6	236.6	236.0	236.0	236.0	236.0	236.6	237.2	238.4	239.6	241.5
20°	233.5	233.5	232.9	232.9	232.9	233.5	233.5	234.7	236.0	237.8	239.6
22.5°	229.8	229.8	229.8	229.2	229.8	230.5	231.1	232.3	233.5	235.3	237.8
25°	225.6	225.6	225.6	225.6	226.2	226.2	227.4	228.6	229.8	232.3	234.7
27.5°	221.3	221.3	221.3	220.7	221.9	222.5	223.1	225.0	226.2	229.2	231.7
30°	215.8	215.8	215.8	216.4	217.0	217.6	218.8	220.7	221.9	225.0	228.0
32.5°	210.3	210.3	210.3	210.3	212.1	212.7	213.3	215.2	217.6	220.7	223.7
35°	204.2	204.2	204.2	204.8	206.0	206.6	207.8	209.7	212.1	215.2	218.2
37.5°	197.4	198.1	198.1	198.7	199.9	201.1	202.3	204.2	206.6	209.7	212.7
40°	190.1	190.7	190.7	191.3	192.6	193.8	195.0	197.4	199.9	203.0	206.0
42.5°	182.8	183.4	183.4	184.6	185.8	187.1	188.3	190.7	193.2	196.2	198.7
45°	174.8	175.4	175.4	176.7	178.5	179.1	180.9	183.4	185.8	188.3	190.7
47.5°	166.3	166.9	166.9	168.1	169.9	171.2	172.4	174.8	176.7	179.7	182.2
50°	156.5	157.1	157.7	158.9	161.4	162.6	163.8	165.7	168.1	169.9	172.4
52.5°	147.3	147.3	147.9	149.2	151.0	152.2	152.8	154.7	157.7	160.2	162.6
55°	136.9	137.5	138.2	139.4	141.2	142.4	143.0	144.9	146.7	148.5	151.0
57.5°	127.8	127.8	128.4	129.6	131.4	132.0	132.7	133.9	136.3	138.2	140.0
60°	116.8	117.4	118.0	119.2	120.4	121.6	121.6	123.5	125.3	127.1	128.4
62.5°	107.0	107.0	107.6	108.8	109.4	110.6	110.6	112.5	113.7	115.5	116.8
65°	95.4	96.0	96.6	97.2	98.4	98.4	99.0	100.3	101.5	102.7	104.5
67.5°	85.0	85.0	85.6	86.2	86.8	86.8	87.4	88.6	89.9	91.1	92.3
70°	73.4	74.0	74.0	74.0	74.6	75.2	75.8	76.4	77.6	78.2	79.5
72.5°	61.7	61.7	62.4	62.4	63.0	63.6	64.2	64.8	65.4	66.6	67.2
75°	50.1	50.1	50.7	50.7	51.3	51.3	51.3	52.6	53.2	54.4	55.0
77.5°	38.5	39.1	39.1	39.1	39.7	40.3	40.3	41.0	42.2	42.8	43.4
80°	28.1	28.1	28.1	28.1	28.7	29.3	30.0	30.0	31.2	32.4	33.0
82.5°	17.7	17.7	18.3	19.0	19.0	19.6	20.2	20.8	22.0	22.6	23.2
85°	9.2	9.2	9.8	10.4	11.0	11.6	11.6	12.2	13.4	14.7	15.3
87.5°	3.1	3.7	3.7	4.3	4.9	5.5	6.1	6.7	7.9	9.2	9.8
90°	0.6	0.6	0.6	1.2	1.8	1.8	2.4	3.1	3.7	4.3	5.5
92.5°	5.5	5.5	4.9	5.5	5.5	5.5	5.5	6.1	6.7	6.7	7.9
95°	16.5	15.9	15.9	15.9	15.9	15.9	15.9	16.5	17.1	17.1	17.7
97.5°	31.8	31.8	31.2	31.2	31.8	31.8	31.8	32.4	33.6	33.0	34.2
100°	49.5	49.5	48.9	49.5	50.1	50.7	52.0	52.0	53.2	53.2	55.0
102.5°	69.7	69.7	69.1	70.3	70.9	72.1	72.1	73.4	75.2	75.2	77.6
105°	89.9	90.5	90.5	91.7	92.9	94.1	94.1	96.0	98.4	98.4	101.5
107.5°	111.9	112.5	112.5	113.7	114.9	116.1	116.8	119.2	121.6	122.3	125.9
110°	133.3	133.9	134.5	135.7	136.9	138.8	140.0	142.4	145.5	146.7	149.8



