

# envirobrite

ENERGY PLANNING ASSOCIATES

## RTR TROFFER REFLECTOR KIT

2x2 Troffer Fixture Retrofit Kit

envirobrite  
greenSEAL

### Description

Envirobrite's® RTR Troffer Reflector kits dramatically enhance existing fixture efficiencies creating substantial energy savings with excellent return on investment. All Envirobrite® kits have four different specialized material options which offer various light distributions with minimal up-front investments. These kits, in conjunction with numerous ballast and lamp configurations, can easily produce ideal IES recommended light levels with minimized energy consumption. Envirobrite® kits will continue to provide consistent fixture performance and repeat annual energy savings for up to 25 years.

### Application

Since 1994, millions of 2x2 lensed troffers and 9 cell parabolic louvers have been successfully de-lamped with Envirobrite® troffer kits. These kits are recognized worldwide as the industry leading retrofit kit for the majority of all commercial 2x2 fixtures. Its ideal optics, universal fit configuration and flexible stamped bracketing system allows proper fit in office spaces, classrooms, hospitals, and many other commercial locations.

### Design

Envirobrite® kits are designed by our expert in house lighting engineers for ideal photometry and trouble-free installation. Every Envirobrite kit is designed to meet UL 1570 specifications for safety. Integral to ideal kit functionality is the combination of our bracketing system which centers the lamps specifically to the optics of the reflector design. Envirobrite® reflectors are fabricated with Energy Planning Associates custom-made multi-stage progressive roll forming machinery. Our unique high speed equipment consistently produces multi-faceted linear fluorescent reflectors within precise quality tolerance. Our process enables us to add additional facets for superior reflector performance significantly reducing production cost and improving lead times. Our rigid, light weight bracketing systems are produced with custom designed stamping dies and are very easy to install. As with all Envirobrite® products Cost-A-Mized solutions are available to meet every customer's needs.

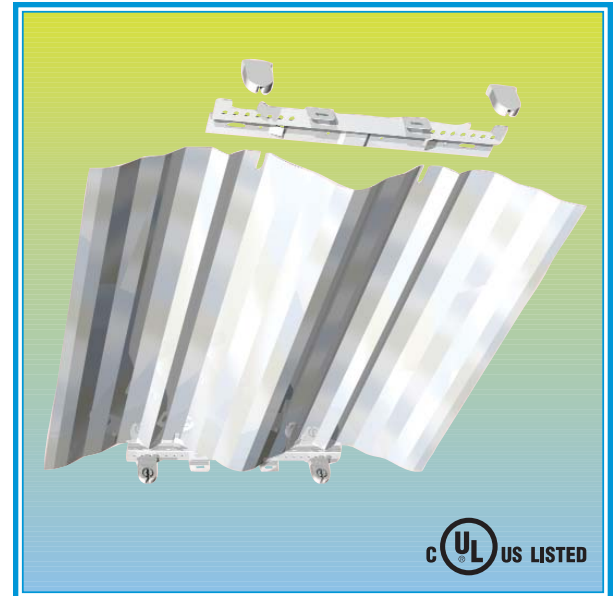
### Primary Features & Benefits

- Proudly Designed, Made and Assembled in the USA
- Qualifies for maximum \$.60 square foot EPACK tax deduction
- Significant reduction in maintenance costs
- Reinforced multi function universal bracketing system
- Aluminum components generate a rust-free approach to less maintenance and lasting appeal
- Utility rebate friendly throughout the U.S.
- 25 facet optical design for maximum performance
- Superior lighting directly to the work plane
- Flexibility for tandem wiring applications

### Quick, Safe and Labor Efficient Installation

- Variable tek screw slot locations for multiple mounting options
- Unique bracket design UL approved for no wire guard requirement
- Lance and form bracket design for easy pinch in reflector installation
- Snap-in lamp holders won't fall out during overhead installation
- Streamlined packaging for easy job site material management
- With 1/3 the weight of steel aluminum components permit reduced shipping cost and simpler installation
- 25 facet reflectors for added rigidity and a sturdy fit
- Less than 2" reflector depth to fit shallow fixtures
- Toolless ballast access for simple maintenance
- Rounded-edged brackets to avoid injury during installation
- Slots, instead of holes are provided for easy alignment and centering

