

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: P395553

Luminaire Tested: **I3-FL-40L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395553
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-40L83050-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, FROSTED TOP COVER
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3875.2 lumens
Efficiency: N/A
Efficacy: 132.3 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

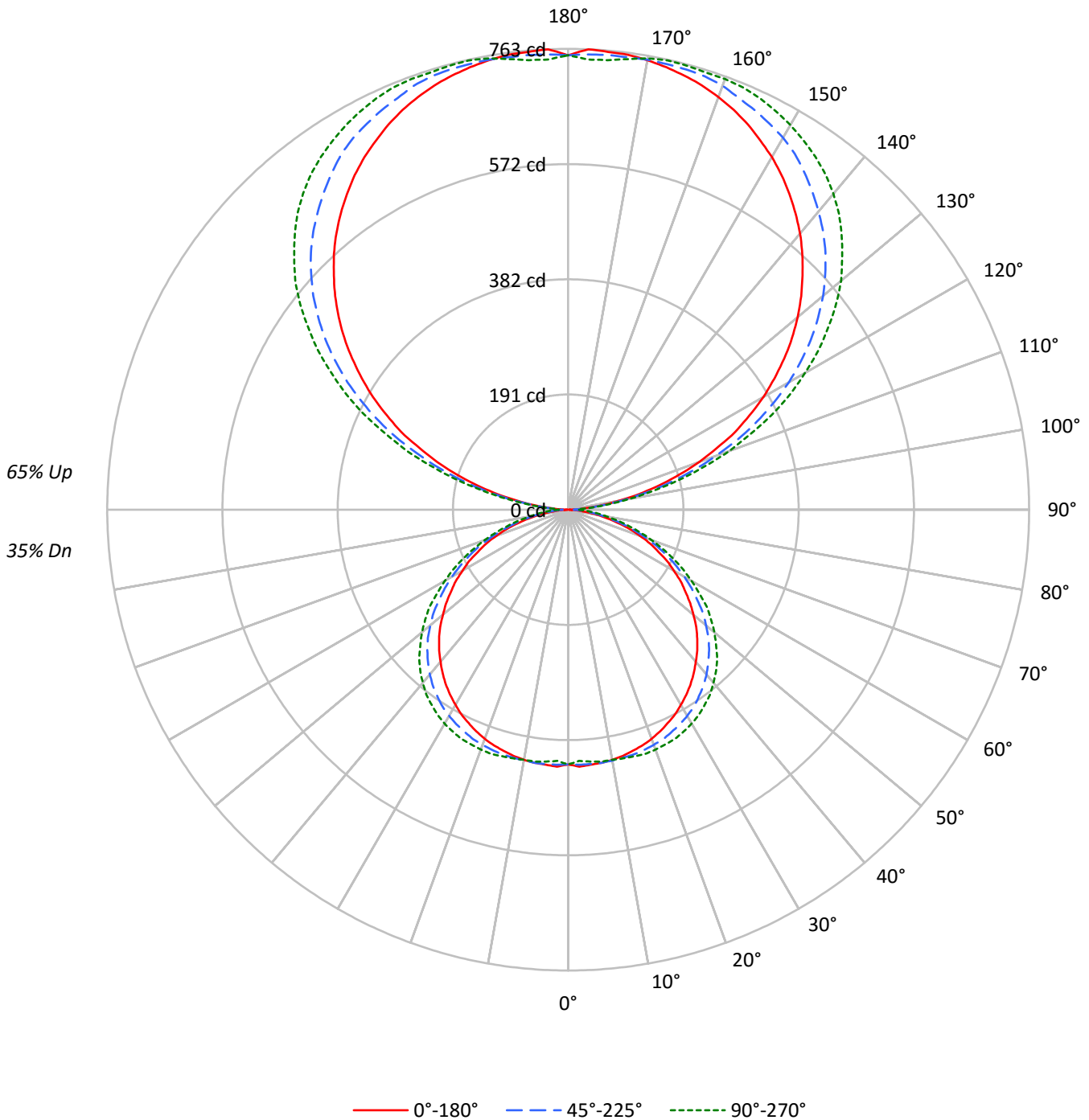
Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2317	2317	2317
5°	2330	2279	2244
10°	2330	2248	2217
15°	2325	2228	2208
20°	2325	2209	2205
25°	2319	2190	2197
30°	2311	2169	2177
35°	2300	2134	2145
40°	2277	2089	2098
45°	2253	2025	2033
50°	2201	1935	1934
55°	2138	1813	1818
60°	2066	1670	1643
65°	1965	1497	1458
70°	1824	1276	1232
75°	1589	1014	980
80°	1239	721	717
85°	675	412	471