TEST NUMBER: P395500

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	153.4	155.9	156.5	158.3	160.2	162.0	163.2	166.3	169.9	171.8	175.4
115°	176.7	177.9	178.5	180.3	182.8	184.6	185.8	188.9	192.6	195.0	199.3
117.5°	195.6	198.7	199.3	201.1	203.6	205.4	206.6	210.3	214.6	217.6	221.9
120°	215.8	218.2	220.7	221.9	223.7	226.2	227.4	231.1	236.0	239.0	243.9
122.5°	234.1	236.6	239.0	240.9	243.3	244.5	246.4	250.6	255.5	259.2	264.1
125°	252.5	255.5	257.4	259.2	262.2	263.5	265.3	269.6	274.5	278.8	283.6
127.5°	270.2	272.0	275.1	276.3	279.4	280.6	282.4	287.3	292.2	296.5	301.4
130°	286.7	289.1	291.6	292.2	295.9	297.7	299.5	303.8	309.3	313.6	318.5
132.5°	302.6	303.8	306.9	308.7	311.8	313.6	315.4	319.1	324.6	328.9	333.8
135°	317.3	318.5	322.2	324.0	325.8	327.7	330.1	333.8	339.3	343.5	348.4
137.5°	331.9	333.2	336.8	338.7	339.9	341.7	343.5	347.2	352.7	357.0	361.3
140°	345.4	346.6	349.0	351.5	352.7	353.9	355.8	359.4	364.3	368.6	372.9
142.5°	357.6	358.8	361.3	363.7	365.6	365.6	367.4	370.4	375.9	380.2	383.9
145°	369.2	369.8	372.3	374.7	377.2	377.2	377.8	380.8	385.7	390.6	394.3
147.5°	380.2	380.8	382.7	385.1	387.0	387.6	388.8	390.0	394.9	399.8	404.1
150°	390.0	390.6	391.8	394.3	395.5	396.7	398.0	398.6	402.2	406.5	411.4
152.5°	398.6	399.2	400.4	402.2	403.5	404.7	405.9	407.7	409.6	413.8	416.9
155°	407.1	407.7	408.3	410.2	411.4	412.0	412.6	415.1	416.9	419.3	422.4
157.5°	414.5	414.5	415.1	416.3	417.5	417.5	418.1	420.6	422.4	424.9	426.7
160°	420.6	420.6	421.2	422.4	422.4	423.0	423.6	425.5	426.7	429.7	432.2
162.5°	426.1	425.5	426.1	426.7	426.7	426.7	427.3	428.5	430.4	432.8	435.2
165°	430.4	430.4	430.4	431.0	431.0	430.4	430.4	431.6	432.8	434.6	436.5
167.5°	434.0	434.0	433.4	434.0	433.4	433.4	432.8	433.4	434.0	435.9	437.1
170°	437.1	436.5	436.5	436.5	435.9	435.2	435.2	435.2	435.2	436.5	437.7
172.5°	439.5	438.9	438.3	438.3	437.1	436.5	436.5	435.9	435.9	436.5	437.1
175°	440.1	439.5	438.9	438.9	437.7	437.1	436.5	436.5	435.9	436.5	437.1
177.5°	441.4	440.7	439.5	439.5	438.3	437.1	437.1	436.5	435.9	436.5	436.5
180°	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2



