

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: P395494

Luminaire Tested: **I3-FL-20L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395494
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 (4500K)
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2162.9 lumens
Efficiency: N/A
Efficacy: 131.1 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

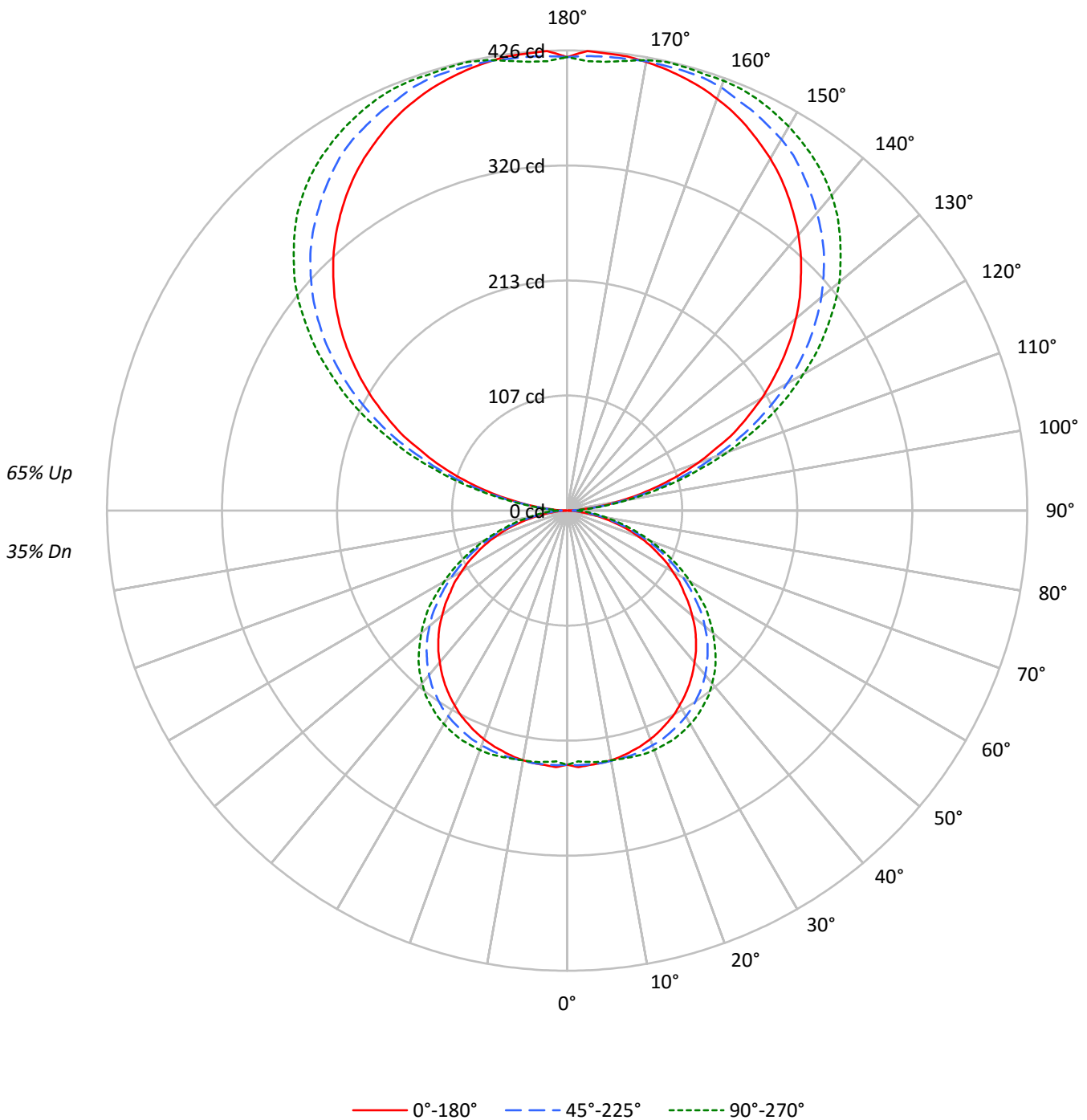
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1293	1293	1293
5°	1300	1272	1252
10°	1300	1254	1237
15°	1297	1244	1232
20°	1298	1233	1231
25°	1294	1222	1226
30°	1290	1211	1215
35°	1284	1191	1197
40°	1271	1166	1171
45°	1258	1130	1134
50°	1229	1080	1080
55°	1193	1012	1015
60°	1154	933	916
65°	1096	836	814
70°	1019	712	688
75°	887	566	547
80°	691	403	401
85°	373	230	264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	1.0
10°-20°	66.0	3.1
20°-30°	104.1	4.8
30°-40°	130.8	6.0
40°-50°	140.6	6.5
50°-60°	129.4	6.0
60°-70°	99.1	4.6
70°-80°	56.4	2.6
80°-90°	17.6	0.8
90°-100°	23.6	1.1
100°-110°	102.5	4.7
110°-120°	187.7	8.7
120°-130°	241.9	11.2
130°-140°	257.4	11.9
140°-150°	236.8	10.9
150°-160°	187.6	8.7
160°-170°	118.8	5.5
170°-180°	40.2	1.9
0°-30°	192.5	8.9
0°-40°	323.3	14.9
0°-60°	593.3	27.4
0°-90°	766.5	35.4
90°-120°	313.7	14.5
90°-150°	1049.8	48.5
90°-180°	1396.0	64.5
0°-180°	2162.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	235	235	235	235	235	
5°	236	234	236	235	234	23
15°	231	229	234	236	236	65
25°	218	218	226	232	234	100
35°	197	199	211	218	220	123
45°	169	173	184	192	195	130
55°	132	137	146	153	156	118
65°	92	95	101	106	107	91
75°	48	50	53	56	58	51
85°	9	11	15	19	20	11
90°	1	2	5	8	9	1
95°	16	15	17	20	20	20
105°	87	91	98	104	106	92
115°	170	178	192	202	208	167
125°	244	254	274	287	293	218
135°	306	316	336	350	357	236
145°	356	364	380	392	398	223
155°	393	398	408	416	419	181
165°	415	415	421	424	425	117
175°	425	422	422	420	417	40
180°	420	420	420	420	420	



TEST NUMBER: P395494

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	237.7	237.1	236.5	235.3	235.3	234.7	234.7	234.7	234.7	235.3	235.9
5°	236.5	236.5	235.9	234.7	234.7	234.2	234.2	234.7	234.2	234.7	235.9
7.5°	235.9	235.9	235.3	234.2	234.2	234.2	234.2	234.2	234.2	234.7	235.9
10°	234.7	234.7	233.6	233.0	233.0	233.0	233.0	233.6	233.6	234.2	235.3
12.5°	233.0	232.4	231.8	231.2	231.2	231.2	231.8	232.4	232.4	233.6	234.7