TEST NUMBER: P395553

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.0
10°-20°	118.2	3.1
20°-30°	186.5	4.8
30°-40°	234.4	6.0
40°-50°	252.0	6.5
50°-60°	231.8	6.0
60°-70°	177.6	4.6
70°-80°	101.1	2.6
80°-90°	31.6	0.8
90°-100°	42.2	1.1
100°-110°	183.6	4.7
110°-120°	336.2	8.7
120°-130°	433.4	11.2
130°-140°	461.1	11.9
140°-150°	424.3	10.9
150°-160°	336.1	8.7
160°-170°	212.8	5.5
170°-180°	72.1	1.9
0°-30°	344.9	8.9
0°-40°	579.3	14.9
0°-60°	1063.0	27.4
0°-90°	1373.3	35.4
90°-120°	562.1	14.5
90°-150°	1880.9	48.5
90°-180°	2502.0	64.6
0°-180°	3875.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	424	420	423	421	418	40
15°	413	411	420	423	423	117
25°	390	391	406	415	418	180
35°	353	357	377	390	394	221
45°	302	310	330	343	349	233
55°	237	246	261	275	280	212
65°	165	170	181	189	192	164
75°	87	89	95	100	104	92
85°	16	20	26	34	36	20
90°	1	3	10	14	16	2
95°	28	28	31	35	36	36
105°	155	163	175	186	189	165
115°	305	319	344	362	372	299
125°	436	456	490	515	525	390
135°	548	566	602	628	640	423
145°	638	652	682	702	713	399
155°	704	712	730	745	751	324
165°	744	744	754	760	761	210
175°	761	756	756	752	747	72
180°	752	752	752	752	752	



TEST NUMBER: P395553

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6
2.5°	425.9	424.8	423.8	421.6	421.6	420.6	420.6	420.6	420.6	421.6	422.7
5°	423.8	423.8	422.7	420.6	420.6	419.5	419.5	420.6	419.5	420.6	422.7
7.5°	422.7	422.7	421.6	419.5	419.5	419.5	419.5	419.5	419.5	420.6	422.7
10°	420.6	420.6	418.5	417.4	417.4	417.4	417.4	418.5	418.5	419.5	421.6
12.5°	417.4	416.4	415.3	414.2	414.2	414.2	415.3	416.4	416.4	418.5	420.6
15°	413.2	413.2	412.1	411.1	411.1	411.1	412.1	413.2	414.2	416.4	419.5
17.5°	409.0	409.0	407.9	407.9	407.9	407.9	409.0	410.0	412.1	414.2	417.4
20°	403.7	403.7	402.6	402.6	402.6	403.7	403.7	405.8	407.9	411.1	414.2
22.5°	397.3	397.3	397.3	396.3	397.3	398.4	399.5	401.6	403.7	406.9	411.1
25°	389.9	389.9	389.9	389.9	391.0	391.0	393.1	395.2	397.3	401.6	405.8
27.5°	382.5	382.5	382.5	381.5	383.6	384.7	385.7	388.9	391.0	396.3	400.5
30°	373.0	373.0	373.0	374.1	375.1	376.2	378.3	381.5	383.6	388.9	394.2
32.5°	363.5	363.5	363.5	363.5	366.7	367.8	368.8	372.0	376.2	381.5	386.8
35°	353.0	353.0	353.0	354.0	356.1	357.2	359.3	362.5	366.7	372.0	377.3
37.5°	341.3	342.4	342.4	343.4	345.6	347.7	349.8	353.0	357.2	362.5	367.8
40°	328.7	329.7	329.7	330.8	332.9	335.0	337.1	341.3	345.6	350.8	356.1
42.5°	316.0	317.0	317.0	319.1	321.3	323.4	325.5	329.7	333.9	339.2	343.4
45°	302.2	303.3	303.3	305.4	308.6	309.6	312.8	317.0	321.3	325.5	329.7
47.5°	287.4	288.5	288.5	290.6	293.8	295.9	298.0	302.2	305.4	310.7	314.9
50°	270.5	271.6	272.6	274.8	279.0	281.1	283.2	286.4	290.6	293.8	298.0
52.5°	254.7	254.7	255.7	257.8	261.0	263.1	264.2	267.4	272.6	276.9	281.1
55°	236.7	237.8	238.8	240.9	244.1	246.2	247.3	250.5	253.6	256.8	261.0
57.5°	220.9	220.9	221.9	224.0	227.2	228.3	229.3	231.4	235.7	238.8	242.0
60°	201.8	202.9	204.0	206.1	208.2	210.3	210.3	213.5	216.6	219.8	221.9
62.5°	184.9	184.9	186.0	188.1	189.2	191.3	191.3	194.4	196.6	199.7	201.8
65°	164.9	165.9	167.0	168.0	170.1	170.1	171.2	173.3	175.4	177.5	180.7
67.5°	146.9	146.9	147.9	149.0	150.1	150.1	151.1	153.2	155.3	157.5	159.6
70°	126.8	127.9	127.9	127.9	128.9	130.0	131.0	132.1	134.2	135.3	137.4
72.5°	106.7	106.7	107.8	107.8	108.8	109.9	111.0	112.0	113.1	115.2	116.2
75°	86.7	86.7	87.7	87.7	88.8	88.8	88.8	90.9	91.9	94.1	95.1
77.5°	66.6	67.6	67.6	67.6	68.7	69.7	69.7	70.8	72.9	74.0	75.0
80°	48.6	48.6	48.6	48.6	49.7	50.7	51.8	51.8	53.9	56.0	57.1
82.5°	30.6	30.6	31.7	32.8	32.8	33.8	34.9	35.9	38.0	39.1	40.2
85°	15.9	15.9	16.9	18.0	19.0	20.1	20.1	21.1	23.2	25.4	26.4
87.5°	5.3	6.3	6.3	7.4	8.5	9.5	10.6	11.6	13.7	15.9	16.9
90°	1.1	1.1	1.1	2.1	3.2	3.2	4.2	5.3	6.3	7.4	9.5
92.5°	9.5	9.5	8.5	9.5	9.5	9.5	9.5	10.6	11.6	11.6	13.7
95°	28.5	27.5	27.5	27.5	27.5	27.5	27.5	28.5	29.6	29.6	30.6
97.5°	55.0	55.0	53.9	53.9	55.0	55.0	55.0	56.0	58.1	57.1	59.2
100°	85.6	85.6	84.5	85.6	86.7	87.7	89.8	89.8	91.9	91.9	95.1
102.5°	120.5	120.5	119.4	121.5	122.6	124.7	124.7	126.8	130.0	130.0	134.2
105°	155.3	156.4	156.4	158.5	160.6	162.7	162.7	165.9	170.1	170.1	175.4
107.5°	193.4	194.4	194.4	196.6	198.7	200.8	201.8	206.1	210.3	211.4	217.7
110°	230.4	231.4	232.5	234.6	236.7	239.9	242.0	246.2	251.5	253.6	258.9



