

PROJECT NAME		DATE	
CAT. NUMBER			
NOTES			

SPEC SHEET

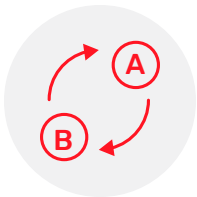
# Ace Tube Lights (AL-T8)

## TYPE A & B NANO LED TUBES



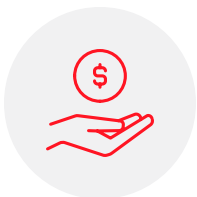
### KEY FEATURES

- Up to 148 LPW
- 320° light distribution
- All plastic tube
- Type A-B hybrid
- T8 electronic ballast compatible
- Estimated life >100,000 hours



### Hybrid Design

Works in Type A in conjunction with electronic fluorescent ballast or in Type B by bypassing the fluorescent ballast.



### Affordable Construction

Tube is constructed of plastic. Designed to be the first low-cost method of converting fluorescent to LED.



### Wide Distribution of Light

Tube offers 320° light distribution for wide-angle illumination.



# TECHNICAL SPECS

LENGTH (FT)	LUMEN OUTPUT	EFFICACY	WATTS	PART NUMBER
2	1,480	148	10	AL-T8-2-A-B-10W-F-50K
4	1,625	148	11	AL-T8-4-A-B-10W-F-50K

Typical lumen output (±10%) at 120V (LV) under 25°C ambient temperature at 5000K.

## Lumen Multipliers

Allows to calculate the actual lumen output for your application. Apply each multiplier to the lumens of the shaded table.

COLOR TEMP	
CCT	Multiplier
5000	1.000
4100	1.000
3500	0.930

**Example:** How to calculate the actual lumen output of the 1,600 model at 3500K.

- 1) Find the lumens from the shaded column.
- 2) Apply all the corresponding multipliers.

$$1,625 \times 0.930 = 1,511$$

Nominal lumens      CCT      Actual lumens

# ORDERING

MODEL	SIZE	TUBE	WATTAGE	LENS	CCT
AL-T8-	<b>2</b> 24"  <b>4</b> 48"	A-B	10W	F Frosted Lens	<b>50K</b> 5000K  <b>41K</b> 4100K  <b>35K</b> 3500K  Other CCT available upon request with extended lead time.

\*Includes 25 tubes per case.

# ORDERING EXAMPLES

**Standard:** AL-T8-4-A-B-10W-F-50K

# FEATURES & SPECIFICATIONS

---

## CONSTRUCTION

- **All Plastic Tube**
- **Hybrid Design:** Works with both Type A and Type B configurations.
- **LEDs:** High Efficacy LEDs are used to deliver maximum light output.

## ELECTRICAL

- **Power Input:** 120-277V.
- **Power Factor:** >0.9 (0.99 typical).
- **Total Harmonic Distortion:** <10%.

## OPERATION

- **Replacement Lamps:** Suitable to replace T8 or T12 lamps. Upon request, we can manufacture T5 socket configuration.
- **Environment:** Dry/Damp, for interior applications.
- **Ambient Range Operation:** -40°C up to 45°C (-40°F up to 113°F).

## OPTICS

- **CCT:** 3500K, 4100K and 5000K standard, other CCT available (extended lead time).
- **CRI:** >80, other CRI available (extended lead time).
- **Lenses:** Frosted lens.

## WARRANTY

- **Standard:** 5-year product warranty.

## LISTINGS & CERTIFICATIONS

- RoHS compliant.
- DesignLights™ Consortium.<sup>1</sup>
- ETL listed.



# BALLAST COMPATIBILITY

## GENERAL ELECTRIC

### ULTRA INSTANT START BALLAST

GE-132MAX-L	GE-432MAX-L	GE-132MAX-N	GE-332MAX-N	GE-132MAX-H	GE-332MAX-H
GE-232MAX-L	GE-232MAXP-L	GE-232MAX-N	GE-432MAX-N	GE-232MAX-H	GE-432MAX-H
GE-332MAX-L					

### INSTANT START BALLAST

GE-132MAX-347-L	GE-432MAX-347-N	GE-332MAX-H-42T	GE-232-120RESDIYB	GE-332-120RES-DIY	GE-259MV-N-DIY
GE-232MAX-347-L	GE-132MAX-347-H	GE-432MAX-H-42T	GE-332-120RESDIYB	GE-432-120RES-DIY	GE-132-MV-N
GE-332MAX-347-L	GE-232MAX-347-H	GE-132MAX-G-N-DIYB	GE-432-120RESDIYB	GE-132MV-N-DIY	GE-232-MV-N
GE-432MAX-347-L	GE-332MAX-347-H	GE-232MAX-G-N-DIYB	GE240RES120-DIYB	GE-232MV-N-DIY	GE-332-MV-N
GE-132MAX-347-N	GE-432MAX-347-H	GE-332MAX-G-N-DIYB	GE240RSMVN-DIYB	GE-332MV-N-DIY	GE-432-MV-N
GE-232MAX-347-N	GE-132MAX-H-42T	GE-432MAX-G-N-DIYB	GE-132-120RES-DIY	GE-432MV-N-DIY	GE260IS-MV-N
GE-332MAX-347-N	GE-232MAX-H-42T	GE-132-120RESDIYB	GE-232-120RES-DIY		

