

ELECTRONIC FLUORESCENT

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PRODUCT OVERVIEW

Your Premier Lighting Ballast Solution

Ultrasave offers electronic ballasts for a wide range of applications, including ballasts for T4 (CFL), T5/T5HO, T8/T8HO, and T12/T12HO fluorescent lamps. Our products exhibit outstanding performance and are characterized by high power factor, low total harmonic distortion, sound rating A, and high frequency operation. All of our ballasts are cULus listed, class P, type 1 outdoor, and comply with ANSI C82.11 and/or C62.41 (where applicable), and FCC Part 18 Class A for EMI & RFI.

Product Profile & Design Highlights

T8 / T8HO ELECTRONIC BALLASTS

Ultrasave offers a comprehensive line of energy efficient electronic ballasts for T8 linear fluorescent lamps.



MINI CAN SIZE : UT-T8 SERIES / PR-T8 SERIES

- Instant start, rapid start or programmed start configurations
- Dedicated or multiple input voltage options
- 1, 2, 3, 4, or 6-lamp, T8 32/25/17 watt lamp types
- Also operates 30/28/25 watt energy saving T8 lamps
- Multiple lamp operation with one ballast
- <10% THD and >0.99 PF
- Available in high, normal, and low ballast factor options
- Lightweight and compact size
- Meet requirements of most Canadian hydro operated energy efficiency rebate programs and CEE high performance T8 lighting system specifications

- Also operates 30/28/25 watt energy saving T8 lamps
- 20% THD and >0.97 PF
- Packed in convenient 10 packs for distribution market

PR-T8 DIMMING SERIES

- Programmed start ignition
- Dims to 5%
- Compatible with a wide range of 0-10V DC controllers
- Multiple input voltage
- <10% THD and >0.99 PF at full output
- Lamp end-of-life protection circuit
- Poke-in connectors

MICRO CAN SIZE : ST-T8 SERIES / SR-T8 SERIES

- Instant start or programmed rapid start configurations
- Dedicated input voltage
- 1, 2-lamp, T8 32/25 watt lamp types
- Also operates 30/28/25 watt energy saving T8 lamps
- <10% THD and >0.99 PF
- Lightweight and compact size
(0.66 lbs, 9.50" L x 1.30" W x 1.10" H)
- Auto-restart feature
- Lamp end-of-life protection circuit

APPLICATIONS

- Commercial Office Buildings
- Conference Rooms
- Schools
- Boardrooms

CERTIFICATIONS

- Underwriters Laboratories (cULus) Listed
- Complies with ANSI Standard C82.11 and C62.41 (where applicable)
- Meets FCC Part 18 Class A for EMI & RFI (Non-Consumer Limits)
- Does not contain Polychlorinated Biphenyl (PCBs)
- Class P Type 1 Outdoor, Type HL
- RoHS Compliant

DISTRIBUTOR 10 PACK : GT SERIES

- Instant start lamp ignition
- Dedicated input voltage
- 1, 2, 3, or 4-lamp, T8 32/25 watt lamp types



PRODUCT OVERVIEW

T8 HIGH EFFICIENCY PROGRAMMED START ELECTRONIC BALLASTS

Ultrasave's high efficiency T8 line is engineered with programmed start technology, prolonging lamp life in frequent on-off applications. Parallel lamp connection in these ballasts keeps remaining lamps lit should one of them fail. Designed to maximize energy savings, these ballasts offer the same light output as standard T8 electronic ballasts, while reducing energy costs. The ballasts also meet CEE high performance T8 lighting system specifications. They are ideal for applications with frequent switching, helping businesses conserve energy and save significantly on lighting costs.



- Programmed start lamp ignition
- Multiple lamp capability
- 1, 2, 3, 4-lamp, T8 32/25/17 watt lamp types
- Also operates 30/28/25 watt energy saving T8 lamps
- Dedicated or multiple input voltage options
- <10% THD and >0.99 PF
- Parallel lamp operation
- Designed to be used with occupancy sensors
Rated average lamp life of 50,000 cycles
- Longer lamp life by heating the lamp filament efficiently during startup
- Lamp striation reduction technology in energy-saving lamps
- Hot restrike in remote tandem wiring applications
- Fast starting time of 0.7 seconds

APPLICATIONS

- Auditoriums
- Supply Areas
- Conference Rooms
- Restrooms

CERTIFICATIONS

- Underwriters Laboratories (cULus) Listed
- Complies with ANSI Standard C82.11 and C62.41 (where applicable)
- Meets FCC Part 18 Class A for EMI & RFI (Non-Consumer Limits)
- Does not contain Polychlorinated Biphenyl (PCBs)
- Class P Type 1 Outdoor, Type HL
- RoHS Compliant



PRODUCT OVERVIEW

T5 / T5HO ELECTRONIC BALLASTS

Ultrasave's broad line of electronic ballasts for T5 and T5HO linear fluorescent lamps offers proven performance, reliability, flexibility and energy savings. All of our T5 and T5HO ballasts are designed with a lamp end-of-life protection circuit, a safety feature that automatically shuts off power as the lamp approaches its EOL, thereby preventing overheating and protecting the ballast.



STANDARD OUTPUT : ST-T5 SERIES / SR-T5 SERIES

- Instant start or programmed start configurations
- Dedicated input voltage
- <10% THD and >0.99 PF
- 1, 2-lamp, T5 28 watt lamp types
- Lightweight and compact size
(0.66 lbs, 9.50" L x 1.30" W x 1.10" H)
- Auto-restart feature

ER-T5 STANDARD SERIES

- Programmed start lamp ignition
- Multiple input voltage
- Multiple (1 or 2 & 3 or 4) lamp operation with one ballast
- 14/21/28/35 watt lamp types
- <10% THD and >0.99 PF
- Lightweight and low profile
- 90°C case temperature rating
- Wire or poke-in connection options
- Auto-restart feature

ER-T5HO SERIES

- Ideal for high bay fixtures
- Programmed start lamp ignition
- Dedicated or multiple input voltage options
- Multiple (1 or 2 & 3 or 4) lamp operation with one ballast
- 24/39/54/80 watt, Biax/PL-L lamp types
- <10% THD and >0.99 PF
- 90°C case temperature rating
- Wire or poke-in connectors options
- Auto-restart feature
- Available in 4-2 lamps switching

APPLICATIONS

- Specialty Stores
- Department Stores
- Hotels
- Restaurants
- Warehouses
- Factories
- Gyms
- Superstores

CERTIFICATIONS

- Underwriters Laboratories (cULus) Listed
- Complies with ANSI Standard C82.11 and C62.41 (where applicable)
- Meets FCC Part 18 Class A for EMI & RFI (Non-Consumer Limits)
- Does not contain Polychlorinated Biphenyl (PCBs)
- Class P Type 1 Outdoor, Type HL
- RoHS Compliant



PRODUCT OVERVIEW

LINEAR T12/T12HO ELECTRONIC BALLASTS

Ultrasave's ballast family for T12 and T12HO linear fluorescent lamps is designed to replace magnetic T12 ballasts affected by the new federal ballast efficiency ruling, effective April 1, 2005. These energy efficient electronic ballasts not only exceed the ballast efficiency requirements, but also generate up to 20% in energy savings compared to their magnetic counterparts. The same wiring configuration makes converting from a magnetic fixture to an electronic one simple and effortless. In addition, they are lighter, smaller, quieter, and offer longer warranty coverage than traditional magnetic ballasts.



GR-T12 SERIES

- Rapid start
- Dedicated input voltage
- Lightweight and compact size

PR-T12HO SERIES

- Rapid start
- Dedicated or multiple input voltage options
- Multiple (1 or 2) lamp operation with one ballast
- Lightweight and compact size
- Minimum starting temperature -20°F / -29°C

UT-T12 SLIMLINE SERIES

- Designed for use with single-pin slimline lamps
- Instant start
- Dedicated or multiple input voltage options
- Multiple (1 or 2) lamp operation with one ballast
- Lightweight and compact size
- Parallel lamp operation

APPLICATIONS

- Auditoriums
- Classrooms
- Offices
- Kitchens
- Dining Areas

CERTIFICATIONS

- Underwriters Laboratories (cULus) Listed
- Complies with ANSI Standard C82.11 and C62.41 (where applicable)
- Meets FCC Part 18 Class A for EMI & RFI (Non-Consumer Limits)
- Does not contain Polychlorinated Biphenyl (PCBs)
- Class P Type 1 Outdoor, Type HL
- RoHS Compliant



PRODUCT OVERVIEW

CFL ELECTRONIC BALLASTS

Ultrasave's extensive line of electronic ballasts for compact fluorescent lamps offers maximum application flexibility, operating 1 or 2 CFL 13/18/26/32/42 watt lamp types, as well as twin tube, PL-H, quad and triple tube, circline, 2D, long twin tube (Biax/PL-L) lamps.



- Programmed start lamp ignition
- Multiple 1 or 2 lamp capability, CFL 13/18/26/32/42 watt lamp types
- Also operates twin tube, PL-H, quad and triple tube, circline, 2D, long twin tube (Biax/PL-L) lamps
- Multiple input voltage
- <10% THD and >0.99 PF
- High case temperature (maximum 90°C)
- Bottom or dual (side and bottom) lead exit options
- Lamp end-of-life protection circuit
- Auto-restart feature
- Lightweight and compact size

CFL KIT FOR REPLACEMENT

The CFL kit for replacement and retrofit needs contains dual exit ballast lead wire connectors that accommodates side and bottom lead exit requirements. The mounting bracket adds bottom-exit studs and provides additional flexibility.

KIT CONTAINS:

- Dual-lead ballast
- Mounting bracket
- Lead wire set and extraction tool
- Instructions
- Additional mounting screw

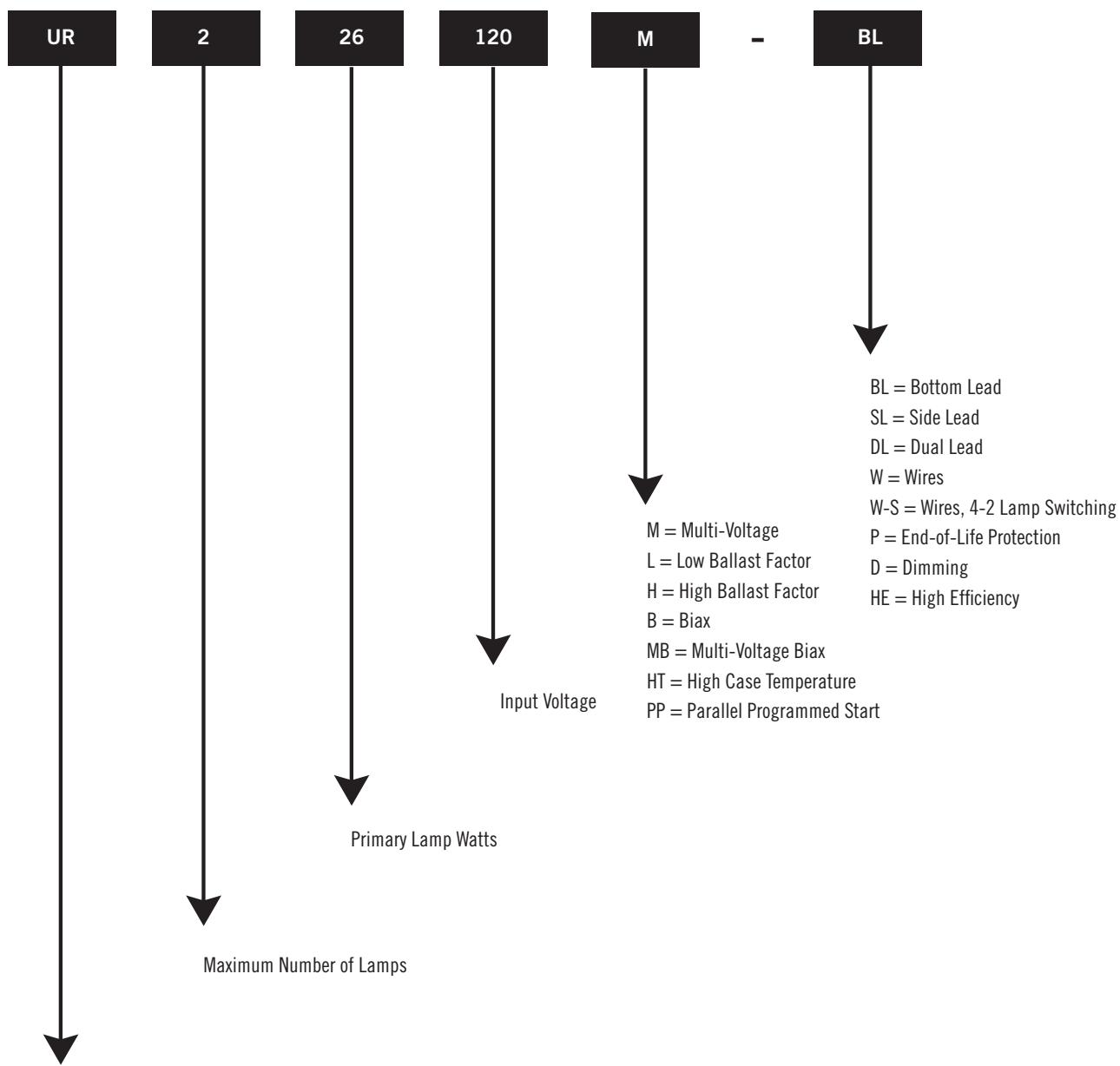
APPLICATIONS

- Theatres
- Ballrooms
- Hotel Foyers
- Lobbies
- Hallways
- Atriums

CERTIFICATIONS

- Underwriters Laboratories (cULus) Listed
- Complies with ANSI Standard C82.11 and C62.41 (where applicable)
- Meets FCC Part 18 Class A for EMI & RFI (Non-Consumer Limits)
- Does not contain Polychlorinated Biphenyl (PCBs)
- Class P Type 1 Outdoor, Type HL
- RoHS Compliant

MODEL NUMBER BREAKDOWN



ER = Programmed Start (T5 linear / Biax)

eT = Instant Start (T8 linear)

