

Linear Fluorescent lamps are an energy saving alternative to incandescent lighting and provide better light quality and color flexibility. Halco's family of ProLume® linear fluorescent lamps include T5, T8, T10 and T12 types in a variety of Kelvin temperatures and CRI ratings.

Eco-Shield™ designates Halco's environmentally responsible TCLP-compliant, low mercury fluorescent lamps. Look for the EcoShield mark and green etch on a variety of ProLume lamps. Halco® recommends all mercury-containing lamps be recycled. Please check with your local and state laws regarding lamp recycling. For information on recycling regulations by state go to www.lamprecycle.org.

ProLume Ultra Efficient T5 and T5 HO lamps provide application flexibility with their ultra-slim design. All T5 lamps have the same surface brightness for uniform lighting, regardless of tube length. With improved tri-phosphors, ProLume lamps have excellent lumen maintenance of up to 94% and a CRI of 85. High Output lamps deliver up to 104 lumens per watt, about twice that of T8 and T12 lamps.

ProLume EcoShield T8 lamps save up to 40% in energy costs compared to T12 lamps. ProLume T8 lamps are available in F17, F25, F32 and FB32, in both 700 and 800 series. All types are available in 3000, 3500, 4100 and 5000K. F32 lamps are also available in 6500K Daylight and ULTRA950 with a 98 CRI.

ProLume T10 Ultra50 high lumen lamps operate on electronic or magnetic ballasts and have a higher maintained light output than standard T12 lamps. At 3600 lumens, two Ultra50 lamps can replace four T12 lamps to save up to 50% in energy and maintenance costs. ProLume T10 lamps provide crisp white light, at 5000K and a CRI rating of 88.

Contents

| | | | |
|----|------------------------------|----|--------------------------------------|
| 54 | Bulb and Base Identification | 62 | U-Bend |
| 55 | Cross Reference Guide | 63 | Circline |
| 58 | Preheat Lamps | 63 | Appliance Lamps |
| 58 | T5 Programmed Start | 63 | Blacklight / Blacklight-Blue |
| 59 | T8, T10, T12 Rapid Start | 63 | Germicidal |
| 60 | Slimline Instant Start | 64 | Electronic and Magnetic Ballasts |
| 61 | High Output | 65 | Symbols, Footnotes and Abbreviations |
| 62 | Very High Output | | |

Halco®, ProLume® and Eco-Shield™ are trademarks of Halco Lighting Corporation.



