

Project Name: \_\_\_\_\_

Application: \_\_\_\_\_

Date: \_\_\_\_\_

Linmore LED Labs Internal Driver Tube sets the standard for LED tubes in this category. True to Linmore standards, our Internal Driver Tube combines the important attributes of thick aluminum extruded construction, LEDs populated to an aluminum strip, and high efficacy. There are few Internal Driver LED Tubes that are built to last, but Linmore delivers. When the objective is to upgrade to LED with a no-compromise, cost effective solution, Linmore's Internal Driver LED Tube is the clear choice.

## Internal Driver LED Tube



### HIGHLIGHTS:

- Efficacy 150 Lumens/Watt
- Aluminum Construction
- Polycarbonate Lens, No Glass
- 120 Degree Light Distribution
- 7 Year Warranty
- No Mercury
- No UV Light

### APPLICATIONS:

- Troffers
- Strips
- Case Lighting
- Indirect Lighting
- Vapor Tights

### RELIABILITY ASSURANCE TESTING:

- Every LED Tube is vibrated at variable frequencies for 5 minutes
- Every LED Tube is operated for a 36 hour break in period
- Every LED Tube is cycled on/off every minute for 36 hours



## Specifications

Suitability	Replace T8 or T12 Lamps
Warranty	7 Years
Expected Life	> 50,000 Hours
Length	2' or 4'
Input Power, 2'	9 Watts
Input Power, 4'	12 Watts
Efficacy (5000K)	150 Lumens/Watt (+/- 10%)
Voltage	100-277 Volts AC
Beam Angle	120
Lens Type	Frosted, No Glass
Color Rendering Index (CRI)	82
Color Temperature	3500K, 4100K, or 5000K
End Caps	G13 Med Bi-Pin
Operating Temperature	-30F - 120F
Power Factor	0.90
Total Harmonic Distortion (THD)	< 15% (277 Volt)
Certifications	UL, DLC, Lighting Facts
Design Lights Consortium	Yes

## Internal Driver LED Tube

### EFFICACY

- High value surface mount diodes
- Balanced approach considering output, cost, and longevity

### THERMAL DISSIPATION

- The tube is made of aluminum, 2/3 circle of aluminum, 1/3 circle polycarbonate lens
- This "D" shaped aluminum tube utilizes 6063-T5 alloy for maximum release of thermal energy
- The tube is 10% thicker than most competing tubes for additional strength and thermal release
- Interior PCB Board is made of aluminum core and thermally bonded to a ribbed aluminum heat sink while most tubes use FRP/plastic

### OPTICS

- Lens is ruggedized polycarbonate 10% thicker than most competing tubes
- Suitable for most food processing applications
- The beam angle is 120 degrees for a wide distribution of light
- Glass Free

## Ordering Information

### TUBE SELECTION

Product Series	Tube Length	Type	Lens Type	Color Temp	Input Wattage
Internal Driver Tubes					
	2'	ID-Internal Driver	F-Frosted	35K-3500	9W (2')
	4'			41K-4100	12W (4')
				50K-5000	
Example: LL-T8-?-ID-F-?-?	4-	ID	F-	41K	12W
Complete: LL-T8-4-ID-F-41K-12W					

**41K-4100** = Most Common

Requires Non-Shunted Lamp Holders

Specifications are Subject to Change.