15°	230.6	230.6	230.0	229.4	229.4	229.4	230.0	230.6	231.2	232.4	234.2
17.5°	228.3	228.3	227.7	227.7	227.7	227.7	228.3	228.8	230.0	231.2	233.0
20°	225.3	225.3	224.7	224.7	224.7	225.3	225.3	226.5	227.7	229.4	231.2
22.5°	221.8	221.8	221.8	221.2	221.8	222.4	223.0	224.1	225.3	227.1	229.4
25°	217.6	217.6	217.6	217.6	218.2	218.2	219.4	220.6	221.8	224.1	226.5
27.5°	213.5	213.5	213.5	212.9	214.1	214.7	215.3	217.1	218.2	221.2	223.5
30°	208.2	208.2	208.2	208.8	209.4	210.0	211.2	212.9	214.1	217.1	220.0
32.5°	202.9	202.9	202.9	202.9	204.7	205.3	205.8	207.6	210.0	212.9	215.9
35°	197.0	197.0	197.0	197.6	198.8	199.4	200.5	202.3	204.7	207.6	210.6
37.5°	190.5	191.1	191.1	191.7	192.9	194.0	195.2	197.0	199.4	202.3	205.3
40°	183.4	184.0	184.0	184.6	185.8	187.0	188.2	190.5	192.9	195.8	198.8
42.5°	176.4	176.9	176.9	178.1	179.3	180.5	181.7	184.0	186.4	189.3	191.7
45°	168.7	169.3	169.3	170.5	172.2	172.8	174.6	176.9	179.3	181.7	184.0
47.5°	160.4	161.0	161.0	162.2	164.0	165.1	166.3	168.7	170.5	173.4	175.8
50°	151.0	151.6	152.2	153.4	155.7	156.9	158.1	159.8	162.2	164.0	166.3
52.5°	142.1	142.1	142.7	143.9	145.7	146.9	147.5	149.2	152.2	154.5	156.9
55°	132.1	132.7	133.3	134.5	136.2	137.4	138.0	139.8	141.6	143.3	145.7
57.5°	123.3	123.3	123.9	125.0	126.8	127.4	128.0	129.2	131.5	133.3	135.1
60°	112.7	113.2	113.8	115.0	116.2	117.4	117.4	119.1	120.9	122.7	123.9
62.5°	103.2	103.2	103.8	105.0	105.6	106.8	106.8	108.5	109.7	111.5	112.7
65°	92.0	92.6	93.2	93.8	95.0	95.0	95.6	96.7	97.9	99.1	100.9
67.5°	82.0	82.0	82.6	83.2	83.8	83.8	84.3	85.5	86.7	87.9	89.1
70°	70.8	71.4	71.4	71.4	72.0	72.5	73.1	73.7	74.9	75.5	76.7
72.5°	59.6	59.6	60.2	60.2	60.8	61.3	61.9	62.5	63.1	64.3	64.9
75°	48.4	48.4	49.0	49.0	49.5	49.5	49.5	50.7	51.3	52.5	53.1
77.5°	37.2	37.7	37.7	37.7	38.3	38.9	38.9	39.5	40.7	41.3	41.9
80°	27.1	27.1	27.1	27.1	27.7	28.3	28.9	28.9	30.1	31.3	31.9
82.5°	17.1	17.1	17.7	18.3	18.3	18.9	19.5	20.1	21.2	21.8	22.4
85°	8.8	8.8	9.4	10.0	10.6	11.2	11.2	11.8	13.0	14.2	14.7
87.5°	2.9	3.5	3.5	4.1	4.7	5.3	5.9	6.5	7.7	8.8	9.4
90°	0.6	0.6	0.6	1.2	1.8	1.8	2.4	2.9	3.5	4.1	5.3
92.5°	5.3	5.3	4.7	5.3	5.3	5.3	5.3	5.9	6.5	6.5	7.7
95°	15.9	15.3	15.3	15.3	15.3	15.3	15.3	15.9	16.5	16.5	17.1
97.5°	30.7	30.7	30.1	30.1	30.7	30.7	30.7	31.3	32.4	31.9	33.0
100°	47.8	47.8	47.2	47.8	48.4	49.0	50.1	50.1	51.3	51.3	53.1
