

## TR SERIES

### Troffer Retrofit Kit

The TR troffer retrofit kit is designed to offer the end user a cost effective way to increase the efficiency and lumen output of existing troffer fixtures.

Applications include warehouse, general lighting, classrooms, gymnasiums and retail applications.

TR retrofit kits are available with a variety of lamp and reflector combinations allowing the customer to design the TR system to meet or exceed existing light levels and customize the “look” to match their specific needs. Philips Optimum recommends the coupling of the Enhanced Specular reflector with high lumen T8 lamps as a way to maximize lumen output and fixture efficiency.

The TR troffer retrofit is designed for easy installation in existing troffer fixtures.

#### **Product Construction**

The TR fixture's socket bars are made from pre-painted heavy gauge cold rolled steel. They are designed to fit most standard troffer fixtures.

#### **Optical Reflector**

The system is precision brake formed of the selected aluminum material. The one piece reflector is removable without the use of tools and is designed to simply snap into place.

#### **Lampholders**

Made of a Polycarbonate material; these locking-style lampholders are utilized to ensure positive lamp retention. Additionally, the material contributes to a longer life product in high temperature applications.

#### **Optional Lens**

The TR Retrofit kit is available with optional lenses as a way for the end user to increase the efficiency or improve the look of existing troffer fixtures. See ordering information.

#### **Ballasts**

All ballasts are electronic programmed-start (T5HO) or instant-start (T8) as a standard. Optional ballasts are available, consult factory for available systems and system specifications. Available voltages: 120v, 277v, 347v, voltage sensing 120-277v and 347-480v.

#### **Listings**

All fixtures are UL and CUL listed.

Please specify when ordering

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## Fixture ordering guide

Fixture Series*1	Lens*2	Size (FT)	# of Lamps	Lamp Type	Voltage	# Ballasts	Ballast Type	Reflector	Options	Lamp Color	Lamp Options*4
TR	BLANK	14	1	17	BLANK	BLANK	NB*3	E	E ( )	BLANK	HP
	D12	22	2	24	12	1	HI	W	F	830	A
	D125	24	3	U31	27	2	LI	B	SDT	835	TG*5
	D23		4	32	34		SI		US*3	841	SS*5
	DL1			U32	UV		SI+		NS	850	ES ( )
	DL2			36	HV		PS				XL
	CAL1			40			PSL				
				50			PSH				
				54			PD				
				55			SDH				
							AX				

\*1 1x4 fixture available with up to 2 - 32/54w lamps; 2x2 fixture available with up to 4 - 17/24w/U31w/36/40/50/55w or 2 - U32w; 2x4 fixture available with up to 4 - 32/36/40/50/54/55w lamps (consult factory for custom configurations).

\*2 When ordering the lens option, accurate lens dimensions must be provided.

\*3 TR ordered with No Ballast will be shipped with Shunted Sockets, unless Unshunted Sockets are specified.

\*4 Consult factory for manufacturing specific ordering codes/availability.

\*5 Use in lensed fixtures is limited. Contact factory for specific application details.

### Available fixture selections

Lens Selections	Lamp Type Selections	Ballast Selections	Options Selections	Lamp Color Selections
BLANK No Lens Included D12 Standard Prismatic D125 0.125" Prismatic D23 23 Pattern High Dispersion, High Efficiency  DL1 0.118" Clear Lexan DL2 0.220" Clear Lexan CAL1 0.118" Clear Acrylic	17 F17T8 System 24 F24T5HO System U31 FU31T8 System 32 F32T8 System U32 FU32T8 System 36 FT36W/2G11 System 40 FT40W/2G11 System 50 FT50W/2G11 System 54 F54T5HO System 55 FT55W/2G11 System  <b>Voltage Selections</b> BLANK No Ballast 12 120V 27 277V 34 347V UV 120-277V HV 347-480V	NB Ballast Not Included HI High Ballast Factor (HBF) Electronic*  LI Low Ballast Factor (LBF) Electronic*  SI Standard Ballast Factor (NBF) Electronic** SI+ 1.0BF Electronic* PS Programmed Start (NBF)  PSL Programmed Start LBF* PSH Programmed Start HBF***  PD Programmed Start Dimming SDH Step Dimming HBF (100% to 60% Dimming)* AX Daylight Harvesting Ballast with Remote Mount Photosensor*   * T8 Only ** T8 & 40w Biax Only *** T8, 36, 40 & 50w Biax Only	E( ) Emergency Pack (# Lumens) F Inline Fuse SDT Step Down Transformer (480V to 277V) US Unshunted Sockets NS No Sockets  <b>Reflector Selections</b> E Enhanced Aluminum W Highly Reflective White Aluminum B 95% Reflective Extreme White Aluminum	BLANK Lamps Not Included 830 80+ CRI, 3000K 835 80+ CRI, 3500K 841 80+ CRI, 4100K 850 80+ CRI, 5000K  <b>Lamp Options Selections</b> HP High Performance, Long Life Lamps* A Amalgam Tip Lamps** TG Tubeguarded Lamps SS Shattershielded Lamps ES( ) Energy Saver (Specify Wattage)*** XL Long Life*   * T8 Only ** 54w, T5HO Only *** 32, U32, 40, 54w Only

## Common fixture selections

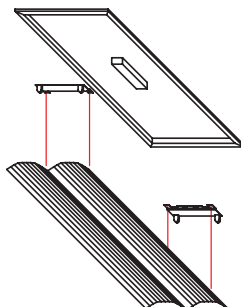
Catalog number	System	# of lamps	Wattage (120/277V)*	Initial system lumens*	Mean system lumens*
TR D12 22 117 UV I LI E	T8	1	14w / 14w	1,185	1,146
TR D23 24 232 UV I HI W	T8	2	74w / 73w	7,130	6,900
TR 24 254 UV IPS B	T5HO	2	116w / 115w	10,000	9,500
TR D11 24 432 UV I HI E	T8	4	148w / 145w	14,632	14,160

\*Wattages may vary depending on the ballast manufacturer and lamp type used.

Initial and mean system lumens are the initial/mean lumen output of the lamp/ballast system as rated by lamp and ballast manufacturer and may vary from manufacturer to manufacturer.

Specifications and dimensions subject to change without notice. Contact Philips Optimum for current availability and ordering information.

## Dimensional drawing



Fixture Type:

**Catalog #:** \_\_\_\_\_ **Quantity:** \_\_\_\_\_

Project: \_\_\_\_\_