

# Introducing TriLyte

## The New T5/T8 Solution for Lowbay/Highbay Applications

### A lighting package offering new applications

TriLyte brings fast-payback lighting solutions for a wide range of highbay (25' to 45') and lowbay (under 25') facilities. Given its choice of lamps, wattages, reflectors and lenses, TriLyte provides application versatility like no other luminaire in its category. In addition, TriLyte's good looks make it an appropriate choice for a wide variety of non-industrial applications, including retail stores, indoor sports facilities and other spaces requiring visually appealing surroundings. Widespread use of T5/T8 lamps in other areas (e.g. office, reception, etc.) also ensures easy lamp replacement and fewer inventories.



### Lightweight construction designed for cooler operation

The TriLyte housing features lateral slits, providing a textured look and added venting for cooler operation. This translates into longer lasting ballasts and optimal lamp performance.



### TriLyte's shallow depth and high performance sets it apart

A total depth of only 2-3/4" frees up space around the luminaire. Because of its low profile, TriLyte installs closer to the ceiling. In warehouses, this creates fewer incidents due to material handling equipment and lets you pile merchandise higher. In stores, it produces an aesthetically pleasing streamlined look for the shopper. TriLyte's shallow and robust design is also ideal for gymnasiums and racquetball courts, as its low surface area does not interfere with the deflection of balls in play. In addition, TriLyte's design is sensor-friendly. While most models require bracket accessories to offset the sensor from the housing and ensure an unobstructed view, TriLyte requires no bracket assembly.

Only 2-3/4"



### Motion-sensor compatibility

Lighting control in highbay applications has never been so easy until the advent of fluorescent highbay systems such as TriLyte. By supplying light immediately (no lamp warm-up time required), TriLyte provides opportunities for better power consumption management through optional dimming and motion sensing. TriLyte lets you choose between a luminaire-mounted and a remote-mounted motion sensor. See pages 8 and 9 for details.

### TriLyte Benefits

#### UNIQUE LIGHTING PERFORMANCE

- Cost-Effective Fluorescent Lamping
- Low-Shadow Optic Design

#### INSTALLATION-FRIENDLY DESIGN

- Easy-Access Ballast
- Fast & Easy Mounting

#### ENERGY SAVINGS ADVANTAGE

- Superior Energy Efficiency
- Added Savings with Lighting Controls

# TriLyte

## UNIQUE LIGHTING PERFORMANCE

### Cost-Effective Fluorescent Lamping

TriLyte is available with 28W T5, 54W T5HO or 32W T8 fluorescent lamps known for their energy efficiency (see opposite page) and exceptional lighting performance, including instant light, high CRIs and colour consistency.

### Instant Light: TriLyte features no restrike/warmup delays.

Instant-on T5/T8 TriLyte is well-adapted to speedy warehouse material placement and retrieval. Also, TriLyte fluorescent lighting is compatible with energy-saving controls, thereby creating new opportunities for occupancy sensing and full-intensity dimming.

### High CRI: TriLyte's punch of white light ideal for making merchandise stand out.

TriLyte T5/T8 fluorescent lighting features high colour rendering indices that yield true, vivid colours ideally suited to retail applications.

### Excellent Colour Consistency Throughout Life of Lamp

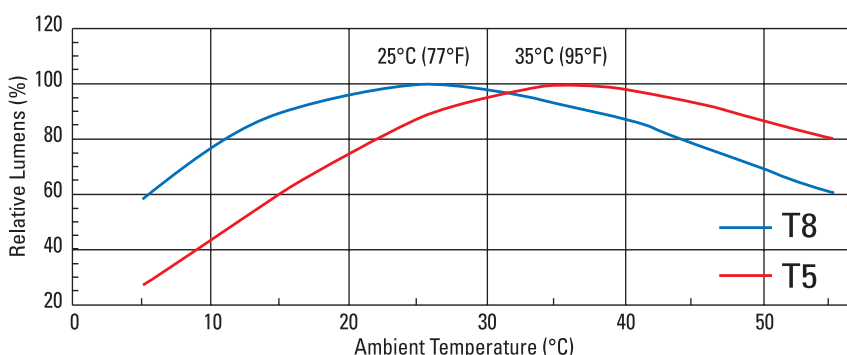
Available in a broad range of colours (3000-6500°K), T5/T8 fluorescent lamps maintain their colour temperature, which ensures colour rendering consistency in retail stores.

