

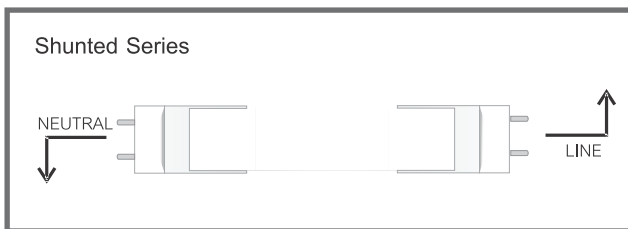
FLB SERIES

FOR USE IN FLUORESCENT LAMPS
 RETROFIT OR NEW INSTALLATIONS



OPTIONAL FEATURES

- 18", 24", 36", 60", 72" and 96"
- Colors: Super Cool, Warm, Neutral, Amber*, Red*, Green*, and Blue*
- Operational voltages for special applications*
- Clear lens



Our type B power, from both ends in, the UL numbers are:
 E503953 (OOLV) (Retrofit Installation)
 E504011 (IFAR) (New Fixture Installation)

DESCRIPTION

The newest product in LED Smart's line up is a Type B (double ended, ballast bypass) linear LED replacement lamp. Available in sizes from 18" to 96" for all types of end caps. Making this the most universal series available.

The specially made internal driver allows power from both ends (shunted) without the use of a ballast. All types of ends available, including G13, FA8 and r17d. Available in a variety of colors to suit any environment. Delivering up to 140l/w.

The new FLB Dual End power series is a market leading product with the availability of FA8 (single pin) end caps. The FLB Dual End series is rated at 50,000 hours and backed up by a 5-year warranty.

Certified for use in new or retrofit applications. Certified for use in dry and damp environments.

FEATURES

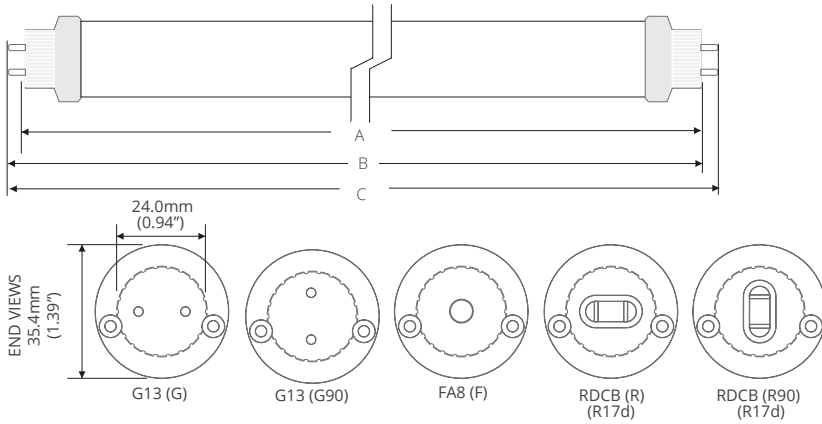
- Solid state lighting device, works well in harsh environments of hot or cold temperatures
- Instant on, no warm up time
- Lasts 10 times longer than fluorescent
- The extrusion acts as a heat sink to extend life of LEDs
- Low EMI emissions, to reduce radio interference
- Designed to replace conventional fluorescent lamps
- Lead and mercury free

STANDARD FEATURES

- 48" Length
- Cool white LEDs
- 100VAC ~ 277VAC Operating Voltage
- Milk White Lens
- Bi-Pin, Instant start connection type
- Standard T8 Fluorescent replacement

DIMENSIONS

T10 DIAMETER (Shown with G13, see chart for FA8 or R17d)

