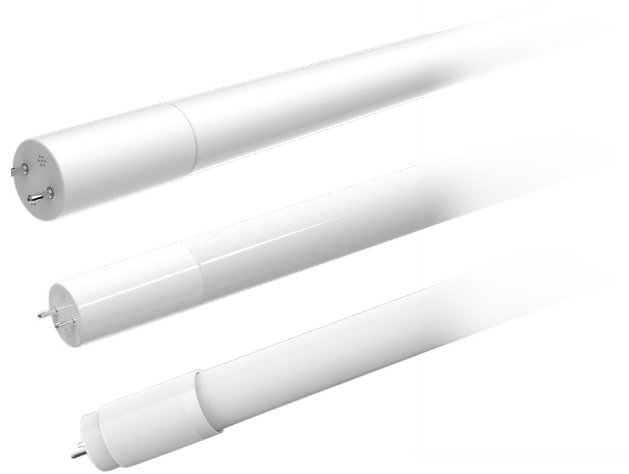


# Glass T8, Type B - Single or Double Ended



4 ft & 2 ft, LED T8 Type B 120-277V, Glass



PROJECT:

DATE:

TYPE:

PREPARED BY:



## KEY FEATURES

- Replacement for conventional fluorescent T8 and T12 linear tubes
- Integral driver enables lamp to be wired directly to line voltage without need for an external driver or ballast
- Single-ended and double-ended wiring method
- Works with non-shunted sockets and shunted sockets
- Approximately 50% more energy efficient when compared to Fluorescent T8 Lamps
- Full glass housing: no aging, no yellowing, no bending

## PERFORMANCE

| Catalog Number          | Nominal Length | Equivalency | Input Wattage | Lumens   | Efficacy | Color Temp | Beam Angle | L70 Lifespan | DLC ID       |
|-------------------------|----------------|-------------|---------------|----------|----------|------------|------------|--------------|--------------|
| T8-8-48G-835-SD-BYP     | 4 ft           | 32WT8       | 8.5W          | 1,600 lm | 188 lm/W | 3500K      | 210°       | 50,000 hrs   | S-WNBMNK     |
| T8-8-48G-840-SD-BYP     |                |             | 8.5W          | 1,650 lm | 194 lm/W | 4000K      |            |              | S-00GZN2     |
| T8-8-48G-850-SD-BYP     |                |             | 8.5W          | 1,650 lm | 194 lm/W | 5000K      |            |              | S-6NR8L7     |
| T8-9.5-48G-830-SD-BYP/2 |                |             | 9.5W          | 1,550 lm | 163 lm/W | 3000K      | 230°       |              | S-E5UXHI     |
| T8-9.5-48G-835-SD-BYP/2 |                |             | 9.5W          | 1,550 lm | 163 lm/W | 3500K      |            |              | S-I8BYLH     |
| T8-9.5-48G-840-SD-BYP/2 |                |             | 9.5W          | 1,650 lm | 174 lm/W | 4000K      |            |              | S-CTKWUQ     |
| T8-9.5-48G-850-SD-BYP/2 |                |             | 9.5W          | 1,650 lm | 174 lm/W | 5000K      |            |              | S-K37SEL     |
| T8-10.5-48G-835-SD-BYP  |                |             | 10.5W         | 1,700 lm | 160 lm/W | 3500K      |            |              | PLO4YVNCRS34 |
| T8-10.5-48G-840-SD-BYP  |                |             | 10.5W         | 1,700 lm | 160 lm/W | 4000K      |            |              | PLJCU2N7A1YY |
| T8-10.5-48G-850-SD-BYP  |                |             | 10.5W         | 1,700 lm | 160 lm/W | 5000K      |            |              | PLLRQSQF99V5 |
| T8-14-48G-830-SD-BYP    |                |             | 14W           | 1,700 lm | 121 lm/W | 3000K      |            |              | PO5EJH1X     |
| T8-14-48G-835-SD-BYP    |                |             | 14W           | 1,700 lm | 121 lm/W | 3500K      |            |              | P228KRZ1     |
| T8-14-48G-840-SD-BYP    |                |             | 14W           | 1,800 lm | 129 lm/W | 4000K      | PNA89F5K   |              |              |
| T8-14-48G-850-SD-BYP    |                |             | 14W           | 1,800 lm | 129 lm/W | 5000K      | P18N3BUA   |              |              |
| T8-13-48G-830-SD-BYP    |                |             | 13W           | 2,100 lm | 162 lm/W | 3000K      | S-4R2IZL   |              |              |

