



# Product Specification

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model no.

**PLT-50312**

## 1. DESCRIPTION:

|                  |                               |
|------------------|-------------------------------|
| LAMP TYPE:       | Linear T8 LED                 |
| LAMP CLASSIFIED: | Type B, Double Ended, Gen4    |
| BASE TYPE:       | FA8/R17D                      |
| EQUIVALENT       | /                             |
| WATTAGE:         | 24W/32W/40W                   |
| CCT:             | 3000K/3500K/4000K/5000K/6500K |
| DIFFUSER TYPE:   | Internal coated glass tube    |
| WARRANTY:        | 5 YEARS                       |



## 2. PRODUCT FEATURES

- Replacement for conventional fluorescent lamp
- Direct wire, 120-277Vac input
- UL (R/C and Classified); DLC 5.1 Standard - PLTSPF1216
- Full glass housing: no aging, no yellowing, no bending
- Environmentally friendly: no mercury
- 5 Color temperature selectable
- 3 Power selectable
- 2 Cap selectable - FA8 caps attached, R17d caps included

Suitable for dry and damp locations  
Suitable for open fixtures



## 3. PERFORMANCE (If no specified, the test conditions in below items are: Ta=25°C±1°C, RH≤65%, air free)

### 3.1 Electrical Characteristics

| PARAMETERS                | SYMBOL | MIN   | RATED       | MAX  | UNIT | Test Condition |
|---------------------------|--------|---|-------------|------|------|----------------|
| Line voltage              | Vin    | --  | 120/277     | --   | V    | /              |
| Frequency                 | f      | --  | 50/60       | --   | Hz   | /              |
| Rated Power               | P      | -10%  | 24W/32W/40W | +10% | W    | Vin=120,277Vac |
| Power factor              | PF     | 0.873   | 0.9         | --   | /    | Vin=120,277Vac |
| Total Harmonic Distortion | THD    | --  | 20%         | 25%  | /    | Vin=120,277Vac |
| Starting time             | t      | --  | --          | 1    | s    | Vin=120,277Vac |
| Flicker Percent           | /      | --  | --          | --   | /    | /              |
| Dimming Type              | /      | 0-10V continuous dimming by super selected dimmer |             |      |      |                |

### 3.2 Photometrical Characteristics

| PARAMETERS       | SYMBOL | MIN  | RATED          | MAX  | UNIT | Test Condition |
|------------------|--------|------|----------------|------|------|----------------|
| Flux @<4000K     | Φ      | -10% | 3300/4200/5200 | +10% | LM   | Vin=120,277Vac |
| Flux @≥4000K     |        | -10% | 3500/4400/5500 | +10% |      |                |
| Efficacy @<4000K | η      | -10% | 137/128/130    | --   | LM/W |                |
| Efficacy @≥4000K |        | -10% | 146/137/137    | --   |      |                |

### 3.3 Color Characteristics (refer to ANSI C78.377-2015)

#### Chromaticity coordinates

| CENTER POINT | CCT=3000K |  | X=0.4339 | Y=0.4033 | / |
|--------------|-----------|--|----------|----------|---|
|              | CCT=3500K |  | X=0.4078 | Y=0.3930 |   |
|              | CCT=4000K |  | X=0.3818 | Y=0.3797 |   |
|              | CCT=5000K |  | X=0.3446 | Y=0.3551 |   |
|              | CCT=6500K |  | X=0.3123 | Y=0.3283 |   |

| PARAMETER                             | SYMBOL | MIN | RATED | MAX | Unit | Test Condition |
|---------------------------------------|--------|-----|-------|-----|------|----------------|
| Color Render Index                    | Ra     | 80  | 82    | --  | /    | /              |
| R9                                    | R9     | 0   | 12    | --  |      |                |
| Color tolerance @<br>3000K/6500K      | /      | --  | --    | 5   | SDCM |                |
| Color tolerance@<br>3500K/4000K/5000K | /      | --  | --    | 7   | SDCM |                |