ProLume Ultra Efficient T5

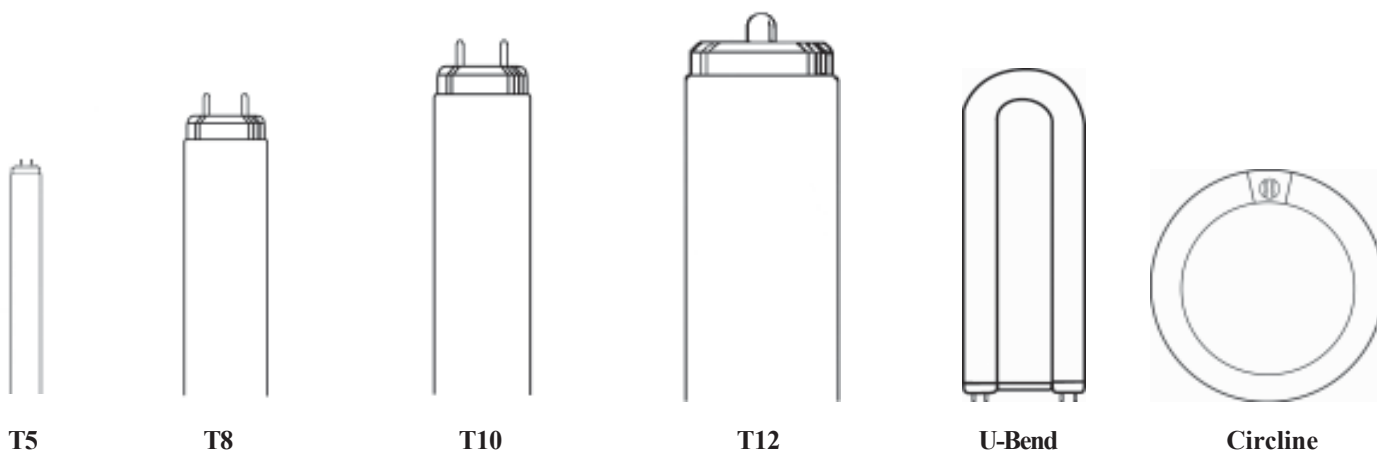


ProLume Eco-Shield T8

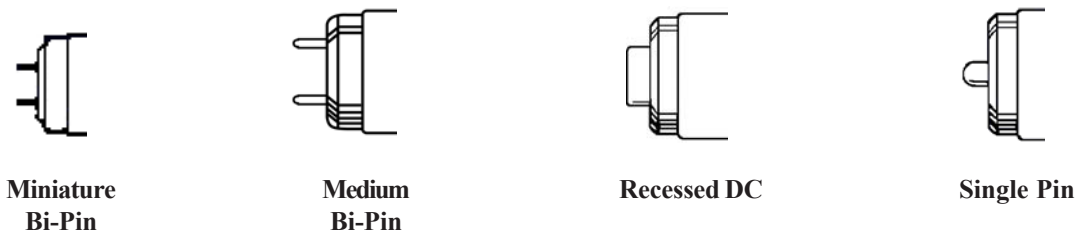


ProLume Circline U-Bend

FLUORESCENT BULB SHAPES



BASE TYPES



Cross Reference Guide

| HALCO | G.E. | PHILIPS | OSRAM/SYLVANIA |
|--|-----------------|-------------------|----------------|
| Preheat Lamps | | | |
| F18T8CW/K24 | F24"T8CW/4 | F18T8/CW/24 | F18T8CW/K24 |
| F18T8CW/K26 | F26"T8CW/4 | F16T8/CW/26 | F18T8CW/K26 |
| F18T8CW/K28 | F28"T8CW/4 | F17T8/CW/28 | F18T8CW/K28 |
| F18T8CW/K30 | F30"T8CW/4 | F18T8/CW/30/ALTO | F18T8CW/K30 |
| F20T12/735 | F20T12/SP35 | F20T12/SPEC35 | F20T12/D35 |
| F20T12/ULTRA50 | - | - | - |
| F25T12CW/28 | F25T12/CW/28 | F25T12/CW/28 | F25T12/CW/28 |
| F25T12CW/33 | F25T12/CW/33 | - | F25T12/CW/33 |
| F30T12CW/30 | F30"T12/CW | F25T12/CW/30 | F25T12/CW/30 |
| Ultra Efficient T-5 | | | |
| F14T5/835 | F14W/T5/835 | F14T5/835 | FP14/835 |
| F14T5/841 | F14W/T5/841 | F14T5/841 | FP14/841 |
| F21T5/830 | F21W/T5/830 | F21T5/830 | FP21/830 |
| F21T5/835 | F21W/T5/835 | F21T5/835 | FP21/835 |
| F21T5/841 | F21W/T5/841 | F21T5/841 | FP21/841 |
| F28T5/830 | F28W/T5/830 | F28T5/830 | FP28/830 |
| F28T5/835 | F28W/T5/835 | F28T5/835 | FP28/835 |
| F28T5/841 | F28W/T5/841 | F28T5/841 | FP28/841 |
| F35T5/835 | F35W/T5/835 | F35T5/835 | FP35/835 |
| F35T5/841 | F35W/T5/841 | F35T5/841 | FP35/841 |
| Ultra Efficient T-5 High Output | | | |
| F24T5/835/HO | F24W/T5/835 | F24T5/835/HO | FP24/835/HO |
| F24T5/841/HO | F24W/T5/841 | F24T5/841/HO | FP24/841/HO |
| F39T5/830/HO | F39W/T5/830 | F39T5/830/HO | FP39/830/HO |
| F39T5/835/HO | F39W/T5/835 | F39T5/835/HO | FP39/835/HO |
| F39T5/841/HO | F39W/T5/841 | F39T5/841/HO | FP39/841/HO |
| F54T5/830/HO | F54W/T5/830 | F54T5/830/HO/ALTO | FP54/830/HO |
| F54T5/835/HO | F54W/T5/835 | F54T5/835/HO/ALTO | FP54/835/HO |
| F54T5/841/HO | F54W/T5/841 | F54T5/841/HO/ALTO | FP54/841/HO |
| F54T5/850/HO | - | F54T5/850/HO/ALTO | - |
| T-8 Rapid Start | | | |
| F17T8/730/ECO | F17T8/SP30/ECO | F17T8/TL730/ALTO | FO17/730/ECO |
| F17T8/735/ECO | F17T8/SP35/ECO | F17T8/TL735/ALTO | FO17/735/ECO |
| F17T8/741/ECO | F17T8/SP41/ECO | F17T8/TL741/ALTO | FO17/741/ECO |
| F17T8/750/ECO | - | - | - |
| F17T8/830/ECO | F17T8/SPX30/ECO | F17T8/830/ALTO | FO17/830/ECO |
| F17T8/835/ECO | F17T8/SPX35/ECO | F17T8/835/ALTO | FO17/835/ECO |
| F17T8/841/ECO | F17T8/SPX41/ECO | F17T8/841/ALTO | FO17/841/ECO |
| F25T8/730/ECO | F25T8/SP30/ECO | F25T8/TL730/ALTO | FO25/730/ECO |
| F25T8/735/ECO | F25T8/SP35/ECO | F25T8/TL735/ALTO | FO25/735/ECO |
| F25T8/741/ECO | F25T8/SP41/ECO | F25T8/TL741/ALTO | FO25/741/ECO |
| F25T8/750/ECO | - | - | - |
| F25T8/830/ECO | F25T8/SPX30/ECO | F25T8/830/ALTO | FO25/830/ECO |
| F25T8/835/ECO | F25T8/SPX35/ECO | F25T8/835/ALTO | FO25/835/ECO |
| F25T8/841/ECO | F25T8/SPX41/ECO | F25T8/841/ALTO | FO25/841/ECO |
| F32T8/730/ECO | F32T8/SP30/ECO | F32T8/TL730/ALTO | FO32/730/ECO |

Cross Reference Guide

| HALCO | GE. | PHILIPS | OSRAM/SYLVANIA |
|---|---------------------|-----------------------|---------------------|
| T-8 Rapid Start (cont'd) | | | |
| F32T8/735/ECO | F32T8/SP35/ECO | F32T8/TL735/ALTO | FO32/735/ECO |
| F32T8/741/ECO | F32T8/SP41/ECO | F32T8/TL741/ALTO | FO32/741/ECO |
| F32T8/750/ECO | F32T8/SP50/ECO | F32T8/TL750/ALTO | FO32/750/ECO |
| F32T8/765/ECO | F32T8/SP65/ECO | - | FO32/765/ECO |
| F32T8/830/ECO | F32T8/SPX30/ECO | F32T8/TL830/ALTO | FO32/830/ECO |
| F32T8/835/ECO | F32T8/SPX35/ECO | F32T8/TL835/ALTO | FO32/835/ECO |
| F32T8/841/ECO | F32T8/SPX41/ECO | F32T8/TL841/ALTO | FO32/841/ECO |
| F32T8/850/ECO | F32T8/SPX50/ECO | F32T8/TL850/ALTO | FO32/850/ECO |
| F32T8/865/ECO | - | - | - |
| F32T8/ULTRA50 | F32T8/SPX50/ECO | F32T8/TL850/ALTO | FO32/850/ECO |
| F32T8/950 | - | - | - |
| F40T8/735/M | F40T8/SP35 | F40T8/TL735/ALTO | FO40/735/ECO |
| F40T8/741/M | F40T8/SP41 | F40T8/TL741/ALTO | FO40/741/ECO |
| T-10 Rapid Start | | | |
| F40T10/ULTRA50 | - | - | - |
| F40T10/955 | - | - | - |
| T-12 Rapid Start | | | |
| F34CWES/ECO | F34CW/RS/WM/ECO | F34CW/RS/EW/ALTO | F34CW/SS/ECO |
| F34/735/ES/M | F34SP35/RS/WM | F34/SPEC35/RS/EW/ALTO | F34/D35/SS/ECO |
| F40CWX | - | F40/CWX/RS/EW | F40CWX |
| F40DX | F40/DX | F40/DX/ALTO | F40/DX |
| F40T12/ULTRA50 | F40/SPX50 | F40/50U/ALTO | - |
| F40/350BL | F40BL | F40/350BLACKLIGHT | F40/350BL |
| F40/730 | F40/SP30 | F40/SPEC30/ALTO | F40/D30/ECO |
| F40/735 | F40/SP35 | F40/SPEC35/ALTO | F40/D35/ECO |
| F40/741 | F40/SP41 | F40/SPEC41/ALTO | F40/D41/ECO |
| F40/950 | F40/C50 | F40/C50 | F40DSGN50 |
| F40/975/M | F40/C75 | F40/C75 | - |
| F40BLB | F40/BLB | - | F40/BLB/RP |
| Instant Start - Slimline | | | |
| F96CWES/ECO | F96T12/CW/WM/ECO | F96T12/CW/EW/ALTO | F96T12/CW/SS/ECO |
| F96DX/ECO | F96T12/DX | F96T12/DX/ALTO | F96T12/DX |
| F96T50 | F96T12/SPX50 | F96T12/50U/ALTO | F96T12/DSGN50 |
| F96/735/M | F96T12/SP35 | F96T12/SPEC35/EW/ALTO | F96T12/D35 |
| F96/741/M | F96T12/SP41 | F96T12/SPEC41/EW/ALTO | F96T12/D41 |
| Rapid Start High Output & Very High Output | | | |
| F48CWWHO/M | F48T12CW/1500 | F48T12CW/VHO | F48T12/CW/VHO |
| F72CWWHO/M | F72T12/CW/1500 | F72T12/CW/VHO | F72T12/CW/VHO |
| F96CWHOO/ECO | - | F96T12/CW/HO-O | F96T12/CW/HO/CT/ECO |
| F96CWHOES/ECO | F96T12/CW/HO/WM/ECO | F96T12/CW/HO/EW/ALTO | F96T12/CW/HO/SS/ECO |
| F96CWWHO/M | F96T12/CW/1500 | F96T12/CW/VHO | F96T12/CW/VHO |
| F96DXHO/SG | F96T12/DX/HO | F96T12/DX/HO | F96T12/D865/HO |
| U-Bend Fluorescents | | | |
| FB32/730/6/ECO | F32T8/SP30/U/6 | FB32T8/TL730/6/ALTO | FBO32/730/6/ECO |
| FB32/735/6/ECO | F32T8/SP35/U/6 | FB32T8/TL735/6/ALTO | FBO32/735/6/ECO |