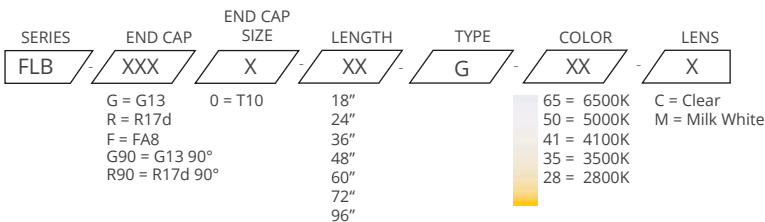


| Standard Length | A | | | | B | | | | C | | | | |
|-----------------|------|-----|-------|-----|--------|-------|-------|--------|--------|-------|-------|--------|---------|
| | Inch | | mm | | Inch | | mm | | Inch | | mm | | |
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | |
| G13 | 18 | - | 17.22 | - | 437.4 | 17.67 | 17.78 | 448.8 | 451.8 | 17.4 | 17.5 | 442 | 444.5 |
| | 24 | - | 23.22 | - | 598.8 | 23.40 | 23.50 | 594.4 | 596.9 | 23.67 | 23.78 | 601.2 | 604.0 |
| | 36 | - | 35.22 | - | 894.6 | 35.40 | 35.50 | 899.2 | 901.7 | 35.67 | 35.78 | 906.0 | 908.8 |
| | 48 | - | 47.22 | - | 1199.4 | 47.40 | 47.50 | 1204.0 | 1206.5 | 47.67 | 47.78 | 1210.8 | 1213.60 |
| | 60 | - | 59.05 | - | 1499.9 | 59.24 | 59.33 | 1504.7 | 1507.0 | 59.50 | 59.61 | 1511.3 | 1514.1 |
| FA8/ r17d | 24 | - | - | - | - | - | - | - | - | 21.72 | 21.92 | 551.7 | 556.77 |
| | 48 | - | 45.22 | - | 1148.6 | 45.40 | 45.50 | 1153.2 | 1155.7 | 45.67 | 45.83 | 1160.0 | 1164.08 |
| | 60 | - | 57.37 | - | 1457.2 | 57.50 | 57.65 | 1460.5 | 1464.3 | 57.72 | 57.83 | 1466.1 | 1468.88 |
| | 72 | - | 69.22 | - | 1758.2 | 69.40 | 69.50 | 1762.8 | 1765.3 | 69.72 | 69.83 | 1770.9 | 1773.68 |
| | 96 | - | 93.20 | - | 2367.3 | 93.40 | 93.50 | 2372.4 | 2374.9 | 93.67 | 93.83 | 2379.2 | 2383.28 |

ELECTRICAL STATS & OPERATING FUNCTIONS

| Type | Nominal Length (inch) | Lens Type | PART # CODE | Input Voltage (AC Volts) | | | Input Current (Amp) | | | Luminous Intensity (Lumens) | | | | | Maximum Power Consumption (Watts) | CRI |
|------|-----------------------|------------|-------------|--------------------------|-----|-----|---------------------|------|------|-----------------------------|-------|------------|-------|-------|-----------------------------------|-----|
| | | | | MIN | TYP | MAX | MIN | TYP# | MAX | COOL WHITE | | WARM WHITE | | | TYP | TYP |
| | | | | | | | | | | 6500K | 5000K | 4100K | 3500K | 2800K | | |
| FLB | 18 | CLEAR | G | 100 | 120 | 277 | 0.05 | 0.06 | 0.08 | 1024 | 1035 | 984 | 984 | 945 | 7 | 85 |
| | 24 | | | | | | 0.06 | 0.07 | 0.09 | 1170 | 1183 | 1125 | 1125 | 1080 | 8 | |
| | 36 | | | | | | 0.09 | 0.10 | 0.13 | 1755 | 1774 | 1687 | 1687 | 1620 | 12 | |
| | 48 | | | | | | 0.11 | 0.13 | 0.17 | 2193 | 2217 | 2109 | 2109 | 2025 | 15 | |
| | 60 | | | | | | 0.13 | 0.15 | 0.20 | 2632 | 2661 | 2531 | 2531 | 2431 | 18 | |
| | 72 | | | | | | 0.16 | 0.19 | 0.26 | 3363 | 3400 | 3234 | 3234 | 3106 | 23 | |
| | 96 | | | | | | 0.21 | 0.25 | 0.33 | 4387 | 4434 | 4219 | 4219 | 4051 | 30 | |
| | 18 | MILK WHITE | | | | | 0.05 | 0.06 | 0.08 | 762 | 771 | 733 | 733 | 704 | 7 | |
| | 24 | | | | | | 0.06 | 0.07 | 0.09 | 871 | 881 | 838 | 838 | 804 | 8 | |
| | 36 | | | | | | 0.09 | 0.10 | 0.13 | 1307 | 1321 | 1257 | 1257 | 1207 | 12 | |
| | 48 | | | | | | 0.11 | 0.13 | 0.17 | 1633 | 1651 | 1571 | 1571 | 1508 | 15 | |
| | 60 | | | | | | 0.13 | 0.15 | 0.20 | 1960 | 1981 | 1885 | 1885 | 1810 | 18 | |
| | 72 | | | | | | 0.16 | 0.19 | 0.26 | 2504 | 2532 | 2409 | 2409 | 2313 | 23 | |
| | 96 | | | | | | 0.21 | 0.25 | 0.33 | 3267 | 3302 | 3142 | 3142 | 3017 | 30 | |

ORDERING INFORMATION



NOTES & PATENT INFORMATION

US Patent #7,307,391 8,115,411 8,791,650 9,179,513
 Canada Patent #2,651,224 2,555,065 2,831,641
 International Patents Pending
 For complete and up to date patent information see our website