GR = Rapid Start (T12 linear)

GT = Instant Start (T8 linear)

GTL = Instant Start (T8 linear - for residential use)

PR = Mini Can, Rapid Start / Programmed Start (T8 linear / Biax / dimming / T12HO)

SR = Micro Can, Programmed Start (T5, T8 linear)

ST = Micro Can, Instant Start (T5, T8 linear)

UR = Programmed Start (CFL / Biax)

UT = Mini Can, Instant Start (T8 linear / Biax / T12 Slimline)

For F17T8 Lamps

T8

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F17T8 | | | | | | | | | | | | |
| 1 | 120 | IS | GTL132120 * | 0 / -18 | 0.28 | 16 | 0.93 | 150 | 0.50 | 5.81 | 1 | 1 |
| 1 | 120 | IS | GTL232120 * | 0 / -18 | 0.36 | 19 | 1.03 | 160 | 0.50 | 5.42 | 1 | 1 |
| 1 | 120 | IS | UT132120 | 0 / -18 | 0.16 | 19 | 0.93 | 10 | 0.99 | 4.89 | 1 | 1 |
| 1 | 120 | IS | UT132120L | 0 / -18 | 0.14 | 17 | 0.75 | 10 | 0.99 | 4.41 | 1 | 1 |
| 1 | 120 | IS | UT232120 | 0 / -18 | 0.18 | 22 | 1.07 | 15 | 0.95 | 4.86 | 1 | 12 |
| 1 | 120 | IS | UT232120L-HE | 0 / -18 | 0.15 | 18 | 1.01 | 10 | 0.99 | 5.58 | 1 | 12 |
| 1 | 120 | RS | PR132120 | 32 / 0 | 0.19 | 22 | 0.97 | 10 | 0.99 | 4.41 | 1 | 6 |
| 1 | 120 | RS | PR232120 | 32 / 0 | 0.21 | 25 | 0.94 | 10 | 0.99 | 3.92 | 1 | 11 |
| 1 | 347 | IS | UT132347 | 0 / -18 | 0.06 | 20 | 0.93 | 15 | 0.98 | 4.65 | 1 | 1 |
| 1 | 347 | IS | UT132347L | 0 / -18 | 0.06 | 20 | 0.76 | 30 | 0.97 | 3.80 | 1 | 1 |
| 1 | 347 | IS | UT232347 | 0 / -18 | 0.07 | 22 | 1.07 | 15 | 0.95 | 4.86 | 1 | 12 |
| 1 | 347 | IS | UT232347L | 0 / -18 | 0.06 | 19 | 0.88 | 25 | 0.95 | 4.63 | 1 | 12 |
| 1 | 347 | IS | UT232347-HE | 0 / -18 | 0.06 | 21 | 1.03 | 20 | 0.95 | 4.90 | 1 | 12 |
| 1 | 347 | RS | PR132347 | 32 / 0 | 0.07 | 23 | 0.95 | 15 | 0.99 | 4.13 | 1 | 6 |
| 1 | 347 | RS | PR232347 | 32 / 0 | 0.09 | 25 | 0.94 | 15 | 0.99 | 3.76 | 1 | 11 |
| 1 | 347 | PS | PR232347-PP-HE | 0 / -18 | 0.08 | 24 | 1.05 | 10 | 0.99 | 4.38 | 1 | 14 |
| 1 | 120 | IS | UT132120M | 0 / -18 | 0.16 | 19 | 0.93 | 10 | 0.99 | 4.89 | 1 | 1 |
| 1 | 277 | IS | | 0.07 | | | | | | | | |
| 1 | 120 | IS | eT232120M | 0 / -18 | 0.17 | | | | | | | |
| 1 | 277 | IS | | 0.08 | | | | | | | | |
| 1 | 120 | IS | UT232120M | 0 / -18 | 0.18 | 22 | 1.07 | 15 | 0.95 | 4.86 | 1 | 12 |
| 1 | 277 | IS | | 0.08 | | | | | | | | |
| 1 | 120 | IS | UT232120ML | 0 / -18 | 0.16 | 19 | 0.82 | 20 | 0.95 | 4.32 | 1 | 12 |
| 1 | 277 | IS | | 0.07 | | | | | | | | |
| 1 | 120 | IS | UT232120M-HE | 0 / -18 | 0.17 | 20 | 1.06 | 15 | 0.99 | 5.30 | 1 | 12 |
| 1 | 277 | IS | | 0.08 | | | | | | | | |
| 1 | 120 | IS | UT232120ML-HE | 0 / -18 | 0.16 | 19 | 0.89 | 10 | 0.99 | 4.68 | 1 | 12 |
| 1 | 277 | IS | | 0.07 | | | | | | | | |
| 1 | 120 | RS | PR132120M | 32 / 0 | 0.19 | 22 | 0.97 | 10 | 0.99 | 4.41 | 1 | 6 |
| 1 | 277 | RS | | 0.08 | | | | | | | | |
| 1 | 120 | RS | PR232120M | 32 / 0 | 0.21 | 25 | 0.94 | 15 | 0.98 | 3.76 | 1 | 11 |
| 1 | 277 | RS | | 0.09 | | | | | | | | |
| 1 | 120 | PS | PR232120M-PP-HE | 0 / -18 | 0.20 | 24 | 1.10 | 10 | 0.99 | 4.58 | 1 | 14 |
| 1 | 277 | PS | | 0.10 | | | | | | | | |

*FOR RESIDENTIAL USE ONLY

T8

For F17T8 Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 2-LAMP F17T8 | | | | | | | | | | | | |
| 2 | 120 | IS | GTL232120 * | 0 / -18 | 0.50 | 29 | 0.87 | 160 | 0.50 | 3.00 | 1 | 2 |
| 2 | 120 | IS | ST132120 | 0 / -18 | 0.26 | 31 | 0.88 | 10 | 0.99 | 2.84 | 2 | 2 |
| 2 | 120 | IS | ST232120E | 32 / 0 | 0.31 | 37 | 1.07 | 10 | 0.98 | 2.89 | 2 | 2 |
| 2 | 120 | IS | UT232120 | 0 / -18 | 0.28 | 33 | 0.93 | 15 | 0.97 | 2.82 | 1 | 2 |
| 2 | 120 | IS | UT232120L-HE | 0 / -18 | 0.24 | 29 | 0.83 | 10 | 0.99 | 2.87 | 1 | 2 |
| 2 | 120 | IS | UT332120 | 0 / -18 | 0.30 | 36 | 1.05 | 15 | 0.97 | 2.92 | 1 | 18 |
| 2 | 120 | RS | PR232120 | 32 / 0 | 0.31 | 38 | 0.93 | 10 | 0.99 | 2.45 | 1 | 7 |
| 2 | 347 | IS | UT232347 | 0 / -18 | 0.10 | 33 | 0.93 | 15 | 0.97 | 2.82 | 1 | 2 |
| 2 | 347 | IS | UT232347L | 0 / -18 | 0.08 | 28 | 0.79 | 15 | 0.97 | 2.82 | 1 | 2 |
| 2 | 347 | IS | UT332347L | 0 / -18 | 0.10 | 34 | 0.91 | 10 | 0.99 | 2.68 | 1 | 18 |
| 2 | 347 | IS | UT232347-HE | 0 / -18 | 0.09 | 33 | 0.91 | 15 | 0.98 | 2.76 | 1 | 2 |
| 2 | 347 | RS | PR232347 | 32 / 0 | 0.13 | 38 | 0.95 | 15 | 0.99 | 2.50 | 1 | 7 |
| 2 | 347 | PS | PR232347-PP-HE | 0 / -18 | 0.11 | 36 | 0.94 | 10 | 0.99 | 2.61 | 1 | 13 |
| 2 | 120 | IS | eT232120M | 0 / -18 | 0.28 0.12 | 33 | 0.95 | 10 | 0.99 | 2.88 | 4 | 2 |
| 2 | 277 | IS | UT232120M | 0 / -18 | 0.28 0.12 | 33 | 0.93 | 15 | 0.97 | 2.82 | 1 | 2 |
| 2 | 120 | IS | UT232120ML | 0 / -18 | 0.24 0.11 | 29 | 0.73 | 15 | 0.98 | 2.52 | 1 | 2 |
| 2 | 277 | IS | UT232120M-HE | 0 / -18 | 0.26 0.12 | 31 | 0.90 | 10 | 0.99 | 2.90 | 1 | 2 |
| 2 | 120 | IS | UT232120ML-HE | 0 / -18 | 0.23 0.10 | 28 | 0.79 | 10 | 0.99 | 2.82 | 1 | 2 |
| 2 | 277 | IS | eT332120M | 0 / -18 | 0.32 0.14 | 38 | 1.05 | 10 | 0.99 | 2.76 | 1 | 18 |
| 2 | 120 | IS | UT332120M | 0 / -18 | 0.30 0.13 | 36 | 1.05 | 15 | 0.97 | 2.92 | 1 | 18 |
| 2 | 277 | IS | UT332120ML | 0 / -18 | 0.27 0.12 | 33 | 0.86 | 10 | 0.99 | 2.61 | 1 | 18 |
| 2 | 120 | RS | PR232120M | 32 / 0 | 0.31 0.13 | 38 | 0.93 | 15 | 0.99 | 2.45 | 1 | 7 |
| 2 | 277 | PS | PR232120M-PP-HE | 0 / -18 | 0.30 0.14 | 36 | 0.95 | 10 | 0.99 | 2.64 | 1 | 13 |

*FOR RESIDENTIAL USE ONLY

For F17T8 Lamps

T8

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 3-LAMP F17T8 | | | | | | | | | | | | |
| 3 | 120 | IS | GTL432120 * | 0 / -18 | 0.78 | 50 | 0.94 | 160 | 0.50 | 1.88 | 1 | 19 |
| 3 | 120 | IS | UT332120 | 0 / -18 | 0.40 | 47 | 0.96 | 15 | 0.98 | 2.04 | 1 | 4 |
| 3 | 120 | IS | UT432120 | 0 / -18 | 0.45 | 53 | 0.94 | 15 | 0.97 | 1.77 | 1 | 19 |
| 3 | 120 | IS | UT432120L | 0 / -18 | 0.36 | 43 | 0.83 | 10 | 0.99 | 1.93 | 1 | 19 |
| 3 | 120 | IS | UT432120L-HE | 0 / -18 | 0.40 | 47 | 0.90 | 10 | 0.99 | 1.91 | 1 | 19 |
| 3 | 120 | RS | PR332120 | 32 / 0 | 0.51 | 61 | 1.00 | 10 | 0.99 | 1.64 | 1 | 8 |
| 3 | 347 | IS | UT332347 | 0 / -18 | 0.14 | 48 | 0.96 | 25 | 0.98 | 2.00 | 1 | 4 |
| 3 | 347 | IS | UT332347L | 0 / -18 | 0.13 | 44 | 0.81 | 10 | 0.99 | 1.84 | 1 | 4 |
| 3 | 347 | IS | UT432347 | 0 / -18 | 0.16 | 53 | 1.04 | 15 | 0.97 | 1.96 | 1 | 19 |
| 3 | 347 | IS | UT432347L | 0 / -18 | 0.14 | 46 | 0.86 | 11 | 0.99 | 1.87 | 1 | 19 |
| 3 | 347 | IS | UT432347-HE | 0 / -18 | 0.15 | 52 | 1.01 | 15 | 0.99 | 1.94 | 1 | 19 |
| 3 | 347 | RS | PR332347 | 32 / 0 | 0.18 | 61 | 1.00 | 10 | 0.99 | 1.64 | 1 | 8 |
| 3 | 347 | PS | PR432347-PP-HE | 0 / -18 | 0.15 | 53 | 0.98 | 10 | 0.99 | 1.85 | 1 | 16 |
| 3 | 120 | IS | eT332120M | 0 / -18 | 0.41 | 49 | 0.96 | 10 | 0.99 | 1.96 | 1 | 4 |
| 3 | 277 | IS | | | 0.18 | | | | | | | |
| 3 | 120 | IS | UT332120M | 0 / -18 | 0.40 | 47 | 0.96 | 15 | 0.97 | 2.04 | 1 | 4 |
| 3 | 277 | IS | | | 0.18 | | | | | | | |
| 3 | 120 | IS | UT332120ML | 0 / -18 | 0.35 | 43 | 0.78 | 10 | 0.99 | 1.81 | 1 | 4 |
| 3 | 277 | IS | | | 0.16 | | | | | | | |
| 3 | 120 | IS | eT432120M | 0 / -18 | 0.44 | 52 | 1.02 | 15 | 0.98 | 1.96 | 1 | 19 |
| 3 | 277 | IS | | | 0.19 | | | | | | | |
| 3 | 120 | IS | UT432120M | 0 / -18 | 0.45 | 53 | 1.04 | 15 | 0.97 | 1.96 | 1 | 19 |
| 3 | 277 | IS | | | 0.20 | | | | | | | |
| 3 | 120 | IS | UT432120ML | 0 / -18 | 0.39 | 47 | 0.87 | 10 | 0.99 | 1.85 | 1 | 19 |
| 3 | 277 | IS | | | 0.17 | | | | | | | |
| 3 | 120 | IS | UT432120M-HE | 0 / -18 | 0.40 | 49 | 0.98 | 10 | 0.99 | 2.00 | 1 | 19 |
| 3 | 277 | IS | | | 0.18 | | | | | | | |
| 3 | 120 | IS | UT432120ML-HE | 0 / -18 | 0.38 | 45 | 0.87 | 10 | 0.99 | 1.93 | 1 | 19 |
| 3 | 277 | IS | | | 0.16 | | | | | | | |
| 3 | 120 | RS | PR332120M | 32 / 0 | 0.51 | 61 | 1.00 | 10 | 0.99 | 1.64 | 1 | 8 |
| 3 | 277 | RS | | | 0.22 | | | | | | | |
| 3 | 120 | PS | PR432120M-PP-HE | 0 / -18 | 0.42 | 51 | 0.97 | 10 | 0.99 | 1.90 | 1 | 16 |
| 3 | 277 | PS | | | 0.19 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

