

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: P393804

Luminaire Tested: **I3-FL-20L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-FL-20L840-1D-UNV-STD-W-4
Description: CORELITE I3, FROSTED TOP COVER
2000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1830.6 lumens
Efficiency: N/A
Efficacy: 143.0 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

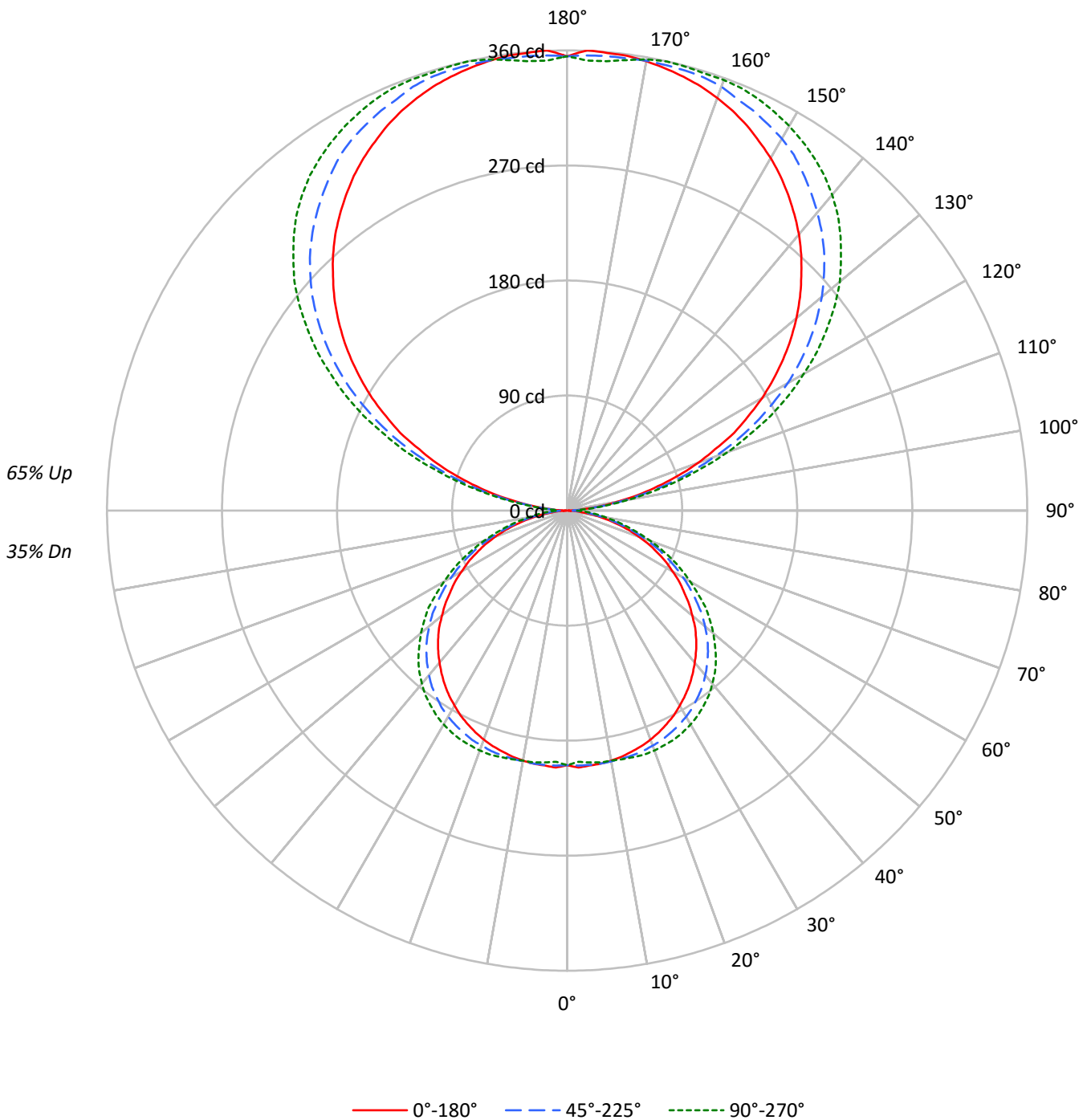
Input Watts (W): 12.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1095	1095	1095
5°	1100	1077	1060
10°	1101	1062	1047
15°	1098	1053	1043
20°	1098	1044	1042
25°	1095	1034	1038
30°	1091	1025	1028
35°	1086	1008	1013
40°	1076	987	991
45°	1065	957	960
50°	1040	914	914
55°	1010	856	859
60°	976	789	776
65°	928	707	689
70°	862	603	582
75°	750	479	463
80°	586	341	339
85°	318	195	223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	1.0
10°-20°	55.9	3.1
20°-30°	88.1	4.8
30°-40°	110.7	6.0
40°-50°	119.0	6.5
50°-60°	109.5	6.0
60°-70°	83.9	4.6
70°-80°	47.8	2.6
80°-90°	14.9	0.8
90°-100°	20.0	1.1
100°-110°	86.8	4.7
110°-120°	158.8	8.7
120°-130°	204.7	11.2
130°-140°	217.8	11.9
140°-150°	200.4	10.9
150°-160°	158.8	8.7
160°-170°	100.5	5.5
170°-180°	34.0	1.9
0°-30°	162.9	8.9
0°-40°	273.6	14.9
0°-60°	502.2	27.4
0°-90°	648.7	35.4
90°-120°	265.6	14.5
90°-150°	888.5	48.5
90°-180°	1182.0	64.6
0°-180°	1830.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	199	199	199	199	199	
5°	200	198	200	199	198	19
15°	195	194	198	200	200	55
25°	184	185	192	196	198	85
35°	167	169	178	184	186	104
45°	143	146	156	162	165	110
55°	112	116	123	130	132	100
65°	78	80	85	89	91	77
75°	41	42	45	47	49	43
85°	8	10	12	16	17	9
90°	0	2	4	6	8	1
95°	14	13	14	16	17	17
105°	73	77	83	88	89	78
115°	144	151	163	171	176	141
125°	206	215	232	243	248	184
135°	259	268	284	296	302	200
145°	302	308	322	332	337	189
155°	332	336	345	352	355	153
165°	351	351	356	359	359	99
175°	359	357	357	355	353	34
180°	355	355	355	355	355	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2
2.5°	201.2	200.7	200.2	199.2	199.2	198.7	198.7	198.7	198.7	199.2	199.7
5°	200.2	200.2	199.7	198.7	198.7	198.2	198.2	198.7	198.2	198.7	199.7
7.5°	199.7	199.7	199.2	198.2	198.2	198.2	198.2	198.2	198.2	198.7	199.7
10°	198.7	198.7	197.7	197.2	197.2	197.2	197.2	197.7	197.7	198.2	199.2
12.5°	197.2	196.7	196.2	195.7	195.7	195.7	196.2	196.7	196.7	197.7	198.7
