

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: P395496

Luminaire Tested: **I3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395496
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 (5700K)
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2220.4 lumens
Efficiency: N/A
Efficacy: 133.0 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

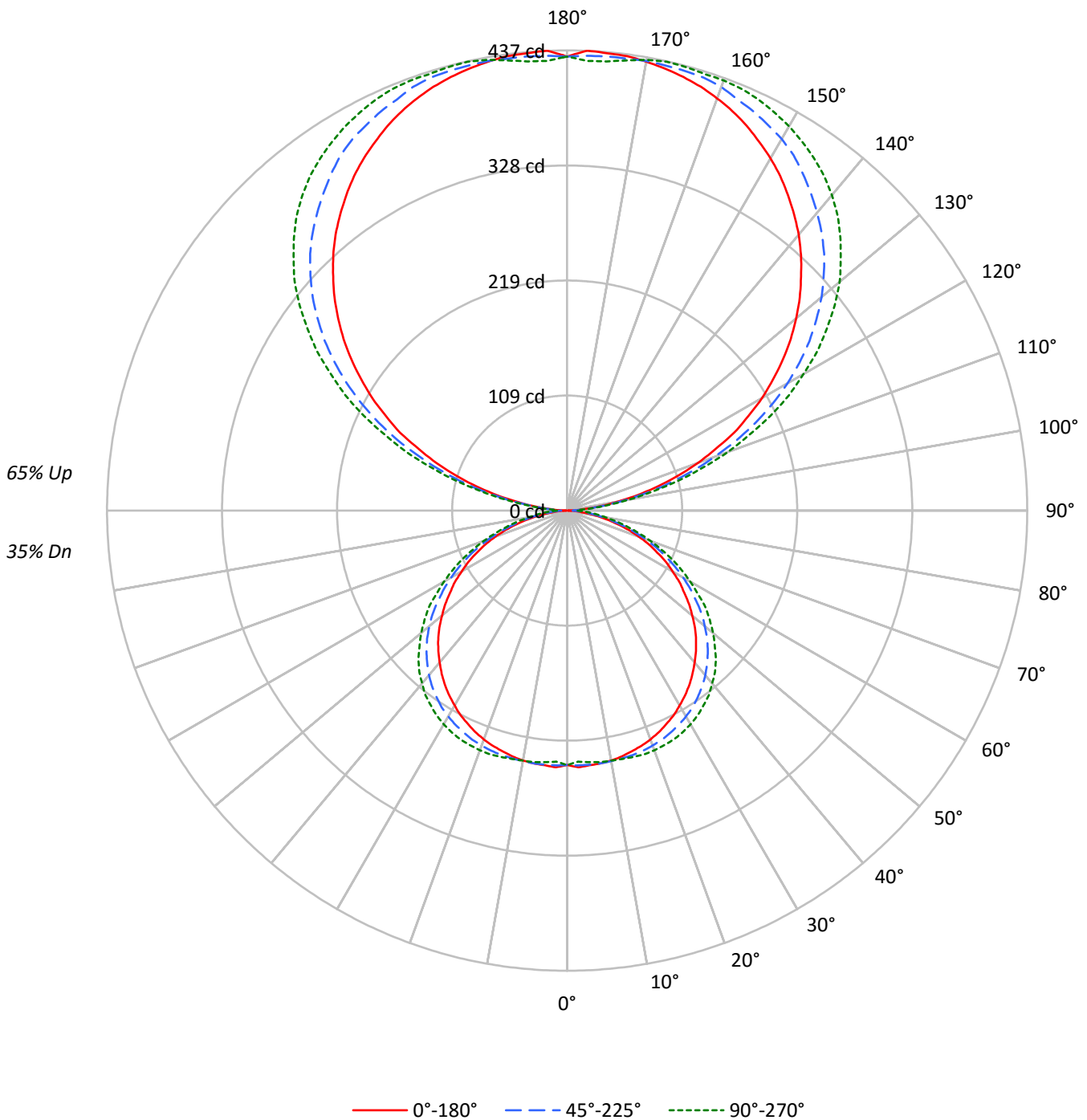
Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1328	1328	1328
5°	1335	1306	1286
10°	1335	1288	1270
15°	1332	1277	1265
20°	1332	1266	1263
25°	1328	1255	1259
30°	1324	1242	1247
35°	1317	1223	1228
40°	1304	1197	1202
45°	1291	1160	1165
50°	1261	1109	1108
55°	1225	1039	1042
60°	1184	958	941
65°	1126	857	836
70°	1046	731	706
75°	911	581	561
80°	711	413	411
85°	386	236	270