T8

For F17T8 Lamps



| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 4-LAMP F17T8 | | | | | | | | | | | | |
| 4 | 120 | IS | GTL432120 * | 0 / -18 | 0.79 | 59 | 0.87 | 160 | 0.50 | 1.47 | 1 | 5 |
| 4 | 120 | IS | UT432120 | 0 / -18 | 0.54 | 64 | 0.90 | 15 | 0.98 | 1.41 | 1 | 5 |
| 4 | 120 | IS | UT432120L | 0 / -18 | 0.43 | 52 | 0.74 | 10 | 0.99 | 1.42 | 1 | 5 |
| 4 | 120 | IS | UT432120L-HE | 0 / -18 | 0.47 | 57 | 0.81 | 10 | 0.99 | 1.42 | 1 | 5 |
| 4 | 120 | RS | PR432120 | 32 / 0 | 0.66 | 79 | 1.00 | 10 | 0.98 | 1.27 | 1 | 9 |
| 4 | 347 | IS | UT432347 | 0 / -18 | 0.19 | 64 | 0.93 | 15 | 0.98 | 1.45 | 1 | 5 |
| 4 | 347 | IS | UT432347L | 0 / -18 | 0.16 | 55 | 0.80 | 10 | 0.99 | 1.45 | 1 | 5 |
| 4 | 347 | IS | UT432347-HE | 0 / -18 | 0.18 | 62 | 0.93 | 10 | 0.99 | 1.50 | 1 | 5 |
| 4 | 347 | RS | PR432347 | 32 / 0 | 0.23 | 79 | 1.00 | 10 | 0.98 | 1.27 | 1 | 9 |
| 4 | 347 | RS | PR432347L | 32 / 0 | 0.18 | 62 | 0.85 | 10 | 0.99 | 1.37 | 1 | 9 |
| 4 | 347 | PS | PR432347-PP-HE | 0 / -18 | 0.18 | 63 | 0.92 | 10 | 0.99 | 1.46 | 1 | 15 |
| 4 | 120 | IS | eT432120M | 0 / -18 | 0.51 | 62 | 0.90 | 10 | 0.99 | 1.45 | 1 | 5 |
| 4 | 277 | IS | | 0 / -18 | 0.23 | | | | | | | |
| 4 | 120 | IS | UT432120M | 0 / -18 | 0.54 | 64 | 0.93 | 15 | 0.98 | 1.45 | 1 | 5 |
| 4 | 277 | IS | UT432120ML | 0 / -18 | 0.24 | 57 | 0.81 | 10 | 0.99 | 1.42 | 1 | 5 |
| 4 | 120 | IS | UT432120M-HE | 0 / -18 | 0.47 | 58 | 0.89 | 10 | 0.99 | 1.53 | 1 | 5 |
| 4 | 277 | IS | | 0 / -18 | 0.21 | | | | | | | |
| 4 | 120 | IS | UT432120ML-HE | 0 / -18 | 0.49 | 53 | 0.80 | 10 | 0.99 | 1.51 | 1 | 5 |
| 4 | 277 | IS | | 0 / -18 | 0.22 | | | | | | | |
| 4 | 120 | RS | PR432120M | 32 / 0 | 0.67 | 79 | 1.00 | 10 | 0.98 | 1.27 | 1 | 9 |
| 4 | 277 | RS | | 0 / -18 | 0.29 | | | | | | | |
| 4 | 120 | PS | PR432120M-PP-HE | 0 / -18 | 0.51 | 61 | 0.89 | 10 | 0.99 | 1.46 | 1 | 15 |
| 4 | 277 | PS | | 0 / -18 | 0.23 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

For F25T8 Lamps

T8

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F25T8 | | | | | | | | | | | | |
| 1 | 120 | IS | GTL132120 * | 0 / -18 | 0.40 | 23 | 0.90 | 150 | 0.50 | 3.91 | 1 | 1 |
| 1 | 120 | IS | GTL232120 * | 0 / -18 | 0.47 | 26 | 0.99 | 160 | 0.50 | 3.81 | 1 | 12 |
| 1 | 120 | IS | GT132120 | 0 / -18 | 0.23 | 28 | 1.06 | 20 | 0.97 | 3.79 | 1 | 1 |
| 1 | 120 | IS | ST132120 | 0 / -18 | 0.20 | 24 | 0.95 | 10 | 0.99 | 3.96 | 2 | 3 |
| 1 | 120 | IS | UT132120 | 0 / -18 | 0.21 | 25 | 0.91 | 10 | 0.99 | 3.64 | 1 | 1 |
| 1 | 120 | IS | UT132120L | 0 / -18 | 0.18 | 22 | 0.74 | 10 | 0.99 | 3.36 | 1 | 1 |
| 1 | 120 | IS | UT232120 | 0 / -18 | 0.25 | 30 | 1.06 | 15 | 0.98 | 3.53 | 1 | 12 |
| 1 | 120 | IS | UT232120L-HE | 0 / -18 | 0.21 | 24 | 0.99 | 10 | 0.99 | 4.06 | 1 | 12 |
| 1 | 120 | RS | PR132120 | 32 / 0 | 0.24 | 28 | 0.95 | 10 | 0.99 | 3.39 | 1 | 6 |
| 1 | 120 | RS | PR232120 | 32 / 0 | 0.27 | 32 | 0.93 | 10 | 0.99 | 2.91 | 1 | 11 |
| 1 | 120 | PS | SR132120 | 0 / -18 | 0.20 | 24 | 0.90 | 10 | 0.99 | 3.75 | 2 | 6 |
| 1 | 347 | IS | GT132347 | 0 / -18 | 0.09 | 29 | 1.06 | 20 | 0.97 | 3.69 | 1 | 1 |
| 1 | 347 | IS | UT132347 | 0 / -18 | 0.08 | 26 | 0.91 | 15 | 0.99 | 3.50 | 1 | 1 |
| 1 | 347 | IS | UT132347H | 0 / -18 | 0.09 | 32 | 1.20 | 10 | 0.99 | 3.75 | 1 | 1 |
| 1 | 347 | IS | UT132347L | 0 / -18 | 0.07 | 24 | 0.75 | 15 | 0.98 | 3.13 | 1 | 1 |
| 1 | 347 | IS | UT232347 | 0 / -18 | 0.09 | 30 | 1.06 | 15 | 0.98 | 3.53 | 1 | 12 |
| 1 | 347 | IS | UT232347L | 0 / -18 | 0.07 | 25 | 0.87 | 20 | 0.97 | 3.48 | 1 | 12 |
| 1 | 347 | IS | UT232347-HE | 0 / -18 | 0.08 | 28 | 1.02 | 20 | 0.98 | 3.64 | 1 | 12 |
| 1 | 347 | RS | PR132347 | 32 / 0 | 0.09 | 29 | 0.93 | 15 | 0.99 | 3.21 | 1 | 6 |
| 1 | 347 | RS | PR232347 | 32 / 0 | 0.10 | 32 | 0.93 | 15 | 0.99 | 2.91 | 1 | 11 |
| 1 | 347 | PS | PR232347-PP-HE | 0 / -18 | 0.10 | 31 | 0.99 | 10 | 0.99 | 3.19 | 1 | 14 |
| 1 | 120 | IS | UT132120M | 0 / -18 | 0.21 | 25 | 0.91 | 10 | 0.99 | 3.64 | 1 | 1 |
| 1 | 277 | IS | UT132120M | 0 / -18 | 0.09 | 25 | 0.91 | 10 | 0.99 | 3.64 | 1 | 1 |
| 1 | 120 | IS | UT132120MH | 0 / -18 | 0.27 | 33 | 1.20 | 10 | 0.99 | 3.64 | 1 | 1 |
| 1 | 277 | IS | eT232120M | 0 / -18 | 0.12 | 30 | 1.13 | 15 | 0.98 | 3.77 | 4 | 12 |
| 1 | 120 | IS | UT232120M | 0 / -18 | 0.25 | 30 | 1.06 | 15 | 0.98 | 3.53 | 1 | 12 |
| 1 | 277 | IS | UT232120ML | 0 / -18 | 0.11 | 25 | 0.81 | 15 | 0.97 | 3.24 | 1 | 12 |
| 1 | 120 | IS | UT232120M-HE | 0 / -18 | 0.24 | 28 | 1.05 | 10 | 0.99 | 3.75 | 1 | 12 |
| 1 | 277 | IS | UT232120ML-HE | 0 / -18 | 0.10 | 25 | 0.89 | 10 | 0.99 | 3.56 | 1 | 12 |
| 1 | 120 | RS | PR132120M | 32 / 0 | 0.24 | 28 | 0.95 | 10 | 0.99 | 3.39 | 1 | 6 |
| 1 | 277 | RS | PR232120M | 32 / 0 | 0.10 | 32 | 0.93 | 15 | 0.98 | 2.91 | 1 | 11 |
| 1 | 120 | PS | PR232120M-PP-HE | 0 / -18 | 0.25 | 31 | 1.00 | 10 | 0.99 | 3.23 | 1 | 14 |
| 1 | 277 | PS | PR232120M-PP-HE | 0 / -18 | 0.12 | 31 | 1.00 | 10 | 0.99 | 3.23 | 1 | 14 |

*FOR RESIDENTIAL USE ONLY

T8

For F25T8 Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 2-LAMP F25T8 | | | | | | | | | | | | |
| 2 | 120 | IS | GTL232120 * | 0 / -18 | 0.64 | 40 | 0.84 | 160 | 0.50 | 2.10 | 1 | 2 |
| 2 | 120 | IS | GT232120 | 0 / -18 | 0.47 | 53 | 1.01 | 20 | 0.97 | 1.91 | 1 | 2 |
| 2 | 120 | IS | ST232120E | 32 / 0 | 0.39 | 46 | 0.91 | 10 | 0.98 | 1.98 | 2 | 2 |
| 2 | 120 | IS | UT232120 | 0 / -18 | 0.40 | 48 | 0.91 | 10 | 0.99 | 1.90 | 1 | 2 |
| 2 | 120 | IS | UT232120L-HE | 0 / -18 | 0.34 | 40 | 0.81 | 10 | 0.99 | 2.03 | 1 | 2 |
| 2 | 120 | IS | UT332120 | 0 / -18 | 0.40 | 49 | 1.03 | 10 | 0.98 | 2.06 | 1 | 18 |
| 2 | 120 | RS | PR232120 | 32 / 0 | 0.43 | 52 | 0.90 | 10 | 0.99 | 1.73 | 1 | 7 |
| 2 | 120 | PS | SR232120 | 0 / -18 | 0.40 | 49 | 0.98 | 10 | 0.99 | 1.96 | 2 | 7 |
| 2 | 277 | IS | ST232277E | 32 / 0 | 0.17 | 46 | 0.91 | 15 | 0.98 | 1.98 | 2 | 2 |
| 2 | 347 | IS | GT232347 | 0 / -18 | 0.15 | 51 | 0.93 | 20 | 0.98 | 1.82 | 1 | 2 |
| 2 | 347 | IS | UT232347 | 0 / -18 | 0.14 | 48 | 0.91 | 10 | 0.99 | 1.90 | 1 | 2 |
| 2 | 347 | IS | UT232347H | 0 / -18 | 0.14 | 58 | 1.20 | 10 | 0.99 | 2.07 | 1 | 2 |
| 2 | 347 | IS | UT232347L | 0 / -18 | 0.11 | 39 | 0.78 | 15 | 0.98 | 2.00 | 1 | 2 |
| 2 | 347 | IS | UT232347-HE | 0 / -18 | 0.13 | 46 | 0.91 | 10 | 0.99 | 1.98 | 1 | 2 |
| 2 | 347 | IS | UT332347 | 0 / -18 | 0.15 | 51 | 1.03 | 20 | 0.98 | 2.02 | 1 | 18 |
| 2 | 347 | IS | UT332347L | 0 / -18 | 0.13 | 45 | 0.89 | 10 | 0.99 | 1.98 | 1 | 18 |
| 2 | 347 | RS | PR232347 | 32 / 0 | 0.16 | 52 | 0.90 | 10 | 0.99 | 1.73 | 1 | 7 |
| 2 | 347 | PS | PR232347-PP-HE | 0 / -18 | 0.14 | 48 | 0.92 | 10 | 0.99 | 1.92 | 1 | 13 |
| 2 | 120 | IS | eT232120M | 0 / -18 | 0.39 | 46 | 0.90 | 10 | 0.99 | 1.96 | 4 | 2 |
| 2 | 277 | IS | | | 0.17 | | | | | | | |
| 2 | 120 | IS | UT232120M | 0 / -18 | 0.40 | 48 | 0.91 | 10 | 0.99 | 1.90 | 1 | 2 |
| 2 | 277 | IS | | | 0.17 | | | | | | | |
| 2 | 120 | IS | UT232120MH | 0 / -18 | 0.48 | 58 | 1.20 | 10 | 0.99 | 2.07 | 1 | 2 |
| 2 | 277 | IS | | | 0.22 | | | | | | | |
| 2 | 120 | IS | UT232120ML | 0 / -18 | 0.31 | 38 | 0.72 | 10 | 0.99 | 1.89 | 1 | 2 |
| 2 | 277 | IS | | | 0.14 | | | | | | | |
| 2 | 120 | IS | UT232120M-HE | 0 / -18 | 0.37 | 44 | 0.88 | 10 | 0.99 | 2.00 | 1 | 2 |
| 2 | 277 | IS | | | 0.16 | | | | | | | |
| 2 | 120 | IS | UT232120ML-HE | 0 / -18 | 0.33 | 39 | 0.77 | 10 | 0.99 | 1.97 | 1 | 2 |
| 2 | 277 | IS | | | 0.14 | | | | | | | |
| 2 | 120 | IS | eT332120M | 0 / -18 | 0.43 | 52 | 0.99 | 10 | 0.99 | 1.90 | 1 | 18 |
| 2 | 277 | IS | | | 0.19 | | | | | | | |
| 2 | 120 | IS | UT332120M | 0 / -18 | 0.42 | 50 | 1.03 | 15 | 0.98 | 2.06 | 1 | 18 |
| 2 | 277 | IS | | | 0.18 | | | | | | | |
| 2 | 120 | IS | UT332120ML | 0 / -18 | 0.37 | 45 | 0.85 | 10 | 0.99 | 1.89 | 1 | 18 |
| 2 | 277 | RS | PR232120M | 32 / 0 | 0.43 | 52 | 0.90 | 10 | 0.99 | 1.73 | 1 | 7 |
| 2 | 120 | RS | | | 0.19 | | | | | | | |
| 2 | 277 | PS | PR232120M-PP-HE | 0 / -18 | 0.40 | 49 | 0.93 | 10 | 0.99 | 1.90 | 1 | 13 |
| 2 | 277 | PS | | | 0.18 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

