

# T8 13W 4FT. BYP FLICKER FREE



PRO



BYPass

13W REPLACES



32W  
Fluo.

60% Energy Savings



- ⌚ Flicker free design
- ⌚ Wide beam design: 310° light emitting area
- ⌚ Suitable for use in totally enclosed fixtures
- ⌚ Frosted glass tube for increased light diffusion efficiency
- ⌚ Meets NSF requirements
- ⌚ Built-in universal voltage driver - Bypass installation



50,000 H



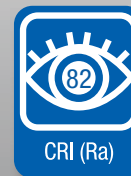
UNIVERSAL



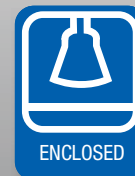
FLICKER FREE



WARRANTY



CRI (Ra)



ENCLOSED

## TUBE FEATURES

### Flicker Free Design

GREEN CREATIVE's FLICKER FREE tubes provide the same great lighting as traditional LED tubes but without the negative effects caused by flicker. All FLICKER FREE tubes feature end-to-end lighting and a wide beam light distribution.



GREEN CREATIVE FLICKER FREE



Traditional LED tube

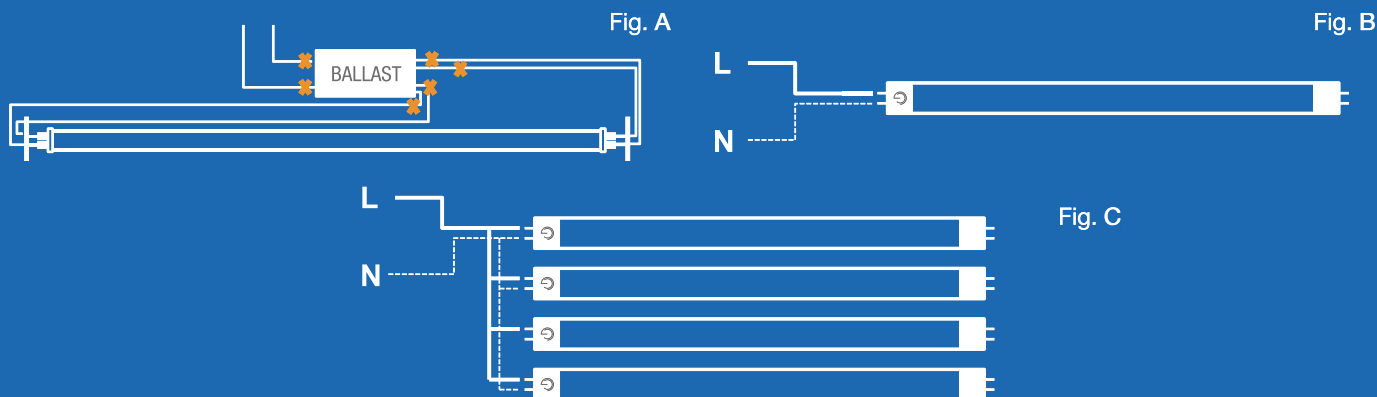
### Health Benefits





Although imperceptible to the human eye, flicker can still negatively impact health causing tiredness, headaches and even eye problems. GREEN CREATIVE's FLICKER FREE tubes are ideal choices for schools, offices, hospitals and other applications where flicker may directly impact health and productivity.

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## BYPASS INSTALLATION



-  Bypass ballast by cutting all wires as in Fig. A
-  Directly wire Live + Neutral on a single end as in Fig. B for single tube or as in Fig. C for multiple tubes
-  Replace shunted lamp holder with non-shunted one if applicable (Instant Start)
-  Existing fixture maintains original UL compliance thanks to UL1598C tube

## SPECIFICATIONS

Product Model	98197 13T8/4F/830/BYP/FF	98198 13T8/4F/835/BYP/FF	98199 13T8/4F/840/BYP/FF	98200 13T8/4F/850/BYP/FF
Type	T8	T8	T8	T8
Base	Medium Bi-Pin G13	Medium Bi-Pin G13	Medium Bi-Pin G13	Medium Bi-Pin G13
Power (W)	13	13	13	13
Voltage - Frequency	120-277V 50-60Hz	120-277V 50-60Hz	120-277V 50-60Hz	120-277V 50-60Hz
Color Temp. (ANSI)	Warm White 3000K	Neutral White 3500K	Cool White 4000K	Daylight 5000K
CRI (Ra)	82	82	82	82
Typical lumens (lm)	1600	1650	1700	1700
Efficacy (LPW)	123	127	131	131
Light Emitting Area	310°	310°	310°	310°
Beam Angle	160°	160°	160°	160°
Dimmable	No	No	No	No
Power Factor	0.9	0.9	0.9	0.9
THD	<20%	<20%	<20%	<20%
Rated Lifetime - L70 (hrs.)	50,000	50,000	50,000	50,000
Dia. x MOL	1.14"x47.76" (29x1213mm)	1.14"x47.76" (29x1213mm)	1.14"x47.76" (29x1213mm)	1.14"x47.76" (29x1213mm)
Weight (lb. / g)	0.57lb. / 259g	0.57lb. / 259g	0.57lb. / 259g	0.57lb. / 259g

\* Suitable for use in totally enclosed fixtures

\*\* Suitable for damp locations. Not for use where directly exposed to the weather or water

## ACCESSORY ORDERING INFORMATION

Model	Product	Instructions
23EMDRIVER	98003	California Title 20 Compliant 23W Emergency LED Driver (Field Installation)