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	1.0
10°-20°	67.8	3.1
20°-30°	106.8	4.8
30°-40°	134.3	6.0
40°-50°	144.4	6.5
50°-60°	132.8	6.0
60°-70°	101.8	4.6
70°-80°	57.9	2.6
80°-90°	18.1	0.8
90°-100°	24.2	1.1
100°-110°	105.2	4.7
110°-120°	192.6	8.7
120°-130°	248.3	11.2
130°-140°	264.2	11.9
140°-150°	243.1	10.9
150°-160°	192.6	8.7
160°-170°	121.9	5.5
170°-180°	41.3	1.9
0°-30°	197.6	8.9
0°-40°	331.9	14.9
0°-60°	609.1	27.4
0°-90°	786.9	35.4
90°-120°	322.1	14.5
90°-150°	1077.7	48.5
90°-180°	1433.0	64.5
0°-180°	2220.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	242	242	242	242	242	
5°	243	240	242	241	240	23
15°	237	236	240	242	242	67
25°	223	224	232	238	240	103
35°	202	205	216	223	226	126
45°	173	177	189	197	200	133
55°	136	141	150	157	160	122
65°	94	98	104	108	110	94
75°	50	51	54	58	59	53
85°	9	12	15	19	21	11
90°	1	2	5	8	9	1
95°	16	16	18	20	21	20
105°	89	93	100	107	108	95
115°	175	183	197	208	213	172
125°	250	261	281	295	301	223
135°	314	324	345	360	367	243
145°	366	374	390	402	409	229
155°	403	408	418	427	430	186
165°	426	426	432	435	436	120
175°	436	433	433	431	428	42
180°	431	431	431	431	431	



