



# HIGH OUTPUT™ T12 LED Retrofit Tubes

The NLI High Output™ T12 is the premium 360° H.O. retrofit LED tube available today.

- **Ballast Bypass. Replaces:** F24T12HO, F36T12HO, F48T12HO, F60T12HO, F64T12HO, F72T12HO, F84T12HO, F96T12HO
- Use No Ballast with these T12 Retrofit LED Tubes.
- Built in Universal line voltage input driver. Range: (120v ~ 277v) (50HZ / 60HZ)
- Suitable for Outdoor Signs, Cold Temperatures, & Damp locations.
- This LED tube operates exclusively on direct line voltage input. (Optimal Format for all LED Tubes)
- Bypassing the ballast optimizes lamp life and efficiency and eliminates any ballast anomalies that may exist.
- Operating temperature range is -25°C ~ +40°C.
- Double End power option. (Single End or Double End)
- Rotating end caps (90°) for precise tube positioning
- Field Adjustable CCT. (4,000k, 5,000k, & 6,500k)
- Not for use with Dimmers or Emergency Fixtures



## Specifications:

**Model:** LED-T12HO Tube **Series:** T12-High Output™  
**Wattages:** 9w, 12w, 18w, 24w, 26w, 30w, 32w, 36w  
**Input Voltage:** Universal voltage driver 120VAC~277VAC  
**Color Temp:** 4,000k, 5,000k, 6,500k  
**Lumens:** See chart at the bottom right of this sheet.  
**Viewing Angle:** 360 Degrees  
**Operating Temp:** -25°C ~ +40°C **C.R.I. >83**  
**Life Hours:** 50,000Hrs  
**Diameter & Base:** 1" Tube Diameter **Base:** R17d High Output  
**Replaces:** High Output T12 Fluorescent Tubes **Pack:** 10/Pack

## Qualifications:



## Features & Special Data:

- Easy Installation with double power input option.
- Bypass the ballast operation. Use no ballast.
- Direct Voltage Input range is 120VAC~277VAC.
- LED tubes are labeled with power input information and instructions.
- Eliminates all potential problems with old or incompatible ballasts.
- Huge energy savings combined with Long Life and High Lumen Output.
- Field Selectable color temperature. Switch: 4,000k, 5,000k or 6,500k
- Perfect LED tube replacement for Signs, Coolers, & more.
- 3 Year Limited Warranty



## Ordering:

NLI Ordering Code:

Model Number

LED-FxxT12HO

### Length Options, Wattage, Lumens:

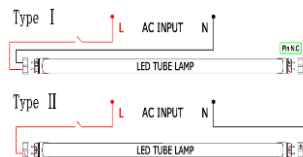
24 24" • 9w • 1,250lm  
 36 36" • 12w • 1,750lm  
 48 48" • 18w • 2,500lm  
 60 60" • 24w • 3,300lm  
 64 64" • 26w • 3,650lm  
 72 72" • 30w • 4,150lm  
 84 84" • 32w • 4,450lm  
 96 96" • 36w • 5,050lm

Field Selectable CCT

4k/5k/65k

4k (4,000k) Cool White  
 5k (5,000k) Pure white  
 65k (6,500k) Daylight

## Important Notice:



It is critical to replace any damaged, broken, worn out or old lamp sockets before installing LED tubes. Failure to do so may result in electrical arcing or short which can lead to lamp failure. The condition of the lamp sockets should be determined solely by a qualified electrician trained in identifying lamp sockets in need of upgrade or replacement *before* converting to high end LED technology. Direct Wire retrofit method bypasses the existing ballast completely. By avoiding combining two different technologies, direct wire method effectively eliminates any possible anomalies or technical conflicts that might prevent the LED tube from achieving and operating at 100% of its designed values.

Applications and operating conditions vary greatly, and it is the responsibility of the installer or end user of the LED tube to verify that the part is compatible and suitable for their application. May not be suitable for use in fully enclosed fixtures including vapor tight fixtures.