Cross Reference Guide

| HALCO | GE. | PHILIPS | OSRAM/SYLVANIA |
|------------------------------|------------------|---------------------|------------------|
| U-Bend Fluorescents | | | |
| FB32/741/6/ECO | F32T8/SP41/U/6 | FB32T8/TL741/6/ALTO | FBO32/741/6/ECO |
| FB32/750/6/ECO | - | FB32T8/TL750/6/ALTO | FBO32/750/6/ECO |
| FB32/830/6/ECO | F32T8/SPX30/U/6 | FB32T8/TL830/6/ALTO | FBO32/830/6/ECO |
| FB32/835/6/ECO | F32T8/SPX35/U/6 | FB32T8/TL835/6/ALTO | FBO32/835/6/ECO |
| FB32/841/6/ECO | F32T8/SPX41/U/6 | FB32T8/TL841/6/ALTO | FBO32/841/6/ECO |
| FB32/850/6/ECO | F32T8/SPX50/U/6 | FB32T8/TL850/6/ALTO | - |
| FB31/830/M | F31/SPX30/U | - | FBO31/830/ECO |
| FB31/835/M | F31/SPX/35/U | - | FBO31/835/ECO |
| FB31/841/M | F31/SPX/41/U | - | FBO31/841/ECO |
| FB34CWU6/ES | F35CW/U/6/WM | FB34/CW/6/EW/ALTO | FB34/CW/6/SS |
| FB34WWU6/ES | F35WW/U/6/WM | FB34WW/6/EW/ALTO | FB34/WW/6/SS |
| FB34CWU3ES/M | F35CW/U/3/WM | FB34CW/3/EW | - |
| FB40/735/6/M | F40SP35/U/6 | FB40/SPEC35/6/ALTO | FB40/D35/6 |
| FB40/741/6/M | F40SP41/U/6 | FB40/SPEC41/6/ALTO | FB40/D41/6 |
| Cross Reference Guide | | | |
| 730 | SP30 | SPEC30 or 730 | D30 or 730 |
| 830 | SPX30 | 30U or 830 | D830 |
| 950 | C50 | C50 | DSGN50 |
| ES (Energy Saver) | WM (Watt-Miser®) | EW (Econo-Watt®) | SS (Supersaver®) |
| Eco-Shield™ | ECOLUX® | ALTO® | ECOLOGIC® |
| ULTRA50 | SPX50 | 850 | D850 |

Linear



Miniature Bi-Pin



Medium Bi-Pin

| Bulb | Watts | Product Number | Footnotes | Product Code | Description | Inner/Master | Color Temp. | CRI | Initial Lumens | Avg. Life | Nom. Length |
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|

ProLume® Preheat Lamps - Miniature Bi-Pin

| | | | | | | | | | | | |
|----|----|--------|-----|---------|-----------------|---------|------|----|-----|-------|-----|
| T5 | 4 | 9213 | 2,7 | F4T5CW | Cool White | 10/1000 | 4200 | 65 | 100 | 6,000 | 6" |
| | 6 | 9200 | 2,7 | F6T5CW | Cool White | 10/500 | 4200 | 65 | 200 | 6,000 | 9" |
| | 8 | 9201 | 2,7 | F8T5CW | Cool White | 10/500 | 4200 | 65 | 280 | 6,000 | 12" |
| | 8 | 109215 | 2,7 | F8T5DL | Daylight | 10/500 | 6500 | 75 | 330 | 6,000 | 12" |
| | 8 | 109210 | 2,7 | F8T5WW | Warm White | 10/500 | 3000 | 53 | 400 | 6,000 | 12" |
| | 8 | 9206 | 2,7 | F8T5BLB | Blacklight Blue | 10/500 | - | - | - | 6,000 | 12" |
| | 13 | 9231 | 2,7 | F13T5CW | Cool White | 10/200 | 4200 | 65 | 620 | 6,000 | 21" |
| | 13 | 9232 | 2,7 | F13T5WW | Warm White | 10/200 | 3000 | 53 | 870 | 6,000 | 21" |

ProLume® Preheat Lamps - Medium Bi-Pin

| | | | | | | | | | | | |
|-----|----|--------|-----|----------------|----------------------|----|------|----|------|--------|-----|
| T8 | 14 | 109370 | †,2 | F14T8CW | Cool White | 25 | 4200 | 62 | 650 | 8,000 | 15" |
| | 15 | 9202 | 2 | F15T8CW | Cool White | 30 | 4200 | 62 | 770 | 7,500 | 18" |
| | 15 | 835884 | 2 | F15T8BL/M | Blacklight Major | 6 | - | - | - | 7,500 | 18" |
| | 15 | 109212 | 2 | F15T8DL | Daylight | 30 | 6500 | 74 | 750 | 6,000 | 18" |
| | 15 | 109208 | 2 | F15T8WW | Warm White | 30 | 3000 | 53 | 845 | 6,000 | 18" |
| | 30 | 9225 | 2 | F30T8CW | Cool White | 30 | 4200 | 62 | 2100 | 9,000 | 36" |
| T12 | 14 | 9228 | 1 | F14T12CW | Cool White | 30 | 4200 | 62 | 480 | 9,000 | 15" |
| | 15 | 9212 | 1 | F15T12CW | Cool White | 30 | 4200 | 62 | 600 | 9,000 | 18" |
| | 15 | 109214 | 1 | F15T12WW | Warm White | 30 | 3000 | 53 | 780 | 9,000 | 18" |
| | 20 | 9203 | 1 | F20T12CW | Cool White | 30 | 4200 | 62 | 1200 | 9,000 | 24" |
| | 20 | 9235 | 1 | F20T12DL | Daylight | 30 | 6500 | 74 | 1050 | 9,000 | 24" |
| | 20 | 9227 | 1 | F20T12WW | Warm White | 30 | 3000 | 52 | 1300 | 9,000 | 24" |
| | 20 | 109612 | †,1 | F20T12/ULTRA50 | 850 Phosphor Ultra50 | 30 | 5000 | 86 | 1300 | 10,000 | 24" |

ProLume® T-5 Programmed Start - Miniature Bi-Pin

| | | | | | | | | | | | |
|----|----|--------|----------|--------------|-----------------|----|------|----|------|--------|-------|
| T5 | 14 | 105440 | \$.2,7 | F14T5/835 | 835 Phosphor | 25 | 3500 | 85 | 1350 | 20,000 | 22" |
| | 14 | 105420 | \$.2,7 | F14T5/841 | 841 Phosphor | 25 | 4100 | 85 | 1350 | 20,000 | 22" |
| | 21 | 105400 | \$.2,7 | F21T5/830 | 830 Phosphor | 25 | 3000 | 85 | 2100 | 20,000 | 34" |
| | 21 | 105460 | \$.2,7 | F21T5/835 | 835 Phosphor | 25 | 3500 | 85 | 2100 | 20,000 | 34" |
| | 21 | 105480 | \$.2,7 | F21T5/841 | 841 Phosphor | 25 | 4100 | 85 | 2100 | 20,000 | 34" |
| | 24 | 105580 | \$.2,7 | F24T5/835/HO | 835 Phosphor HO | 25 | 3500 | 85 | 2000 | 20,000 | 21.6" |
| | 24 | 105600 | \$.2,7 | F24T5/841/HO | 841 Phosphor HO | 25 | 4100 | 85 | 2000 | 20,000 | 21.6" |
| | 28 | 105402 | \$.ⓔ,2,7 | F28T5/830 | 830 Phosphor | 25 | 3000 | 85 | 2900 | 20,000 | 46" |
| | 28 | 105500 | \$.ⓔ,2,7 | F28T5/835 | 835 Phosphor | 25 | 3500 | 85 | 2900 | 20,000 | 46" |
| | 28 | 105520 | \$.ⓔ,2,7 | F28T5/841 | 841 Phosphor | 25 | 4100 | 85 | 2900 | 20,000 | 46" |
| | 35 | 105540 | \$.2,7 | F35T5/835 | 835 Phosphor | 25 | 3500 | 85 | 3650 | 20,000 | 58" |
| | 35 | 105560 | \$.2,7 | F35T5/841 | 841 Phosphor | 25 | 4100 | 85 | 3650 | 20,000 | 58" |
| | 39 | 105404 | \$.2,7 | F39T5/830/HO | 830 Phosphor HO | 25 | 3000 | 85 | 3500 | 20,000 | 33.4" |

To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.