TEST NUMBER: P395496

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6
2.5°	244.0	243.4	242.8	241.6	241.6	241.0	241.0	241.0	241.0	241.6	242.2
5°	242.8	242.8	242.2	241.0	241.0	240.4	240.4	241.0	240.4	241.0	242.2
7.5°	242.2	242.2	241.6	240.4	240.4	240.4	240.4	240.4	240.4	241.0	242.2
10°	241.0	241.0	239.8	239.2	239.2	239.2	239.2	239.8	239.8	240.4	241.6
12.5°	239.2	238.6	238.0	237.4	237.4	237.4	238.0	238.6	238.6	239.8	241.0
15°	236.7	236.7	236.1	235.5	235.5	235.5	236.1	236.7	237.4	238.6	240.4
17.5°	234.3	234.3	233.7	233.7	233.7	233.7	234.3	234.9	236.1	237.4	239.2
20°	231.3	231.3	230.7	230.7	230.7	231.3	231.3	232.5	233.7	235.5	237.4
22.5°	227.7	227.7	227.7	227.1	227.7	228.3	228.9	230.1	231.3	233.1	235.5
25°	223.4	223.4	223.4	223.4	224.0	224.0	225.2	226.5	227.7	230.1	232.5
27.5°	219.2	219.2	219.2	218.6	219.8	220.4	221.0	222.8	224.0	227.1	229.5
30°	213.7	213.7	213.7	214.3	214.9	215.6	216.8	218.6	219.8	222.8	225.8
32.5°	208.3	208.3	208.3	208.3	210.1	210.7	211.3	213.1	215.6	218.6	221.6
35°	202.2	202.2	202.2	202.8	204.1	204.7	205.9	207.7	210.1	213.1	216.2
37.5°	195.6	196.2	196.2	196.8	198.0	199.2	200.4	202.2	204.7	207.7	210.7
40°	188.3	188.9	188.9	189.5	190.7	191.9	193.2	195.6	198.0	201.0	204.1
42.5°	181.0	181.6	181.6	182.9	184.1	185.3	186.5	188.9	191.3	194.4	196.8
45°	173.2	173.8	173.8	175.0	176.8	177.4	179.2	181.6	184.1	186.5	188.9
47.5°	164.7	165.3	165.3	166.5	168.3	169.5	170.7	173.2	175.0	178.0	180.4
50°	155.0	155.6	156.2	157.4	159.8	161.1	162.3	164.1	166.5	168.3	170.7
52.5°	145.9	145.9	146.5	147.7	149.6	150.8	151.4	153.2	156.2	158.6	161.1
55°	135.6	136.2	136.8	138.1	139.9	141.1	141.7	143.5	145.3	147.1	149.6
57.5°	126.5	126.5	127.2	128.4	130.2	130.8	131.4	132.6	135.0	136.8	138.7
60°	115.6	116.3	116.9	118.1	119.3	120.5	120.5	122.3	124.1	125.9	127.2
62.5°	106.0	106.0	106.6	107.8	108.4	109.6	109.6	111.4	112.6	114.4	115.6
65°	94.5	95.1	95.7	96.3	97.5	97.5	98.1	99.3	100.5	101.7	103.5
67.5°	84.2	84.2	84.8	85.4	86.0	86.0	86.6	87.8	89.0	90.2	91.4
70°	72.7	73.3	73.3	73.3	73.9	74.5	75.1	75.7	76.9	77.5	78.7
72.5°	61.2	61.2	61.8	61.8	62.4	63.0	63.6	64.2	64.8	66.0	66.6
75°	49.7	49.7	50.3	50.3	50.9	50.9	50.9	52.1	52.7	53.9	54.5
77.5°	38.1	38.8	38.8	38.8	39.4	40.0	40.0	40.6	41.8	42.4	43.0
80°	27.9	27.9	27.9	27.9	28.5	29.1	29.7	29.7	30.9	32.1	32.7
82.5°	17.6	17.6	18.2	18.8	18.8	19.4	20.0	20.6	21.8	22.4	23.0
85°	9.1	9.1	9.7	10.3	10.9	11.5	11.5	12.1	13.3	14.5	15.1
87.5°	3.0	3.6	3.6	4.2	4.8	5.4	6.1	6.7	7.9	9.1	9.7
90°	0.6	0.6	0.6	1.2	1.8	1.8	2.4	3.0	3.6	4.2	5.4
92.5°	5.4	5.4	4.8	5.4	5.4	5.4	5.4	6.1	6.7	6.7	7.9
95°	16.3	15.7	15.7	15.7	15.7	15.7	15.7	16.3	17.0	17.0	17.6
97.5°	31.5	31.5	30.9	30.9	31.5	31.5	31.5	32.1	33.3	32.7	33.9
100°	49.0	49.0	48.4	49.0	49.7	50.3	51.5	51.5	52.7	52.7	54.5
102.5°	69.0	69.0	68.4	69.6	70.2	71.4	71.4	72.7	74.5	74.5	76.9
105°	89.0	89.6	89.6	90.8	92.0	93.2	93.2	95.1	97.5	97.5	100.5
107.5°	110.8	111.4	111.4	112.6	113.8	115.0	115.6	118.1	120.5	121.1	124.7
110°	132.0	132.6	133.2	134.4	135.6	137.4	138.7	141.1	144.1	145.3	148.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	152.0	154.4	155.0	156.8	158.6	160.5	161.7	164.7	168.3	170.1	173.8
115°	175.0	176.2	176.8	178.6	181.0	182.9	184.1	187.1	190.7	193.2	197.4
117.5°	193.8	196.8	197.4	199.2	201.6	203.4	204.7	208.3	212.5	215.6	219.8
120°	213.7	216.2	218.6	219.8	221.6	224.0	225.2	228.9	233.7	236.7	241.6
122.5°	231.9	234.3	236.7	238.6	241.0	242.2	244.0	248.3	253.1	256.7	261.6
125°	250.1	253.1	254.9	256.7	259.8	261.0	262.8	267.0	271.9	276.1	280.9
127.5°	267.6	269.4	272.5	273.7	276.7	277.9	279.7	284.6	289.4	293.7	298.5
130°	284.0	286.4	288.8	289.4	293.1	294.9	296.7	300.9	306.4	310.6	315.5
132.5°	299.7	300.9	304.0	305.8	308.8	310.6	312.4	316.1	321.5	325.8	330.6
135°	314.2	315.5	319.1	320.9	322.7	324.5	327.0	330.6	336.0	340.3	345.1
137.5°	328.8	330.0	333.6	335.4	336.7	338.5	340.3	343.9	349.4	353.6	357.8
140°	342.1	343.3	345.7	348.2	349.4	350.6	352.4	356.0	360.9	365.1	369.3