15°	195.2	195.2	194.7	194.2	194.2	194.2	194.7	195.2	195.7	196.7	198.2
17.5°	193.2	193.2	192.7	192.7	192.7	192.7	193.2	193.7	194.7	195.7	197.2
20°	190.7	190.7	190.2	190.2	190.2	190.7	190.7	191.7	192.7	194.2	195.7
22.5°	187.7	187.7	187.7	187.2	187.7	188.2	188.7	189.7	190.7	192.2	194.2
25°	184.2	184.2	184.2	184.2	184.7	184.7	185.7	186.7	187.7	189.7	191.7
27.5°	180.7	180.7	180.7	180.2	181.2	181.7	182.2	183.7	184.7	187.2	189.2
30°	176.2	176.2	176.2	176.7	177.2	177.7	178.7	180.2	181.2	183.7	186.2
32.5°	171.7	171.7	171.7	171.7	173.2	173.7	174.2	175.7	177.7	180.2	182.7
35°	166.7	166.7	166.7	167.2	168.2	168.7	169.7	171.2	173.2	175.7	178.2
37.5°	161.2	161.7	161.7	162.2	163.2	164.2	165.2	166.7	168.7	171.2	173.7
40°	155.3	155.8	155.8	156.3	157.2	158.2	159.2	161.2	163.2	165.7	168.2
42.5°	149.3	149.8	149.8	150.8	151.8	152.8	153.8	155.8	157.7	160.2	162.2
45°	142.8	143.3	143.3	144.3	145.8	146.3	147.8	149.8	151.8	153.8	155.8
47.5°	135.8	136.3	136.3	137.3	138.8	139.8	140.8	142.8	144.3	146.8	148.8
50°	127.8	128.3	128.8	129.8	131.8	132.8	133.8	135.3	137.3	138.8	140.8
52.5°	120.3	120.3	120.8	121.8	123.3	124.3	124.8	126.3	128.8	130.8	132.8
55°	111.8	112.3	112.8	113.8	115.3	116.3	116.8	118.3	119.8	121.3	123.3
57.5°	104.3	104.3	104.8	105.8	107.3	107.8	108.3	109.3	111.3	112.8	114.3
60°	95.3	95.8	96.3	97.3	98.3	99.3	99.3	100.8	102.3	103.8	104.8
62.5°	87.4	87.4	87.9	88.9	89.4	90.4	90.4	91.9	92.9	94.3	95.3
65°	77.9	78.4	78.9	79.4	80.4	80.4	80.9	81.9	82.9	83.9	85.4
67.5°	69.4	69.4	69.9	70.4	70.9	70.9	71.4	72.4	73.4	74.4	75.4
70°	59.9	60.4	60.4	60.4	60.9	61.4	61.9	62.4	63.4	63.9	64.9
72.5°	50.4	50.4	50.9	50.9	51.4	51.9	52.4	52.9	53.4	54.4	54.9
75°	40.9	40.9	41.4	41.4	41.9	41.9	41.9	42.9	43.4	44.4	44.9
77.5°	31.4	31.9	31.9	31.9	32.4	32.9	32.9	33.4	34.4	34.9	35.4
80°	23.0	23.0	23.0	23.0	23.5	24.0	24.5	24.5	25.5	26.5	27.0
82.5°	14.5	14.5	15.0	15.5	15.5	16.0	16.5	17.0	18.0	18.5	19.0
85°	7.5	7.5	8.0	8.5	9.0	9.5	9.5	10.0	11.0	12.0	12.5
87.5°	2.5	3.0	3.0	3.5	4.0	4.5	5.0	5.5	6.5	7.5	8.0
90°	0.5	0.5	0.5	1.0	1.5	1.5	2.0	2.5	3.0	3.5	4.5
92.5°	4.5	4.5	4.0	4.5	4.5	4.5	4.5	5.0	5.5	5.5	6.5
95°	13.5	13.0	13.0	13.0	13.0	13.0	13.0	13.5	14.0	14.0	14.5
97.5°	26.0	26.0	25.5	25.5	26.0	26.0	26.0	26.5	27.5	27.0	28.0
100°	40.4	40.4	39.9	40.4	40.9	41.4	42.4	42.4	43.4	43.4	44.9
102.5°	56.9	56.9	56.4	57.4	57.9	58.9	58.9	59.9	61.4	61.4	63.4
