

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: STREETWORKS

Report Number: P182350

Luminaire Tested: **LXF-E02-LED-E-U-SYM-BK-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182350
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34329)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF-E02-LED-E-U-SYM-BK-7030
Description: LEXINGTON LED OUTDOOR LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - SYMMETRIC
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4510.6 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.83')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

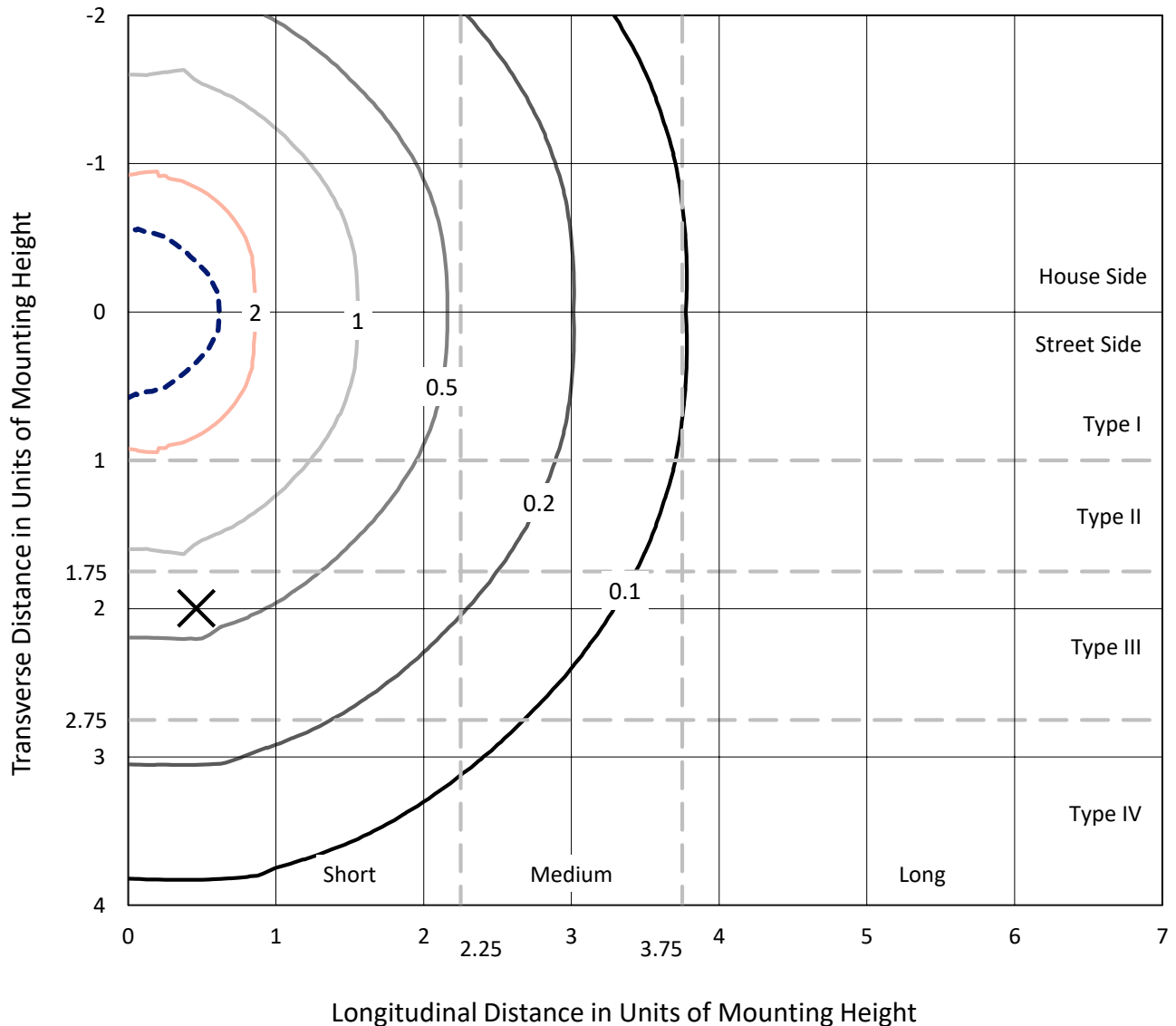
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P182350
 CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7030