For F25T8 Lamps

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| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 3-LAMP F25T8 | | | | | | | | | | | | |
| 3 | 120 | IS | GTL432120 * | 0 / -18 | 1.10 | 68 | 0.92 | 160 | 0.50 | 1.35 | 1 | 19 |
| 3 | 120 | IS | GT332120 | 0 / -18 | 0.68 | 81 | 0.97 | 20 | 0.98 | 1.20 | 1 | 4 |
| 3 | 120 | IS | UT332120 | 0 / -18 | 0.53 | 64 | 0.91 | 10 | 0.99 | 1.42 | 1 | 4 |
| 3 | 120 | IS | UT432120 | 0 / -18 | 0.58 | 68 | 0.92 | 15 | 0.99 | 1.35 | 1 | 19 |
| 3 | 120 | IS | UT432120L | 0 / -18 | 0.51 | 61 | 0.81 | 10 | 0.99 | 1.33 | 1 | 19 |
| 3 | 120 | IS | UT432120L-HE | 0 / -18 | 0.55 | 66 | 0.88 | 10 | 0.99 | 1.33 | 1 | 19 |
| 3 | 120 | RS | PR332120 | 32 / 0 | 0.65 | 77 | 0.95 | 10 | 0.99 | 1.23 | 1 | 8 |
| 3 | 347 | IS | GT332347 | 0 / -18 | 0.23 | 77 | 0.91 | 20 | 0.98 | 1.18 | 1 | 4 |
| 3 | 347 | IS | UT332347 | 0 / -18 | 0.19 | 65 | 0.91 | 15 | 0.99 | 1.40 | 1 | 4 |
| 3 | 347 | IS | UT332347H | 0 / -18 | 0.25 | 85 | 1.20 | 10 | 0.99 | 1.41 | 1 | 4 |
| 3 | 347 | IS | UT332347L | 0 / -18 | 0.17 | 60 | 0.79 | 10 | 0.99 | 1.32 | 1 | 4 |
| 3 | 347 | IS | UT432347 | 0 / -18 | 0.22 | 74 | 1.01 | 15 | 0.99 | 1.36 | 1 | 19 |
| 3 | 347 | IS | UT432347L | 0 / -18 | 0.19 | 64 | 0.85 | 10 | 0.99 | 1.33 | 1 | 19 |
| 3 | 347 | IS | UT432347-HE | 0 / -18 | 0.21 | 73 | 0.99 | 10 | 0.99 | 1.36 | 1 | 19 |
| 3 | 347 | RS | PR332347 | 32 / 0 | 0.22 | 77 | 0.95 | 10 | 0.99 | 1.23 | 1 | 8 |
| 3 | 347 | PS | PR432347-PP-HE | 0 / -18 | 0.21 | 73 | 0.97 | 10 | 0.99 | 1.33 | 1 | 16 |
| 3 | 120 | IS | eT332120M | 0 / -18 | 0.54 | 65 | 0.90 | 10 | 0.99 | 1.38 | 1 | 4 |
| 3 | 277 | IS | | | 0.25 | | | | | | | |
| 3 | 120 | IS | UT332120M | 0 / -18 | 0.53 | 64 | 0.91 | 10 | 0.99 | 1.42 | 1 | 4 |
| 3 | 277 | IS | | | 0.23 | | | | | | | |
| 3 | 120 | IS | UT332120MH | 0 / -18 | 0.71 | 85 | 1.20 | 10 | 0.99 | 1.41 | 1 | 4 |
| 3 | 277 | IS | | | 0.31 | | | | | | | |
| 3 | 120 | IS | UT332120ML | 0 / -18 | 0.48 | 58 | 0.77 | 10 | 0.99 | 1.33 | 1 | 4 |
| 3 | 277 | IS | | | 0.21 | | | | | | | |
| 3 | 120 | IS | eT432120M | 0 / -18 | 0.61 | 73 | 0.99 | 10 | 0.99 | 1.36 | 1 | 19 |
| 3 | 277 | IS | | | 0.27 | | | | | | | |
| 3 | 120 | IS | UT432120M | 0 / -18 | 0.62 | 74 | 1.01 | 15 | 0.99 | 1.36 | 1 | 19 |
| 3 | 277 | IS | | | 0.27 | | | | | | | |
| 3 | 120 | IS | UT432120ML | 0 / -18 | 0.54 | 64 | 0.85 | 10 | 0.99 | 1.33 | 1 | 19 |
| 3 | 277 | IS | | | 0.24 | | | | | | | |
| 3 | 120 | IS | UT432120M-HE | 0 / -18 | 0.55 | 67 | 0.97 | 10 | 0.99 | 1.45 | 1 | 19 |
| 3 | 277 | IS | | | 0.24 | | | | | | | |
| 3 | 120 | RS | PR332120M | 32 / 0 | 0.65 | 77 | 0.95 | 10 | 0.99 | 1.23 | 1 | 8 |
| 3 | 277 | RS | | | 0.28 | | | | | | | |
| 3 | 120 | PS | PR432120M-PP-HE | 0 / -18 | 0.58 | 71 | 0.96 | 10 | 0.99 | 1.35 | 1 | 16 |
| 3 | 277 | PS | | | 0.26 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

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For F25T8 Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 4-LAMP F25T8 | | | | | | | | | | | | |
| 4 | 120 | IS | GTL432120 * | 0 / -18 | 1.33 | 81 | 0.83 | 160 | 0.50 | 1.01 | 1 | 5 |
| 4 | 120 | IS | GT432120 | 0 / -18 | 0.91 | 107 | 0.99 | 20 | 0.97 | 0.93 | 1 | 5 |
| 4 | 120 | IS | UT432120 | 0 / -18 | 0.71 | 83 | 0.90 | 10 | 0.99 | 1.08 | 1 | 5 |
| 4 | 120 | IS | UT432120L | 0 / -18 | 0.61 | 73 | 0.73 | 10 | 0.99 | 1.00 | 1 | 5 |
| 4 | 120 | IS | UT432120L-HE | 0 / -18 | 0.66 | 79 | 0.80 | 10 | 0.99 | 1.01 | 1 | 5 |
| 4 | 120 | RS | PR432120 | 32 / 0 | 0.84 | 100 | 0.95 | 10 | 0.99 | 0.95 | 1 | 9 |
| 4 | 347 | IS | GT432347 | 0 / -18 | 0.31 | 106 | 1.00 | 20 | 0.97 | 0.94 | 1 | 5 |
| 4 | 347 | IS | UT432347 | 0 / -18 | 0.26 | 89 | 0.91 | 10 | 0.99 | 1.02 | 1 | 5 |
| 4 | 347 | IS | UT432347L | 0 / -18 | 0.22 | 77 | 0.79 | 10 | 0.99 | 1.03 | 1 | 5 |
| 4 | 347 | IS | UT432347-HE | 0 / -18 | 0.25 | 87 | 0.91 | 10 | 0.99 | 1.05 | 1 | 5 |
| 4 | 347 | RS | PR432347 | 32 / 0 | 0.29 | 100 | 0.95 | 10 | 0.99 | 0.95 | 1 | 9 |
| 4 | 347 | RS | PR432347L | 32 / 0 | 0.24 | 83 | 0.81 | 10 | 0.99 | 0.98 | 1 | 9 |
| 4 | 347 | PS | PR432347-PP-HE | 0 / -18 | 0.26 | 87 | 0.89 | 10 | 0.99 | 1.02 | 1 | 15 |
| 4 | 120 | IS | eT432120M | 0 / -18 | 0.71 | 87 | 0.89 | 10 | 0.99 | 1.02 | 1 | 5 |
| 4 | 277 | IS | | | 0.32 | | | | | | | |
| 4 | 120 | IS | UT432120M | 0 / -18 | 0.74 | 89 | 0.91 | 10 | 0.99 | 1.02 | 1 | 5 |
| 4 | 277 | IS | | | 0.32 | | | | | | | |
| 4 | 120 | IS | UT432120ML | 0 / -18 | 0.66 | 79 | 0.79 | 10 | 0.99 | 1.00 | 1 | 5 |
| 4 | 277 | IS | | | 0.29 | | | | | | | |
| 4 | 120 | IS | UT432120M-HE | 0 / -18 | 0.66 | 81 | 0.88 | 10 | 0.99 | 1.09 | 1 | 5 |
| 4 | 277 | IS | | | 0.30 | | | | | | | |
| 4 | 120 | IS | UT432120ML-HE | 0 / -18 | 0.64 | 77 | 0.78 | 10 | 0.99 | 1.01 | 1 | 5 |
| 4 | 277 | IS | | | 0.28 | | | | | | | |
| 4 | 120 | RS | PR432120M | 32 / 0 | 0.84 | 100 | 0.95 | 10 | 0.99 | 0.95 | 1 | 9 |
| 4 | 277 | RS | | | 0.36 | | | | | | | |
| 4 | 120 | PS | PR432120M-PP-HE | 0 / -18 | 0.71 | 86 | 0.89 | 10 | 0.99 | 1.03 | 1 | 15 |
| 4 | 277 | PS | | | 0.31 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

For F32T8 Lamps

T8

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F32T8 | | | | | | | | | | | | |
| 1 | 120 | IS | GTL132120 * | 0 / -18 | 0.42 | 28 | 0.87 | 150 | 0.50 | 3.11 | 1 | 1 |
| 1 | 120 | IS | GTL232120 * | 0 / -18 | 0.55 | 33 | 0.98 | 160 | 0.50 | 2.97 | 1 | 12 |
| 1 | 120 | IS | GT132120 | 0 / -18 | 0.26 | 30 | 0.88 | 20 | 0.97 | 2.93 | 1 | 1 |
| 1 | 120 | IS | ST132120 | 0 / -18 | 0.26 | 30 | 0.88 | 10 | 0.99 | 2.93 | 2 | 3 |
| 1 | 120 | IS | UT132120 | 0 / -18 | 0.26 | 31 | 0.89 | 10 | 0.99 | 2.87 | 1 | 1 |
| 1 | 120 | IS | UT132120L | 0 / -18 | 0.22 | 27 | 0.71 | 10 | 0.99 | 2.63 | 1 | 1 |
| 1 | 120 | IS | UT232120 | 0 / -18 | 0.31 | 37 | 1.03 | 10 | 0.99 | 2.78 | 1 | 12 |
| 1 | 120 | IS | UT232120L-HE | 0 / -18 | 0.25 | 30 | 0.97 | 10 | 0.99 | 3.20 | 1 | 12 |
| 1 | 120 | RS | PR132120 | 32 / 0 | 0.29 | 35 | 0.94 | 10 | 0.99 | 2.69 | 1 | 6 |
| 1 | 120 | RS | PR232120 | 32 / 0 | 0.34 | 40 | 0.92 | 10 | 0.99 | 2.30 | 1 | 11 |
| 1 | 120 | PS | SR132120 | 0 / -18 | 0.24 | 30 | 0.86 | 10 | 0.99 | 2.87 | 2 | 6 |
| 1 | 347 | IS | GT132347 | 0 / -18 | 0.09 | 31 | 0.88 | 20 | 0.97 | 2.84 | 1 | 1 |
| 1 | 347 | IS | UT132347 | 0 / -18 | 0.09 | 31 | 0.89 | 10 | 0.99 | 2.87 | 1 | 1 |
| 1 | 347 | IS | UT132347H | 0 / -18 | 0.12 | 40 | 1.18 | 10 | 0.99 | 2.95 | 1 | 1 |
| 1 | 347 | IS | UT132347L | 0 / -18 | 0.08 | 29 | 0.71 | 10 | 0.99 | 2.45 | 1 | 1 |
| 1 | 347 | IS | UT232347 | 0 / -18 | 0.11 | 37 | 1.03 | 15 | 0.98 | 2.78 | 1 | 12 |
| 1 | 347 | IS | UT232347L | 0 / -18 | 0.09 | 31 | 0.86 | 15 | 0.97 | 2.77 | 1 | 12 |
| 1 | 347 | IS | UT232347-HE | 0 / -18 | 0.11 | 36 | 1.01 | 15 | 0.98 | 2.81 | 1 | 12 |
| 1 | 347 | RS | PR132347 | 32 / 0 | 0.10 | 35 | 0.91 | 10 | 0.99 | 2.60 | 1 | 6 |
| 1 | 347 | RS | PR232347 | 32 / 0 | 0.12 | 40 | 0.92 | 15 | 0.99 | 2.30 | 1 | 11 |
| 1 | 347 | PS | PR232347-PP-HE | 0 / -18 | 0.11 | 37 | 0.99 | 10 | 0.99 | 2.68 | 1 | 14 |
| 1 | 120 | IS | UT132120M | 0 / -18 | 0.26 | | | | | | | |
| 1 | 277 | IS | | | 0.11 | 31 | 0.89 | 10 | 0.99 | 2.87 | 1 | 1 |
| 1 | 120 | IS | UT132120MH | 0 / -18 | 0.35 | | | | | | | |
| 1 | 277 | IS | | | 0.15 | 42 | 1.18 | 10 | 0.99 | 2.81 | 1 | 1 |
| 1 | 120 | IS | eT232120M | 0 / -18 | 0.30 | | | | | | | |
| 1 | 277 | IS | | | 0.13 | 36 | 1.06 | 10 | 0.99 | 2.94 | 4 | 12 |
| 1 | 120 | IS | UT232120M | 0 / -18 | 0.31 | | | | | | | |
| 1 | 277 | IS | | | 0.14 | 37 | 1.03 | 15 | 0.98 | 2.78 | 1 | 12 |
| 1 | 120 | IS | UT232120ML | 0 / -18 | 0.26 | | | | | | | |
| 1 | 277 | IS | | | 0.12 | 31 | 0.79 | 10 | 0.98 | 2.55 | 1 | 12 |
| 1 | 120 | IS | UT232120M-HE | 0 / -18 | 0.30 | | | | | | | |
| 1 | 277 | IS | | | 0.13 | 35 | 1.05 | 10 | 0.99 | 3.00 | 1 | 12 |
| 1 | 120 | IS | UT232120ML-HE | 0 / -18 | 0.26 | | | | | | | |
| 1 | 277 | IS | | | 0.11 | 31 | 0.90 | 10 | 0.99 | 2.90 | 1 | 12 |
| 1 | 120 | RS | PR132120M | 32 / 0 | 0.29 | | | | | | | |
| 1 | 277 | RS | | | 0.13 | 35 | 0.94 | 10 | 0.99 | 2.69 | 1 | 6 |
| 1 | 120 | RS | PR232120M | 32 / 0 | 0.34 | | | | | | | |
| 1 | 277 | RS | | | 0.15 | 40 | 0.92 | 15 | 0.99 | 2.30 | 1 | 11 |
| 1 | 120 | PS | PR232120M-PP-HE | 0 / -18 | 0.31 | | | | | | | |
| 1 | 277 | PS | | | 0.14 | 37 | 0.98 | 10 | 0.99 | 2.65 | 1 | 14 |

