

envirobrite

ENERGY PLANNING ASSOCIATES

RTR TROFFER REFLECTOR KIT

1x4 Troffer Fixture Retrofit Kit

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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, thousands of 1x4 lensed troffers and 8-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 1x4 fixtures. It's ideal optics and flexible bracketing systems utilizing our Cost-A-Mized program will allow 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. As with other Envirobrite® bracketing systems we have designed a variety of bracketing solutions for ease of installation and proper fit for the wide variety of 1 x 4 troffer applications. These fixture types offer a unique retrofit challenge compared to 2 x 4 and 2 x 2 troffers and a universal fit approach is not typical. From our extensive retrofit experience we suggest approaching each retrofit with our Cost-a-Mized approach and test installations.

** Envirobrite's® Cost-A-Mized program is an ideal solution that allows our product to be modified from our standard line and ensure an ideal fit.*

Primary Features & Benefits

- Proudly Designed, Made and Assembled in the USA
- Qualifies for EPACT tax deduction
- Significant reduction in maintenance costs
- Aluminum components generate a rust-free approach to less maintenance and lasting appeal
- Utility rebate friendly throughout the U.S.
- Multi-facet optical design for maximum performance
- Superior lighting directly to the work plane
- Flexibility for tandem wiring applications

Quick, Safe and Labor Efficient Installation

- Multi-facet reflectors for added rigidity and a sturdy fit
- Snap-in lamp holders won't fall out during overhead installation
- Streamlined packaging for easy job site material management
- Easy access quarter turn reflector installation
- Toolless ballast access for simple maintenance
- With 1/3 the weight of steel aluminum components permit

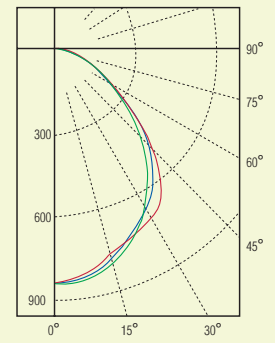
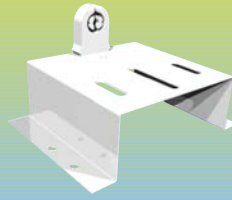
For added efficiency include high quality T5 or T8 lamps with either instant or programmed start ballasts. Adding an Envirobrite® approved motion sensor system to your retrofit project will further enhance energy savings and create an even faster payback.



1000 Series Reflector

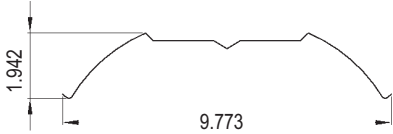


1000T Series Bracket



0° — Candela Plot
45° — 1 Lamp T8
60° —
75° —
90° —

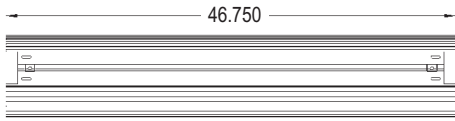
Side View



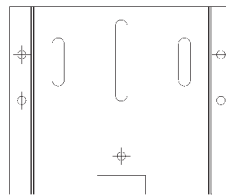
Front View



Top View



Top View



Zonal Lumen Summary

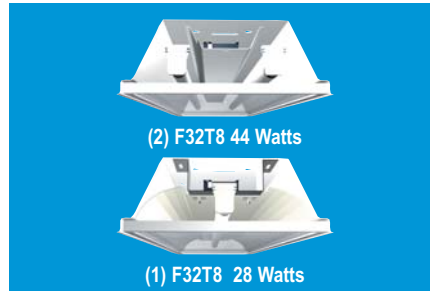
Zone	Lumens	% Lamp	Fixture
0-30	759	27.1	35.7
0-40	11952	42.7	56.2
0-60	1850	66.1	87.1
0-90	2125	75.9	100.0

1x4 Kit includes

- (1) 1400T series aluminum reflector made from your choice of specified material (95% Enhanced Miro4, 93% Micro Matte, 91% White-painted or 87% Anodized Aluminum)
- (2) 1000T series white-painted stamped aluminum brackets
- (2, 4 or 6) specified shunted or unshunted high quality chemical resistant thermoplastic body UL approved lamp holders
- (2) Quarter turns
- (5) tek screws

RTR1401T832LSS used for test
Total Luminaire Optical Efficiency = **64.9%**

Luminaire Spacing Criterion
0 deg - **1.2** 90 deg - **1.3**
Call factory for full photometric report



“SAVINGS”

51% Energy Savings

53% Energy Savings

Ordering Information

Sample number: **RTR1402T832ENLSS**

TYPE	DIMENSION	LAMPS	LAMP TYPE	REFLECTOR
<input type="radio"/> RTR=Troffer Reflector Kit (1000 series)	<input type="radio"/> 14=1x4	<input type="radio"/> 01=1 Lamp	<input type="radio"/> T832=32W	<input type="radio"/> EN=95% MIRO 4 Enhanced
		<input type="radio"/> 02=2 Lamp	<input type="radio"/> T554=54W	<input type="radio"/> MN=93% Micro Matte
		<input type="radio"/> 03=3 Lamp		<input type="radio"/> WN=91% White Aluminum
				<input type="radio"/> AN=87% Anodized Aluminum

LAMPHOLDER TYPE	INSERTION METHOD
<input type="radio"/> LS= Shunted	<input type="radio"/> OS=T8 Short Twist Lock (Standard)
<input type="radio"/> LU= Unshunted	<input type="radio"/> ON=T8 Short Snap In Twist Lock
	<input type="radio"/> OP=T5 Plunger Socket