ⓔ Means this lamp meets Federal Minimum Efficiency standards.

Fluorescent Tube symbols, footnotes, and abbreviations located on page 65.



| Bulb | Watts | Product Number | Footnotes | Product Code | Description | Inner/Master | Color Temp. | CRI | Initial Lumens | Avg. Life | Nom. Length |
|--|-------|----------------|-----------|--------------|-----------------|--------------|-------------|-----|----------------|-----------|-------------|
| ProLume® T-5 Programmed Start - Miniature Bi-Pin (cont'd) | | | | | | | | | | | |
| T5 | 39 | 105620 | \$,2,7 | F39T5/835/HO | 835 Phosphor HO | 25 | 3500 | 85 | 3500 | 20,000 | 33.4" |
| | 39 | 105640 | \$,2,7 | F39T5/841/HO | 841 Phosphor HO | 25 | 4100 | 85 | 3500 | 20,000 | 33.4" |
| | 54 | 105406 | ⓔ,2,7 | F54T5/830/HO | 830 Phosphor HO | 25 | 3000 | 85 | 5000 | 20,000 | 45.2" |
| | 54 | 105660 | ⓔ,2,7 | F54T5/835/HO | 835 Phosphor HO | 25 | 3500 | 85 | 5000 | 20,000 | 45.2" |
| | 54 | 105680 | ⓔ,2,7 | F54T5/841/HO | 841 Phosphor HO | 25 | 4100 | 85 | 5000 | 20,000 | 45.2" |
| | 54 | 105700 | ⓔ,2,7 | F54T5/850/HO | 850 Phosphor HO | 25 | 5000 | 85 | 5000 | 20,000 | 45.2" |

| Bulb | Watts | Product Number | Footnotes | Product Code | Description | Inner/Master | Color Temp. | CRI | Initial Lumens | Avg. Life | Nom. Length |
|---|-------|----------------|-----------|----------------|--------------------------|--------------|-------------|-----|----------------|-----------|-------------|
| ProLume® T-8 Rapid Start Lamps - Medium Bi-Pin | | | | | | | | | | | |
| T8 | 17 | 109320 | Ⓢ,Ⓢ,2 | F17T8/730/ECO | 730 Phosphor Eco-Shield™ | 25 | 3000 | 75 | 1325 | 20,000 | 24" |
| | 17 | 109322 | Ⓢ,Ⓢ,2 | F17T8/735/ECO | 735 Phosphor Eco-Shield™ | 25 | 3500 | 75 | 1325 | 20,000 | 24" |
| | 17 | 109324 | Ⓢ,Ⓢ,2 | F17T8/741/ECO | 741 Phosphor Eco-Shield™ | 25 | 4100 | 75 | 1325 | 20,000 | 24" |
| | 17 | 109326 | Ⓢ,Ⓢ,2 | F17T8/750/ECO | 750 Phosphor Eco-Shield™ | 25 | 5000 | 75 | 1325 | 20,000 | 24" |
| | 17 | 109800 | Ⓢ,Ⓢ,2 | F17T8/830/ECO | 830 Phosphor Eco-Shield™ | 25 | 3000 | 85 | 1400 | 20,000 | 24" |
| | 17 | 109802 | Ⓢ,Ⓢ,2 | F17T8/835/ECO | 835 Phosphor Eco-Shield™ | 25 | 3500 | 85 | 1400 | 20,000 | 24" |
| | 17 | 109804 | Ⓢ,Ⓢ,2 | F17T8/841/ECO | 841 Phosphor Eco-Shield™ | 25 | 4100 | 85 | 1400 | 20,000 | 24" |
| | 25 | 109340 | Ⓢ,Ⓢ,2 | F25T8/730/ECO | 730 Phosphor Eco-Shield™ | 25 | 3000 | 75 | 2125 | 20,000 | 36" |
| | 25 | 109342 | Ⓢ,Ⓢ,2 | F25T8/735/ECO | 735 Phosphor Eco-Shield™ | 25 | 3500 | 75 | 2125 | 20,000 | 36" |
| | 25 | 109344 | Ⓢ,Ⓢ,2 | F25T8/741/ECO | 741 Phosphor Eco-Shield™ | 25 | 4100 | 75 | 2125 | 20,000 | 36" |
| | 25 | 109346 | Ⓢ,Ⓢ,2 | F25T8/750/ECO | 750 Phosphor Eco-Shield™ | 25 | 5000 | 75 | 2125 | 20,000 | 36" |
| | 25 | 109806 | Ⓢ,Ⓢ,2 | F25T8/830/ECO | 830 Phosphor Eco-Shield™ | 25 | 3000 | 85 | 2250 | 20,000 | 36" |
| | 25 | 109808 | Ⓢ,Ⓢ,2 | F25T8/835/ECO | 835 Phosphor Eco-Shield™ | 25 | 3500 | 85 | 2250 | 20,000 | 36" |
| | 25 | 109810 | Ⓢ,Ⓢ,2 | F25T8/841/ECO | 841 Phosphor Eco-Shield™ | 25 | 4100 | 85 | 2250 | 20,000 | 36" |
| | 32 | 109412 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/730/ECO | 730 Phosphor Eco-Shield™ | 25 | 3000 | 75 | 2850 | 20,000 | 48" |
| | 32 | 109414 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/735/ECO | 735 Phosphor Eco-Shield™ | 25 | 3500 | 75 | 2850 | 20,000 | 48" |
| | 32 | 109416 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/741/ECO | 741 Phosphor Eco-Shield™ | 25 | 4100 | 75 | 2850 | 20,000 | 48" |
| | 32 | 109418 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/750/ECO | 750 Phosphor Eco-Shield™ | 25 | 5000 | 75 | 2850 | 20,000 | 48" |
| | 32 | 109424 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/765/ECO | 765 Phosphor Eco-Shield™ | 25 | 6500 | 75 | 2750 | 20,000 | 48" |
| | 32 | 109398 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/830/ECO | 830 Phosphor Eco-Shield™ | 25 | 3000 | 85 | 3050 | 20,000 | 48" |
| | 32 | 109400 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/835/ECO | 835 Phosphor Eco-Shield™ | 25 | 3500 | 85 | 3050 | 20,000 | 48" |
| | 32 | 109402 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/841/ECO | 841 Phosphor Eco-Shield™ | 25 | 4100 | 85 | 3050 | 20,000 | 48" |
| | 32 | 109404 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/850/ECO | 850 Phosphor Eco-Shield™ | 25 | 5000 | 85 | 3050 | 20,000 | 48" |
| | 32 | 109428 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/865/ECO | 865 Phosphor Eco-Shield™ | 25 | 6500 | 85 | 3050 | 20,000 | 48" |
| | 32 | 109610 | †,Ⓢ,ⓔ,2 | F32T8/ULTRA50 | 850 Phosphor Ultra50™ | 30 | 5000 | 86 | 2950 | 20,000 | 48" |
| | 32 | 109360 | Ⓢ,ⓔ,Ⓢ,2 | F32T8/ULTRA950 | 950 Phosphor Ultra950™ | 25 | 5000 | 98 | 2000 | 20,000 | 48" |
| | 40 | 815951 | Ⓢ,2 | F40T8/735/M | 735 Phosphor Major | 25 | 3500 | 75 | 3600 | 20,000 | 60" |
| | 40 | 815952 | Ⓢ,2 | F40T8/741/M | 741 Phosphor Major | 30 | 4100 | 75 | 3600 | 20,000 | 60" |
| | 59 | 823411 | Ⓢ,ⓔ,2 | F96T8/735/M | 735 Phosphor Major | 24 | 3500 | 78 | 5800 | 15,000 | 96" |

To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.