*FOR RESIDENTIAL USE ONLY

T8

For F32T8 Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. | |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|----|
| 2-LAMP F32T8 | | | | | | | | | | | | | |
| 2 | 120 | IS | GTL232120 * | 0 / -18 | 0.80 | 51 | 0.81 | 160 | 0.50 | 1.59 | 1 | 2 | |
| 2 | 120 | IS | GT232120 | 0 / -18 | 0.50 | 58 | 0.89 | 20 | 0.98 | 1.55 | 1 | 2 | |
| 2 | 120 | IS | ST232120 | 0 / -18 | 0.49 | 58 | 0.89 | 10 | 0.99 | 1.53 | 2 | 2 | |
| 2 | 120 | IS | ST232120E | 32 / 0 | 0.45 | 52 | 0.80 | 10 | 0.98 | 1.54 | 2 | 2 | |
| 2 | 120 | IS | UT232120 | 0 / -18 | 0.48 | 58 | 0.88 | 10 | 0.99 | 1.52 | 1 | 2 | |
| 2 | 120 | IS | UT232120L-HE | 0 / -18 | 0.42 | 50 | 0.78 | 10 | 0.99 | 1.57 | 1 | 2 | |
| 2 | 120 | IS | UT332120 | 0 / -18 | 0.53 | 64 | 0.96 | 10 | 0.99 | 1.50 | 1 | 18 | |
| 2 | 120 | RS | PR232120 | 32 / 0 | 0.53 | 64 | 0.88 | 10 | 0.99 | 1.38 | 1 | 7 | |
| 2 | 120 | PS | SR232120 | 0 / -18 | 0.45 | 55 | 0.88 | 10 | 0.99 | 1.60 | 2 | 7 | |
| 2 | 277 | IS | ST232277E | 32 / 0 | 0.20 | 52 | 0.80 | 11 | 0.98 | 1.54 | 2 | 2 | |
| 2 | 347 | IS | GT232347 | 0 / -18 | 0.17 | 59 | 0.86 | 20 | 0.98 | 1.46 | 1 | 2 | |
| 2 | 347 | IS | UT232347 | 0 / -18 | 0.17 | 58 | 0.88 | 10 | 0.99 | 1.52 | 1 | 2 | |
| 2 | 347 | IS | UT232347H | 0 / -18 | 0.21 | 73 | 1.18 | 10 | 0.99 | 1.62 | 1 | 2 | |
| 2 | 347 | IS | UT232347L | 0 / -18 | 0.14 | 48 | 0.77 | 10 | 0.99 | 1.60 | 1 | 2 | |
| 2 | 347 | IS | UT232347-HE | 0 / -18 | 0.16 | 56 | 0.90 | 10 | 0.99 | 1.61 | 1 | 2 | |
| 2 | 347 | IS | UT332347 | 0 / -18 | 0.19 | 64 | 0.96 | 15 | 0.99 | 1.50 | 1 | 18 | |
| 2 | 347 | IS | UT332347L | 0 / -18 | 0.17 | 58 | 0.87 | 10 | 0.99 | 1.50 | 1 | 18 | |
| 2 | 347 | RS | PR232347 | 32 / 0 | 0.19 | 64 | 0.88 | 10 | 0.99 | 1.38 | 1 | 7 | |
| 2 | 347 | PS | PR232347-PP-HE | 0 / -18 | 0.17 | 60 | 0.91 | 10 | 0.99 | 1.52 | 1 | 13 | |
| 2 | 120 | IS | eT232120M | 0 / -18 | 0.49 | 57 | 0.88 | 10 | 0.99 | 1.54 | 4 | 2 | |
| 2 | 277 | IS | UT232120M | 0 / -18 | 0.22 | 0.48 | 58 | 0.88 | 10 | 0.99 | 1.52 | 1 | 2 |
| 2 | 120 | IS | UT232120MH | 0 / -18 | 0.21 | 0.64 | 75 | 1.18 | 10 | 0.99 | 1.57 | 1 | 2 |
| 2 | 277 | IS | UT232120ML | 0 / -18 | 0.18 | 0.42 | 50 | 0.70 | 10 | 0.99 | 1.40 | 1 | 2 |
| 2 | 120 | IS | UT232120M-HE | 0 / -18 | 0.20 | 0.46 | 55 | 0.87 | 10 | 0.99 | 1.58 | 1 | 2 |
| 2 | 277 | IS | UT232120ML-HE | 0 / -18 | 0.18 | 0.40 | 48 | 0.77 | 10 | 0.99 | 1.60 | 1 | 2 |
| 2 | 120 | IS | eT332120M | 0 / -18 | 0.24 | 0.53 | 64 | 0.97 | 10 | 0.99 | 1.52 | 1 | 18 |
| 2 | 277 | IS | UT332120M | 0 / -18 | 0.23 | 0.53 | 64 | 0.96 | 10 | 0.99 | 1.50 | 1 | 18 |
| 2 | 120 | IS | UT332120ML | 0 / -18 | 0.21 | 0.48 | 58 | 0.83 | 10 | 0.99 | 1.43 | 1 | 18 |
| 2 | 277 | RS | PR232120M | 32 / 0 | 0.23 | 0.53 | 64 | 0.88 | 10 | 0.99 | 1.38 | 1 | 7 |
| 2 | 120 | PS | PR232120M-PP-HE | 0 / -18 | 0.23 | 0.50 | 61 | 0.91 | 10 | 0.99 | 1.49 | 1 | 13 |
| 2 | 277 | PS | PR232120M-D | 50 / 10 | 0.24-0.06 | 0.57-0.13 | 67-16 | 1.00-0.05 | 10 | 0.99 | 1.49 | 7 | 17 |

*FOR RESIDENTIAL USE ONLY

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 3-LAMP F32T8 | | | | | | | | | | | | |
| 3 | 120 | IS | GTL432120 * | 0 / -18 | 1.35 | 86 | 0.91 | 160 | 0.50 | 1.06 | 1 | 19 |
| 3 | 120 | IS | GT332120 | 0 / -18 | 0.74 | 86 | 0.86 | 20 | 0.98 | 1.00 | 1 | 4 |
| 3 | 120 | IS | UT332120 | 0 / -18 | 0.69 | 83 | 0.89 | 10 | 0.99 | 1.07 | 1 | 4 |
| 3 | 120 | IS | UT432120 | 0 / -18 | 0.77 | 90 | 0.90 | 10 | 0.99 | 1.00 | 1 | 19 |
| 3 | 120 | IS | UT432120L | 0 / -18 | 0.65 | 78 | 0.77 | 10 | 0.99 | 0.99 | 1 | 19 |
| 3 | 120 | IS | UT432120L-HE | 0 / -18 | 0.70 | 84 | 0.87 | 10 | 0.99 | 1.04 | 1 | 19 |
| 3 | 120 | RS | PR332120 | 32 / 0 | 0.77 | 91 | 0.88 | 10 | 0.99 | 0.97 | 1 | 8 |
| 3 | 347 | IS | GT332347 | 0 / -18 | 0.25 | 84 | 0.84 | 20 | 0.98 | 1.00 | 1 | 4 |
| 3 | 347 | IS | UT332347 | 0 / -18 | 0.24 | 83 | 0.89 | 10 | 0.99 | 1.07 | 1 | 4 |
| 3 | 347 | IS | UT332347H | 0 / -18 | 0.32 | 110 | 1.18 | 10 | 0.99 | 1.07 | 1 | 4 |
| 3 | 347 | IS | UT332347L | 0 / -18 | 0.22 | 78 | 0.77 | 10 | 0.99 | 0.99 | 1 | 4 |
| 3 | 347 | IS | UT432347 | 0 / -18 | 0.27 | 93 | 1.00 | 10 | 0.99 | 1.08 | 1 | 19 |
| 3 | 347 | IS | UT432347L | 0 / -18 | 0.24 | 83 | 0.84 | 10 | 0.99 | 1.01 | 1 | 19 |
| 3 | 347 | IS | UT432347-HE | 0 / -18 | 0.27 | 92 | 0.98 | 10 | 0.99 | 1.07 | 1 | 19 |
| 3 | 347 | RS | PR332347 | 32 / 0 | 0.26 | 91 | 0.88 | 10 | 0.99 | 0.97 | 1 | 8 |
| 3 | 347 | PS | PR432347-PP-HE | 0 / -18 | 0.26 | 91 | 0.95 | 10 | 0.99 | 1.04 | 1 | 16 |
| 3 | 120 | IS | eT332120M | 0 / -18 | 0.72 | 86 | 0.89 | 10 | 0.99 | 1.03 | 1 | 4 |
| 3 | 277 | IS | | | 0.31 | | | | | | | |
| 3 | 120 | IS | UT332120M | 0 / -18 | 0.69 | 83 | 0.89 | 10 | 0.99 | 1.07 | 1 | 4 |
| 3 | 277 | IS | | | 0.30 | | | | | | | |
| 3 | 120 | IS | UT332120MH | 0 / -18 | 0.92 | 110 | 1.18 | 10 | 0.99 | 1.07 | 1 | 4 |
| 3 | 277 | IS | | | 0.40 | | | | | | | |
| 3 | 120 | IS | UT332120ML | 0 / -18 | 0.64 | 76 | 0.74 | 10 | 0.99 | 0.97 | 1 | 4 |
| 3 | 277 | IS | | | 0.28 | | | | | | | |
| 3 | 120 | IS | eT432120M | 0 / -18 | 0.77 | 92 | 0.99 | 10 | 0.99 | 1.08 | 1 | 19 |
| 3 | 277 | IS | | | 0.34 | | | | | | | |
| 3 | 120 | IS | UT432120M | 0 / -18 | 0.78 | 93 | 1.00 | 10 | 0.99 | 1.08 | 1 | 19 |
| 3 | 277 | IS | | | 0.34 | | | | | | | |
| 3 | 120 | IS | UT432120ML | 0 / -18 | 0.70 | 84 | 0.83 | 10 | 0.99 | 0.99 | 1 | 19 |
| 3 | 277 | IS | | | 0.31 | | | | | | | |
| 3 | 120 | IS | UT432120M-HE | 0 / -18 | 0.74 | 88 | 0.96 | 10 | 0.99 | 1.09 | 1 | 19 |
| 3 | 277 | IS | | | 0.31 | | | | | | | |
| 3 | 120 | IS | UT432120ML-HE | 0 / -18 | 0.67 | 80 | 0.83 | 10 | 0.99 | 1.04 | 1 | 19 |
| 3 | 277 | IS | | | 0.29 | | | | | | | |
| 3 | 120 | RS | PR332120M | 32 / 0 | 0.77 | 91 | 0.88 | 10 | 0.99 | 0.97 | 1 | 8 |
| 3 | 277 | RS | | | 0.33 | | | | | | | |
| 3 | 120 | PS | PR432120M-PP-HE | 0 / -18 | 0.74 | 89 | 0.95 | 10 | 0.99 | 1.07 | 1 | 16 |
| 3 | 277 | PS | | | 0.33 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

