

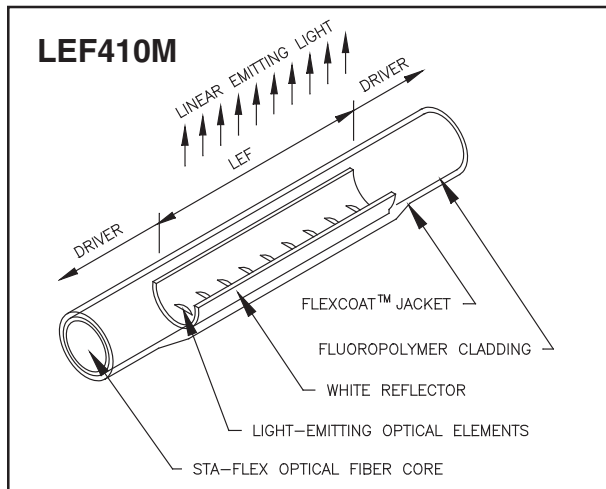
# STA-FLEX® LEF™ 410M LINEAR EMITTING FIBER

Project:

Type:

Catalog Number: **LEF410M**

System Component: **Optical Fiber**



- ◆ Small Covers
- ◆ Indirect Lighting
- ◆ Aquariums
- ◆ Ambient Lighting
- ◆ Small Signs
- ◆ Perimeters
- ◆ Accents
- ◆ Under Countertops/Planters

## SPECIFICATIONS:

Series Number

LEF410M

Core Diameter

.360" (9.1mm)

Outer Diameter

.577" (14.6mm)

Operating Temperature Range

Up to 194° F (90° C)

Recommended Maximum Number of Fibers  
into Illuminator

3 (PH, AR); 1 (LI)

Weight of Optical Fiber (Average per Foot)

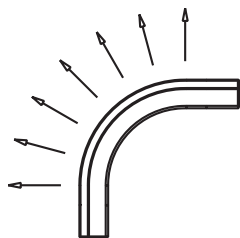
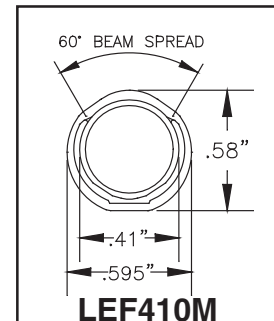
2.68 oz. (100 g.)

Recommended Bend Radius

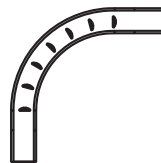
5" (127mm) or larger

LEF410M-WR Dimensions

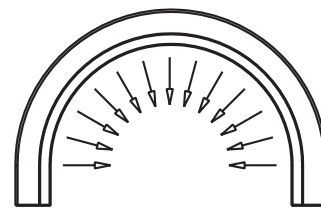
.655" (16.6mm) W x .640" (16.3mm) H



LEF410M: 3.5" Radius (89mm)



3.5" Radius (89mm)



5" Radius (127mm)

**NOTE:** Images are not to scale

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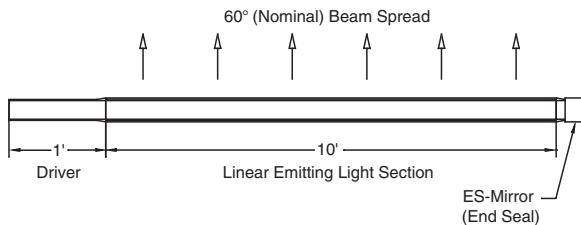
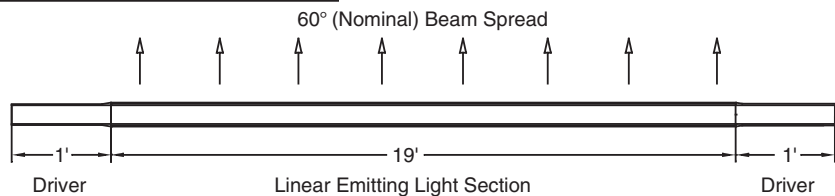
## Ordering Information

<b>SERIES</b>	<b>UNDERWATER</b>	<b>Total Footage</b> (Length in ft.)	<b>DRIVER</b> (Length in ft.) Single and Double ended fibers.	<b>LEF</b> (Length in ft.)	<b>DRIVER</b> (Length in ft.) Double ended fibers only.
LEF410M	-WR	_____ FT	_____ FT	_____ FT	_____ FT

### EXAMPLE - Double Ended Driver:

**LEF410M - WR - 21'(1'DR+19' LEF+1'DR)**

SERIES	DRIVER
UNDERWATER	LEF
TOTAL FOOTAGE	DRIVER



### EXAMPLE - Single Ended Driver:

**LEF410M-11'(1'DR+10' LEF)**

SERIES	LEF
TOTAL FOOTAGE	DRIVER

## Recommended Distances for Effective LEF410M Brightness

- The effective light-length-output of LEF410M fiber optic is subjective and based upon several variables such as:
  - Intensity of light source
  - Quantity of fibers in illuminator
  - Attenuation of light
  - Background color contrast
  - Viewing angle
  - Color of light
  - Ambient light level
  - Length of run
  - Number of splices
- Shorter runs, up to 10' (3m) from one light source or up to 20' (6m) with a light source attached, are recommended.

## Driver

- The LEF Series of optical fibers is "driver dependent" and is supplied with a minimum 1' (30.5cm) length of driver. Driver can be field cut and spliced as required. Driver lengths of up to 10' (3m) have minimum impact on photometric performance on a straight run. LIC recommends 5" (127mm) or greater radius turns in the driver. A second driver is required when fiber is lit from both ends.

## Mounting

- Use WUC or CUC504CC-7 for both exterior and interior applications or OPCL-5 for interior applications. Bond LEF into track with LIC-RTV.
- Use WUC or CUC504CC-7 for LEF410M-WR. Use LIC-RTV in track base to avoid air pockets.
- Tracks may be cut into "clips" for curved areas. Bond fiber per above.

## Environment

- Optical fiber core must be protected in wet or sunlit areas. Use end seals where applicable.
- Protect core and cladding from dirt and abrasions.
- Install fiber at temperatures of 10° C (50° F) or higher.
- Prior to installation, unbox optical fiber and lay fiber straight for several hours.
- For underwater use, add -WR jacket.