142.5°	354.2	355.4	357.8	360.3	362.1	362.1	363.9	366.9	372.4	376.6	380.2
145°	365.7	366.3	368.7	371.2	373.6	373.6	374.2	377.2	382.1	386.9	390.5
147.5°	376.6	377.2	379.0	381.5	383.3	383.9	385.1	386.3	391.1	396.0	400.2
150°	386.3	386.9	388.1	390.5	391.8	393.0	394.2	394.8	398.4	402.7	407.5
152.5°	394.8	395.4	396.6	398.4	399.6	400.8	402.0	403.9	405.7	409.9	412.9
155°	403.3	403.9	404.5	406.3	407.5	408.1	408.7	411.1	412.9	415.4	418.4
157.5°	410.5	410.5	411.1	412.3	413.6	413.6	414.2	416.6	418.4	420.8	422.6
160°	416.6	416.6	417.2	418.4	418.4	419.0	419.6	421.4	422.6	425.7	428.1
162.5°	422.0	421.4	422.0	422.6	422.6	422.6	423.2	424.4	426.3	428.7	431.1
165°	426.3	426.3	426.3	426.9	426.9	426.3	426.3	427.5	428.7	430.5	432.3
167.5°	429.9	429.9	429.3	429.9	429.3	429.3	428.7	429.3	429.9	431.7	432.9
170°	432.9	432.3	432.3	432.3	431.7	431.1	431.1	431.1	431.1	432.3	433.5
172.5°	435.3	434.7	434.1	434.1	432.9	432.3	432.3	431.7	431.7	432.3	432.9
175°	436.0	435.3	434.7	434.7	433.5	432.9	432.3	432.3	431.7	432.3	432.9
177.5°	437.2	436.6	435.3	435.3	434.1	432.9	432.9	432.3	431.7	432.3	432.3
180°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6
2.5°	242.8	242.8	242.2	241.6	241.6	241.0	240.4	239.8	239.2	238.6
5°	242.8	242.2	241.6	241.6	241.0	241.0	241.0	240.4	239.8	239.8
7.5°	242.8	242.8	242.2	241.6	241.6	241.6	241.6	241.6	241.0	241.0
10°	242.8	242.2	242.2	242.2	241.6	242.2	242.2	241.6	241.6	241.0
12.5°	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	242.2	241.6
15°	241.0	241.6	241.6	242.2	242.2	242.2	242.8	242.8	242.2	242.2
17.5°	240.4	241.0	241.6	242.2	242.2	242.2	242.8	242.8	242.8	242.8
20°	239.2	239.8	240.4	241.0	241.0	241.6	241.6	242.2	242.2	242.2
22.5°	236.7	237.4	238.6	239.2	239.8	240.4	241.0	241.0	241.0	241.0
25°	234.3	235.5	236.1	237.4	238.0	238.6	239.2	239.2	239.2	239.8
27.5°	231.3	232.5	234.3	234.9	235.5	236.1	236.7	237.4	237.4	237.4
30°	227.7	229.5	230.7	231.9	232.5	233.1	233.7	233.7	234.3	234.3
32.5°	223.4	225.2	226.5	227.7	228.3	228.9	230.1	230.1	230.7	230.7
35°	218.0	219.8	221.6	222.8	223.4	224.0	225.2	225.8	225.8	225.8
37.5°	212.5	214.3	216.2	218.0	218.6	219.2	220.4	220.4	221.0	221.0
40°	205.9	207.7	209.5	211.3	211.3	212.5	213.1	213.7	214.3	214.3
42.5°	199.2	201.0	202.2	204.1	204.7	205.3	205.9	207.1	207.1	207.7
45°	191.3	193.2	194.4	196.2	196.8	197.4	198.6	199.2	199.8	199.8
47.5°	182.9	184.1	185.3	187.1	188.3	188.9	189.5	190.1	190.7	190.1
50°	173.2	174.4	176.2	178.0	178.6	179.2	180.4	180.4	181.0	181.0
52.5°	162.9	164.7	165.9	167.7	168.3	168.9	170.1	170.1	170.7	170.7
55°	151.4	152.6	153.8	156.8	157.4	158.0	159.2	159.2	159.8	160.5
57.5°	140.5	141.1	142.9	144.1	145.3	145.3	145.9	146.5	147.1	147.1
60°	129.0	129.6	130.8	132.6	132.6	133.2	134.4	134.4	135.0	135.0
62.5°	116.9	118.1	119.3	121.1	120.5	121.1	122.3	122.3	122.9	122.9
65°	104.7	105.4	106.6	107.8	108.4	108.4	109.0	109.6	110.2	110.2
67.5°	92.0	93.2	93.9	95.7	95.1	95.7	96.3	96.3	96.9	96.9
70°	79.9	80.5	81.7	82.3	82.3	83.0	83.6	83.6	83.6	84.2
72.5°	67.8	68.4	69.0	69.6	69.6	70.2	70.8	70.8	71.4	71.4
75°	55.1	56.3	56.9	58.1	57.5	58.1	59.3	59.3	59.3	59.3
77.5°	44.2	44.8	46.0	46.6	46.6	46.6	47.8	47.2	47.8	47.8
80°	33.3	33.9	35.1	35.7	35.7	36.3	36.9	36.9	36.9	37.5
82.5°	23.6	24.8	26.0	26.6	26.6	27.2	27.9	27.9	28.5	28.5
85°	16.3	17.6	18.8	18.8	19.4	20.0	20.6	20.6	20.6	20.6
87.5°	10.9	11.5	12.1	12.7	13.3	13.3	13.9	13.9	14.5	14.5
90°	6.1	6.7	7.3	7.9	7.9	8.5	8.5	9.1	9.1	9.1
92.5°	8.5	8.5	9.1	9.7	9.7	9.7	9.7	10.3	10.3	10.3
95°	18.2	18.8	18.8	20.0	20.0	20.0	20.6	20.6	20.6	20.6
97.5°	35.1	35.1	35.1	36.3	36.3	36.3	36.9	36.9	36.9	37.5
100°	55.1	55.7	55.7	57.5	56.9	58.1	58.1	58.1	58.1	58.7
102.5°	77.5	78.7	79.3	81.1	81.1	81.1	82.3	81.7	82.3	82.3
105°	101.7	102.9	103.5	105.4	106.6	106.6	107.8	107.2	107.8	108.4
107.5°	125.9	127.8	129.0	130.8	132.0	132.6	132.6	133.2	133.8	134.4
110°	150.8	152.6	155.6	157.4	158.0	159.2	159.8	160.5	161.1	162.3