ⓔ Means this lamp meets Federal Minimum Efficiency standards.

Linear



Single Pin



Medium Bi-Pin

| Bulb | Watts | Product Number | Footnotes | Product Code | Description | Inner/Master | Color Temp. | CRI | Initial Lumens | Avg. Life | Nom. Length |
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|

ProLume® T-8 Rapid Start Lamps - Medium Bi-Pin (cont'd)

| | | | | | | | | | | | |
|----|----|--------|--------|-------------|--------------------|----|------|----|------|--------|-----|
| T8 | 59 | 823412 | \$,ⓔ,2 | F96T8/741/M | 741 Phosphor Major | 24 | 4100 | 78 | 5800 | 15,000 | 96" |
| | 59 | 205773 | \$,ⓔ,2 | F96T8/850/M | 850 Phosphor Major | 24 | 5000 | 86 | 5950 | 15,000 | 96" |

ProLume® T-10 Rapid Start Lamps - Medium Bi-Pin

| | | | | | | | | | | | |
|-----|----|--------|-------|----------------|-----------------------|----|------|----|------|--------|-----|
| T10 | 40 | 109600 | ⓔ,2 | F40T10/ULTRA50 | 850 Phosphor Ultra50™ | 30 | 5000 | 86 | 3600 | 20,000 | 48" |
| | 40 | 109602 | h,ⓔ,2 | F40T10/955 | 955 Phosphor | 25 | 5550 | 92 | 3600 | 20,000 | 48" |

T-12 Rapid Start Lamps - Medium Bi-Pin

| | | | | | | | | | | | |
|-----|----|--------|--------|--------------|---------------------------------|----|------|----|------|--------|-----|
| T12 | 30 | 9204 | 1 | F30T12CW | Cool White ProLume® | 30 | 4200 | 62 | 1900 | 18,000 | 36" |
| | 30 | 9236 | 1 | F30T12DL | Daylight ProLume® | 30 | 6500 | 74 | 1750 | 18,000 | 36" |
| | 30 | 313742 | 1 | F30T12WW | Warm White Major | 30 | 3000 | 53 | 2300 | 18,000 | 36" |
| | 34 | 40212 | \$,Ⓢ,1 | F34CWES/ECO | CW ProLume® Eco-Shield™ | 30 | 4150 | 62 | 2650 | 20,000 | 48" |
| | 34 | 256867 | \$,1 | F34WWES/M | Warm White ES Low Mercury Major | 30 | 3000 | 53 | 2700 | 20,000 | 48" |
| | 34 | 813807 | \$,1 | F34/735/ES/M | 735 Phosphor ES Major | 30 | 3500 | 73 | 2750 | 20,000 | 48" |
| | 40 | 230474 | ⓔ,1 | F40AB | Arctic Brite Deluxe | 30 | 5100 | 82 | 2400 | 20,000 | 48" |
| | 40 | 109490 | 1 | F40BLB | Blacklight Blue ProLume® | 6 | - | - | - | 20,000 | 48" |
| | 40 | 109480 | †,1 | F40/350BL | Blacklight ProLume® | 6 | - | - | - | 20,000 | 48" |
| | 40 | 109430 | 1 | F40CWX | CW Deluxe ProLume® | 30 | 4100 | 90 | 2200 | 20,000 | 48" |
| | 40 | 109420 | 1 | F40DX | Daylight Deluxe ProLume® | 30 | 6500 | 85 | 2650 | 20,000 | 48" |
| | 40 | 313130 | ⓔ,1 | F40NL | Natural Light | 30 | 5600 | 91 | 2150 | 20,000 | 48" |
| | 40 | 346817 | ⓔ,1 | F40SL | Spectralite Full Spectrum | 30 | 5900 | 90 | 2430 | 20,000 | 48" |
| | 40 | 15075 | ⓔ,1 | F40/730 | 730 Low Mercury Major | 30 | 3000 | 70 | 3200 | 20,000 | 48" |
| | 40 | 109442 | †,ⓔ,1 | F40/735 | 735 Phosphor ProLume® | 30 | 3500 | 75 | 3050 | 20,000 | 48" |
| | 40 | 109444 | †,ⓔ,1 | F40/741 | 741 Phosphor ProLume® | 30 | 4100 | 75 | 3050 | 20,000 | 48" |
| | 40 | 109440 | †,ⓔ,1 | F40/950 | 950 Phosphor ProLume® | 30 | 5200 | 92 | 2200 | 20,000 | 48" |
| | 40 | 813795 | ⓔ,1 | F40/975/M | 975 Phosphor Major | 30 | 7500 | 92 | 1950 | 20,000 | 48" |
| | 40 | 109614 | †,ⓔ,1 | F40/ULTRA50 | 850 Phosphor ProLume® Ultra50™ | 30 | 5000 | 86 | 3450 | 20,000 | 48" |

Slimline Instant Start Lamps - Single Pin

| | | | | | | | | | | | |
|-----|----|--------|---|-----------|------------------------------|----|------|----|------|--------|-----|
| T6 | 25 | 824266 | 1 | F42T6CW/M | Cool White Major | 24 | 4200 | 62 | 1750 | 7,500 | 42" |
| | 40 | 826466 | 1 | F64T6CW/M | Cool White Major | 24 | 4200 | 62 | 2800 | 7,500 | 64" |
| T12 | 39 | 363218 | 1 | F48CW/M | Cool White Low Mercury Major | 15 | 4100 | 62 | 2950 | 9,000 | 48" |
| | 39 | 387019 | 1 | F48DL/M | Daylight Low Mercury Major | 30 | 6500 | 79 | 2500 | 9,000 | 48" |
| | 50 | 260012 | 1 | F60CW/M | Cool White Major | 30 | 4200 | 62 | 3600 | 12,000 | 60" |
| | 50 | 823076 | 1 | F60DL/M | Daylight Major | 15 | 6500 | 75 | 3000 | 12,000 | 60" |

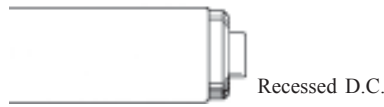
To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.

ⓔ Means this lamp meets Federal Minimum Efficiency standards.

Fluorescent Tube symbols, footnotes, and abbreviations located on page 65.



Single Pin



Recessed D.C.

| Bulb | Watts | Product Number | Footnotes | Product Code | Description | Inner/Master | Color Temp. | CRI | Initial Lumens | Avg. Life | Nom. Length |
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|

Slimline Instant Start Lamps - Single Pin (cont'd)