T8

For F32T8 Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 4-LAMP F32T8 | | | | | | | | | | | | |
| 4 | 120 | IS | GTL432120 * | 0 / -18 | 1.58 | 101 | 0.82 | 160 | 0.50 | 0.81 | 1 | 5 |
| 4 | 120 | IS | GT432120 | 0 / -18 | 0.95 | 112 | 0.87 | 20 | 0.97 | 0.78 | 1 | 5 |
| 4 | 120 | IS | UT432120 | 0 / -18 | 0.93 | 109 | 0.86 | 10 | 0.99 | 0.79 | 1 | 5 |
| 4 | 120 | IS | UT432120L | 0 / -18 | 0.79 | 93 | 0.75 | 10 | 0.99 | 0.81 | 1 | 5 |
| 4 | 120 | IS | UT432120L-HE | 0 / -18 | 0.83 | 100 | 0.79 | 10 | 0.99 | 0.79 | 1 | 5 |
| 4 | 120 | RS | PR432120 | 32 / 0 | 1.02 | 121 | 0.88 | 10 | 0.99 | 0.73 | 1 | 9 |
| 4 | 347 | IS | GT432347 | 0 / -18 | 0.32 | 109 | 0.86 | 20 | 0.97 | 0.79 | 1 | 5 |
| 4 | 347 | IS | UT432347 | 0 / -18 | 0.32 | 112 | 0.88 | 10 | 0.99 | 0.79 | 1 | 5 |
| 4 | 347 | IS | UT432347H | 0 / -18 | 0.44 | 148 | 1.18 | 10 | 0.98 | 0.80 | 6 | 5 |
| 4 | 347 | IS | UT432347L | 0 / -18 | 0.29 | 99 | 0.78 | 10 | 0.99 | 0.79 | 1 | 5 |
| 4 | 347 | IS | UT432347-HE | 0 / -18 | 0.32 | 110 | 0.89 | 10 | 0.99 | 0.81 | 1 | 5 |
| 4 | 347 | RS | PR432347 | 32 / 0 | 0.35 | 121 | 0.88 | 10 | 0.99 | 0.73 | 1 | 9 |
| 4 | 347 | RS | PR432347L | 32 / 0 | 0.30 | 104 | 0.75 | 10 | 0.99 | 0.72 | 1 | 9 |
| 4 | 347 | PS | PR432347-PP-HE | 0 / -18 | 0.32 | 111 | 0.88 | 10 | 0.99 | 0.79 | 1 | 15 |
| 4 | 120 | IS | eT432120M | 0 / -18 | 0.90 | 108 | 0.87 | 10 | 0.99 | 0.81 | 1 | 5 |
| 4 | 277 | IS | | | 0.40 | | | | | | | |
| 4 | 120 | IS | UT432120M | 0 / -18 | 0.94 | 112 | 0.88 | 10 | 0.99 | 0.79 | 1 | 5 |
| 4 | 277 | IS | | | 0.41 | | | | | | | |
| 4 | 120 | IS | UT432120MH | 0 / -18 | 1.23 | 146 | 1.18 | 10 | 0.99 | 0.81 | 6 | 5 |
| 4 | 277 | IS | | | 0.52 | | | | | | | |
| 4 | 120 | IS | UT432120ML | 0 / -18 | 0.85 | 100 | 0.75 | 10 | 0.99 | 0.75 | 1 | 5 |
| 4 | 277 | IS | | | 0.37 | | | | | | | |
| 4 | 120 | IS | UT432120M-HE | 0 / -18 | 0.88 | 106 | 0.86 | 10 | 0.99 | 0.81 | 1 | 5 |
| 4 | 277 | IS | | | 0.37 | | | | | | | |
| 4 | 120 | RS | UT432120ML-HE | 0 / -18 | 0.80 | 96 | 0.76 | 10 | 0.99 | 0.79 | 1 | 5 |
| 4 | 277 | IS | | | 0.35 | | | | | | | |
| 4 | 120 | RS | PR432120M | 32 / 0 | 1.02 | 121 | 0.88 | 10 | 0.99 | 0.73 | 1 | 9 |
| 4 | 277 | RS | | | 0.44 | | | | | | | |
| 4 | 120 | PS | PR432120M-PP-HE | 0 / -18 | 0.91 | 110 | 0.88 | 10 | 0.99 | 0.80 | 1 | 15 |
| 4 | 277 | PS | | | 0.40 | | | | | | | |
| 6-LAMP F32T8 | | | | | | | | | | | | |
| 6 | 120 | IS | UT632120MH | 0 / -18 | 1.89 | 228 | 1.18 | 10 | 0.99 | 0.52 | 5 | 10 |
| 6 | 277 | IS | | | 0.84 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

For F32T8/ES (25W) Lamps

T8/ES

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F32T8/ES (25W) | | | | | | | | | | | | |
| 1 | 120 | IS | GTL132120* | 32 / 0 | 0.40 | 23 | 0.88 | 150 | 0.50 | 3.83 | 1 | 1 |
| 1 | 120 | IS | GT132120 | 32 / 0 | 0.23 | 28 | 0.96 | 20 | 0.97 | 3.43 | 1 | 1 |
| 1 | 120 | IS | ST132120 | 60 / 16 | 0.21 | 25 | 0.92 | 10 | 0.99 | 3.68 | 2 | 3 |
| 1 | 120 | IS | UT132120 | 60 / 16 | 0.22 | 26 | 0.90 | 10 | 0.99 | 3.46 | 1 | 1 |
| 1 | 120 | IS | UT132120L | 60 / 16 | 0.18 | 22 | 0.71 | 10 | 0.99 | 3.23 | 1 | 1 |
| 1 | 120 | IS | GTL232120* | 32 / 0 | 0.47 | 27 | 0.98 | 160 | 0.50 | 3.63 | 1 | 1 |
| 1 | 120 | IS | UT232120 | 60 / 16 | 0.25 | 30 | 1.04 | 10 | 0.99 | 3.47 | 1 | 12 |
| 1 | 120 | IS | UT232120L-HE | 60 / 16 | 0.22 | 26 | 0.97 | 10 | 0.99 | 3.79 | 1 | 12 |
| 1 | 120 | RS | PR132120 | 60 / 16 | 0.24 | 29 | 0.94 | 10 | 0.99 | 3.24 | 1 | 6 |
| 1 | 120 | RS | PR232120 | 60 / 16 | 0.27 | 32 | 0.93 | 10 | 0.99 | 2.91 | 1 | 11 |
| 1 | 120 | PS | SR132120 | 60 / 16 | 0.20 | 24 | 0.87 | 10 | 0.99 | 3.63 | 2 | 6 |
| 1 | 347 | IS | GT132347 | 32 / 0 | 0.09 | 29 | 0.96 | 20 | 0.97 | 3.34 | 1 | 1 |
| 1 | 347 | IS | UT132347 | 60 / 16 | 0.08 | 27 | 0.86 | 15 | 0.99 | 3.19 | 1 | 1 |
| 1 | 347 | IS | UT132347L | 60 / 16 | 0.07 | 24 | 0.71 | 15 | 0.98 | 2.96 | 1 | 1 |
| 1 | 347 | IS | UT232347 | 60 / 16 | 0.09 | 31 | 0.95 | 15 | 0.98 | 3.06 | 1 | 12 |
| 1 | 347 | IS | UT232347L | 60 / 16 | 0.07 | 25 | 0.86 | 20 | 0.97 | 3.44 | 1 | 12 |
| 1 | 347 | IS | UT232347-HE | 60 / 16 | 0.08 | 28 | 0.99 | 20 | 0.98 | 3.54 | 1 | 12 |
| 1 | 347 | RS | PR132347 | 60 / 16 | 0.09 | 30 | 0.91 | 15 | 0.99 | 3.03 | 1 | 6 |
| 1 | 347 | RS | PR232347 | 60 / 16 | 0.10 | 33 | 1.00 | 15 | 0.99 | 3.03 | 1 | 11 |
| 1 | 347 | PS | PR232347-PP-HE | 60 / 16 | 0.10 | 31 | 0.99 | 10 | 0.99 | 3.16 | 1 | 14 |
| 1 | 120 | IS | eT232120M | 60 / 16 | 0.26 | 31 | 1.13 | 10 | 0.99 | 3.65 | 4 | 1 |
| 1 | 277 | IS | | | 0.12 | | | | | | | |
| 1 | 120 | IS | UT132120M | 60 / 16 | 0.21 | 26 | 0.85 | 10 | 0.99 | 3.27 | 1 | 1 |
| 1 | 277 | IS | | | 0.10 | | | | | | | |
| 1 | 120 | IS | UT232120M | 60 / 16 | 0.25 | 31 | 0.95 | 15 | 0.98 | 3.06 | 1 | 12 |
| 1 | 277 | IS | | | 0.12 | | | | | | | |
| 1 | 120 | IS | UT232120ML | 60 / 16 | 0.21 | 25 | 0.79 | 15 | 0.97 | 3.16 | 1 | 12 |
| 1 | 277 | IS | | | 0.09 | | | | | | | |
| 1 | 120 | IS | UT232120M-HE | 60 / 16 | 0.23 | 27 | 1.05 | 10 | 0.99 | 3.89 | 1 | 12 |
| 1 | 277 | IS | | | 0.10 | | | | | | | |
| 1 | 120 | IS | UT232120ML-HE | 60 / 16 | 0.21 | 25 | 0.90 | 10 | 0.99 | 3.60 | 1 | 12 |
| 1 | 277 | IS | | | 0.09 | | | | | | | |
| 1 | 120 | RS | PR132120M | 60 / 16 | 0.25 | 30 | 0.91 | 10 | 0.99 | 3.03 | 1 | 6 |
| 1 | 277 | RS | | | 0.12 | | | | | | | |
| 1 | 120 | RS | PR232120M | 60 / 16 | 0.26 | 31 | 0.93 | 15 | 0.98 | 3.00 | 1 | 11 |
| 1 | 277 | RS | | | 0.12 | | | | | | | |
| 1 | 120 | PS | PR232120M-PP-HE | 60 / 16 | 0.25 | 31 | 0.98 | 10 | 0.99 | 3.16 | 1 | 14 |
| 1 | 277 | PS | | | 0.12 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 2-LAMP F32T8/ES (25W) | | | | | | | | | | | | |
| 2 | 120 | IS | GTL232120* | 32 / 0 | 0.67 | 42 | 0.81 | 160 | 0.50 | 1.93 | 1 | 2 |
| 2 | 120 | IS | GT232120 | 32 / 0 | 0.47 | 53 | 0.97 | 20 | 0.98 | 1.84 | 1 | 2 |
| 2 | 120 | IS | ST232120 | 60 / 16 | 0.43 | 50 | 0.99 | 10 | 0.99 | 1.98 | 2 | 2 |
| 2 | 120 | IS | ST232120E | 60 / 16 | 0.39 | 46 | 0.86 | 10 | 0.98 | 1.87 | 2 | 2 |
| 2 | 120 | IS | UT232120 | 60 / 16 | 0.40 | 47 | 0.89 | 10 | 0.99 | 1.89 | 1 | 2 |
| 2 | 120 | IS | UT232120L-HE | 60 / 16 | 0.35 | 41 | 0.78 | 10 | 0.99 | 1.91 | 1 | 2 |
| 2 | 120 | IS | UT332120 | 60 / 16 | 0.45 | 54 | 0.96 | 10 | 0.99 | 1.78 | 1 | 18 |
| 2 | 120 | RS | PR232120 | 60 / 16 | 0.44 | 53 | 0.90 | 10 | 0.99 | 1.70 | 1 | 7 |
| 2 | 120 | PS | SR232120 | 60 / 16 | 0.40 | 49 | 0.90 | 10 | 0.99 | 1.84 | 2 | 7 |
| 2 | 277 | IS | ST232277E | 60 / 16 | 0.17 | 45 | 0.84 | 15 | 0.98 | 1.87 | 2 | 2 |
| 2 | 347 | IS | GT232347 | 32 / 0 | 0.15 | 51 | 0.91 | 20 | 0.98 | 1.78 | 1 | 2 |
| 2 | 347 | IS | UT232347 | 60 / 16 | 0.14 | 49 | 0.89 | 10 | 0.99 | 1.82 | 1 | 2 |
| 2 | 347 | IS | UT232347L | 60 / 16 | 0.12 | 40 | 0.77 | 15 | 0.98 | 1.93 | 1 | 2 |
| 2 | 347 | IS | UT232347-HE | 60 / 16 | 0.13 | 45 | 0.88 | 10 | 0.99 | 1.96 | 1 | 2 |
| 2 | 347 | IS | UT332347 | 60 / 16 | 0.15 | 52 | 0.91 | 15 | 0.98 | 1.75 | 1 | 18 |
| 2 | 347 | IS | UT332347L | 60 / 16 | 0.14 | 47 | 0.87 | 10 | 0.99 | 1.85 | 1 | 18 |
| 2 | 347 | RS | PR232347 | 60 / 16 | 0.15 | 53 | 0.93 | 10 | 0.99 | 1.75 | 1 | 7 |
| 2 | 347 | PS | PR232347-PP-HE | 60 / 16 | 0.14 | 50 | 0.91 | 10 | 0.99 | 1.82 | 1 | 13 |
| 2 | 120 | IS | eT232120M | 60 / 16 | 0.40 | 47 | 0.90 | 10 | 0.99 | 1.91 | 4 | 2 |
| 2 | 277 | IS | eT232120M | 60 / 16 | 0.17 | 49 | 0.91 | 10 | 0.99 | 1.86 | 1 | 2 |
| 2 | 120 | IS | UT232120M | 60 / 16 | 0.40 | 49 | 0.91 | 10 | 0.99 | 1.86 | 1 | 2 |
| 2 | 277 | IS | UT232120ML | 60 / 16 | 0.15 | 39 | 0.70 | 10 | 0.99 | 1.79 | 1 | 2 |
| 2 | 120 | IS | UT232120M-HE | 60 / 16 | 0.37 | 44 | 0.87 | 10 | 0.99 | 1.98 | 1 | 2 |
| 2 | 277 | IS | UT232120ML-HE | 60 / 16 | 0.16 | 39 | 0.77 | 10 | 0.99 | 1.97 | 1 | 2 |
| 2 | 120 | IS | eT332120M | 60 / 16 | 0.42 | 50 | 0.97 | 10 | 0.99 | 1.94 | 1 | 18 |
| 2 | 277 | IS | UT332120M | 60 / 16 | 0.19 | 52 | 0.91 | 10 | 0.99 | 1.75 | 1 | 18 |
| 2 | 120 | IS | UT332120ML | 60 / 16 | 0.38 | 45 | 0.83 | 10 | 0.99 | 1.84 | 1 | 18 |
| 2 | 277 | RS | PR232120M | 60 / 16 | 0.17 | 52 | 0.90 | 10 | 0.99 | 1.73 | 1 | 7 |
| 2 | 120 | PS | PR232120M-PP-HE | 60 / 16 | 0.41 | 49 | 0.91 | 10 | 0.99 | 1.86 | 1 | 13 |
| 2 | 277 | PS | PR232120M-D | 60 / 16 | 0.19 | 47-11 | 1.10-0.05 | 10 | 0.99 | 2.34 | 7 | 17 |

