## Electrical Specifications

### Compatible Lamp Information

<table>
<thead>
<tr>
<th>T8 LED Lamp Brand</th>
<th>T8 LED Lamp Description</th>
<th>T8 LED Lamp Product No.</th>
<th>T8 LED Lamp Model No.</th>
<th>T8 LED Lamp Ordering Code</th>
<th>Bare Lamp Watts (W)</th>
<th>Nom. Initial Lumens</th>
<th>Min. Start Temp (°F/°C)</th>
<th>Num. of Lamps</th>
<th>Input Current (A)</th>
<th>Input Power (W) (Min/Max)</th>
<th>Max THD%</th>
<th>Power Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philips</td>
<td>LED InstantFit T8 - 4’</td>
<td>468306</td>
<td>9290011585C</td>
<td>14T8/48-3000 IF 10/1 HO</td>
<td>14</td>
<td>2000</td>
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<td>4</td>
<td>0.59</td>
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<td>High Output</td>
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<td>9290011586C</td>
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<td></td>
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<td>14T8/48-4000 IF 10/1 HO</td>
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<td>-13/-25</td>
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<td>10</td>
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<tr>
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<td></td>
<td>468330</td>
<td>9290011588C</td>
<td>14T8/48-5000 IF 10/1 HO</td>
<td>14</td>
<td>2100</td>
<td>-13/-25</td>
<td>3</td>
<td>0.55</td>
<td>5 / 66</td>
<td>10</td>
<td>0.99</td>
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<td>Philips</td>
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<td>468892</td>
<td>9290013044</td>
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<td>2300</td>
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<td>0.71</td>
<td>6 / 84</td>
<td>10</td>
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<td>High Output</td>
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<td>9290012267</td>
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<td>2400</td>
<td>-13/-25</td>
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<td>0.55</td>
<td>5 / 66</td>
<td>10</td>
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<td>463141</td>
<td>9290012268</td>
<td>16.5T8 LED/48-4000 IF 10/1 HO</td>
<td>16.5</td>
<td>2500</td>
<td>-13/-25</td>
<td>4</td>
<td>0.71</td>
<td>6 / 84</td>
<td>10</td>
<td>0.99</td>
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<td>463158</td>
<td>9290012269</td>
<td>16.5T8 LED/48-5000 IF 10/1 HO</td>
<td>16.5</td>
<td>2500</td>
<td>-13/-25</td>
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<td>0.55</td>
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<td>0.99</td>
</tr>
</tbody>
</table>

### Driver Specifications @120V

- **Brand Name**: Mark 7 0-10V
- **Driver Type**: Electronic Dimming
- **Input Voltage**: 120V
- **Input Frequency**: 50/60 Hz

### Wiring Diagram

- **Standard Lead Length (inches)**
  - Black: 24 in., 61.0 cm
  - White: 24 in., 61.0 cm
  - Blue: 28 in., 71.1 cm
  - Red: 28 in., 71.1 cm
  - Yellow: 43 in., 109.2 cm

### Enclosure

- **Enclosure Dimensions**
  - OverAll (L): 9.50", 9.12", 24.1 cm
  - Width (W): 1.7", 1.7/10, 4.3 cm
  - Height (H): 1.18", 1.950", 3 cm
  - Mounting (M): 8.90", 8.9/10, 22.6 cm

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*Data is based on tests performed by Philips Lighting NA in a controlled environment and is representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.*

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**Philips Lighting N.A.**

10275 West Higgins Road • Rosemont, IL 60018 • www.philips.com/advance
Tel: 800-322-2086 • Fax: 800-423-1882 • Customer Support: 800-372-3331 • OEM Support: 866-915-5886
Section I - Physical Characteristics
1.1 Driver shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
1.2 Driver shall be provided with integral leads color coded per ANSI C82.11.

Section II - Performance Requirements
2.1 Driver shall energize compatible LED lamps within 1 second after mains power is applied.
2.2 Driver shall provide Independent Lamp Operation (ILO) allowing remaining lamp(s) to maintain full light output when one or more lamps fail.
2.3 Driver shall contain auto restart circuitry in order to restart lamps without resetting power.
2.4 Driver shall operate from a 50Hz or 60 Hz AC input source of 120V through 277V with sustained variations of +/- 10% (voltage and frequency).
2.5 Driver shall be high frequency electronic type and operate lamps at frequencies above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.
2.6 Driver shall have a Power Factor of 0.94 or above when operating the maximum rated number of compatible lamps, and 0.88 or above when operating the minimum rated number of compatible lamps.
2.7 Driver input current shall Total Harmonic Distortion (THD) of 10% or less when operating the maximum rated number of compatible lamps and 15% or less when operating the minimum rated number of compatible lamps.
2.8 Driver shall have a Class A sound rating.
2.9 Driver shall have a minimum starting temperature of -13°F / -25°C.
2.10 Driver shall tolerate sustained open circuit and short circuit output conditions.
2.11 Driver shall control lamp light output from 100% - 5% relative light output for T8 TLED.
2.12 Driver shall be suitable of operation in up to a 45°C ambient temperature.

Section III - Regulatory Requirements
3.1 Driver shall not contain any Polychlorinated Biphenyl (PCB).
3.2 Driver shall be Underwriters Laboratories (UL) Recognized, Class P, and suitable for Damp and Dry conditions; and CSA Certified where applicable.
3.3 Driver shall comply with ANSI C62.41 Category A Transient protection.
3.4 Driver shall comply with the requirements of the Federal Communication Commission (FCC) rules and regulations, Title 47, CFR part 15, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).
3.5 Driver shall comply with NEMA 410 for in-rush current limits.

Section IV - Other
4.1 Driver shall be manufactured in a factory certified to ISO 9001 Quality System Standards.
4.2 Driver shall carry a five year warranty from date of manufacture against defects in material and workmanship when operating in a 45°C ambient envi
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<td>LED InstantFit T8 - 4’ High Output</td>
<td>468300</td>
<td>9290011586C</td>
<td>14TB/48-3000 IF 10/1 HO</td>
<td>14</td>
<td>2000</td>
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<td>13/25</td>
<td>5 / 69</td>
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<td>Philips</td>
<td>LED InstantFit T8 - 4’ High Output</td>
<td>468314</td>
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<tr>
<td>Philips</td>
<td>14TB/48-3000 IF 10/1 HO</td>
<td>16T8 LED/48-3000 IF 10/1 HO</td>
<td>14TB/48-3500 IF 10/1 HO</td>
<td>16T8 LED/48-3500 IF 10/1 HO</td>
<td>16T8 LED/48-4000 IF 10/1 HO</td>
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<td>2300</td>
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<td>Philips</td>
<td>14TB/48-4000 IF 10/1 HO</td>
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### Wiring Diagram

![Wiring Diagram](image)

### Enclosure Dimensions

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<tr>
<td>9.50&quot;</td>
<td>1.7&quot;</td>
<td>1.18&quot;</td>
<td>8.90&quot;</td>
</tr>
<tr>
<td>9.1/2&quot;</td>
<td>1.7/10&quot;</td>
<td>1.950&quot;</td>
<td>8.9/10&quot;</td>
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