# Glass T8, Type B - Single or Double Ended



## PERFORMANCE (CONTINUED)

| Catalog Number         | Nominal Length | Equivalency | Input Wattage | Lumens   | Efficacy | Color Temp | Beam Angle | L70 Lifespan | DLC ID   |
|------------------------|----------------|-------------|---------------|----------|----------|------------|------------|--------------|----------|
| T8-13-48G-835-SD-BYP   | 4 ft           | 32WT8       | 13W           | 2,100 lm | 162 lm/W | 3500K      | 230°       | 50,000 hrs   | S-19AKN1 |
| T8-13-48G-840-SD-BYP   |                |             | 13W           | 2,200 lm | 169 lm/W | 4000K      |            |              | S-OHXPCV |
| T8-13-48G-850-SD-BYP   |                |             | 13W           | 2,200 lm | 169 lm/W | 5000K      |            |              | S-N7JWCA |
| T8-17-48G-830-SD-BYP   |                |             | 17W           | 2,100 lm | 124 lm/W | 3000K      |            |              | P8NHRT2N |
| T8-17-48G-835-SD-BYP   |                |             | 17W           | 2,100 lm | 124 lm/W | 3500K      |            |              | P6BANSI5 |
| T8-17-48G-840-SD-BYP   |                |             | 17W           | 2,200 lm | 129 lm/W | 4000K      |            |              | PLZWAF57 |
| T8-17-48G-850-SD-BYP   |                |             | 17W           | 2,200 lm | 129 lm/W | 5000K      |            |              | PRMKONCV |
| T8-17.5-48G-830-SD-BYP |                |             | 17.5W         | 2,300 lm | 131 lm/W | 3000K      |            |              | PO6FKUTW |
| T8-17.5-48G-835-SD-BYP |                |             | 17.5W         | 2,400 lm | 137 lm/W | 3500K      |            |              | PG7NBLAV |
| T8-17.5-48G-840-SD-BYP |                |             | 17.5W         | 2,500 lm | 143 lm/W | 4000K      |            |              | P36AOL1L |
| T8-17.5-48G-850-SD-BYP |                |             | 17.5W         | 2,500 lm | 143 lm/W | 5000K      |            |              | P3GJ2TYY |
| T8-9-24G-830-SD-BYP    |                |             | 2 ft          | 17WT8    | 9W       | 1,100 lm   |            |              | 122 lm/W |
| T8-9-24G-835-SD-BYP    | 9W             | 1,100 lm    |               |          | 122 lm/W | 3500K      | PTNK0MM7   |              |          |
| T8-9-24G-840-SD-BYP    | 9W             | 1,150 lm    |               |          | 128 lm/W | 4000K      | PROTUT1T   |              |          |
| T8-9-24G-850-SD-BYP    | 9W             | 1,150 lm    |               |          | 128 lm/W | 5000K      | PW8M78VM   |              |          |

## TECHNICAL SPECIFICATIONS

### CONSTRUCTION

**Product Type**

LED Linear T8

**Length (Nominal)**

2ft & 4ft

**Bulb Shape**

T8

**Enclosure Material**

Glass

**Endcap Material**

Plastic

**Base Type**

G13

**Lens Finish**

Frosted

**Beam Angle**

230°

### ELECTRICAL

**Dimmable**

Yes, but not recommended for dimming applications.

**THD**

<20%

**Power Factor**

>0.9

**Input Voltage**

120-277V

**Operating Frequency**

50/60 Hz

**Operating Temperature**

-4°F to 113°F (-20°C to 45°C)

## TECHNICAL SPECIFICATIONS (CONTINUED)

### COMPLIANCE

#### NSF Listing

Meets NSF/ANSI standards for use in Food Zone (non-contact), Splash, and Non-Food Zones. Tube guard required in open fixtures.

#### RoHS

Mercury and UV free. RoHS-compliant components.