*FOR RESIDENTIAL USE ONLY

For F32T8/ES (25W) Lamps

T8/ES

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 3-LAMP F32T8/ES (25W) | | | | | | | | | | | | |
| 3 | 120 | IS | GTL432120* | 32 / 0 | 1.14 | 69 | 0.91 | 160 | 0.50 | 1.32 | 1 | 5 |
| 3 | 120 | IS | GT332120 | 32 / 0 | 0.68 | 81 | 0.95 | 20 | 0.98 | 1.17 | 1 | 4 |
| 3 | 120 | IS | UT332120 | 60 / 16 | 0.59 | 70 | 0.89 | 10 | 0.99 | 1.27 | 1 | 4 |
| 3 | 120 | IS | UT432120 | 60 / 16 | 0.58 | 68 | 0.90 | 10 | 0.99 | 1.32 | 1 | 5 |
| 3 | 120 | IS | UT432120L | 60 / 16 | 0.51 | 61 | 0.80 | 10 | 0.99 | 1.31 | 1 | 19 |
| 3 | 120 | IS | UT432120L-HE | 60 / 16 | 0.53 | 64 | 0.87 | 10 | 0.99 | 1.36 | 1 | 19 |
| 3 | 120 | RS | PR332120 | 60 / 16 | 0.64 | 76 | 0.91 | 10 | 0.99 | 1.20 | 1 | 8 |
| 3 | 347 | IS | GT332347 | 32 / 0 | 0.23 | 77 | 0.89 | 20 | 0.98 | 1.16 | 1 | 4 |
| 3 | 347 | IS | UT332347 | 60 / 16 | 0.19 | 67 | 0.88 | 10 | 0.99 | 1.31 | 1 | 4 |
| 3 | 347 | IS | UT332347L | 60 / 16 | 0.17 | 60 | 0.77 | 10 | 0.99 | 1.28 | 1 | 4 |
| 3 | 347 | IS | UT432347 | 60 / 16 | 0.21 | 73 | 1.01 | 10 | 0.99 | 1.38 | 1 | 19 |
| 3 | 347 | IS | UT432347L | 60 / 16 | 0.19 | 64 | 0.85 | 10 | 0.99 | 1.33 | 1 | 19 |
| 3 | 347 | IS | UT432347-HE | 60 / 16 | 0.21 | 72 | 0.98 | 10 | 0.99 | 1.36 | 1 | 19 |
| 3 | 347 | RS | PR332347 | 60 / 16 | 0.22 | 74 | 0.90 | 10 | 0.99 | 1.22 | 1 | 8 |
| 3 | 347 | PS | PR432347-PP-HE | 60 / 16 | 0.22 | 75 | 0.95 | 10 | 0.99 | 1.27 | 1 | 16 |
| 3 | 120 | IS | eT332120M | 60 / 16 | 0.56 | 67 | 0.88 | 10 | 0.99 | 1.31 | 1 | 4 |
| 3 | 277 | IS | UT332120M | 60 / 16 | 0.24 | 68 | 0.85 | 10 | 0.99 | 1.25 | 1 | 4 |
| 3 | 120 | IS | UT332120ML | 60 / 16 | 0.57 | 60 | 0.74 | 10 | 0.99 | 1.23 | 1 | 4 |
| 3 | 277 | IS | eT432120M | 60 / 16 | 0.25 | 73 | 0.93 | 10 | 0.99 | 1.27 | 1 | 19 |
| 3 | 120 | IS | UT432120M | 60 / 16 | 0.61 | 72 | 0.93 | 10 | 0.99 | 1.29 | 1 | 19 |
| 3 | 277 | IS | UT432120ML | 60 / 16 | 0.27 | 63 | 0.83 | 10 | 0.99 | 1.32 | 1 | 19 |
| 3 | 120 | IS | UT432120M-HE | 60 / 16 | 0.62 | 73 | 0.96 | 10 | 0.99 | 1.32 | 1 | 19 |
| 3 | 277 | IS | UT432120ML-HE | 60 / 16 | 0.27 | 63 | 0.84 | 10 | 0.99 | 1.33 | 1 | 19 |
| 3 | 120 | RS | PR332120M | 60 / 16 | 0.64 | 78 | 0.88 | 10 | 0.99 | 1.13 | 1 | 8 |
| 3 | 277 | RS | PR432120M-PP-HE | 60 / 16 | 0.29 | 60 | 0.95 | 10 | 0.99 | 1.32 | 1 | 16 |

*FOR RESIDENTIAL USE ONLY

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 4-LAMP F32T8/ES (25W) | | | | | | | | | | | | |
| 4 | 120 | IS | GTL432120* | 32 / 0 | 1.33 | 84 | 0.82 | 160 | 0.50 | 0.98 | 1 | 5 |
| 4 | 120 | IS | GT432120 | 32 / 0 | 0.90 | 107 | 0.97 | 20 | 0.98 | 0.91 | 1 | 5 |
| 4 | 120 | IS | UT432120 | 60 / 16 | 0.71 | 83 | 0.86 | 10 | 0.99 | 1.04 | 1 | 5 |
| 4 | 120 | IS | UT432120L | 60 / 16 | 0.61 | 73 | 0.72 | 10 | 0.99 | 0.99 | 1 | 5 |
| 4 | 120 | IS | UT432120L-HE | 60 / 16 | 0.64 | 77 | 0.79 | 10 | 0.99 | 1.03 | 1 | 5 |
| 4 | 120 | RS | PR432120 | 60 / 16 | 0.77 | 92 | 0.90 | 10 | 0.99 | 0.98 | 1 | 9 |
| 4 | 347 | IS | GT432347 | 32 / 0 | 0.30 | 106 | 0.98 | 20 | 0.98 | 0.92 | 1 | 5 |
| 4 | 347 | IS | UT432347 | 60 / 16 | 0.25 | 87 | 0.91 | 10 | 0.99 | 1.05 | 1 | 5 |
| 4 | 347 | IS | UT432347H | 60 / 16 | 0.34 | 116 | 1.18 | 15 | 0.98 | 1.02 | 6 | 5 |
| 4 | 347 | IS | UT432347L | 60 / 16 | 0.22 | 76 | 0.78 | 10 | 0.99 | 1.03 | 1 | 5 |
| 4 | 347 | IS | UT432347-HE | 60 / 16 | 0.25 | 85 | 0.89 | 10 | 0.99 | 1.05 | 1 | 5 |
| 4 | 347 | RS | PR432347 | 60 / 16 | 0.29 | 100 | 0.91 | 10 | 0.99 | 0.91 | 1 | 9 |
| 4 | 347 | RS | PR432347L | 60 / 16 | 0.24 | 82 | 0.75 | 10 | 0.99 | 0.91 | 1 | 9 |
| 4 | 347 | PS | PR432347-PP-HE | 60 / 16 | 0.26 | 90 | 0.88 | 10 | 0.99 | 0.98 | 1 | 15 |
| 4 | 120 | IS | eT432120M | 60 / 16 | 0.72 | 87 | 0.87 | 10 | 0.99 | 1.00 | 1 | 5 |
| 4 | 277 | IS | | | 0.32 | | | | | | | |
| 4 | 120 | IS | UT432120M | 60 / 16 | 0.73 | 87 | 0.88 | 10 | 0.99 | 1.01 | 1 | 5 |
| 4 | 277 | IS | | | 0.32 | | | | | | | |
| 4 | 120 | IS | UT432120MH | 60 / 16 | 0.97 | 116 | 1.18 | 10 | 0.99 | 1.02 | 6 | 5 |
| 4 | 277 | IS | | | 0.42 | | | | | | | |
| 4 | 120 | IS | UT432120ML | 60 / 16 | 0.66 | 79 | 0.76 | 10 | 0.99 | 0.96 | 1 | 5 |
| 4 | 277 | IS | | | 0.29 | | | | | | | |
| 4 | 120 | IS | UT432120M-HE | 60 / 16 | 0.75 | 89 | 0.86 | 10 | 0.99 | 0.97 | 1 | 5 |
| 4 | 277 | IS | | | 0.32 | | | | | | | |
| 4 | 120 | IS | UT432120ML-HE | 60 / 16 | 0.65 | 78 | 0.76 | 10 | 0.99 | 0.97 | 1 | 5 |
| 4 | 277 | IS | | | 0.28 | | | | | | | |
| 4 | 120 | RS | PR432120M | 60 / 16 | 0.80 | 97 | 0.91 | 10 | 0.99 | 0.94 | 1 | 9 |
| 4 | 277 | RS | | | 0.36 | | | | | | | |
| 4 | 120 | PS | PR432120M-PP-HE | 60 / 16 | 0.74 | 88 | 0.88 | 10 | 0.99 | 1.00 | 1 | 15 |
| 4 | 277 | PS | | | 0.33 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

For F32T8/ES (28W) Lamps

T8/ES

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F32T8/ES (28W) | | | | | | | | | | | | |
| 1 | 120 | IS | GTL132120* | 32 / 0 | 0.40 | 24 | 0.89 | 150 | 0.50 | 3.71 | 1 | 1 |
| 1 | 120 | IS | GT132120 | 32 / 0 | 0.24 | 29 | 0.94 | 20 | 0.97 | 3.24 | 1 | 1 |
| 1 | 120 | IS | ST132120 | 60 / 16 | 0.22 | 26 | 0.90 | 10 | 0.99 | 3.46 | 2 | 3 |
| 1 | 120 | IS | UT132120 | 60 / 16 | 0.23 | 28 | 0.90 | 10 | 0.99 | 3.21 | 1 | 1 |
| 1 | 120 | IS | UT132120L | 60 / 16 | 0.19 | 23 | 0.71 | 10 | 0.99 | 3.09 | 1 | 1 |
| 1 | 120 | IS | GTL232120 | 32 / 0 | 0.49 | 28 | 1.00 | 160 | 0.50 | 3.57 | 1 | 12 |
| 1 | 120 | IS | UT232120 | 60 / 16 | 0.26 | 31 | 1.04 | 10 | 0.99 | 3.35 | 1 | 12 |
| 1 | 120 | IS | UT232120L-HE | 60 / 16 | 0.23 | 27 | 0.97 | 10 | 0.99 | 3.63 | 1 | 12 |
| 1 | 120 | RS | PR132120 | 60 / 16 | 0.26 | 31 | 0.93 | 10 | 0.99 | 3.00 | 1 | 6 |
| 1 | 120 | RS | PR232120 | 60 / 16 | 0.28 | 33 | 0.93 | 10 | 0.99 | 2.82 | 1 | 11 |
| 1 | 120 | PS | SR132120 | 60 / 16 | 0.21 | 25 | 0.87 | 10 | 0.99 | 3.48 | 2 | 6 |
| 1 | 347 | IS | GT132347 | 32 / 0 | 0.09 | 30 | 0.89 | 20 | 0.97 | 3.02 | 1 | 1 |
| 1 | 347 | IS | UT132347 | 60 / 16 | 0.08 | 28 | 0.87 | 10 | 0.99 | 3.11 | 1 | 1 |
| 1 | 347 | IS | UT132347L | 60 / 16 | 0.07 | 24 | 0.71 | 15 | 0.98 | 2.96 | 1 | 1 |
| 1 | 347 | IS | UT232347 | 60 / 16 | 0.10 | 33 | 0.95 | 15 | 0.98 | 2.88 | 1 | 12 |
| 1 | 347 | IS | UT232347L | 60 / 16 | 0.08 | 28 | 0.86 | 15 | 0.97 | 3.07 | 1 | 12 |
| 1 | 347 | IS | UT232347-HE | 60 / 16 | 0.09 | 30 | 1.00 | 15 | 0.98 | 3.33 | 1 | 12 |
| 1 | 347 | RS | PR132347 | 60 / 16 | 0.09 | 32 | 0.91 | 10 | 0.99 | 2.84 | 1 | 6 |
| 1 | 347 | RS | PR232347 | 60 / 16 | 0.10 | 35 | 1.01 | 15 | 0.99 | 2.89 | 1 | 11 |
| 1 | 347 | PS | PR232347-PP-HE | 60 / 16 | 0.10 | 33 | 0.98 | 10 | 0.99 | 2.97 | 1 | 14 |
| 1 | 120 | IS | UT132120M | 60 / 16 | 0.22 | 27 | 0.85 | 10 | 0.99 | 3.15 | 1 | 1 |
| 1 | 277 | IS | | 0.10 | | | | | | | | |
| 1 | 120 | IS | eT232120M | 60 / 16 | 0.27 0.12 | 33 | 1.13 | 10 | 0.99 | 3.42 | 4 | 12 |
| 1 | 277 | IS | UT232120M | 60 / 16 | 0.27 0.13 | 33 | 0.95 | 15 | 0.98 | 2.88 | 1 | 12 |
| 1 | 120 | IS | UT232120ML | 60 / 16 | 0.22 0.10 | 27 | 0.79 | 15 | 0.97 | 2.93 | 1 | 12 |
| 1 | 277 | IS | UT232120M-HE | 60 / 16 | 0.24 0.12 | 29 | 1.05 | 10 | 0.99 | 3.62 | 1 | 12 |
| 1 | 120 | IS | UT232120ML-HE | 60 / 16 | 0.22 0.09 | 26 | 0.90 | 10 | 0.99 | 3.46 | 1 | 12 |
| 1 | 277 | RS | PR132120M | 60 / 16 | 0.26 0.12 | 32 | 0.92 | 10 | 0.99 | 2.88 | 1 | 6 |
| 1 | 120 | RS | PR232120M | 60 / 16 | 0.27 0.13 | 33 | 0.93 | 15 | 0.99 | 2.82 | 1 | 11 |
| 1 | 277 | PS | PR232120M-PP-HE | 60 / 16 | 0.27 0.13 | 33 | 0.98 | 10 | 0.99 | 2.97 | 1 | 14 |