### T5 vs. T8 — General Characteristics

	T8 at 25°C	T5 at 35°C	T5HO at 35°C
Watts	32	28	54
Initial Lumens	2950	2900	5000
Lumens per Watt	92.2	103.6	92.6
Lumen Maintenance	90%	97%	95%
CRI	86	84	84

Fluorescent lamps provide excellent lumen maintenance ratings and outstanding lighting efficiency (lumens per watt). They provide a service life ranging from 20,000 to 30,000 hours. Consult technical data by lamp manufacturers for more information.

### T5 vs. T8 — Light Output and Ambient Temperature



Both T8 and T5 lamps are effective at room temperature, with T5 lamping more ideally suited to warmer environments, such as gymnasiums and warehouses without climate control.



### Low-Shadow Optic Design TriLyte makes the most of linear fluorescent lamps.

With the right optic design, linear fluorescent tubes produce more vertical light due to the reflector's symmetric design. TriLyte luminaires use advanced optics to emit more vertical light, thus diminishing the casting of shadows. There are also issues of safety and continued efficiency. When a lamp burns out on a 6-lamp TriLyte, the luminaire still supplies light.

# TriLyte

## INSTALLATION-FRIENDLY DESIGN



# TriLyte

## ENERGY-SAVINGS ADVANTAGE

### Superior Energy Efficiency

TriLyte is engineered to provide maximum energy savings. Results will vary depending on usage and utility costs (see chart below). When upgrading, TriLyte's payback period is generally less than 2 years. Ask your Canlyte representative to calculate energy savings estimates for your specific application.

#### TriLyte Energy Costs

Luminaire	Type of lamp	Qty of lamps	Initial Lumens	Watts per luminaire	Lumens per Watt	Usage (hrs/year)	Annual energy costs per luminaire (at \$0.08/kWh)
TriLyte Narrow-Body	54W T5HO	4	20,000	239	83.7	2,000	\$38.24
	32W T8	4	11,800	128	92.2	2,000	\$20.48
TriLyte Wide-Body	54W T5HO	6	30,000	360	83.3	2,000	\$57.60
	32W T8	6	17,700	170	104.1	2,000	\$27.20

### Added Savings with Lighting Controls

Motion-sensor compatibility allows TriLyte to deliver optimal energy savings, typically over 15% (see chart below). For technical details and ordering information, see pages 8 and 9.

#### Potential Added Savings with Optional Motion Sensor

Luminaire	Qty of lamps wired to sensor	Wattage of lamps wired to sensor	Sensor-OFF time (2h/day)*	Annual energy savings per luminaire (at \$0.08/kWh)	Motion sensor savings achieved with this TriLyte scenario
TriLyte Wide-Body 6-54W T5HO	4	239	500	\$9.56	16.6%
TriLyte Wide-Body 6-32W T5HO	4	128	500	\$5.12	18.8%

\* Based on 8 hours of operation time per day, 250 days/year, or 2,000 hours of operation time annually.

## TriLyte

Narrow-Body 2-, 3-, 4-Lamp Lowbay Surface/Pendant Luminaire



Designed for Trade (commercial spaces), Recreational and Industrial locations, TriLyte provides much needed versatility in lowbay applications. Using the appropriate lamp, wattage and reflector options, this narrow-body version is also suitable for highbay lighting, particularly retail outlets and indoor sports facilities. Its low-profile housing (almost 1" shallower than most competing models) is perfect for areas that place a premium on luminaire appearance. Dual-circuit TriLyte equipped with optional motion sensor delivers added lighting control flexibility for industrial applications (see page 8).

### Features

- Sturdy one-piece post-painted housing providing clean, smooth, installation-friendly corners.
- Side-mounted ballast for low 2-3/4" profile.
- Mounting heights from 12' to 45' with suitable lamping-reflector-lens selection.
- 2-, 3- and 4-lamp versions (cross-section view).
- Available in 4' and 8' lengths.
- Choice of contoured specular, flat specular or flat white reflector.
- Contoured specular reflector offers optimum performance and 95% reflectivity (not available on 2-lamp model).
- Choice of stem, surface or chain mounting.
- Accepts emergency battery packs.
- Available motion sensor allows for total lighting control, added energy savings (see pages 8 and 9).