TEST NUMBER: P395500

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9	243.9
2.5°	245.1	245.1	244.5	243.9	243.9	243.3	242.7	242.1	241.5	240.9
5°	245.1	244.5	243.9	243.9	243.3	243.3	243.3	242.7	242.1	242.1
7.5°	245.1	245.1	244.5	243.9	243.9	243.9	243.9	243.9	243.3	243.3
10°	245.1	244.5	244.5	244.5	243.9	244.5	244.5	243.9	243.9	243.3
12.5°	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	244.5	243.9
15°	243.3	243.9	243.9	244.5	244.5	244.5	245.1	245.1	244.5	244.5
17.5°	242.7	243.3	243.9	244.5	244.5	244.5	245.1	245.1	245.1	245.1
20°	241.5	242.1	242.7	243.3	243.3	243.9	243.9	244.5	244.5	244.5
22.5°	239.0	239.6	240.9	241.5	242.1	242.7	243.3	243.3	243.3	243.3
25°	236.6	237.8	238.4	239.6	240.2	240.9	241.5	241.5	241.5	242.1
27.5°	233.5	234.7	236.6	237.2	237.8	238.4	239.0	239.6	239.6	239.6
30°	229.8	231.7	232.9	234.1	234.7	235.3	236.0	236.0	236.6	236.6
32.5°	225.6	227.4	228.6	229.8	230.5	231.1	232.3	232.3	232.9	232.9
35°	220.1	221.9	223.7	225.0	225.6	226.2	227.4	228.0	228.0	228.0
37.5°	214.6	216.4	218.2	220.1	220.7	221.3	222.5	222.5	223.1	223.1
40°	207.8	209.7	211.5	213.3	213.3	214.6	215.2	215.8	216.4	216.4
42.5°	201.1	203.0	204.2	206.0	206.6	207.2	207.8	209.1	209.1	209.7
45°	193.2	195.0	196.2	198.1	198.7	199.3	200.5	201.1	201.7	201.7
47.5°	184.6	185.8	187.1	188.9	190.1	190.7	191.3	191.9	192.6	191.9
50°	174.8	176.1	177.9	179.7	180.3	180.9	182.2	182.2	182.8	182.8
52.5°	164.4	166.3	167.5	169.3	169.9	170.6	171.8	171.8	172.4	172.4
55°	152.8	154.0	155.3	158.3	158.9	159.5	160.8	160.8	161.4	162.0
57.5°	141.8	142.4	144.3	145.5	146.7	146.7	147.3	147.9	148.5	148.5
60°	130.2	130.8	132.0	133.9	133.9	134.5	135.7	135.7	136.3	136.3
62.5°	118.0	119.2	120.4	122.3	121.6	122.3	123.5	123.5	124.1	124.1
65°	105.8	106.4	107.6	108.8	109.4	109.4	110.0	110.6	111.3	111.3
67.5°	92.9	94.1	94.8	96.6	96.0	96.6	97.2	97.2	97.8	97.8
70°	80.7	81.3	82.5	83.1	83.1	83.7	84.4	84.4	84.4	85.0
72.5°	68.5	69.1	69.7	70.3	70.3	70.9	71.5	71.5	72.1	72.1
75°	55.6	56.9	57.5	58.7	58.1	58.7	59.9	59.9	59.9	59.9
77.5°	44.6	45.2	46.5	47.1	47.1	47.1	48.3	47.7	48.3	48.3
80°	33.6	34.2	35.5	36.1	36.1	36.7	37.3	37.3	37.3	37.9
82.5°	23.8	25.1	26.3	26.9	26.9	27.5	28.1	28.1	28.7	28.7
85°	16.5	17.7	19.0	19.0	19.6	20.2	20.8	20.8	20.8	20.8
87.5°	11.0	11.6	12.2	12.8	13.4	13.4	14.1	14.1	14.7	14.7
90°	6.1	6.7	7.3	7.9	7.9	8.6	8.6	9.2	9.2	9.2
92.5°	8.6	8.6	9.2	9.8	9.8	9.8	9.8	10.4	10.4	10.4
95°	18.3	19.0	19.0	20.2	20.2	20.2	20.8	20.8	20.8	20.8
97.5°	35.5	35.5	35.5	36.7	36.7	36.7	37.3	37.3	37.3	37.9
100°	55.6	56.2	56.2	58.1	57.5	58.7	58.7	58.7	58.7	59.3
102.5°	78.2	79.5	80.1	81.9	81.9	81.9	83.1	82.5	83.1	83.1
105°	102.7	103.9	104.5	106.4	107.6	107.6	108.8	108.2	108.8	109.4
107.5°	127.1	129.0	130.2	132.0	133.3	133.9	133.9	134.5	135.1	135.7
110°	152.2	154.0	157.1	158.9	159.5	160.8	161.4	162.0	162.6	163.8