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## 4. LUMEN MAINTENANCE & LIFE

| PARAMETERS                   | SYMBOL | MIN | RATED | MAX | UNIT | Test Condition   |
|------------------------------|--------|-----|-------|-----|------|------------------|
| Lumen Maintenance at 6000hrs | /      | --  | 95.8% | --  | /    | /                |
| Life                         | t      | --  | 50000 | --  | Hrs  | Ta=45C, air free |
| Warranty                     | /      | --  | 5     | --  | Year | Ta=45C, air free |

## 5. OPERATION TEMPERATURE & STORAGE TEMPERATURE

| PARAMETERS          | SYMBOL          | MIN | RATED | MAX | UNIT | Test Condition |
|---------------------|-----------------|-----|-------|-----|------|----------------|
| Ambient Temperature | T <sub>A</sub>  | -20 | --    | 45  | °C   | /              |
| Storage Temperature | T <sub>st</sub> | -40 | --    | 85  |      | /              |

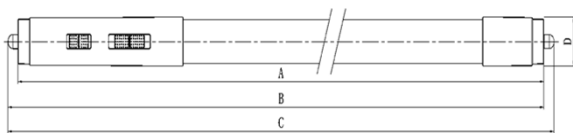
## 6. COMPATIBILITY

Compatible with PLT Solutions PLTS-20116 and PLTS-20117 emergency drivers.

## 7. APPROBATION COMPLIANCE

UL1993&UL1598C, FCC part 15 class B, RoHS compliance, NSF

## 8. DIMENSIONS



| SYMBOL | MIN   | TYP | MAX   | UNIT |
|--------|-------|-----|-------|------|
| A      | 93.10 | --  | 93.30 | in   |
| B      | 93.42 | --  | 93.65 | in   |
| C      | 93.74 | --  | 94    | in   |
| D      | 0.94  | --  | 1.09  | in   |

## 9. Connection & Wiring

### WIRING DIAGRAM

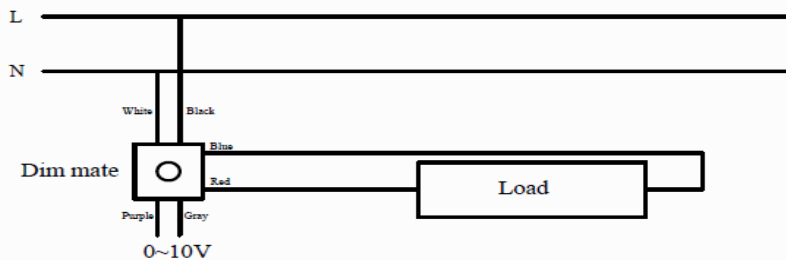


### WIRING ILLUSTRATION

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## 10. Dimming Operation

Dimming Mate required for continuous dimming. Call 1-800-624-4488 for more information.



## 11. Color Selectable Chart

| Wattage | CCT  | Lumens | LPW     | Wattage | CCT  | Lumens | LPW     | Wattage | CCT  | Lumens | LPW     |
|---------|------|--------|---------|---------|------|--------|---------|---------|------|--------|---------|
| 24      | 3000 | 3300   | 137LM/W | 32      | 3000 | 4200   | 128LM/W | 40      | 3000 | 5200   | 130LM/W |
| 24      | 3500 | 3300   | 137LM/W | 32      | 3500 | 4200   | 128LM/W | 40      | 3500 | 5200   | 130LM/W |
| 24      | 4000 | 3500   | 146LM/W | 32      | 4000 | 4400   | 137LM/W | 40      | 4000 | 5500   | 137LM/W |
| 24      | 5000 | 3500   | 146LM/W | 32      | 5000 | 4400   | 137LM/W | 40      | 5000 | 5500   | 137LM/W |
| 24      | 6500 | 3500   | 146LM/W | 32      | 6500 | 4400   | 137LM/W | 40      | 6500 | 5500   | 137LM/W |