105°	73.4	73.9	73.9	74.9	75.9	76.9	76.9	78.4	80.4	80.4	82.9
107.5°	91.4	91.9	91.9	92.9	93.9	94.8	95.3	97.3	99.3	99.8	102.8
110°	108.8	109.3	109.8	110.8	111.8	113.3	114.3	116.3	118.8	119.8	122.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	125.3	127.3	127.8	129.3	130.8	132.3	133.3	135.8	138.8	140.3	143.3
115°	144.3	145.3	145.8	147.3	149.3	150.8	151.8	154.3	157.2	159.2	162.7
117.5°	159.7	162.2	162.7	164.2	166.2	167.7	168.7	171.7	175.2	177.7	181.2
120°	176.2	178.2	180.2	181.2	182.7	184.7	185.7	188.7	192.7	195.2	199.2
122.5°	191.2	193.2	195.2	196.7	198.7	199.7	201.2	204.7	208.7	211.7	215.7
125°	206.2	208.7	210.2	211.7	214.2	215.2	216.7	220.1	224.1	227.6	231.6
127.5°	220.6	222.1	224.6	225.6	228.1	229.1	230.6	234.6	238.6	242.1	246.1
130°	234.1	236.1	238.1	238.6	241.6	243.1	244.6	248.1	252.6	256.1	260.1
132.5°	247.1	248.1	250.6	252.1	254.6	256.1	257.6	260.6	265.1	268.6	272.6
135°	259.1	260.1	263.1	264.6	266.1	267.6	269.6	272.6	277.1	280.6	284.5
137.5°	271.1	272.1	275.1	276.6	277.6	279.1	280.6	283.5	288.0	291.5	295.0
140°	282.1	283.0	285.0	287.0	288.0	289.0	290.5	293.5	297.5	301.0	304.5
142.5°	292.0	293.0	295.0	297.0	298.5	298.5	300.0	302.5	307.0	310.5	313.5
145°	301.5	302.0	304.0	306.0	308.0	308.0	308.5	311.0	315.0	319.0	322.0
147.5°	310.5	311.0	312.5	314.5	316.0	316.5	317.5	318.5	322.5	326.5	330.0
150°	318.5	319.0	320.0	322.0	323.0	324.0	325.0	325.5	328.5	332.0	336.0
152.5°	325.5	326.0	327.0	328.5	329.5	330.5	331.5	333.0	334.5	338.0	340.5
155°	332.5	333.0	333.5	335.0	336.0	336.5	337.0	339.0	340.5	342.5	345.0
157.5°	338.5	338.5	339.0	340.0	341.0	341.0	341.5	343.5	345.0	346.9	348.4
160°	343.5	343.5	344.0	345.0	345.0	345.5	345.9	347.4	348.4	350.9	352.9
162.5°	347.9	347.4	347.9	348.4	348.4	348.4	348.9	349.9	351.4	353.4	355.4
165°	351.4	351.4	351.4	351.9	351.9	351.4	351.4	352.4	353.4	354.9	356.4
167.5°	354.4	354.4	353.9	354.4	353.9	353.9	353.4	353.9	354.4	355.9	356.9
170°	356.9	356.4	356.4	356.4	355.9	355.4	355.4	355.4	355.4	356.4	357.4
172.5°	358.9	358.4	357.9	357.9	356.9	356.4	356.4	355.9	355.9	356.4	356.9
175°	359.4	358.9	358.4	358.4	357.4	356.9	356.4	356.4	355.9	356.4	356.9
177.5°	360.4	359.9	358.9	358.9	357.9	356.9	356.9	356.4	355.9	356.4	356.4
180°	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2
2.5°	200.2	200.2	199.7	199.2	199.2	198.7	198.2	197.7	197.2	196.7