Iso-Footcandle Lines of Horizontal Illumination

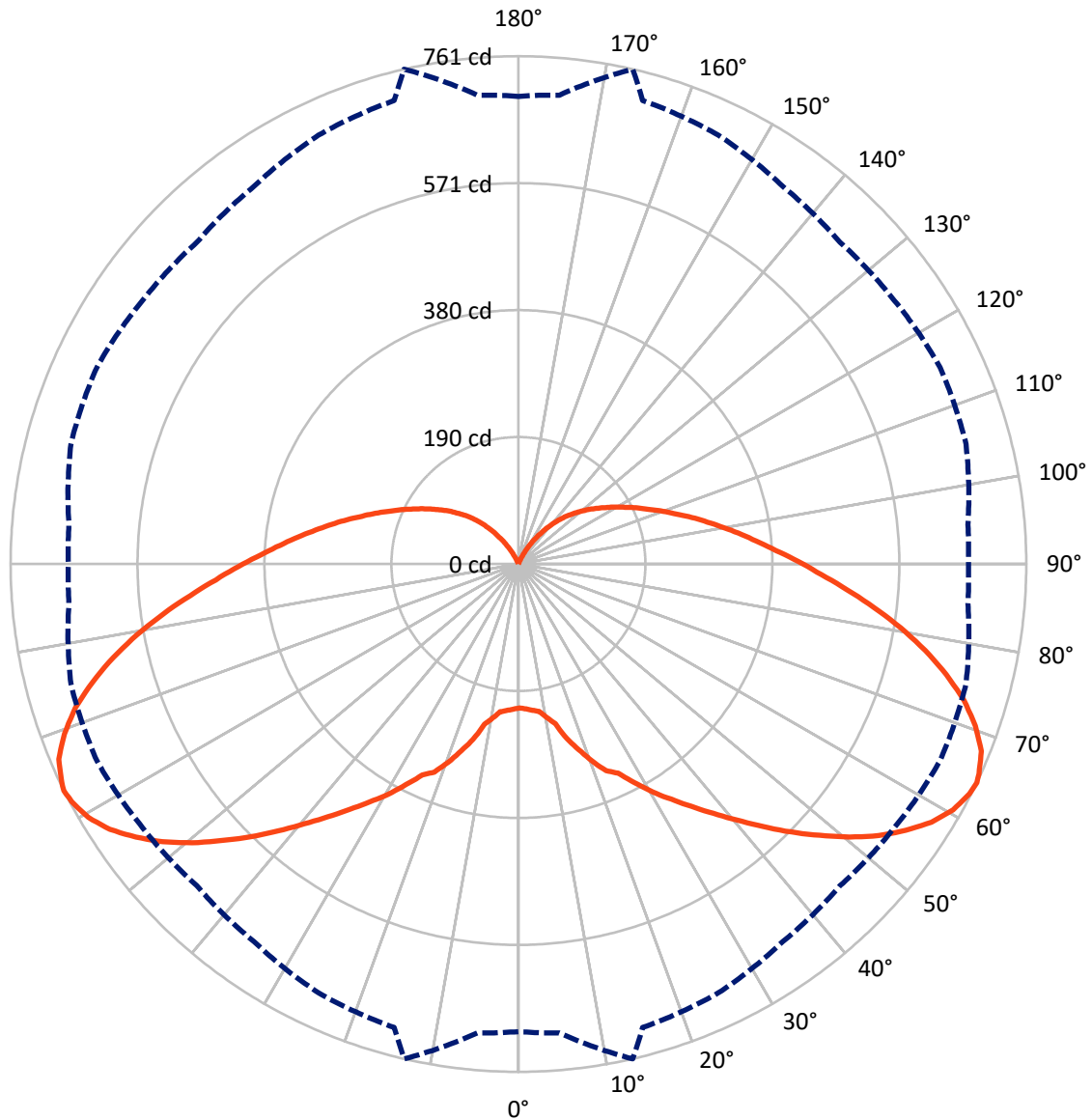
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P182350
CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 13-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P182350