| | | | | | | | | | | | |
|-----|----|--------|--------|--------------------|--------------------------------------|----|------|----|------|--------|-----|
| T12 | 50 | 355768 | 1 | F64CW/M | Cool White Major | 30 | 4200 | 62 | 3900 | 12,000 | 64" |
| | 50 | 355776 | 1 | F64DL/M | Daylight Major | 30 | 6500 | 76 | 3300 | 12,000 | 64" |
| | 56 | 369892 | 1 | F72CW/M | Cool White Low Mercury Major | 15 | 4100 | 62 | 4450 | 12,000 | 72" |
| | 56 | 369850 | 1 | F72DL/M | Daylight Major | 15 | 6500 | 79 | 3800 | 12,000 | 72" |
| | 70 | 813764 | 1 | F84CW/M | Cool White Major | 15 | 4200 | 62 | 5300 | 12,000 | 84" |
| | 75 | 231548 | Ⓔ,1 | F96AB | Artic Brite | 15 | 5100 | 82 | 4775 | 12,000 | 96" |
| | 60 | 402440 | \$,Ⓜ,1 | F96CWES/ECO | Cool White ProLume® Eco-Shield™ | 15 | 4150 | 62 | 5400 | 12,000 | 96" |
| | 75 | 840117 | 1 | F96CW/SGD | Cool White Shatter Guard | 15 | 4100 | 60 | 5960 | 12,000 | 96" |
| | 75 | 109422 | Ⓜ,1 | F96DX/ECO | Daylight Deluxe ProLume® Eco-Shield™ | 15 | 6500 | 84 | 4500 | 26,000 | 96" |
| | 75 | 214932 | Ⓔ,1 | F96NL | Natural Light | 15 | 5600 | 91 | 4360 | 12,000 | 96" |
| | 75 | 350157 | Ⓔ,1 | F96SL | Spectralite Full Spectrum | 15 | 5900 | 90 | 4340 | 12,000 | 96" |
| | 75 | 814067 | Ⓔ,1 | F96/735/M | 735 Phosphor Major | 15 | 3500 | 73 | 6110 | 12,000 | 96" |
| | 75 | 815358 | Ⓔ,1 | F96/741/M | 741 Phosphor Major | 15 | 4100 | 72 | 6110 | 12,000 | 96" |
| | 75 | 298018 | Ⓔ,1 | F96/850 | Triten 50 | 15 | 5000 | 85 | 6500 | 12,000 | 96" |
| | 75 | 813752 | Ⓔ,1 | F96/950/M | 950 Phosphor Major | 15 | 5000 | 90 | 4600 | 12,000 | 96" |

High Output Lamps (800MA) - Recessed DC Base

| | | | | | | | | | | | |
|-----|----|--------|------------|----------------------|---------------------------------|----|------|----|------|--------|-----|
| T8 | 86 | 812537 | \$,Ⓔ,2,4,5 | F96T8/735HO/M | 735 Phosphor HO Major | 24 | 3500 | 78 | 8000 | 18,000 | 96" |
| | 86 | 812538 | \$,Ⓔ,2,4,5 | F96T8/741HO/M | 741 Phosphor HO Major | 24 | 4100 | 78 | 8000 | 18,000 | 96" |
| T12 | 35 | 262790 | 1,4,5 | F24T12CWHO/M | Cool White HO Major | 30 | 4100 | 62 | 1650 | 9,000 | 24" |
| | 35 | 262741 | 1,4,5 | F24T12DLHO/M | Daylight HO Major | 30 | 6500 | 79 | 1400 | 9,000 | 24" |
| | 40 | 226464 | 1,4,5 | F30T12CWHO/M | Cool White HO Major | 30 | 4100 | 62 | 2290 | 9,000 | 30" |
| | 40 | 343343 | 1,4,5 | F30T12DLHO/M | Daylight HO Major | 24 | 6500 | 79 | 1920 | 9,000 | 30" |
| | 50 | 262865 | 1,4,5 | F36T12CWHO/M | Cool White HO Major | 30 | 4100 | 62 | 2800 | 9,000 | 36" |
| | 50 | 262907 | 1,4,5 | F36T12DLHO/M | Daylight HO Major | 30 | 6500 | 79 | 2500 | 9,000 | 36" |
| | 55 | 810559 | 1,4,5 | F42CWHO/M | Cool White HO Major | 30 | 4100 | 62 | 3400 | 9,000 | 42" |
| | 55 | 810560 | 1,4,5 | F42DLHO/M | Daylight HO Major | 30 | 6500 | 79 | 3000 | 9,000 | 42" |
| | 60 | 369785 | 1,4,5 | F48CWHO/M | Cool White HO Low Mercury Major | 15 | 4100 | 62 | 4050 | 12,000 | 48" |
| | 60 | 369843 | 1,4,5 | F48DLHO/M | Daylight HO Low Mercury Major | 15 | 6500 | 79 | 3400 | 12,000 | 48" |
| | 75 | 251260 | 1,4,5 | F60CWHO/M | Cool White HO Major | 30 | 4200 | 62 | 5200 | 12,000 | 60" |
| | 75 | 825120 | 1,4,5 | F60DLHO/M | Daylight HO Major | 30 | 6500 | 76 | 4600 | 12,000 | 60" |
| | 80 | 823083 | 1,4,5 | F64CWHO/M | Cool White HO Major | 15 | 4100 | 60 | 5600 | 12,000 | 64" |
| | 80 | 823087 | 1,4,5 | F64DLHO/M | Daylight HO Major | 15 | 6500 | 75 | 4750 | 12,000 | 64" |
| | 85 | 366518 | 1,4,5 | F72CWHO/M | Cool White HO Low Mercury Major | 15 | 4100 | 62 | 6350 | 12,000 | 72" |

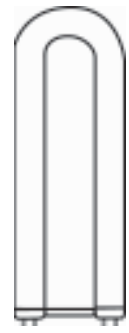
To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.

Ⓔ Means this lamp meets Federal Minimum Efficiency standards.

Fluorescent Tube symbols, footnotes, and abbreviations located on page 65.



Recessed D.C.



T-8/T-12
U-Bend

| Bulb | Watts | Product Number | Footnotes | Product Code | Description | Inner/Master | Color Temp. | CRI | Initial Lumens | Avg. Life | Nom. Length |
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|

High Output Lamps (800MA) - Recessed DC Base (cont'd)

| | | | | | | | | | | | |
|-----|-----|--------|---------|---------------|--|----|------|----|------|--------|-----|
| T12 | 85 | 366534 | 1,4,5 | F72DLHO/M | Daylight HO Low Mercury Major | 15 | 6500 | 79 | 5600 | 12,000 | 72" |
| | 100 | 813766 | 1,4,5 | F84CWHO/M | Cool White HO Major | 15 | 4100 | 62 | 7800 | 12,000 | 84" |
| | 100 | 813767 | 1,4,5 | F84DLHO/M | Daylight HO Major | 15 | 6500 | 76 | 6700 | 12,000 | 84" |
| | 110 | 392639 | 1,4,5 | F96ABHO | Arctic Brite HO Low Mercury | 15 | 5100 | 82 | 6885 | 12,000 | 96" |
| | 110 | 402600 | 1,4,5,6 | F96CWHOO/ECO | Cool White HO Low Mercury ProLume® Eco-Shield™ | 15 | 4150 | 62 | 8800 | 12,000 | 96" |
| | 95 | 402640 | Ⓜ,1,4,5 | F96CWHOES/ECO | Cool White HO ES ProLume® Eco-Shield™ | 15 | 4150 | 62 | 8000 | 12,000 | 96" |
| | 110 | 381774 | 1,4,5,6 | F96DLHOO/A | Daylight HO-O Low Mercury Major | 15 | 6500 | 79 | 7800 | 12,000 | 96" |
| | 110 | 274233 | Ⓜ,1,4,5 | F96T50HO | Triten 50 HO | 15 | 5000 | 85 | 9675 | 12,000 | 96" |

Very High Output Lamps (1500MA) - Recessed DC Base

| | | | | | | | | | | | |
|-----|-----|--------|-------|------------|----------------------|----|------|----|-------|--------|-----|
| T12 | 110 | 810751 | 1,4,5 | F48CWHVO/M | Cool White VHO Major | 24 | 4100 | 60 | 6200 | 10,000 | 48" |
| | 160 | 813760 | 1,4,5 | F72CWHVO/M | Cool White VHO Major | 15 | 4100 | 62 | 7850 | 10,000 | 72" |
| | 215 | 342345 | 1,4,5 | F96CWHVO/M | Cool White VHO Major | 15 | 4200 | 62 | 14000 | 10,000 | 96" |

