

# FORMFOCUS

## FFL/FFR - LED Lay-In and Retrofit Kit

The FormFocus product line from LumenFocus combines the best in LED efficiency and modern style. The FFR retrofit kit converts a 1x4, 2x2, 2x4 or 1x8 troffer into a highly efficient LED unit with a contemporary look. The FFR is engineered for ease of use in the field - taking only 3-5 minutes to install. For new applications, the FFL is a full luminaire designed to match the FFR in appearance. Both the FFL and FFR are available in a wide variety of lumen outputs for maximum versatility.

**10 YEAR**  
EXTENDED  
WARRANTY  
AVAILABLE ON  
CERTAIN MODELS



The LED boards in the FFL and FFR are fully upgradeable and replaceable through Re-boardABILITY, ensuring you always have a way to secure the most efficient boards. Every FormFocus product is made in the USA - in our Henderson, NC facility, utilizing mostly domestic and some foreign components.

EFFICACY UP TO  
**148**  
LUMENS PER WATT

INSTALLATION  
**3-5 MINUTES**  
FOR RETROFIT

PREDICTED L70 LIFETIME  
**UP TO 189,000**  
HOURS (CALCULATED)

**Voltages available:** 120-277V, 347V

**Size options:** 2x2, 2x4, 1x4, 1x8 (FFR only)

**Certifications:** UL 1598 listed for US and Canada, suitable for damp locations. DesignLights Consortium qualified, and DLC Premium qualified on specific configurations.

**Warranty:** 5 year limited system warranty. 10-year extended warranty available on specific products.

**Available CCTs:** 3000K 3500K 4000K 5000K

**CRI:** 80

**Options:** Step-dimming, emergency packs, surface-mounting kits. Occupancy/daylight sensing with Philips EasySense sensor (available with basic or advance grouping), and more.



FFL/FFR

2x4

**Lumen output packages:**

Super Low, Very Low, Low, Medium-Low, Medium, High, Very High, Super High

**\*Output range:** ~3,000-9,500 lumens

**Replaces:**

2-lamp F34 T12  
2-lamp F32 T8 with normal ballast factor  
3-lamp F34 T12  
3-lamp F32 T8 with normal ballast factor  
4-lamp F34 T12  
4-lamp F32 T8 with normal ballast factor  
5-lamp F32 T8 with normal ballast factor

FFL/FFR

2x2

**Lumen output packages:**

Super Low, Very Low, Low, Medium, High

**\*Output range:** ~2,000-6,000 lumens

**Replaces:**

2-lamp F17 T8 with normal ballast factor  
2-lamp FB32 T8 with high ballast factor  
3-lamp F17 T8 with normal ballast factor  
3-lamp F32 T8 with normal ballast factor  
4-lamp F17 T8 with normal ballast factor

FFL/FFR

1x4

**Lumen output packages:**

Super Low, Very Low, Low, Medium, High

**\*Output range:** ~2,000-6,500 lumens

**Replaces:**

1-lamp F32 T8 with high ballast factor  
2-lamp F32 T8 with low ballast factor  
2-lamp F32 T8 with normal ballast factor  
3-lamp F32 T8 with low ballast factor  
3-lamp F32 T8 with normal ballast factor

FFR

1x8

**Lumen output packages:**

Super Low, Very Low, Low, Medium

**\*Output range:** ~4,500-10,000 lumens

**Replaces:**

2-lamp F32 T8 with high ballast factor  
4-lamp F32 T8 with low ballast factor  
4-lamp F32 T8 with normal ballast factor  
6-lamp F32 T8 with low ballast factor



\*LED lumen packages, efficacy data and lumen output is constantly evolving. Visit [www.lumenfocus.com/ffr](http://www.lumenfocus.com/ffr) or [www.lumenfocus.com/ffl](http://www.lumenfocus.com/ffl) for most up-to-date information, spec sheets and photometry files.