102.5°	67.2	67.2	66.6	67.8	68.4	69.6	69.6	70.8	72.5	72.5	74.9
105°	86.7	87.3	87.3	88.5	89.7	90.8	90.8	92.6	95.0	95.0	97.9
107.5°	107.9	108.5	108.5	109.7	110.9	112.1	112.7	115.0	117.4	118.0	121.5
110°	128.6	129.2	129.8	130.9	132.1	133.9	135.1	137.4	140.4	141.6	144.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	148.0	150.4	151.0	152.8	154.5	156.3	157.5	160.4	164.0	165.7	169.3
115°	170.5	171.6	172.2	174.0	176.4	178.1	179.3	182.3	185.8	188.2	192.3
117.5°	188.7	191.7	192.3	194.0	196.4	198.2	199.4	202.9	207.0	210.0	214.1
120°	208.2	210.6	212.9	214.1	215.9	218.2	219.4	223.0	227.7	230.6	235.3
122.5°	225.9	228.3	230.6	232.4	234.7	235.9	237.7	241.8	246.5	250.1	254.8
125°	243.6	246.5	248.3	250.1	253.0	254.2	256.0	260.1	264.8	269.0	273.7
127.5°	260.7	262.5	265.4	266.6	269.5	270.7	272.5	277.2	281.9	286.1	290.8
130°	276.6	279.0	281.3	281.9	285.5	287.2	289.0	293.1	298.4	302.6	307.3
132.5°	292.0	293.1	296.1	297.9	300.8	302.6	304.3	307.9	313.2	317.3	322.0
135°	306.1	307.3	310.8	312.6	314.4	316.1	318.5	322.0	327.3	331.5	336.2
137.5°	320.3	321.4	325.0	326.8	327.9	329.7	331.5	335.0	340.3	344.5	348.6
140°	333.2	334.4	336.8	339.1	340.3	341.5	343.3	346.8	351.5	355.7	359.8
142.5°	345.0	346.2	348.6	350.9	352.7	352.7	354.5	357.4	362.7	366.9	370.4
145°	356.2	356.8	359.2	361.6	363.9	363.9	364.5	367.5	372.2	376.9	380.4
147.5°	366.9	367.5	369.2	371.6	373.4	373.9	375.1	376.3	381.0	385.7	389.9
150°	376.3	376.9	378.1	380.4	381.6	382.8	384.0	384.6	388.1	392.2	396.9
152.5°	384.6	385.2	386.3	388.1	389.3	390.5	391.6	393.4	395.2	399.3	402.3
155°	392.8	393.4	394.0	395.8	396.9	397.5	398.1	400.5	402.3	404.6	407.6
157.5°	399.9	399.9	400.5	401.7	402.8	402.8	403.4	405.8	407.6	409.9	411.7
160°	405.8	405.8	406.4	407.6	407.6	408.2	408.7	410.5	411.7	414.6	417.0
162.5°	411.1	410.5	411.1	411.7	411.7	411.7	412.3	413.5	415.2	417.6	419.9
165°	415.2	415.2	415.2	415.8	415.8	415.2	415.2	416.4	417.6	419.4	421.1
167.5°	418.8	418.8	418.2	418.8	418.2	418.2	417.6	418.2	418.8	420.5	421.7
170°	421.7	421.1	421.1	421.1	420.5	419.9	419.9	419.9	419.9	421.1	422.3
172.5°	424.1	423.5	422.9	422.9	421.7	421.1	421.1	420.5	420.5	421.1	421.7
175°	424.7	424.1	423.5	423.5	422.3	421.7	421.1	421.1	420.5	421.1	421.7
177.5°	425.8	425.3	424.1	424.1	422.9	421.7	421.7	421.1	420.5	421.1	421.1
180°	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	236.5	236.5	235.9	235.3	235.3	234.7	234.2	233.6	233.0	232.4