#### FCC

Complies with Part 15 of the FCC Rules.

#### DLC Listed

This product family is listed with the DesignLights Consortium (DLC). Individual SKUs within this family may carry either a DLC Standard or DLC Premium qualification. Please refer to the individual product specification sheet or the DLC Qualified Products List (QPL) at [designlights.org](http://designlights.org) to confirm the qualification status of a specific SKU prior to specification or purchase.

#### Listing

UL Classified, UL Recognized

#### Environment

Suitable for use in dry and damp environments.

#### Fixture Rating

Suitable for use in enclosed fixtures

#### California Energy Commission (CEC) Status

Lawful for sales in California

### INSTALLATION

#### Installation Method

UL Type B, Ballast Bypass - directly wire to line voltage

#### Wiring Method

Single or Double ended wiring

#### Compatible Sockets

Can be installed on shunted (double-ended) or non-shunted sockets (single-ended)|

### LED CHARACTERISTICS

#### Beam Angle

210° Color Temperature  
3000K\*, 3500K, 4000K, 5000K

*\*3000K available on select models*

#### Color Accuracy (CRI)

>80

#### R9 Value

High color performance with R9 greater than 0

#### Color Consistency

<5-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

#### Color Stability

LED color temperature is warranted to shift no more than 200K in color temperature over a 5-year period.

#### Color Uniformity

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

### OTHER

#### Warranty

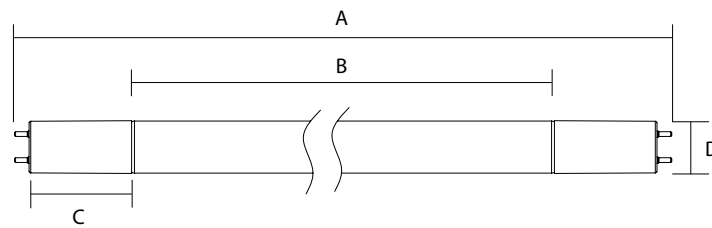
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

# Glass T8, Type B - Single or Double Ended



## DIMENSIONS



| Catalog Number          | A        | B       | C        | D      |
|-------------------------|----------|---------|----------|--------|
| T8-14-48G-8XX-SD-BYP    | 47 3/16" | 43 1/4" | 4 15/16" | 1"     |
| T8-17-48G-8XX-SD-BYP    | 47 3/16" | 43 1/4" | 4 15/16" | 1"     |
| T8-9-24G-8XX-SD-BYP     | 23 3/16" | 19 1/4" | 4 15/16" | 1"     |
| T8-10.5-48G-8XX-SD-BYP  | 47 3/16" | 43 1/4" | 4 15/16" | 1"     |
| T8-17.5-48G-8XX-SD-BYP  | 47 3/4"  | 45"     | 2 3/4"   | 1"     |
| T8-9.5-48G-8XX-SD-BYP/2 | 47 3/4"  | 45"     | 2 3/4"   | 1 1/8" |
| T8-13-48G-8XX-SD-BYP    | 47 3/4"  | 45 1/2" | 2 1/4"   | 1"     |

## ORDERING INFO

| Catalog Number         | Model Number (DLC/Energy Star) | UPC          | Case Pack |
|------------------------|--------------------------------|--------------|-----------|
| T8-14-48G-830-SD-BYP   | T8-14-48G-830-SD-BYP           | 019813751795 | 25        |
| T8-14-48G-835-SD-BYP   | T8-14-48G-835-SD-BYP           | 019813751801 | 25        |
| T8-14-48G-840-SD-BYP   | T8-14-48G-840-SD-BYP           | 019813751818 | 25        |
| T8-14-48G-850-SD-BYP   | T8-14-48G-850-SD-BYP           | 019813751825 | 25        |
| T8-17-48G-830-SD-BYP   | T8-17-48G-830-SD-BYP           | 019813751832 | 25        |
| T8-17-48G-835-SD-BYP   | T8-17-48G-835-SD-BYP           | 019813751849 | 25        |
| T8-17-48G-840-SD-BYP   | T8-17-48G-840-SD-BYP           | 019813751856 | 25        |
| T8-17-48G-850-SD-BYP   | T8-17-48G-850-SD-BYP           | 019813751863 | 25        |
| T8-9-24G-830-SD-BYP    | T8-9-24G-830-SD-BYP            | 019813751757 | 25        |
| T8-9-24G-835-SD-BYP    | T8-9-24G-835-SD-BYP            | 019813751764 | 25        |
| T8-9-24G-840-SD-BYP    | T8-9-24G-840-SD-BYP            | 019813751771 | 25        |
| T8-9-24G-850-SD-BYP    | T8-9-24G-850-SD-BYP            | 019813751788 | 25        |
| T8-10.5-48G-835-SD-BYP | T10046                         | 019813833361 | 25        |
| T8-10.5-48G-840-SD-BYP | T10047                         | 019813833378 | 25        |
| T8-10.5-48G-850-SD-BYP | T10048                         | 019813833385 | 25        |