### Options

page 9

**Ballast** Specify voltage (120, 277, UNV, 347) and add suffix, e.g. 120PU.

**O4** = T8 Elect. One 4-lamp I.S. THD<20%.

**O5** = T8 Elect. One 4-lamp and one 2-lamp I.S. THD<20%.

**O7** = T8 Elect. I.S. One 4-lamp to operate outside lamps.

One 4-lamp to operate inside lamps. THD<20%.

**PI** = T5 Elect. I.S. One 2-lamp. THD<10%.

**PG** = T5/T5HO Elect. P.S. One 2-lamp. THD<10%.

**PU** = T5/T5HO Elect. P.S. One 3-lamp. THD<10%.

**PV** = T5/T5HO Elect. P.S. One 4-lamp. THD<10%.

**P6** = T5/T5HO Elect. P.S. One 4-lamp ballast to operate outside lamps.

One 2-lamp ballast to operate inside lamps. THD<10%.

**P7** = T5/T5HO Elect. P.S. One 3-lamp ballast to operate lamps 1, 3 and 5.

One 3-lamp ballast to operate lamps 2, 4 and 6. THD<10%.

**P8** = T5/T5HO Elect. P.S. One 4-lamp to operate outside lamps.

One 4-lamp to operate inside lamps. THD<10%.

Consult your Canlyte representative for other ballast options.

**Wireguard/Lens** Variety of shielding options available (see photos opposite).

**Internal Fusing** Suffix F.

**Electrical/Wiring Options** Consult your Canlyte representative.

**Stem and Canopy Sets** 4 stems required per luminaire.

Order catalogue number **STKF12** (12"), **STKF18** (18"), **STKF24** (24"), **STKF36** (36"), **STKF48** (48").

**Chain Hanger Kit** 2 kits required per luminaire.

Order catalogue number **EE9HC**.

**Luminaire-Mounted Motion Sensor** 360° coverage. Field installed.

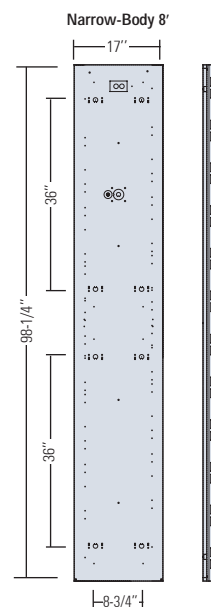
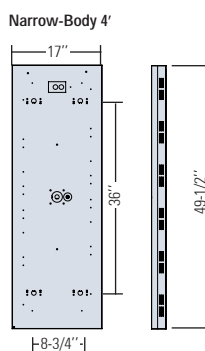
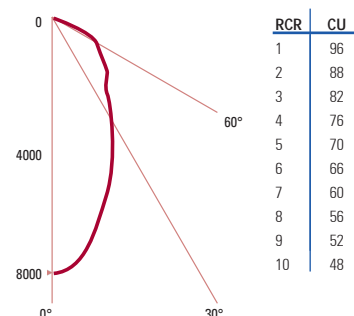
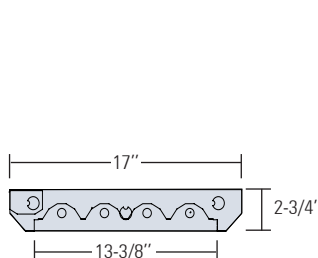
Only available on luminaires with contoured specular reflectors.

Order catalogue number **FH360**.

**Remote-Mounted Motion Sensor** Narrow coverage. Field installed.

Order catalogue number **FH110**.

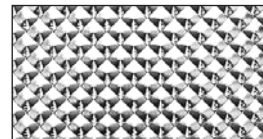
FH4C4DXX454120CV (Data)