5°	200.2	199.7	199.2	199.2	198.7	198.7	198.7	198.2	197.7	197.7
7.5°	200.2	200.2	199.7	199.2	199.2	199.2	199.2	199.2	198.7	198.7
10°	200.2	199.7	199.7	199.7	199.2	199.7	199.7	199.2	199.2	198.7
12.5°	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.2
15°	198.7	199.2	199.2	199.7	199.7	199.7	200.2	200.2	199.7	199.7
17.5°	198.2	198.7	199.2	199.7	199.7	199.7	200.2	200.2	200.2	200.2
20°	197.2	197.7	198.2	198.7	198.7	199.2	199.2	199.7	199.7	199.7
22.5°	195.2	195.7	196.7	197.2	197.7	198.2	198.7	198.7	198.7	198.7
25°	193.2	194.2	194.7	195.7	196.2	196.7	197.2	197.2	197.2	197.7
27.5°	190.7	191.7	193.2	193.7	194.2	194.7	195.2	195.7	195.7	195.7
30°	187.7	189.2	190.2	191.2	191.7	192.2	192.7	192.7	193.2	193.2
32.5°	184.2	185.7	186.7	187.7	188.2	188.7	189.7	189.7	190.2	190.2
35°	179.7	181.2	182.7	183.7	184.2	184.7	185.7	186.2	186.2	186.2
37.5°	175.2	176.7	178.2	179.7	180.2	180.7	181.7	181.7	182.2	182.2
40°	169.7	171.2	172.7	174.2	174.2	175.2	175.7	176.2	176.7	176.7
42.5°	164.2	165.7	166.7	168.2	168.7	169.2	169.7	170.7	170.7	171.2
45°	157.7	159.2	160.2	161.7	162.2	162.7	163.7	164.2	164.7	164.7
47.5°	150.8	151.8	152.8	154.3	155.3	155.8	156.3	156.8	157.2	156.8
50°	142.8	143.8	145.3	146.8	147.3	147.8	148.8	148.8	149.3	149.3
52.5°	134.3	135.8	136.8	138.3	138.8	139.3	140.3	140.3	140.8	140.8
55°	124.8	125.8	126.8	129.3	129.8	130.3	131.3	131.3	131.8	132.3
57.5°	115.8	116.3	117.8	118.8	119.8	119.8	120.3	120.8	121.3	121.3
60°	106.3	106.8	107.8	109.3	109.3	109.8	110.8	110.8	111.3	111.3
62.5°	96.3	97.3	98.3	99.8	99.3	99.8	100.8	100.8	101.3	101.3
65°	86.4	86.9	87.9	88.9	89.4	89.4	89.9	90.4	90.9	90.9
67.5°	75.9	76.9	77.4	78.9	78.4	78.9	79.4	79.4	79.9	79.9
70°	65.9	66.4	67.4	67.9	67.9	68.4	68.9	68.9	68.9	69.4
72.5°	55.9	56.4	56.9	57.4	57.4	57.9	58.4	58.4	58.9	58.9
75°	45.4	46.4	46.9	47.9	47.4	47.9	48.9	48.9	48.9	48.9
77.5°	36.4	36.9	37.9	38.4	38.4	38.4	39.4	38.9	39.4	39.4
80°	27.5	28.0	29.0	29.5	29.5	30.0	30.5	30.5	30.5	31.0
82.5°	19.5	20.5	21.5	22.0	22.0	22.5	23.0	23.0	23.5	23.5
85°	13.5	14.5	15.5	15.5	16.0	16.5	17.0	17.0	17.0	17.0
87.5°	9.0	9.5	10.0	10.5	11.0	11.0	11.5	11.5	12.0	12.0
90°	5.0	5.5	6.0	6.5	6.5	7.0	7.0	7.5	7.5	7.5
92.5°	7.0	7.0	7.5	8.0	8.0	8.0	8.0	8.5	8.5	8.5
95°	15.0	15.5	15.5	16.5	16.5	16.5	17.0	17.0	17.0	17.0
97.5°	29.0	29.0	29.0	30.0	30.0	30.0	30.5	30.5	30.5	31.0