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CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	265.2	269.5	270.5	273.7	276.9	280.0	282.2	287.4	293.8	296.9	303.3
115°	305.4	307.5	308.6	311.7	316.0	319.1	321.3	326.5	332.9	337.1	344.5
117.5°	338.2	343.4	344.5	347.7	351.9	355.1	357.2	363.5	370.9	376.2	383.6
120°	373.0	377.3	381.5	383.6	386.8	391.0	393.1	399.5	407.9	413.2	421.6
122.5°	404.7	409.0	413.2	416.4	420.6	422.7	425.9	433.3	441.7	448.1	456.5
125°	436.4	441.7	444.9	448.1	453.3	455.5	458.6	466.0	474.5	481.9	490.3
127.5°	467.1	470.3	475.5	477.7	482.9	485.1	488.2	496.7	505.1	512.5	521.0
130°	495.6	499.8	504.1	505.1	511.5	514.6	517.8	525.2	534.7	542.1	550.6
132.5°	523.1	525.2	530.5	533.7	538.9	542.1	545.3	551.6	561.1	568.5	577.0
135°	548.5	550.6	556.9	560.1	563.3	566.4	570.6	577.0	586.5	593.9	602.4
137.5°	573.8	575.9	582.3	585.4	587.6	590.7	593.9	600.2	609.7	617.1	624.5
140°	597.1	599.2	603.4	607.6	609.7	611.9	615.0	621.4	629.8	637.2	644.6
142.5°	618.2	620.3	624.5	628.8	631.9	631.9	635.1	640.4	649.9	657.3	663.6
145°	638.3	639.3	643.6	647.8	652.0	652.0	653.1	658.4	666.8	675.3	681.6
147.5°	657.3	658.4	661.5	665.8	668.9	670.0	672.1	674.2	682.7	691.1	698.5
150°	674.2	675.3	677.4	681.6	683.7	685.8	687.9	689.0	695.3	702.7	711.2
152.5°	689.0	690.1	692.2	695.3	697.5	699.6	701.7	704.9	708.0	715.4	720.7
155°	703.8	704.9	705.9	709.1	711.2	712.3	713.3	717.5	720.7	724.9	730.2
157.5°	716.5	716.5	717.5	719.7	721.8	721.8	722.8	727.0	730.2	734.4	737.6
160°	727.0	727.0	728.1	730.2	730.2	731.3	732.3	735.5	737.6	742.9	747.1
162.5°	736.6	735.5	736.6	737.6	737.6	737.6	738.7	740.8	744.0	748.2	752.4
165°	744.0	744.0	744.0	745.0	745.0	744.0	744.0	746.1	748.2	751.4	754.5
167.5°	750.3	750.3	749.2	750.3	749.2	749.2	748.2	749.2	750.3	753.5	755.6
170°	755.6	754.5	754.5	754.5	753.5	752.4	752.4	752.4	752.4	754.5	756.6
172.5°	759.8	758.8	757.7	757.7	755.6	754.5	754.5	753.5	753.5	754.5	755.6
175°	760.9	759.8	758.8	758.8	756.6	755.6	754.5	754.5	753.5	754.5	755.6
177.5°	763.0	761.9	759.8	759.8	757.7	755.6	755.6	754.5	753.5	754.5	754.5
180°	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4



