LED MAGIC TUBE
Works with or without a ballast

The LED Magic Tube serves as a special energy efficient replacement for all traditional fluorescent T8 lamps. Designed to operate on all existing rapid-start, instant-start, programmed-start, and emergency fixture ballasts... or simply no ballast at all.

FEATURES
- Works both with or without a ballast
- Works both with shunted or non-shunted sockets
- Fantastic replacement “plug and play” tube or retrofit kit
- Compatible with over 90% of all North American electronic ballasts
- Versatility supports massive projects with different types of ballasts
- Suitable for damp or dry environments
- Minimize labor and recycling costs
- Stable lumen output for different ballast brands with different ballast factors
- UL Type A & B
- Globally patented technology
- 5 Year Manufacturer’s Warranty

WARRANTY
This product has a warranty for a period of 5 years from the date of purchase. The warranty is invalid in the case of improper installation, tampering, or removal of the Q.C. date label. Installation in an improper working environment or installation not according to the current edition of the National Electric Code also invalidates the warranty. Should this product fail during the warranty period, it will be replaced free of charge, subject to correct installation and return of the faulty unit. James® does not accept responsibility for any installation costs associated with the replacement of this product. This warranty is in addition to the statutory rights in the country of purchase. James® reserves the right to alter specifications without prior notice.
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PRODUCT SPECIFICATION

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Length (inch)</th>
<th>Color</th>
<th>Bare Lamp (Watt)</th>
<th>Lumens</th>
<th>Average System Watts (W)</th>
<th>Average System Initial Lumens</th>
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<tr>
<td>ZY-T8-10W600 BIXX</td>
<td>24&quot;</td>
<td>3500K-5000K</td>
<td>10W</td>
<td>1400</td>
<td>11.5, 12.5, 13.5</td>
<td>1437, 1550, 1680</td>
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<td>2100</td>
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<td>2069, 2180, 2560</td>
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<td>2069, 2180, 2560</td>
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<td>12W</td>
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ORDERING GUIDE

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<th>ZY</th>
<th>T8</th>
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<th>600/900/1200</th>
<th>B</th>
<th>I</th>
<th>XX</th>
<th>3000K-5000K</th>
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INSTALLATION INSTRUCTIONS

Direct Replacement Procedure:
1. Turn OFF power to the fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes (A) and dispose of these properly as they may contain mercury.
4. Put LED tube (B) into the lighting fixture and ensure the pins are firmly seated in lamp holders.
5. Install the LED tubes and close the diffuser.
6. Switch ON power to the fixture at the breaker panel.

Retrofit Procedure:
1. Turn OFF power to the fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes and dispose of these properly as they may contain mercury.
4. Cut wires and remove (A).
5. Make new wire connection to the branch circuit as shown on diagram (B) below.
6. Replace the cover over the wiring channel.
7. Install the LED tubes and close the diffuser.
8. Switch ON power to the fixture at the breaker panel.

CAUTION

- Risk of fire- do not install this lamp in a pre-heated luminaire.
- Loose or damaged end caps and/or lamp holders need to be replaced before installation.
- Risk of electric shock- make installation with gloves.
- Use only in place of fluorescent lamps specified on label or as a retrofit kit.
- These lamps are not intended for use with emergency exists.
- These lamps are not to be used with a light dimmer.
- If the lamp or luminaire exhibits undesirable operation (i.e. buzzing, flickering, etc.), immediately turn off power and remove the lamp from luminaire and contact manufacturer.
- This lamp only operates on electronic ballasts. If lamp does not light when the luminaire is energized, remove this lamp from luminaire and contact manufacturer.
- Check the ballast installed in the field and make sure the ballast is in manufacturer's ballast list. If the ballast out of the list, a test must needed before mass installation.
- Do not make mass installation before sample testing.