100°	45.4	45.9	45.9	47.4	46.9	47.9	47.9	47.9	47.9	48.4
102.5°	63.9	64.9	65.4	66.9	66.9	66.9	67.9	67.4	67.9	67.9
105°	83.9	84.9	85.4	86.9	87.9	87.9	88.9	88.4	88.9	89.4
107.5°	103.8	105.3	106.3	107.8	108.8	109.3	109.3	109.8	110.3	110.8
110°	124.3	125.8	128.3	129.8	130.3	131.3	131.8	132.3	132.8	133.8



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CATALOG NUMBER: I3-FL-20L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	145.8	147.3	149.3	151.3	150.8	152.3	153.3	153.8	154.3	153.8
115°	165.2	167.2	169.2	171.2	171.2	172.2	174.2	174.7	174.7	175.7
117.5°	183.7	186.2	188.2	190.2	190.7	191.7	193.2	194.7	194.7	195.7
120°	201.7	204.7	206.7	208.7	209.7	210.2	211.7	213.7	213.7	213.7
122.5°	218.7	221.1	223.6	225.6	226.6	227.6	228.6	231.1	231.1	232.1
125°	234.6	237.6	240.1	242.1	243.1	244.1	246.1	247.6	248.1	248.1
127.5°	249.6	252.6	255.1	257.6	258.1	259.1	261.1	263.1	263.6	264.1
130°	263.6	266.6	269.1	271.6	272.6	273.1	275.6	277.1	278.1	278.6
132.5°	276.1	279.1	281.6	284.0	285.0	286.0	287.5	290.0	290.5	290.5
135°	287.5	290.5	293.0	296.0	296.5	297.5	299.5	301.0	302.0	302.5
137.5°	298.0	301.0	304.0	306.5	307.5	308.0	310.0	312.0	313.0	313.5
140°	307.5	310.5	313.5	315.5	316.0	317.5	319.0	321.0	322.0	322.5
142.5°	316.5	319.0	321.5	324.0	324.5	325.5	327.0	329.0	330.0	330.5
145°	324.5	327.0	329.0	331.0	331.5	332.5	334.0	335.5	336.5	337.0
147.5°	332.0	334.0	336.0	337.5	338.0	339.0	340.0	341.0	342.0	342.5
150°	338.5	339.5	341.5	342.5	343.0	344.0	345.0	345.9	346.9	347.4
152.5°	343.5	345.0	345.9	347.4	347.9	348.4	349.4	350.4	351.4	351.4
155°	347.4	348.9	349.9	351.4	351.9	352.4	353.4	353.9	354.9	354.9
157.5°	350.4	351.9	352.9	353.9	354.4	354.9	355.4	356.4	357.4	357.4
160°	353.9	354.4	354.9	355.9	355.9	356.4	356.9	357.4	358.4	358.4
162.5°	356.9	357.4	356.4	356.9	356.4	356.9	357.4	357.9	358.4	358.4
165°	357.9	358.9	358.4	358.9	358.9	358.9	358.9	359.4	359.4	359.4
167.5°	357.9	358.9	358.4	358.4	358.9	358.9	359.4	359.9	359.9	359.9
170°	357.9	358.4	357.9	357.4	357.9	357.9	357.9	358.4	358.4	358.4
172.5°	357.4	357.9	356.9	356.4	356.4	356.4	355.9	355.9	355.4	355.4
175°	356.9	356.9	355.9	355.4	355.4	355.4	354.4	353.9	353.4	352.9
177.5°	356.4	356.4	354.9	354.4	354.4	353.9	353.9	352.9	352.9	352.4
180°	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4

(END OF REPORT)