5°	236.5	235.9	235.3	235.3	234.7	234.7	234.7	234.2	233.6	233.6
7.5°	236.5	236.5	235.9	235.3	235.3	235.3	235.3	235.3	234.7	234.7
10°	236.5	235.9	235.9	235.9	235.3	235.9	235.9	235.3	235.3	234.7
12.5°	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.9	235.3
15°	234.7	235.3	235.3	235.9	235.9	235.9	236.5	236.5	235.9	235.9
17.5°	234.2	234.7	235.3	235.9	235.9	235.9	236.5	236.5	236.5	236.5
20°	233.0	233.6	234.2	234.7	234.7	235.3	235.3	235.9	235.9	235.9
22.5°	230.6	231.2	232.4	233.0	233.6	234.2	234.7	234.7	234.7	234.7
25°	228.3	229.4	230.0	231.2	231.8	232.4	233.0	233.0	233.0	233.6
27.5°	225.3	226.5	228.3	228.8	229.4	230.0	230.6	231.2	231.2	231.2
30°	221.8	223.5	224.7	225.9	226.5	227.1	227.7	227.7	228.3	228.3
32.5°	217.6	219.4	220.6	221.8	222.4	223.0	224.1	224.1	224.7	224.7
35°	212.3	214.1	215.9	217.1	217.6	218.2	219.4	220.0	220.0	220.0
37.5°	207.0	208.8	210.6	212.3	212.9	213.5	214.7	214.7	215.3	215.3
40°	200.5	202.3	204.1	205.8	205.8	207.0	207.6	208.2	208.8	208.8
42.5°	194.0	195.8	197.0	198.8	199.4	199.9	200.5	201.7	201.7	202.3
45°	186.4	188.2	189.3	191.1	191.7	192.3	193.5	194.0	194.6	194.6
47.5°	178.1	179.3	180.5	182.3	183.4	184.0	184.6	185.2	185.8	185.2
50°	168.7	169.9	171.6	173.4	174.0	174.6	175.8	175.8	176.4	176.4
52.5°	158.7	160.4	161.6	163.4	164.0	164.6	165.7	165.7	166.3	166.3
55°	147.5	148.6	149.8	152.8	153.4	153.9	155.1	155.1	155.7	156.3
57.5°	136.8	137.4	139.2	140.4	141.6	141.6	142.1	142.7	143.3	143.3
60°	125.6	126.2	127.4	129.2	129.2	129.8	130.9	130.9	131.5	131.5
62.5°	113.8	115.0	116.2	118.0	117.4	118.0	119.1	119.1	119.7	119.7
65°	102.0	102.6	103.8	105.0	105.6	105.6	106.2	106.8	107.3	107.3
67.5°	89.7	90.8	91.4	93.2	92.6	93.2	93.8	93.8	94.4	94.4
70°	77.9	78.4	79.6	80.2	80.2	80.8	81.4	81.4	81.4	82.0
72.5°	66.1	66.6	67.2	67.8	67.8	68.4	69.0	69.0	69.6	69.6
75°	53.7	54.9	55.4	56.6	56.0	56.6	57.8	57.8	57.8	57.8
77.5°	43.1	43.6	44.8	45.4	45.4	45.4	46.6	46.0	46.6	46.6
80°	32.4	33.0	34.2	34.8	34.8	35.4	36.0	36.0	36.0	36.6
82.5°	23.0	24.2	25.4	26.0	26.0	26.5	27.1	27.1	27.7	27.7
85°	15.9	17.1	18.3	18.3	18.9	19.5	20.1	20.1	20.1	20.1
87.5°	10.6	11.2	11.8	12.4	13.0	13.0	13.6	13.6	14.2	14.2
90°	5.9	6.5	7.1	7.7	7.7	8.3	8.3	8.8	8.8	8.8
92.5°	8.3	8.3	8.8	9.4	9.4	9.4	9.4	10.0	10.0	10.0
95°	17.7	18.3	18.3	19.5	19.5	19.5	20.1	20.1	20.1	20.1