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7030

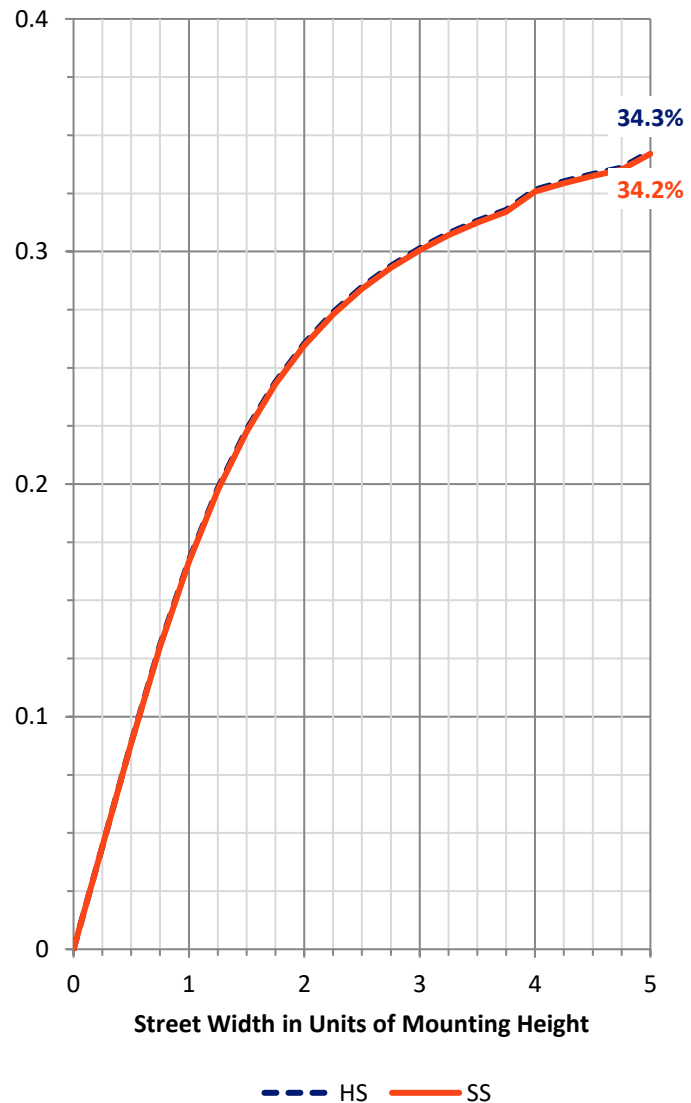
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1697.7	557.6	2255.3
	% Fixture	37.6	12.4	50.0
Street Side	Lumens	1697.7	557.6	2255.3
	% Fixture	37.6	12.4	50.0
Total	Lumens	3395.5	1115.1	4510.6
	% Fixture	75.3	24.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	0.5
10°-20°	74.9	1.7
20°-30°	154.7	3.4
30°-40°	268.4	6.0
40°-50°	415.0	9.2
50°-60°	574.9	12.7
60°-70°	687.1	15.2
70°-80°	665.0	14.7
80°-90°	533.7	11.8
90°-100°	397.5	8.8
100°-110°	290.0	6.4
110°-120°	202.6	4.5
120°-130°	129.2	2.9
130°-140°	68.4	1.5
140°-150°	24.4	0.5
150°-160°	3.1	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3395.5	75.3
0°-180°	4510.6	100.0