**WW:** White hinged wireguard only (no lens), 9-gauge wire adding rigidity to luminaire.



**XX:** Version without lens shielding.



**VA:** Pattern 12 prismatic lens made of virgin acrylic (.095" nominal). Complete with hinged white wireguard.

**VB:** Pattern 12 prismatic lens made of virgin acrylic (.125" nominal). Complete with hinged white wireguard.

Reference Data		Application Data*			Ordering Guide - T5				
Efficiency	86.2%	<b>Luminaire Spacing</b>	<b>FC</b>	<b>W/Sq Ft</b>	<b>Type</b>	<b>Lamps qty/type</b>	<b>Lamp/Luminaire Nominal Length</b>	<b>Luminaire width</b>	<b>Catalogue number</b>
Spacing Ratio	1.2	300' x 400' x 25' Space 17' on centre	50	0.81	Prismatic	2-T5HO	48"	17"	FH4W4DVB254UNVPG
<b>Electronic Ballast</b>		120' x 80' x 28' Space 16' on centre	55	0.98	Lens (VB)	3-T5HO	48"	17"	FH4C4DVB354UNVPG
Input Watts (120V)	234W	300' x 400' x 25' Space 14' on centre	75	1.15	With	4-T5HO	48"	17"	FH4C4DVB454UNVPG
Ballast Factor	1.00				Wireguard	6-T5HO	96" tandem	17"	FH8C4DVB354UNVP6
						8-T5HO	96" tandem	17"	FH8C4DVB454UNVP8
					White	2-T5HO	48"	17"	FH4W4DWW254UNVPG
					Wireguard	3-T5HO	48"	17"	FH4C4DWW354UNVPG
					With	4-T5HO	48"	17"	FH4C4DWW454UNVPG
					No Lens	6-T5HO	96" tandem	17"	FH8C4DWW354UNVP6
						8-T5HO	96" tandem	17"	FH8C4DWW454UNVP8

Ordering Guide - T8				
Type	Lamps qty/type	Lamp/Luminaire Nominal Length	Luminaire width	Catalogue number
Prismatic	2-T8	48"	17"	FH4W4DVB232120SO
Lens (VB)	3-T8	48"	17"	FH4C4DVB332120O3
With	4-T8	48"	17"	FH4C4DVB432120O4
Wireguard	6-T8	96" tandem	17"	FH8C4DVB332120O5
	8-T8	96" tandem	17"	FH8C4DVB432120O7
White	2-T8	48"	17"	FH4W4DWW232120SO
Wireguard	3-T8	48"	17"	FH4C4DWW332120O3
With	4-T8	48"	17"	FH4C4DWW432120O4
No Lens	6-T8	96" tandem	17"	FH8C4DWW332120O5
	8-T8	96" tandem	17"	FH8C4DWW432120O7

FH4W4DWW454

Basic catalogue number:  
TriLyte  
Luminaire

UNV

Voltage:  
120  
277  
347

PV

Ballast:  
See below.

Options:  
See below  
Add appropriate  
suffix to catalogue  
number

## Numbering Logic

FH	4	W	4	D	WW	4	54	UNV	PV	
<b>Luminaire Type</b> FH: TriLyte	<b>Luminaire Length</b> 4: 4' 8: 8'	<b>Body Style</b> W : Flat Design White Reflector C : Contoured Specular Reflector S : Flat Design Specular Reflector	<b>Width</b> 4: 17"	<b>Type</b> D: Downlight	<b>Lens/Shielding</b> VA: Prismatic Lens VA with Wireguard VB: Prismatic Lens VB with Wireguard WW: Wireguard, White /No Lens XX: No Shielding	<b>Lamp Quantity in a luminaire cross-section</b> 2: 2 lamps 3: 3 lamps 4: 4 lamps	<b>Lamp/Type</b> 28: T5 28W 32: T8 32W 54: T5HO 54W	<b>Voltage</b> 120 277 UNV 347	<b>Options</b> Add appropriate suffix to catalogue number see page 9	

**Ballast**  
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**O7** = T8 Elect. I.S. One 4-lamp/outside lamps. One 4-lamp/inside lamps. THD<20%  
**PI** = T5 Elect. I.S. One 2-lamp I.S., THD<10%  
**PG** = T5/T5HO Elect. P.S. One 2-lamp, THD<10%  
**PU** = T5/T5HO Elect. P.S. One 3-lamp, THD<10%  
**PV** = T5/T5HO Elect. P.S. One 4-lamp, THD<10%  
**P6** = T5/T5HO Elect. P.S. One 4-lamp/outside lamps. One 2-lamp/inside lamps. THD<10%  
**P7** = T5/T5HO Elect. P.S. One 3-lamp ballast for lamps 1, 3 and 5, One 3-lamp ballast for lamps 2, 4 and 6, THD<10%  
**P8** = T5/T5HO Elect. P.S. One 4-lamp/outside lamps. One 4-lamp/inside lamps. THD<10%

**Acronyms Used**  
**CU:** Coefficients of Utilization  
**FC:** Footcandles  
**IS:** Instant Start  
**LLF:** Light Loss Factor  
**PS:** Program Start  
**RCR:** Room Cavity Ratio  
**THD:** Total Harmonic Distortion