97.5°	34.2	34.2	34.2	35.4	35.4	35.4	36.0	36.0	36.0	36.6
100°	53.7	54.3	54.3	56.0	55.4	56.6	56.6	56.6	56.6	57.2
102.5°	75.5	76.7	77.3	79.0	79.0	79.0	80.2	79.6	80.2	80.2
105°	99.1	100.3	100.9	102.6	103.8	103.8	105.0	104.4	105.0	105.6
107.5°	122.7	124.5	125.6	127.4	128.6	129.2	129.2	129.8	130.3	130.9
110°	146.9	148.6	151.6	153.4	153.9	155.1	155.7	156.3	156.9	158.1



TEST NUMBER: P395494

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	172.2	174.0	176.4	178.7	178.1	179.9	181.1	181.7	182.3	181.7
115°	195.2	197.6	199.9	202.3	202.3	203.5	205.8	206.4	206.4	207.6
117.5°	217.1	220.0	222.4	224.7	225.3	226.5	228.3	230.0	230.0	231.2
120°	238.3	241.8	244.2	246.5	247.7	248.3	250.1	252.4	252.4	252.4
122.5°	258.3	261.3	264.2	266.6	267.8	269.0	270.1	273.1	273.1	274.3
125°	277.2	280.8	283.7	286.1	287.2	288.4	290.8	292.5	293.1	293.1
127.5°	294.9	298.4	301.4	304.3	304.9	306.1	308.5	310.8	311.4	312.0
130°	311.4	315.0	317.9	320.9	322.0	322.6	325.6	327.3	328.5	329.1
132.5°	326.2	329.7	332.7	335.6	336.8	338.0	339.7	342.7	343.3	343.3
135°	339.7	343.3	346.2	349.8	350.4	351.5	353.9	355.7	356.8	357.4
137.5°	352.1	355.7	359.2	362.1	363.3	363.9	366.3	368.6	369.8	370.4
140°	363.3	366.9	370.4	372.8	373.4	375.1	376.9	379.3	380.4	381.0
142.5°	373.9	376.9	379.8	382.8	383.4	384.6	386.3	388.7	389.9	390.5
145°	383.4	386.3	388.7	391.0	391.6	392.8	394.6	396.4	397.5	398.1
147.5°	392.2	394.6	396.9	398.7	399.3	400.5	401.7	402.8	404.0	404.6
150°	399.9	401.1	403.4	404.6	405.2	406.4	407.6	408.7	409.9	410.5
152.5°	405.8	407.6	408.7	410.5	411.1	411.7	412.9	414.1	415.2	415.2
155°	410.5	412.3	413.5	415.2	415.8	416.4	417.6	418.2	419.4	419.4
157.5°	414.1	415.8	417.0	418.2	418.8	419.4	419.9	421.1	422.3	422.3
160°	418.2	418.8	419.4	420.5	420.5	421.1	421.7	422.3	423.5	423.5
162.5°	421.7	422.3	421.1	421.7	421.1	421.7	422.3	422.9	423.5	423.5
165°	422.9	424.1	423.5	424.1	424.1	424.1	424.1	424.7	424.7	424.7
167.5°	422.9	424.1	423.5	423.5	424.1	424.1	424.7	425.3	425.3	425.3
170°	422.9	423.5	422.9	422.3	422.9	422.9	422.9	423.5	423.5	423.5
172.5°	422.3	422.9	421.7	421.1	421.1	421.1	420.5	420.5	419.9	419.9
175°	421.7	421.7	420.5	419.9	419.9	419.9	418.8	418.2	417.6	417.0
177.5°	421.1	421.1	419.4	418.8	418.8	418.2	418.2	417.0	417.0	416.4
180°	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9	419.9

(END OF REPORT)