REPORT NUMBER: P182350

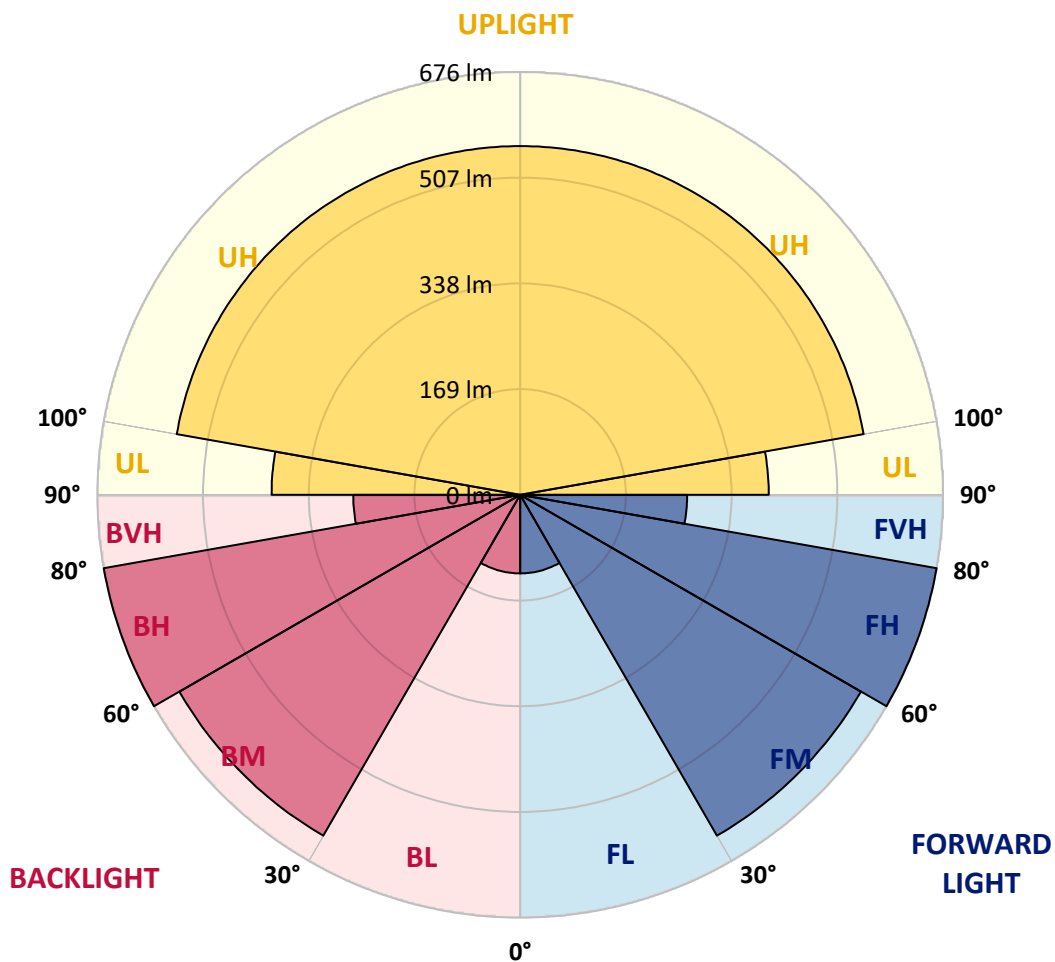
CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.7	2.8			
FM	(30°-60°)	629.2	13.9			
FH	(60°-80°)	676.0	15.0			G1/1800
FVH	(80°-90°)	266.9	5.9			G3/500
BL	(0°-30°)	125.7	2.8	B1/500		
BM	(30°-60°)	629.2	13.9	B1/1000		
BH	(60°-80°)	676.0	15.0	B2/1000		G1/1800
BVH	(80°-90°)	266.9	5.9			G3/500
UL	(90°-100°)	397.5	8.8		U3/500	
UH	(100°-180°)	557.6	12.4		U4/1000	