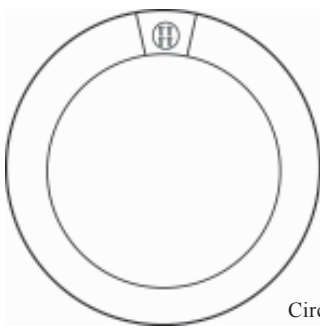
U-Bend Rapid Start - Medium Bi-Pin Base

| | | | | | | | | | | | |
|-----|----|--------|------------|----------------|-----------------------------|----|------|----|------|--------|-------|
| T8 | 31 | 821877 | Ⓜ,\$,2,3 | FB31/830/M | 830 Phosphor 1-5/8" Major | 15 | 3000 | 82 | 2725 | 20,000 | 22.5" |
| | 31 | 821878 | Ⓜ,\$,2,3 | FB31/835/M | 835 Phosphor 1-5/8" Major | 15 | 3500 | 82 | 2725 | 20,000 | 22.5" |
| | 31 | 821879 | Ⓜ,\$,2,3 | FB31/841/M | 841 Phosphor 1-5/8" Major | 15 | 4100 | 82 | 2725 | 20,000 | 22.5" |
| | 32 | 109500 | Ⓜ,Ⓜ,\$,2,3 | FB32/730/6/ECO | 730 ProLume® Eco-Shield™ | 20 | 3000 | 75 | 2650 | 20,000 | 22.5" |
| | 32 | 109502 | Ⓜ,Ⓜ,\$,2,3 | FB32/735/6/ECO | 735 ProLume® Eco-Shield™ | 20 | 3500 | 75 | 2650 | 20,000 | 22.5" |
| | 32 | 109504 | Ⓜ,Ⓜ,\$,2,3 | FB32/741/6/ECO | 741 ProLume® Eco-Shield™ | 20 | 4100 | 75 | 2650 | 20,000 | 22.5" |
| | 32 | 109506 | Ⓜ,Ⓜ,\$,2,3 | FB32/750/6/ECO | 750 ProLume® Eco-Shield™ | 20 | 5000 | 75 | 2650 | 20,000 | 22.5" |
| | 32 | 109812 | Ⓜ,Ⓜ,\$,2,3 | FB32/830/6/ECO | 830 ProLume® Eco-Shield™ | 20 | 3000 | 85 | 2550 | 20,000 | 22.5" |
| | 32 | 109814 | Ⓜ,Ⓜ,\$,2,3 | FB32/835/6/ECO | 835 ProLume® Eco-Shield™ | 20 | 3500 | 85 | 2800 | 20,000 | 22.6" |
| | 32 | 109816 | Ⓜ,Ⓜ,\$,2,3 | FB32/841/6/ECO | 841 ProLume® Eco-Shield™ | 20 | 4100 | 85 | 2550 | 20,000 | 22.6" |
| | 32 | 109818 | Ⓜ,Ⓜ,\$,2,3 | FB32/850/6/ECO | 850 ProLume® Eco-Shield™ | 20 | 5000 | 85 | 2750 | 20,000 | 22.6" |
| T12 | 34 | 812199 | Ⓜ,1,3 | FB34CWU3ES/M | Cool White 3" Major | 12 | 4100 | 60 | 2200 | 14,000 | 22.5" |
| | 34 | 378696 | Ⓜ,1,3 | FB34CWU6/ES | Cool White 6" ProLume® | 12 | 4100 | 62 | 2500 | 14,000 | 22.5" |
| | 34 | 378698 | Ⓜ,1,3 | FB34WWU6/ES | Warm White 6" ProLume® | 12 | 3000 | 54 | 2500 | 14,000 | 22.5" |
| | 40 | 230375 | Ⓜ,1,3 | FB40ABU6 | Arctic Brite 6" | 12 | 5100 | 82 | 2285 | 14,000 | 22.5" |
| | 40 | 219931 | 1,3 | FB40DX/6/M | Daylight 6" Major | 12 | 6500 | 84 | 2250 | 18,000 | 22.5" |
| | 40 | 445940 | Ⓜ,1,3 | FB40SLU6 | Spectralite 6" | 12 | 5900 | 90 | 1980 | 14,000 | 22.5" |
| | 40 | 378588 | Ⓜ,1,3 | FB40/TRI50 | 850 Phosphor 6" Low Mercury | 12 | 5000 | 84 | 3150 | 14,000 | 22.5" |
| | 40 | 814227 | Ⓜ,1,3 | FB40/735/6/M | 735 Phosphor 6" Major | 12 | 3500 | 73 | 3050 | 14,000 | 22.5" |
| | 40 | 815265 | Ⓜ,1,3 | FB40/741/6/M | 741 Phosphor 6" Major | 12 | 4100 | 72 | 3050 | 14,000 | 22.5" |

To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.

Ⓜ Means this lamp meets Federal Minimum Efficiency standards.

Fluorescent Tube symbols, footnotes, and abbreviations located on page 65.



Circline



Medium Bi-Pin

| Bulb | Watts | Product Number | Footnotes | Product Code | Description | Inner/Master | Color Temp. | CRI | Initial Lumens | Avg. Life | Nom. Length |
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|
|------|-------|----------------|-----------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|

Circline Rapid Start - 4-Pin

| | | | | | | | | | | | |
|----|----|--------|---|-----------------|-------------------------|----|------|----|------|--------|-----|
| T9 | 22 | 109040 | 1 | FC8T9CW | Cool White 8" ProLume® | 12 | 4200 | 57 | 1040 | 10,000 | 8" |
| | 32 | 109050 | 1 | FC12T9CW | Cool White 12" ProLume® | 12 | 4200 | 57 | 2050 | 10,000 | 12" |
| | 40 | 109060 | 1 | FC16T9CW | Cool White 16" ProLume® | 12 | 4200 | 62 | 2750 | 12,000 | 16" |

Circline Program Start - T-5

| | | | | | | | | | | | |
|----|----|--------|----------|-------------------|--------------|----|------|----|------|-------|-----|
| T5 | 22 | 109080 | †,\$,2,7 | FC22T5/835 | 9" ProLume® | 12 | 3500 | 80 | 1400 | 8,000 | 9" |
| | 22 | 109082 | †,\$,2,7 | FC22T5/841 | 9" ProLume® | 12 | 4100 | 80 | 1400 | 8,000 | 9" |
| | 40 | 109084 | †,\$,2,7 | FC40T5/835 | 12" ProLume® | 12 | 3500 | 80 | 2800 | 8,000 | 12" |
| | 40 | 109086 | †,\$,2,7 | FC40T5/841 | 12" ProLume® | 12 | 4100 | 80 | 2800 | 8,000 | 12" |

Appliance Lamps - Medium Bi-Pin Base

| | | | | | | | | | | | |
|-----|----|--------|-----|--------------------|-------------------------|----|------|----|------|-------|-----|
| T8 | 18 | 109234 | †,2 | F18T8CW/K24 | Cool White 24" ProLume® | 30 | 4100 | 62 | 1175 | 7,500 | 24" |
| | 18 | 810702 | 2 | F18T8CW/K26 | Cool White 26" Major | 24 | 4200 | 62 | 1280 | 7,500 | 26" |
| | 18 | 817704 | 2 | F18T8CW/K28 | Cool White 28" Major | 24 | 4200 | 62 | 1360 | 7,500 | 28" |
| | 18 | 810349 | 2 | F18T8CW/K30 | Cool White 30" Major | 24 | 4200 | 62 | 1400 | 7,500 | 30" |
| T12 | 25 | 810280 | 1 | F25T12CW/28 | Cool White 28" Major | 6 | 4200 | 62 | 1670 | 7,500 | 28" |
| | 25 | 838201 | 1 | F25T12CW/33 | Cool White 33" Major | 6 | 4200 | 62 | 1850 | 7,500 | 33" |

Blacklight & Blacklight Blue Lamps

| | | | | | | | | | | | |
|-----|----|--------|-----|------------------|--------------------------|--------|---|---|---|--------|-----|
| T4 | 8 | 109206 | 1 | F8T5BLB | Blacklight Blue ProLume® | 10/500 | - | - | - | 5,000 | 12" |
| T8 | 15 | 314369 | 2 | F15T8BL/M | Blacklight Major | 6 | - | - | - | 7,500 | 18" |
| T12 | 40 | 109490 | 1 | F40BLB | Blacklight Blue ProLume® | 6 | - | - | - | 20,000 | 48" |
| | 40 | 109480 | †,1 | F40/350BL | Blacklight ProLume® | 6 | - | - | - | 20,000 | 48" |

Germicidal

| | | | | | | | | | | | |
|----|----|--------|-----|--------------|-------------|------|---|---|---|-------|-----|
| T5 | 8 | 299305 | 2,7 | G8T5 | Clear Major | 1/25 | - | - | - | 8,000 | 12" |
| T8 | 15 | 308643 | 2 | G15T8 | Clear Major | 1/25 | - | - | - | 8,000 | 18" |

To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.