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CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6
2.5°	423.8	423.8	422.7	421.6	421.6	420.6	419.5	418.5	417.4	416.4
5°	423.8	422.7	421.6	421.6	420.6	420.6	420.6	419.5	418.5	418.5
7.5°	423.8	423.8	422.7	421.6	421.6	421.6	421.6	421.6	420.6	420.6
10°	423.8	422.7	422.7	422.7	421.6	422.7	422.7	421.6	421.6	420.6
12.5°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	421.6
15°	420.6	421.6	421.6	422.7	422.7	422.7	423.8	423.8	422.7	422.7
17.5°	419.5	420.6	421.6	422.7	422.7	422.7	423.8	423.8	423.8	423.8
20°	417.4	418.5	419.5	420.6	420.6	421.6	421.6	422.7	422.7	422.7
22.5°	413.2	414.2	416.4	417.4	418.5	419.5	420.6	420.6	420.6	420.6
25°	409.0	411.1	412.1	414.2	415.3	416.4	417.4	417.4	417.4	418.5
27.5°	403.7	405.8	409.0	410.0	411.1	412.1	413.2	414.2	414.2	414.2
30°	397.3	400.5	402.6	404.7	405.8	406.9	407.9	407.9	409.0	409.0
32.5°	389.9	393.1	395.2	397.3	398.4	399.5	401.6	401.6	402.6	402.6
35°	380.4	383.6	386.8	388.9	389.9	391.0	393.1	394.2	394.2	394.2
37.5°	370.9	374.1	377.3	380.4	381.5	382.5	384.7	384.7	385.7	385.7
40°	359.3	362.5	365.6	368.8	368.8	370.9	372.0	373.0	374.1	374.1
42.5°	347.7	350.8	353.0	356.1	357.2	358.2	359.3	361.4	361.4	362.5
45°	333.9	337.1	339.2	342.4	343.4	344.5	346.6	347.7	348.7	348.7
47.5°	319.1	321.3	323.4	326.5	328.7	329.7	330.8	331.8	332.9	331.8
50°	302.2	304.3	307.5	310.7	311.7	312.8	314.9	314.9	316.0	316.0
52.5°	284.3	287.4	289.6	292.7	293.8	294.8	296.9	296.9	298.0	298.0
55°	264.2	266.3	268.4	273.7	274.8	275.8	277.9	277.9	279.0	280.0
57.5°	245.2	246.2	249.4	251.5	253.6	253.6	254.7	255.7	256.8	256.8
60°	225.1	226.1	228.3	231.4	231.4	232.5	234.6	234.6	235.7	235.7
62.5°	204.0	206.1	208.2	211.4	210.3	211.4	213.5	213.5	214.5	214.5
65°	182.8	183.9	186.0	188.1	189.2	189.2	190.2	191.3	192.3	192.3
67.5°	160.6	162.7	163.8	167.0	165.9	167.0	168.0	168.0	169.1	169.1
70°	139.5	140.5	142.7	143.7	143.7	144.8	145.8	145.8	145.8	146.9
72.5°	118.4	119.4	120.5	121.5	121.5	122.6	123.6	123.6	124.7	124.7
75°	96.2	98.3	99.3	101.4	100.4	101.4	103.6	103.6	103.6	103.6
77.5°	77.1	78.2	80.3	81.4	81.4	81.4	83.5	82.4	83.5	83.5
80°	58.1	59.2	61.3	62.3	62.3	63.4	64.5	64.5	64.5	65.5
82.5°	41.2	43.3	45.4	46.5	46.5	47.6	48.6	48.6	49.7	49.7
85°	28.5	30.6	32.8	32.8	33.8	34.9	35.9	35.9	35.9	35.9
87.5°	19.0	20.1	21.1	22.2	23.2	23.2	24.3	24.3	25.4	25.4
90°	10.6	11.6	12.7	13.7	13.7	14.8	14.8	15.9	15.9	15.9
92.5°	14.8	14.8	15.9	16.9	16.9	16.9	16.9	18.0	18.0	18.0
95°	31.7	32.8	32.8	34.9	34.9	34.9	35.9	35.9	35.9	35.9
97.5°	61.3	61.3	61.3	63.4	63.4	63.4	64.5	64.5	64.5	65.5
100°	96.2	97.2	97.2	100.4	99.3	101.4	101.4	101.4	101.4	102.5
102.5°	135.3	137.4	138.4	141.6	141.6	141.6	143.7	142.7	143.7	143.7
105°	177.5	179.6	180.7	183.9	186.0	186.0	188.1	187.0	188.1	189.2
107.5°	219.8	223.0	225.1	228.3	230.4	231.4	231.4	232.5	233.5	234.6
110°	263.1	266.3	271.6	274.8	275.8	277.9	279.0	280.0	281.1	283.2