### RAPID START BALLAST

GE240RS120-DIY	GE-232-MVPS-N	GEM120TC120/2-DIY	GEM220TS120/2-DIY	GEM1FC16T9RS120/2	GE-240-RS-MV-N-DIY
----------------	---------------	-------------------	-------------------	-------------------	--------------------

### MAGNETIC RAPID START BALLAST

446-LR-TC-P

### PREHEAT START BALLAST

MAGNETEK-200-H2

## PHILIPS

### PROGRAM START BALLAST

ICN-2S28	IOP-2PSP32-SC	IOP-1PSP32-HL-SC	IOP-4PSP32-HL-SC	IOP-3PSP32-LW-N
ICN-2S28-N	IOP-3PSP32-SC	IOP-2PSP32-HL-SC	IOP-1PSP32-LW-N	IOP-4PSP32-LW-N
IOP-1PSP32-SC	IOP-4PSP32-SC	IOP-3PSP32-HL-SC	IOP-2PSP32-LW-N	

### INSTANT START BALLAST

ICN-2M32-MC	ICN-4P32-N	REB-4P32-SC	IOPA-3P32-N	IOPA-3P32-LM-N	GOPA-3P32-SC
ICN-1P32-N	REB-1P32-SC	IOP-2P32-N	IOPA-4P32-N	IOPA-4P32-LM-N	GOPA-4P32-SC
ICN-2P32-N	REB-2P32-SC	IOPA-1P32-N	IOPA-1P32-LM-N	GOPA-1P32-SC	
ICN-3P32-N	REB-3P32-SC	IOPA-2P32-N	IOPA-2P32-LM-N	GOPA-2P32-SC	

### RAPID START BALLAST

ICN-1S40-N	ICN-2S40-N	ICN-3S40-N	ICN-4S40-N	RELB-1S40-N	RELB-2S40-N
RELB-3S40-N	RELB-4S40-N	RLQS-122-TP-W	RLQ-120-TP		

## SUNPARK

### RAPID START BALLAST

U-1/32PSE	U-2/32PSE	U-3/32PSE	SL15T
-----------	-----------	-----------	-------

### INSTANT START BALLAST

U-1/32ISE	U-2/32ISE	U-3/32ISE	U-1/32ISE-HBF
U-1/32ISE-LBF	U-2/32ISE-LBF	U-2/32ISE-HBF	

### PROGRAM START BALLAST

U-132PS3-HBF	U-232PS3
--------------	----------

# BALLAST COMPATIBILITY

## SYLVANIA

### INSTANT START BALLAST

QHE1x32T8/UNV ISL-SC	QHE2X32T8/UNV ISL-SC	QHE3x32T8/UNV ISL-SC	QHE4x32T8/UNV ISL-SC	QHE1x32T8/UNV ISN-SC
QHE2X32T8/UNV ISN-SC	QHE3x32T8/UNV ISN-SC	QHE4x32T8/UNV ISN-SC	QHE1x32T8/UNV ISH-SC	QHE2x32TB/UNV ISH-SC
QHE3x32Ta/UNV ISH-SC	QHE4x32TB/UNV ISH-SC	QHE1x32Ta/UNVISL-SC-1	QHE2x32TB/UNV ISL-SC-1	QHE3x32Ta/UNV ISL-SC-1
QHE4x32T8/UNV ISL-SC-1	QHE1x32TB/UNVISN-SC-1	QHE2x32TB/UNV ISN-SC-1	QHE3x32Ta/UNV ISN-SC-1	QHE4x32T8/UNV ISN-SC-1
QHE1x32T8/UNV ISH-SC-1	QHE2x32TB/UNV ISH-SC-1	QHE3x32T8/UNV ISH-SC-1	QHE4x32TB/UNV ISH-SC-1	QHE1x32TB/347 ISL-SC
QHE2x32T8/3471SL-SC	QHE3x32T8/347 ISL-SC	QHE4x32T8/347 ISL-SC	QHE1x32T8/347ISN-SC	QHE2x32T8/347I5N-SC
QHE3x32T8/3477 ISN-SC	QHE4x32T8/347ISN-SC	QHE1x32T8/347ISH-SC	QHE2x32T8/347ISH-SC	QHE3x32T8/347 ISH-SC
QHE4x32T8/347I5H-SC	QTP1x32T8/UNVISL-SC	OTP2x32T8/UNV ISL-SC	QTP3x32T8/UNV ISL-SC	OTP4x32T8/UNV ISL-SC
QTP1x32T8/UNV ISN-5C	QTP2x32T8/UNV ISN-SC	QTP3x32T8/UNV ISN-SC	OTP4x32T0/UNV ISN-SC	QTP1x32Ta/UNV ISH-SC
OTP2x32TB/UNV ISH-SC	QTP3x32Ta/UNV ISH-SC	QTP4x32TB/UNV ISH-SC	QHEix59TB/UNV ISL-SC	QHE2x59TA/UNV ISL-SC
QHE3X59TH/UNV ISL-SC	QHEAX59TB/UNVISL-SC	QHE1xS9TB/UNVISN-SC	QHE2x59TB/UNVISN-SC	QHE3x59TB/UNVISN-SC
QHE4x59T8/UNVISN-SC	QHE1x59T8/UNV ISH-SC	QHE2x59T8/UNV ISH-SC	QHE3x59T8/UNVISH-SC	QHE4x59T8/UNV ISH-SC