Ⓢ Means this lamp meets Federal Minimum Efficiency standards.

| Bulb | Watts | Product Number | Product Code | Description | Inner/Master | Color Temp. | CRI | Initial Lumens | Avg. Life | Nom. Length |
|------|-------|----------------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|
|------|-------|----------------|--------------|-------------|--------------|-------------|-----|----------------|-----------|-------------|

Fluorescent Ballasts

Electronic

| | | | | | | | | | | |
|----|---|--------|------------------------|-------------------------|----|---|---|---|---|---|
| T8 | - | 209602 | BL232IS/120 | F32 2-Lamp 120V | 10 | - | - | - | - | - |
| | - | 209604 | BL232IS/277 | F32 2-Lamp 277V | 10 | - | - | - | - | - |
| | - | 209614 | BL232IS/120-277 | F32 2-Lamp DualVoltage | 10 | - | - | - | - | - |
| | - | 209606 | BL432IS/120 | F32 4-Lamp 120V | 10 | - | - | - | - | - |
| | - | 209608 | BL432IS/277 | F32 4-Lamp 277V | 10 | - | - | - | - | - |
| | - | 209616 | BL432IS/120-277 | F32 4-Lamp Dual Voltage | 10 | - | - | - | - | - |
| | - | 209610 | BL259IS/120 | F96 2-Lamp 120V | 10 | - | - | - | - | - |

Electromagnetic

| | | | | | | | | | | |
|-----|---|--------|--------------------|--------------------|----|---|---|---|---|---|
| T12 | - | 209570 | BL240/120 | F40 2-Lamp 120V | 10 | - | - | - | - | - |
| | - | 209572 | BL240/277 | F40 2-Lamp 277V | 10 | - | - | - | - | - |
| | - | 209576 | BL296/120 | F96 2-Lamp 120V | 6 | - | - | - | - | - |
| | - | 209580 | BL296HO/120 | F96 HO 2-Lamp 120V | 4 | - | - | - | - | - |
| | - | 209578 | BL296/277 | F96 2-Lamp 277V | 6 | - | - | - | - | - |

To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.

Ⓜ Means this lamp meets Federal Minimum Efficiency standards.

Linear Symbols, Footnotes, and Abbreviations

| SYMBOLS | |
|---------------|--|
| h | Exclusive to Halco Lighting. |
| † | New product introduced within the past year. |
| \$ | Energy saving product. |
| Ⓔ | This lamp meets Federal Minimum Efficiency standards. |
| ♻️ | ProLume® Eco-Shield™ Low-Mercury fluorescent lamps pass the Federal TCLP for hazardous wastes. |
| FOOTNOTES | |
| 1 | Average life under specified test conditions with lamps turned off and restarted every three hours. Lamp life is longer if lamps are started less frequently. |
| 2 | Commercial average life under specified test conditions with lamps turned off and restarted every 12 hours. Lamp life is longer if lamps are started less frequently. |
| 3 | Nominal length is measured from face of base to maximum distant outside point of U-bend. Leg spacing measured center to center is approximately 6" for /6 product, 3-5/8" for /3 product and 1-5/8" for FB31 product. |
| 4 | Initial lumens are based on 800ma. operation. For 1000ma. operation, lumens are approximately 10% higher and watts approximately 15% higher. |
| 5 | This energy saving lamp is only recommended for use on high power factor lead, indoor ballasts that meet ANSI standards. The lamp is not recommended for use in drafty areas or locations where the ambient temperature drops below 60°F, except as noted. Do not operate on low power factor ballasts, reduced light or reduced current ballasts, dimming ballasts or emergency system inverter ballasts. |
| 6 | Meets the National Energy Policy Act (EPACT) of 1992 exemption for outdoor or cold temperature applications only. |
| 7 | Lamp designed for use with Programmed Start ballast. Lamp operates at 170ma. Minimum starting temperature is -15°F, with peak operating temperature at 95°F. |
| ABBREVIATIONS | |
| /730 | Suffix used to indicate lamps with CRI of 70+ and color temperature of 3000°K. |
| /735 | Suffix used to indicate lamps with CRI of 70+ and color temperature of 3500°K. |
| /741 | Suffix used to indicate lamps with CRI of 70+ and color temperature of 4100°K. |
| /750 | Suffix used to indicate lamps with CRI of 70+ and color temperature of 5000°K. |
| /765 | Suffix used to indicate lamps with CRI of 70+ and color temperature of 6500°K. |
| /830 | Suffix used to indicate lamps with CRI of 80+ and color temperature of 3000°K. |
| /835 | Suffix used to indicate lamps with CRI of 80+ and color temperature of 3500°K. |
| /841 | Suffix used to indicate amps with CRI of 80+ and color temperature of 4100°K. |
| /850 | Suffix used to indicate amps with CRI of 80+ and color temperature of 5000°K. |
| /865 | Suffix used to indicate lamps with CRI of 80+ and color temperature of 6500°K. |
| /950 | Suffix used to indicate lamps with CRI of 90+ and color temperature of 5000°K. |
| /955 | Suffix used to indicate lamps with CRI of 90+ and color temperature of 5550°K. |
| /975 | Suffix used to indicate lamps with CRI of 90+ and color temperature of 7500°K. |
| AB | Code abbreviation for Artic Brite lamps. |
| BL | Code abbreviation for Blacklight lamps. |
| BLB | Code abbreviation for Blacklight Blue lamps. |
| CW | Code abbreviation for Cool White lamps. |
| CWX | Code abbreviation for ProLume® Cool White Deluxe lamps. |
| DL | Code abbreviation for Daylight lamps. |
| DX | Code abbreviation for ProLume® Daylight Deluxe lamps. |
| /ECO | Suffix used to indicate Eco-Shield™ lamps. |
| /ES | Suffix used to indicate ProLume® Energy Saving fluorescent lamps. |
| FB | Code abbreviation for Fluorescent U-Bend lamps. |
| FC | Code abbreviation for Fluorescent Circline lamps. |
| HO | Suffix used to indicate High Output lamps. |
| /HOO | Suffix used to indicate High Output Outside lamps. |
| IS | Code abbreviation for Instant Start lamps. |
| M | Suffix used to indicate a Major brand Fluorescent lamps (GE, Philips, Osram/Sylvania). |
| NL | Code abbreviation for Natural Light lamps. |
| /SGD | Suffix used to indicate Shatter Guard lamps. |
| SL | Code abbreviation for Spectralite lamps. |
| T50 | Code abbreviation for Triten50 lamps. |
| VHO | Suffix used to indicate Very High Output lamps. |
| WW | Code abbreviation for Warm White lamps. |

Lined area for notes, consisting of numerous horizontal green lines.