BUG Rating: B2-U4-G3

Type V Short





REPORT NUMBER: P182350

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	13°	15°	25°	35°	45°	55°	65°	75°	85°
0°	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6
2.5°	215.6	215.6	217.4	215.6	216.5	217.4	216.5	216.5	217.4	217.4	217.4
5°	218.3	217.4	220.1	217.4	219.2	222.9	223.8	228.3	229.3	230.2	227.4
7.5°	220.1	220.1	222.9	219.2	224.7	231.1	232.9	231.1	235.6	239.3	233.8
10°	227.4	226.5	233.8	229.3	231.1	235.6	240.2	244.8	243.0	248.4	242.0
12.5°	236.6	237.5	245.7	239.3	246.6	248.4	247.5	249.3	247.5	251.2	250.3
15°	255.7	254.8	271.3	262.1	261.2	260.3	257.6	254.8	256.7	258.5	256.7
17.5°	273.1	274.0	292.3	280.4	285.9	280.4	268.5	264.9	266.7	269.4	272.2
20°	293.2	292.3	315.1	301.4	307.8	297.8	287.7	281.3	284.1	286.8	288.6
22.5°	311.5	312.4	336.1	318.8	320.6	316.9	308.7	305.1	301.4	303.2	304.1
25°	332.5	332.5	347.1	330.6	334.3	334.3	334.3	328.8	319.7	320.6	322.4
27.5°	355.3	355.3	370.8	353.5	354.4	358.9	358.0	353.5	342.5	340.7	343.4
30°	376.3	376.3	396.4	376.3	380.9	384.5	382.7	377.2	368.1	361.7	362.6
32.5°	398.2	398.2	420.1	399.1	405.5	410.1	409.2	404.6	392.7	381.8	381.8
35°	422.0	422.0	445.7	422.9	432.9	437.5	436.6	431.1	419.2	403.7	404.6
37.5°	448.5	447.5	474.0	449.4	459.4	463.1	462.2	456.7	446.6	428.4	428.4
40°	474.0	474.0	504.2	477.7	487.7	491.4	489.6	484.1	474.0	456.7	452.1
42.5°	502.3	501.4	538.0	507.8	516.0	518.8	515.1	510.6	502.3	485.9	478.6
45°	530.7	530.7	572.7	538.9	546.2	545.3	544.4	538.9	530.7	514.2	504.2
47.5°	561.7	560.8	607.4	569.9	576.3	572.7	569.9	565.4	558.1	542.5	529.7
50°	589.1	589.1	643.0	600.1	603.7	600.1	594.6	590.9	585.5	572.7	557.1
52.5°	619.3	618.3	675.9	629.3	631.1	623.8	616.5	615.6	611.9	600.1	583.6
55°	644.8	644.8	704.2	656.7	655.8	644.8	638.4	637.5	637.5	627.5	610.1
57.5°	667.7	668.6	729.8	681.4	676.8	664.0	655.8	656.7	660.4	653.0	633.9
60°	685.9	687.8	748.0	700.5	694.1	678.6	669.5	673.1	679.5	674.1	654.9
62.5°	697.8	701.5	758.1	714.2	705.1	687.8	678.6	684.1	691.4	688.7	670.4
64°	700.5	705.1	760.8	718.8	708.8	690.5	681.4	687.8	696.9	694.1	675.9
65°	700.5	706.0	758.1	719.7	710.6	690.5	681.4	688.7	698.7	696.0	676.8
67.5°	695.1	701.5	748.0	715.2	706.0	686.8	677.7	685.0	695.1	692.3	674.1
70°	678.6	686.8	726.1	701.5	693.2	675.0	666.7	673.1	683.2	681.4	662.2
72.5°	653.0	662.2	697.8	678.6	673.1	657.6	648.5	654.9	664.0	660.4	640.3
75°	619.3	630.2	662.2	649.4	647.6	633.9	626.6	632.0	637.5	629.3	607.4
77.5°	583.6	595.5	622.9	615.6	616.5	606.5	601.0	602.8	605.6	590.0	567.2
80°	546.2	554.4	580.9	576.3	581.8	575.4	569.9	569.9	566.3	550.8	523.3
82.5°	506.0	514.2	537.0	538.0	548.0	543.4	539.8	536.1	528.8	508.7	479.5
85°	464.0	471.3	494.1	496.9	508.7	509.6	506.9	502.3	491.4	468.5	436.6
87.5°	425.6	432.0	453.9	456.7	473.1	478.6	475.9	472.2	456.7	430.2	399.1
90°	391.8	396.4	419.2	421.1	439.3	448.5	447.5	439.3	423.8	395.5	364.4
92.5°	361.7	363.5	386.3	388.2	408.3	419.2	420.1	411.9	394.6	363.5	335.2
95°	333.4	336.1	358.0	358.0	380.9	393.7	394.6	386.3	366.3	337.0	309.6
97.5°	309.6	310.5	332.5	332.5	355.3	368.1	370.8	361.7	342.5	312.4	285.9
100°	286.8	286.8	307.8	307.8	330.6	345.2	348.0	337.9	317.8	287.7	264.0
102.5°	266.7	265.8	285.9	285.0	308.7	323.3	326.1	316.9	296.8	266.7	244.8
105°	248.4	247.5	264.9	264.0	287.7	303.2	306.9	296.8	274.9	245.7	228.3
107.5°	232.0	231.1	244.8	243.9	268.5	283.1	286.8	276.7	254.8	226.5	211.9