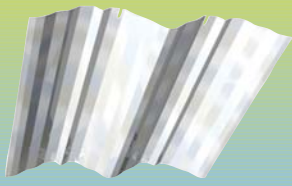
For added efficiency include high quality T5 or T8 lamps with either instant or programmed start ballasts. Adding an Envirobrite® approved motion sensor system to your retrofit project will further enhance energy savings and create an even faster payback.



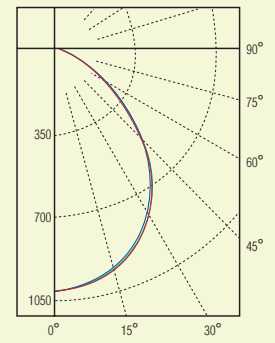
riteFIT



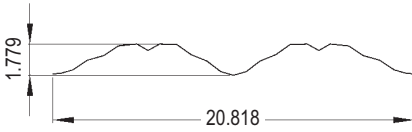
## 2200 Series Reflector



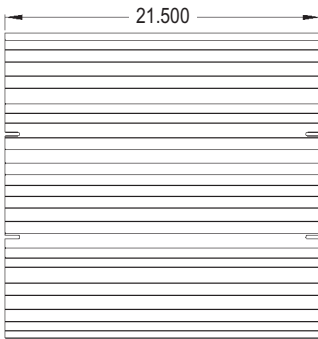
## 2000 Series Bracket



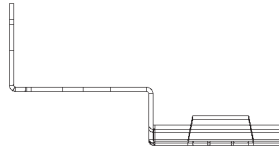
Side View



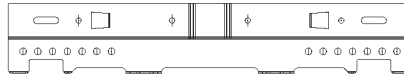
Top View



Side View



Top View



0° — Candela Plot  
45° — 2 Lamp T8  
90° —

## Zonal Lumen Summary

Zone	Lumens	% Lamp	Fixture
0-30	759	27.1	35.7
0-40	1195	42.7	56.2
0-60	1850	66.1	87.1
0-90	2125	75.9	100.0

**RTR2202T817ENLSS used for test**  
Total Luminaire Optical Efficiency = **75.9%**

Luminaire Spacing Criterion

0 deg - **1.2**                      90 deg - **1.1**

Call factory for full photometric report

## 2x2 Kit includes

- (1 qty) 2200 series aluminum reflector made from your choice of specified material (95% Enhanced Miro4, 93% Micro Matte, 91% White-painted or 87% Anodized Aluminum)
- (2 qty) 2000 series white-painted stamped aluminum brackets
- (4, 6 or 8 qty) specified shunted or unshunted high quality chemical resistant thermoplastic body UL approved lamp holders
- (5 qty) tek screws



## Ordering Information

Sample number: **RTR2202T817ENLSS**

TYPE	DIMENSION	LAMPS	LAMP TYPE	REFLECTOR
○ RTR=Troffer Reflector Kit	○ 22=2x2	○ 02=2 Lamp	○ T817=17W	○ EN=95% MIRO 4 Enhanced
		○ 03=3 Lamp		○ MN=93% Micro Matte
		○ 04=4 Lamp		○ WN=91% White Aluminum
				○ AN=87% Anodized Aluminum

LAMPHOLDER TYPE	INSERTION METHOD	KIT PACK
○ LS= Shunted	○ S=T8 Short Twist Lock (Standard)	○ PK10=Bundled Pack of 10 Kits
○ LU= Unshunted	○ N=T8 Short Snap In Twist Lock	○ PK40=Bundled Pack of 40 Kits
	○ P=T5 Plunger Socket	