TEST NUMBER: P395496

CATALOG NUMBER: I3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	176.8	178.6	181.0	183.5	182.9	184.7	185.9	186.5	187.1	186.5
115°	200.4	202.8	205.3	207.7	207.7	208.9	211.3	211.9	211.9	213.1
117.5°	222.8	225.8	228.3	230.7	231.3	232.5	234.3	236.1	236.1	237.4
120°	244.6	248.3	250.7	253.1	254.3	254.9	256.7	259.1	259.1	259.1
122.5°	265.2	268.2	271.3	273.7	274.9	276.1	277.3	280.3	280.3	281.6
125°	284.6	288.2	291.2	293.7	294.9	296.1	298.5	300.3	300.9	300.9
127.5°	302.7	306.4	309.4	312.4	313.0	314.2	316.7	319.1	319.7	320.3
130°	319.7	323.3	326.4	329.4	330.6	331.2	334.2	336.0	337.3	337.9
132.5°	334.8	338.5	341.5	344.5	345.7	346.9	348.8	351.8	352.4	352.4
135°	348.8	352.4	355.4	359.1	359.7	360.9	363.3	365.1	366.3	366.9
137.5°	361.5	365.1	368.7	371.8	373.0	373.6	376.0	378.4	379.6	380.2
140°	373.0	376.6	380.2	382.7	383.3	385.1	386.9	389.3	390.5	391.1
142.5°	383.9	386.9	389.9	393.0	393.6	394.8	396.6	399.0	400.2	400.8
145°	393.6	396.6	399.0	401.4	402.0	403.3	405.1	406.9	408.1	408.7
147.5°	402.7	405.1	407.5	409.3	409.9	411.1	412.3	413.6	414.8	415.4
150°	410.5	411.7	414.2	415.4	416.0	417.2	418.4	419.6	420.8	421.4
152.5°	416.6	418.4	419.6	421.4	422.0	422.6	423.8	425.1	426.3	426.3
155°	421.4	423.2	424.4	426.3	426.9	427.5	428.7	429.3	430.5	430.5
157.5°	425.1	426.9	428.1	429.3	429.9	430.5	431.1	432.3	433.5	433.5
160°	429.3	429.9	430.5	431.7	431.7	432.3	432.9	433.5	434.7	434.7
162.5°	432.9	433.5	432.3	432.9	432.3	432.9	433.5	434.1	434.7	434.7
165°	434.1	435.3	434.7	435.3	435.3	435.3	435.3	436.0	436.0	436.0
167.5°	434.1	435.3	434.7	434.7	435.3	435.3	436.0	436.6	436.6	436.6
170°	434.1	434.7	434.1	433.5	434.1	434.1	434.1	434.7	434.7	434.7
172.5°	433.5	434.1	432.9	432.3	432.3	432.3	431.7	431.7	431.1	431.1
175°	432.9	432.9	431.7	431.1	431.1	431.1	429.9	429.3	428.7	428.1
177.5°	432.3	432.3	430.5	429.9	429.9	429.3	429.3	428.1	428.1	427.5
180°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1

(END OF REPORT)