### PROGRAM START BALLAST

QTP1x32TB/UNV PSN-SC	QTP2x32T8/UNV PSN-SC	QTP3x32TA/UNV PSN-SC	QTP4x32T8/UNV PSN-SC	QHE1x32Ta/UNVV PSN-MC
----------------------	----------------------	----------------------	----------------------	-----------------------

### PROGRAM RAPID START BALLAST

QHE2x32TB/UNV PSN-MC	QHE3x32TB/UNV PSN-MC	QHE4x32TB/UNV PSN-MC
----------------------	----------------------	----------------------

## ROBERTSON

### INSTANT START BALLAST

ISU232T8120

### RAPID START BALLAST

RN320P

### PREHEAT SELF-START BALLAST

SS2P

HPS1P

### SIMPLE REACTANCE BALLAST

L15A

SP258

01527P

### PROGRAM START BALLAST

PSA124T5MV

## TRIAD

### INSTANT START BALLAST

B232IUNVEL-A

B232IUNVHP-B

B232IUNVHP-N

### RAPID START BALLAST

B234SR120M-A

## HI

### INSTANT START BALLAST

EPH2/32IS/MV/MC/HE

### RAPID START BALLAST

E2/40RS-120MC

## KEYSTONE

### RAPID START BALLAST

KTEB-2C72-1-TP

KTEB-220-1-TP-EMI/C

240TPES

## ESPEN

### INSTANT START BALLAST

VE232MVHIPL

VE259120HIP

## WORKHORSE

### INSTANT START BALLAST

WH3-120-L

WHCG2-120-T8

## STERIL-AIRE

### RAPID START BALLAST

10000175

## PROLUME

### INSTANT START BALLAST

EP232IS/L/MV/SL

## RADIONIC

### INSTANT START BALLAST

E232H12

## SUPERIOR LIFE

### INSTANT START BALLAST

70201

## PRO STANDARD

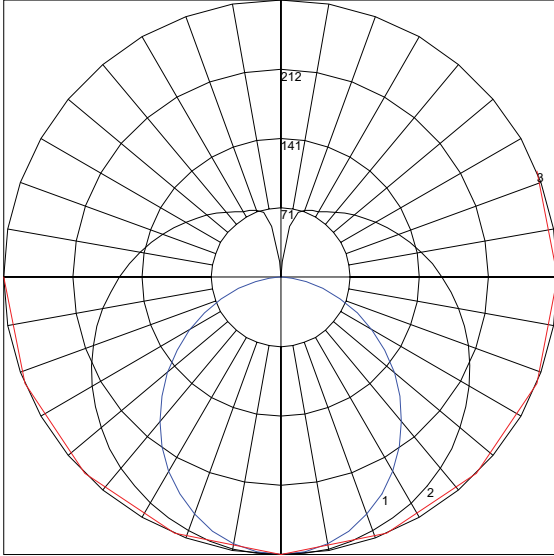
### RAPID START BALLAST

GI22540-TP

## LIGHT DISTRIBUTION

### FROSTED LENS

Polar Graph  
AL-T8-4-A-B-10W-F-35K



Maximum Candela: 282

Located at horizontal angle: 0, Vertical angle : 0

#1: Vertical plane through horizontal angles (0-180)(through max Cd.)

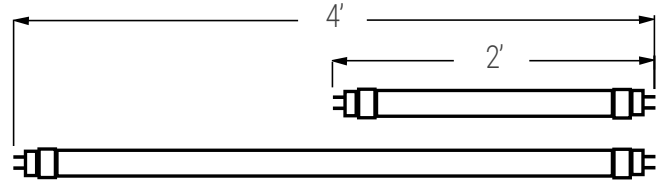
#2: Vertical plane through horizontal angles (90-270)

#3: Horizontal cone through vertical angle (0)(through max Cd.)

## DIMENSIONS & DRAWINGS

### DIMENSIONS

Size	Length (in)	Weight (lb)
2'	24	<1
4'	48	<1



## FOOTNOTES

1. Check QPL for up-to-date listings.

### Linmore LED Labs, Inc.

2360 S. Orange Ave, Bldg. 1, Fresno, CA 93725

559.485.6010 | info@linmoreled.com | LinmoreLED.com



All specifications are subject to change without notice. Please visit [linmoreled.com](http://linmoreled.com) for latest information. All values are typical or design values and series averages. Actual performance may differ as a result of end-user environments and applications. Consult Linmore LED with specific inquiries. Copyright © 2021, Linmore LED Labs, Inc. All rights reserved. No part of this document may be reproduced in any form without the prior written permission of Linmore LED.