TEST NUMBER: P395500

CATALOG NUMBER: I3-FL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	178.5	180.3	182.8	185.2	184.6	186.4	187.7	188.3	188.9	188.3
115°	202.3	204.8	207.2	209.7	209.7	210.9	213.3	214.0	214.0	215.2
117.5°	225.0	228.0	230.5	232.9	233.5	234.7	236.6	238.4	238.4	239.6
120°	247.0	250.6	253.1	255.5	256.7	257.4	259.2	261.6	261.6	261.6
122.5°	267.7	270.8	273.9	276.3	277.5	278.8	280.0	283.0	283.0	284.3
125°	287.3	291.0	294.0	296.5	297.7	298.9	301.4	303.2	303.8	303.8
127.5°	305.6	309.3	312.4	315.4	316.0	317.3	319.7	322.2	322.8	323.4
130°	322.8	326.4	329.5	332.5	333.8	334.4	337.4	339.3	340.5	341.1
132.5°	338.0	341.7	344.8	347.8	349.0	350.3	352.1	355.2	355.8	355.8
135°	352.1	355.8	358.8	362.5	363.1	364.3	366.8	368.6	369.8	370.4
137.5°	364.9	368.6	372.3	375.3	376.6	377.2	379.6	382.1	383.3	383.9
140°	376.6	380.2	383.9	386.3	387.0	388.8	390.6	393.1	394.3	394.9
142.5°	387.6	390.6	393.7	396.7	397.3	398.6	400.4	402.8	404.1	404.7
145°	397.3	400.4	402.8	405.3	405.9	407.1	409.0	410.8	412.0	412.6
147.5°	406.5	409.0	411.4	413.2	413.8	415.1	416.3	417.5	418.7	419.3
150°	414.5	415.7	418.1	419.3	420.0	421.2	422.4	423.6	424.9	425.5
152.5°	420.6	422.4	423.6	425.5	426.1	426.7	427.9	429.1	430.4	430.4
155°	425.5	427.3	428.5	430.4	431.0	431.6	432.8	433.4	434.6	434.6
157.5°	429.1	431.0	432.2	433.4	434.0	434.6	435.2	436.5	437.7	437.7
160°	433.4	434.0	434.6	435.9	435.9	436.5	437.1	437.7	438.9	438.9
162.5°	437.1	437.7	436.5	437.1	436.5	437.1	437.7	438.3	438.9	438.9
165°	438.3	439.5	438.9	439.5	439.5	439.5	439.5	440.1	440.1	440.1
167.5°	438.3	439.5	438.9	438.9	439.5	439.5	440.1	440.7	440.7	440.7
170°	438.3	438.9	438.3	437.7	438.3	438.3	438.3	438.9	438.9	438.9
172.5°	437.7	438.3	437.1	436.5	436.5	436.5	435.9	435.9	435.2	435.2
175°	437.1	437.1	435.9	435.2	435.2	435.2	434.0	433.4	432.8	432.2
177.5°	436.5	436.5	434.6	434.0	434.0	433.4	433.4	432.2	432.2	431.6
180°	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2	435.2

(END OF REPORT)