REPORT NUMBER: P182350

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	13°	15°	25°	35°	45°	55°	65°	75°	85°
110°	216.5	214.6	227.4	225.6	249.3	264.0	267.6	257.6	236.6	209.2	199.1
112.5°	201.9	200.9	210.1	207.3	232.0	246.6	249.3	240.2	218.3	192.7	185.4
115°	189.1	188.2	195.5	191.8	212.8	227.4	232.0	221.9	200.0	178.1	173.5
117.5°	176.3	176.3	180.8	177.2	195.5	211.0	213.7	203.7	183.6	164.4	162.6
120°	164.4	163.5	168.1	162.6	178.1	192.7	195.5	185.4	167.1	152.5	152.5
122.5°	152.5	152.5	155.3	149.8	159.8	175.4	178.1	169.0	150.7	140.7	141.6
125°	141.6	140.7	143.4	136.1	142.5	156.2	159.8	151.6	136.1	129.7	131.5
127.5°	129.7	128.8	132.4	124.2	127.0	137.9	141.6	134.3	122.4	119.6	122.4
130°	117.8	116.9	120.6	112.3	110.5	118.7	123.3	116.9	108.7	109.6	113.3
132.5°	105.9	105.0	109.6	100.5	95.9	100.5	104.1	100.5	95.9	98.6	103.2
135°	94.1	94.1	98.6	88.6	82.2	83.1	84.9	84.0	83.1	89.5	93.2
137.5°	83.1	82.2	86.8	77.6	69.4	66.7	67.6	67.6	70.3	78.5	83.1
140°	70.3	70.3	74.0	65.8	56.6	51.1	51.1	52.1	58.5	67.6	72.2
142.5°	58.5	58.5	62.1	53.9	45.7	37.4	36.5	39.3	47.5	55.7	60.3
145°	47.5	46.6	49.3	42.9	34.7	25.6	22.8	27.4	36.5	44.8	49.3
147.5°	35.6	35.6	38.4	32.0	25.6	16.4	13.7	17.4	26.5	33.8	37.4
150°	25.6	24.7	27.4	21.9	16.4	10.0	5.5	10.0	17.4	22.8	26.5
152.5°	16.4	15.5	17.4	13.7	10.0	4.6	1.8	5.5	10.0	14.6	17.4
155°	8.2	8.2	9.1	7.3	4.6	1.8	0.9	1.8	4.6	7.3	9.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P182350

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7030

CANDELA DISTRIBUTION (continued):

	90°
0°	215.6
2.5°	217.4
5°	227.4
7.5°	233.8
10°	237.5
12.5°	249.3
15°	257.6
17.5°	271.3
20°	288.6
22.5°	305.1
25°	322.4
27.5°	343.4
30°	363.5
32.5°	382.7
35°	405.5
37.5°	428.4
40°	453.9
42.5°	476.8
45°	503.3
47.5°	530.7
50°	557.1
52.5°	584.5
55°	611.0
57.5°	634.8
60°	654.0
62.5°	668.6
64°	674.1
65°	674.1
67.5°	668.6
70°	655.8
72.5°	632.0
75°	597.3
77.5°	557.1
80°	512.4
82.5°	471.3
85°	428.4
87.5°	391.8
90°	358.9
92.5°	330.6
95°	306.9
97.5°	284.1
100°	263.0
102.5°	244.8
105°	229.3
107.5°	212.8



REPORT NUMBER: P182350

CATALOG NUMBER: LXF-E02-LED-E-U-SYM-BK-7030

CANDELA DISTRIBUTION (continued):

	90°
110°	199.1
112.5°	185.4
115°	174.4
117.5°	163.5
120°	152.5
122.5°	142.5
125°	132.4
127.5°	123.3
130°	114.2
132.5°	104.1
135°	94.1
137.5°	83.1
140°	72.2
142.5°	60.3
145°	49.3
147.5°	37.4
150°	26.5
152.5°	17.4
155°	9.1
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)