TEST NUMBER: P395553

CATALOG NUMBER: I3-FL-40L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	308.6	311.7	316.0	320.2	319.1	322.3	324.4	325.5	326.5	325.5
115°	349.8	354.0	358.2	362.5	362.5	364.6	368.8	369.9	369.9	372.0
117.5°	388.9	394.2	398.4	402.6	403.7	405.8	409.0	412.1	412.1	414.2
120°	426.9	433.3	437.5	441.7	443.8	444.9	448.1	452.3	452.3	452.3
122.5°	462.9	468.1	473.4	477.7	479.8	481.9	484.0	489.3	489.3	491.4
125°	496.7	503.0	508.3	512.5	514.6	516.8	521.0	524.2	525.2	525.2
127.5°	528.4	534.7	540.0	545.3	546.3	548.5	552.7	556.9	558.0	559.0
130°	558.0	564.3	569.6	574.9	577.0	578.0	583.3	586.5	588.6	589.7
132.5°	584.4	590.7	596.0	601.3	603.4	605.5	608.7	614.0	615.0	615.0
135°	608.7	615.0	620.3	626.7	627.7	629.8	634.1	637.2	639.3	640.4
137.5°	630.9	637.2	643.6	648.8	651.0	652.0	656.2	660.5	662.6	663.6
140°	651.0	657.3	663.6	667.9	668.9	672.1	675.3	679.5	681.6	682.7
142.5°	670.0	675.3	680.6	685.8	686.9	689.0	692.2	696.4	698.5	699.6
145°	686.9	692.2	696.4	700.6	701.7	703.8	707.0	710.1	712.3	713.3
147.5°	702.7	707.0	711.2	714.4	715.4	717.5	719.7	721.8	723.9	724.9
150°	716.5	718.6	722.8	724.9	726.0	728.1	730.2	732.3	734.4	735.5
152.5°	727.0	730.2	732.3	735.5	736.6	737.6	739.7	741.8	744.0	744.0
155°	735.5	738.7	740.8	744.0	745.0	746.1	748.2	749.2	751.4	751.4
157.5°	741.8	745.0	747.1	749.2	750.3	751.4	752.4	754.5	756.6	756.6
160°	749.2	750.3	751.4	753.5	753.5	754.5	755.6	756.6	758.8	758.8
162.5°	755.6	756.6	754.5	755.6	754.5	755.6	756.6	757.7	758.8	758.8
165°	757.7	759.8	758.8	759.8	759.8	759.8	759.8	760.9	760.9	760.9
167.5°	757.7	759.8	758.8	758.8	759.8	759.8	760.9	761.9	761.9	761.9
170°	757.7	758.8	757.7	756.6	757.7	757.7	757.7	758.8	758.8	758.8
172.5°	756.6	757.7	755.6	754.5	754.5	754.5	753.5	753.5	752.4	752.4
175°	755.6	755.6	753.5	752.4	752.4	752.4	750.3	749.2	748.2	747.1
177.5°	754.5	754.5	751.4	750.3	750.3	749.2	749.2	747.1	747.1	746.1
180°	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4	752.4

(END OF REPORT)