

## LED RetroFit

### 2'x2' Troffers



#### **Designed Specifically for Quick and Easy Installation.**

LED RetroFit is the first fluorescent troffer retrofit that installs in as little as 3 minutes. Powerful, rare earth magnets secure the retrofit to the existing housing, allowing for hands-free installation. In less than the time needed to change a ballast, you can convert your existing fixture into energy-saving LED that lasts up to 20 years. Leave it to Litetronics to create the easiest way to convert to energy-saving LED; protecting the environment and lowering your operating costs for years to come.

#### **Benefits**

- 85,000-hour rated life; 7-year warranty
- Installs in minutes
- No need to break into the ceiling plenum
- Universal 120-277V driver
- Designed to preserve the optical output and aesthetics of your fixture
- Shatterproof; safe for food service applications

#### **Markets & Applications**

- Restaurants
- Retail
- Schools
- Hospitals
- Office Lighting

# LED RetroFit 2x2' Troffer Retrofit

## Technical Product Information

**Rated Life:** 85,000H\*

**Volts:** 120-277V

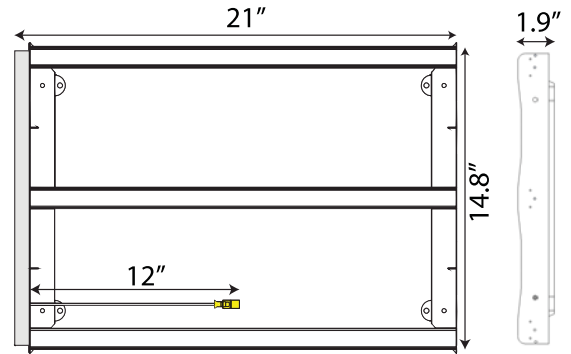
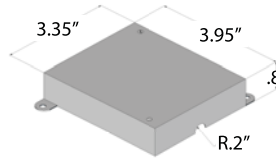
**Line Frequency:** 60Hz

**Reliable Operating Temperatures:** -5° to 95°F

**CRI:** 83

**Power Factor:** ≥0.95

**Available by Special Order:** 3000K



TYPE	WATTS	VOLTS	DESCRIPTION	ORDERING CODE	AVERAGE RATED LIFE*	CRI	POWER FACTOR	CCT (K)	RETROFIT LUMENS**	LUMINAIRE LUMENS**
2X2, 3-LAMP	32	120-277	32W 2X2-3 LED RF QC 3500K	RF32UQT235	85,000H	83	>.95	3500	3,600	3,100
	32	120-277	32W 2X2-3 LED RF QC 4000K	RF32UQT240	85,000H	83	>.95	4000	3,600	3,100
	32	120-277	32W 2X2-3 LED RF QC 5000K	RF32UQT250	85,000H	83	>.95	5000	3,600	3,100

\* 85,000 hours based on 35°C ambient room temperature

\*\* Based on Photometric testing consistent with IES LM-79 testing; Lumens will vary based on diffuser and fixture

## Part Number Matrix

RF (product family)	XX (wattage)	U (voltage)	Q (connector)	XX (shape)	XX (color temperature)
RF - LED RetroFit	32 - 32 watts 50 - 50 watts	U - 120-277V	Q - QuickConnect	T2 - 2'x2' Troffer T4 - 2'x4' Troffer	30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K

## Energy Saving Solution - 2'x2' - Two T8 U-Bend Lamps<sup>1</sup>

Present Wattage	56.3W <sup>2</sup>
x Annual Operating Hours	4,380 hrs.
	= 246,594 watt-hours
÷ 1,000	= 246.59 kWh per year
x kWh rate of \$0.12	= \$29.59 per year
x 125 fixtures	= \$3,698.75 annual energy cost per space <sup>3</sup>
New Wattage	32 W
x Annual Operating Hours	4,380 hrs.
	= 140,160 watt-hours
÷ 1,000	= 140.16 kWh per year
x kWh rate of \$0.12	= \$16.82 per year
x 125 fixtures	= \$2,102.50 annual energy cost per space <sup>3</sup>
<b>Total Estimated Energy Savings<sup>1</sup></b>	<b>= \$1,596.25 (43% Savings)</b>

<sup>1</sup> Based on two 32 watt T8 u-bend lamps

<sup>2</sup> Based on a .88 ballast factor

<sup>3</sup> Based on 125 fixtures per space, operating 4,380 hours a year. 125 fixtures is roughly equivalent to a 10,000 square foot space. kWh rates will vary.

## Candlepower

Angle	0	45	90
0	1365	1365	1365
5	1363	1360	1355
10	1348	1342	1333
15	1322	1312	1296
20	1281	1267	1244
25	1233	1207	1175
30	1147	1126	1089
35	1067	1028	984
40	978	913	860
45	861	776	718
50	719	652	571
55	568	525	452
60	418	376	353
65	301	250	273
70	228	165	208
75	182	120	152
80	137	100	112
85	75	58	61
90	0	0	0

## Light Distribution

Degress	Lumens	%Luminaire
0-30	1049	32.4
0-40	1686	52.1
0-60	2741	84.7
60-90	495.4	15.3
0-90	3236	100

## Spacing Criterion

Spacing Criterion [0-180]	1.26
Spacing Criterion [90-270]	1.20
Spacing Criterion [Diagonal]	1.30



\* Patent Pending

