T8 13W 4FT. DIR TITANIUM LED SERIES

GREENCREATIVE

DLC QPL™ LISTED

PRO

13W REPLACES
32W Fluo.
60% Energy Savings

DIRect

- **Compatible with Instant Start & Programmed Start ballasts**
- **Easy to install - Plug & Play Direct**
- **Exceptional efficacy 158 LPW**
- **Suitable for use in totally enclosed fixtures**
- **Meets NSF requirements**
- **Dimmable**

c UL us LISTED FC LM 79 LM 80 TM 21 IES

50,000 H | ELECTRONIC BALLAST COMPATIBLE | PLUG & PLAY DIRect

5 YR WARRANTY | 82 CRI (Ra) | ENCLOSED*
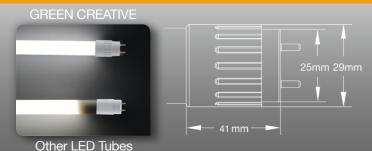
TUBE FEATURES

Extra Wide Beam Design - Frosted Glass Body

This lamp uses an innovative glass design that diffuses heat and light more evenly. As a result of its compact light engine, this lamp produces a light emitting area of 310°. This wider beam angle improves a fixture's total light distribution and creates a more complete lighting effect.

GREEN CREATIVE Wide Beam Light Distribution
310°

Lamp Front View

Lamp Back View

End-to-End Lighting - Micro-Designed Driver

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25mm 29mm

41 mm

Other LED Tubes

The lamp's micro-designed driver is located within the tube end cap which allows for better thermal performance and no dark spots. The result is powerful and seamless light from end to end.

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SPECIFICATIONS

Product Model	28403 13T8/4F/840/DIR	28404 13T8/4F/850/DIR
Type	T8	T8
Base	Medium Bi-Pin G13	Medium Bi-Pin G13
Power (W)	13	13
Voltage - Frequency	120-277V 50-60Hz	120-277V 50-60Hz
Color Temp. (ANSI)	Cool White 4000K	Daylight 5000K
CRI (Ra)	82	82
Typical lumens (lm)	2050	2050
Efficacy (LPW)	158	158
Light Emitting Area	310°	310°
Beam Angle	180°	180°
Dimmable	Yes	Yes
Power Factor	0.9	0.9
THD	<20%	<20%
Rated Lifetime - L70 (hrs.)	50,000	50,000
Dia. x MOL	1.14"x47.76" (29x1213mm)	1.14"x47.76" (29x1213mm)
Weight (lb. / g)	0.67lb. / 304g	0.67lb. / 304g

BALLAST PERFORMANCE

Ballast Factor	Bare Lamp (W)	System (W)	4000K Lumens	5000K Lumens
Low BF .77	13	13.8	1750	1750
Normal BF .88	13	16.5	2050	2050
High BF 1.15	13	23	2700	2700

Testing Method: Above system power is half the total system power of a 2-tube installation using an Instant Start ballast. Power and lumen output will vary based on ballast and fixture type. Above data is indicative only.

* Suitable for use in totally enclosed fixtures
** Suitable for damp locations. Not for use where directly exposed to the weather or water