# Glass T8, Type B - Single or Double Ended



## ORDERING INFO (CONTINUED)

| Catalog Number          | Model Number (DLC/Energy Star)  | UPC          | Case Pack |
|-------------------------|---------------------------------|--------------|-----------|
| T8-17.5-48G-830-SD-BYP  | T10313(T8-17.5-48G-830-SD-BYP)  | 192552004893 | 25        |
| T8-17.5-48G-835-SD-BYP  | T10314(T8-17.5-48G-835-SD-BYP)  | 192552004909 | 25        |
| T8-17.5-48G-840-SD-BYP  | T10315(T8-17.5-48G-840-SD-BYP)  | 192552004916 | 25        |
| T8-17.5-48G-850-SD-BYP  | T10316(T8-17.5-48G-850-SD-BYP)  | 192552004923 | 25        |
| T8-9.5-48G-830-SD-BYP/2 | T20073(T8-9.5-48G-830-SD-BYP/2) | 192552004855 | 25        |
| T8-9.5-48G-835-SD-BYP/2 | T20074(T8-9.5-48G-835-SD-BYP/2) | 192552004862 | 25        |
| T8-9.5-48G-840-SD-BYP/2 | T20075(T8-9.5-48G-840-SD-BYP/2) | 192552004879 | 25        |
| T8-9.5-48G-850-SD-BYP/2 | T20076(T8-9.5-48G-850-SD-BYP/2) | 192552004886 | 25        |
| T8-13-48G-830-SD-BYP    | T20077(T8-13-48G-830-SD-BYP)    | 192552004930 | 25        |
| T8-13-48G-835-SD-BYP    | T20078(T8-13-48G-835-SD-BYP)    | 192552004947 | 25        |
| T8-13-48G-840-SD-BYP    | T20079(T8-13-48G-840-SD-BYP)    | 192552004954 | 25        |
| T8-13-48G-850-SD-BYP    | T20080(T8-13-48G-850-SD-BYP)    | 192552004961 | 25        |

## ORDERING MATRIX

| Family    | Wattage   | Length                           | Material       | CRI/Color Temp   | Wiring Method                        | Installation Type                    | Generation                                    |
|-----------|---|----------------------------------|----------------|--|--------------------------------------|--------------------------------------|---|
| <b>T8</b> | -   | -                                | <b>G</b>       | -  | <b>SD</b>                            | <b>BYP</b>                           |   |
|           | <b>8</b> 8.5W<br><b>9</b> 9W<br><b>9.5</b> 9.5W<br><b>10.5</b> 10.5W<br><b>12</b> 12W<br><b>13</b> 13W<br><b>14</b> 14W<br><b>17</b> 17W<br><b>17.5</b> 17.5W | <b>24</b> 2 ft<br><b>48</b> 4 ft | <b>G</b> Glass | <b>830</b> 80 CRI, 3000K<br><b>835</b> 80 CRI, 3500K<br><b>840</b> 80 CRI, 4000K<br><b>850</b> 80 CRI, 5000K | <b>SD</b> Single/<br>Double<br>Ended | <b>BYP</b> Type B,<br>Ballast Bypass | <b>Blank</b> Generation 1<br>/2 Generation 2* |

### Notes

2 ft only available in 9W

4 ft only available in 9.5W, 10.5W, 12W, 13W, 14W, 17W, 17.5W

\*Gen 2 is 9.5W 4 ft only