*FOR RESIDENTIAL USE ONLY

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 2-LAMP F32T8/ES (28W) | | | | | | | | | | | | |
| 2 | 120 | IS | GTL232120* | 32 / 0 | 0.69 | 43 | 0.82 | 160 | 0.50 | 1.91 | 1 | 2 |
| 2 | 120 | IS | GT232120 | 32 / 0 | 0.48 | 55 | 0.96 | 20 | 0.98 | 1.76 | 1 | 2 |
| 2 | 120 | IS | ST232120 | 60 / 16 | 0.44 | 52 | 0.95 | 10 | 0.99 | 1.83 | 2 | 2 |
| 2 | 120 | IS | ST232120E | 60 / 16 | 0.40 | 48 | 0.85 | 10 | 0.98 | 1.77 | 2 | 2 |
| 2 | 120 | IS | UT232120 | 60 / 16 | 0.40 | 48 | 0.89 | 10 | 0.99 | 1.85 | 1 | 2 |
| 2 | 120 | IS | UT232120L-HE | 60 / 16 | 0.36 | 43 | 0.78 | 10 | 0.99 | 1.83 | 1 | 2 |
| 2 | 120 | IS | UT332120 | 60 / 16 | 0.48 | 58 | 0.97 | 10 | 0.99 | 1.67 | 1 | 18 |
| 2 | 120 | RS | PR232120 | 60 / 16 | 0.47 | 57 | 0.90 | 10 | 0.99 | 1.58 | 1 | 7 |
| 2 | 120 | PS | SR232120 | 60 / 16 | 0.42 | 51 | 0.89 | 10 | 0.99 | 1.75 | 2 | 7 |
| 2 | 277 | IS | ST232277E | 60 / 16 | 0.17 | 46 | 0.83 | 15 | 0.98 | 1.80 | 2 | 2 |
| 2 | 347 | IS | GT232347 | 32 / 0 | 0.16 | 53 | 0.90 | 20 | 0.98 | 1.70 | 1 | 2 |
| 2 | 347 | IS | UT232347 | 60 / 16 | 0.15 | 52 | 0.88 | 10 | 0.99 | 1.69 | 1 | 2 |
| 2 | 347 | IS | UT232347L | 60 / 16 | 0.13 | 43 | 0.77 | 10 | 0.99 | 1.79 | 1 | 2 |
| 2 | 347 | IS | UT232347-HE | 60 / 16 | 0.14 | 48 | 0.89 | 10 | 0.99 | 1.85 | 1 | 2 |
| 2 | 347 | IS | UT332347 | 60 / 16 | 0.17 | 57 | 0.91 | 15 | 0.99 | 1.60 | 1 | 18 |
| 2 | 347 | IS | UT332347L | 60 / 16 | 0.14 | 49 | 0.87 | 10 | 0.99 | 1.78 | 1 | 18 |
| 2 | 347 | RS | PR232347 | 60 / 16 | 0.16 | 56 | 0.93 | 10 | 0.99 | 1.66 | 1 | 7 |
| 2 | 347 | PS | PR232347-PP-HE | 60 / 16 | 0.15 | 52 | 0.91 | 10 | 0.99 | 1.75 | 1 | 13 |
| 2 | 120 | IS | eT232120M | 60 / 16 | 0.42 | 50 | 0.90 | 10 | 0.99 | 1.80 | 4 | 2 |
| 2 | 277 | IS | eT232120M | 60 / 16 | 0.18 | 50 | 0.90 | 10 | 0.99 | 1.80 | 4 | 2 |
| 2 | 120 | IS | UT232120M | 60 / 16 | 0.42 | 52 | 0.91 | 10 | 0.99 | 1.75 | 1 | 2 |
| 2 | 277 | IS | UT232120ML | 60 / 16 | 0.19 | 41 | 0.70 | 10 | 0.99 | 1.71 | 1 | 2 |
| 2 | 120 | IS | UT232120M-HE | 60 / 16 | 0.34 | 45 | 0.87 | 10 | 0.99 | 1.93 | 1 | 2 |
| 2 | 277 | IS | UT232120ML-HE | 60 / 16 | 0.15 | 42 | 0.77 | 10 | 0.99 | 1.83 | 1 | 2 |
| 2 | 120 | IS | eT332120M | 60 / 16 | 0.39 | 55 | 0.97 | 10 | 0.99 | 1.76 | 1 | 18 |
| 2 | 277 | IS | UT332120M | 60 / 16 | 0.18 | 55 | 0.91 | 10 | 0.99 | 1.65 | 1 | 18 |
| 2 | 120 | IS | UT332120ML | 60 / 16 | 0.40 | 48 | 0.83 | 10 | 0.99 | 1.73 | 1 | 18 |
| 2 | 277 | IS | UT332120ML-HE | 60 / 16 | 0.18 | 56 | 0.89 | 10 | 0.99 | 1.59 | 1 | 7 |
| 2 | 120 | RS | PR232120M | 60 / 16 | 0.46 | 56 | 0.89 | 10 | 0.99 | 1.72 | 1 | 13 |
| 2 | 277 | RS | PR232120M-PP-HE | 60 / 16 | 0.19 | 53 | 0.91 | 10 | 0.99 | 1.72 | 1 | 13 |
| 2 | 120 | PS | PR232120M-D | 60 / 16 | 0.52-0.13 | 62-16 | 1.08-0.06 | 10 | 0.99 | 1.74 | 7 | 17 |
| 2 | 277 | PS | PR232120M-D | 60 / 16 | 0.22-0.06 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

For F32T8/ES (28W) Lamps

T8/ES

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 3-LAMP F32T8/ES (28W) | | | | | | | | | | | | |
| 3 | 120 | IS | GT332120 | 32 / 0 | 0.70 | 83 | 0.93 | 20 | 0.98 | 1.12 | 1 | 4 |
| 3 | 120 | IS | UT332120 | 60 / 16 | 0.63 | 75 | 0.90 | 10 | 0.99 | 1.20 | 1 | 4 |
| 3 | 120 | IS | GT432120* | 32 / 0 | 1.18 | 72 | 0.91 | 160 | 0.50 | 1.26 | 1 | 19 |
| 3 | 120 | IS | UT432120 | 60 / 16 | 0.61 | 72 | 0.90 | 10 | 0.99 | 1.25 | 1 | 19 |
| 3 | 120 | IS | UT432120L | 60 / 16 | 0.54 | 64 | 0.81 | 10 | 0.99 | 1.27 | 1 | 19 |
| 3 | 120 | IS | UT432120L-HE | 60 / 16 | 0.57 | 69 | 0.87 | 10 | 0.99 | 1.26 | 1 | 19 |
| 3 | 120 | RS | PR332120 | 60 / 16 | 0.71 | 84 | 0.90 | 10 | 0.99 | 1.07 | 1 | 8 |
| 3 | 347 | IS | GT332347 | 32 / 0 | 0.24 | 80 | 0.88 | 20 | 0.98 | 1.10 | 1 | 4 |
| 3 | 347 | IS | UT332347 | 60 / 16 | 0.22 | 74 | 0.87 | 10 | 0.99 | 1.18 | 1 | 4 |
| 3 | 347 | IS | UT332347L | 60 / 16 | 0.19 | 64 | 0.77 | 10 | 0.99 | 1.20 | 1 | 4 |
| 3 | 347 | IS | UT432347 | 60 / 16 | 0.23 | 80 | 1.02 | 10 | 0.99 | 1.28 | 1 | 19 |
| 3 | 347 | IS | UT432347L | 60 / 16 | 0.20 | 68 | 0.86 | 10 | 0.99 | 1.26 | 1 | 19 |
| 3 | 347 | IS | UT432347-HE | 60 / 16 | 0.22 | 76 | 0.98 | 10 | 0.99 | 1.29 | 1 | 19 |
| 3 | 347 | RS | PR332347 | 60 / 16 | 0.23 | 79 | 0.90 | 10 | 0.99 | 1.14 | 1 | 8 |
| 3 | 347 | PS | PR432347-PP-HE | 60 / 16 | 0.23 | 79 | 0.95 | 10 | 0.99 | 1.20 | 1 | 16 |
| 3 | 120 | IS | eT332120M | 60 / 16 | 0.61 | 73 | 0.88 | 10 | 0.99 | 1.21 | 1 | 4 |
| 3 | 277 | IS | UT332120M | 60 / 16 | 0.27 | 73 | 0.86 | 10 | 0.99 | 1.18 | 1 | 4 |
| 3 | 120 | IS | UT332120ML | 60 / 16 | 0.60 | 63 | 0.75 | 10 | 0.99 | 1.19 | 1 | 4 |
| 3 | 277 | IS | UT332120ML | 60 / 16 | 0.22 | 63 | 0.75 | 10 | 0.99 | 1.19 | 1 | 4 |
| 3 | 120 | IS | eT432120M | 60 / 16 | 0.64 | 77 | 0.92 | 10 | 0.99 | 1.19 | 1 | 19 |
| 3 | 277 | IS | UT432120M | 60 / 16 | 0.29 | 77 | 0.93 | 10 | 0.99 | 1.21 | 1 | 19 |
| 3 | 120 | IS | UT432120ML | 60 / 16 | 0.57 | 69 | 0.83 | 10 | 0.99 | 1.20 | 1 | 19 |
| 3 | 277 | IS | UT432120ML | 60 / 16 | 0.25 | 69 | 0.83 | 10 | 0.99 | 1.20 | 1 | 19 |
| 3 | 120 | IS | UT432120M-HE | 60 / 16 | 0.64 | 76 | 0.96 | 10 | 0.99 | 1.26 | 1 | 19 |
| 3 | 277 | IS | UT432120M-HE | 60 / 16 | 0.28 | 68 | 0.84 | 10 | 0.99 | 1.24 | 1 | 19 |
| 3 | 120 | RS | PR332120M | 60 / 16 | 0.68 | 82 | 0.87 | 10 | 0.99 | 1.06 | 1 | 8 |
| 3 | 277 | RS | PR332120M | 60 / 16 | 0.30 | 82 | 0.87 | 10 | 0.99 | 1.06 | 1 | 8 |
| 3 | 120 | PS | PR432120M-PP-HE | 60 / 16 | 0.65 | 77 | 0.95 | 10 | 0.99 | 1.23 | 1 | 16 |
| 3 | 277 | PS | PR432120M-PP-HE | 60 / 16 | 0.28 | 77 | 0.95 | 10 | 0.99 | 1.23 | 1 | 16 |

*FOR RESIDENTIAL USE ONLY

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 4-LAMP F32T8/ES (28W) | | | | | | | | | | | | |
| 4 | 120 | IS | GTL432120* | 32 / 0 | 1.36 | 86 | 0.82 | 160 | 0.50 | 0.95 | 1 | 5 |
| 4 | 120 | IS | GT432120 | 32 / 0 | 0.93 | 109 | 0.95 | 20 | 0.98 | 0.87 | 1 | 5 |
| 4 | 120 | IS | UT432120 | 60 / 16 | 0.75 | 88 | 0.86 | 10 | 0.99 | 0.98 | 1 | 5 |
| 4 | 120 | IS | UT432120L | 60 / 16 | 0.64 | 77 | 0.71 | 10 | 0.99 | 0.92 | 1 | 5 |
| 4 | 120 | IS | UT432120L-HE | 60 / 16 | 0.69 | 83 | 0.79 | 10 | 0.99 | 0.95 | 1 | 5 |
| 4 | 120 | RS | PR432120 | 60 / 16 | 0.86 | 102 | 0.89 | 10 | 0.99 | 0.87 | 1 | 9 |
| 4 | 347 | IS | GT432347 | 32 / 0 | 0.32 | 107 | 0.95 | 20 | 0.98 | 0.89 | 1 | 5 |
| 4 | 347 | IS | UT432347 | 60 / 16 | 0.28 | 97 | 0.90 | 10 | 0.99 | 0.93 | 1 | 5 |
| 4 | 347 | IS | UT432347H | 60 / 16 | 0.38 | 128 | 1.18 | 15 | 0.98 | 0.92 | 6 | 5 |
| 4 | 347 | IS | UT432347L | 60 / 16 | 0.23 | 81 | 0.78 | 10 | 0.99 | 0.96 | 1 | 5 |
| 4 | 347 | IS | UT432347-HE | 60 / 16 | 0.26 | 90 | 0.89 | 10 | 0.99 | 0.99 | 1 | 5 |
| 4 | 347 | RS | PR432347 | 60 / 16 | 0.30 | 104 | 0.90 | 10 | 0.99 | 0.87 | 1 | 9 |
| 4 | 347 | RS | PR432347L | 60 / 16 | 0.25 | 88 | 0.75 | 10 | 0.99 | 0.85 | 1 | 9 |
| 4 | 347 | PS | PR432347-PP-HE | 60 / 16 | 0.27 | 95 | 0.88 | 10 | 0.99 | 0.93 | 1 | 15 |
| 4 | 120 | IS | eT432120M | 60 / 16 | 0.77 | 92 | 0.87 | 10 | 0.99 | 0.95 | 1 | 5 |
| 4 | 277 | IS | | | 0.34 | | | | | | | |
| 4 | 120 | IS | UT432120M | 60 / 16 | 0.77 | 93 | 0.88 | 10 | 0.99 | 0.95 | 1 | 5 |
| 4 | 277 | IS | | | 0.34 | | | | | | | |
| 4 | 120 | IS | UT432120MH | 60 / 16 | 1.08 | 128 | 1.18 | 10 | 0.99 | 0.92 | 6 | 5 |
| 4 | 277 | IS | | | 0.46 | | | | | | | |
| 4 | 120 | IS | UT432120ML | 60 / 16 | 0.70 | 84 | 0.76 | 10 | 0.99 | 0.90 | 1 | 5 |
| 4 | 277 | IS | | | 0.31 | | | | | | | |
| 4 | 120 | IS | UT432120M-HE | 60 / 16 | 0.78 | 92 | 0.86 | 10 | 0.99 | 0.93 | 1 | 5 |
| 4 | 277 | IS | | | 0.33 | | | | | | | |
| 4 | 120 | IS | UT432120ML-HE | 60 / 16 | 0.70 | 84 | 0.76 | 10 | 0.99 | 0.90 | 1 | 5 |
| 4 | 277 | IS | | | 0.31 | | | | | | | |
| 4 | 120 | RS | PR432120M | 60 / 16 | 0.86 | 103 | 0.90 | 10 | 0.99 | 0.87 | 1 | 9 |
| 4 | 277 | RS | | | 0.38 | | | | | | | |
| 4 | 120 | PS | PR432120M-PP-HE | 60 / 16 | 0.77 | 93 | 0.88 | 10 | 0.99 | 0.95 | 1 | 15 |
| 4 | 277 | PS | | | 0.34 | | | | | | | |

*FOR RESIDENTIAL USE ONLY

For F32T8/ES (30W) Lamps

T8/ES

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F32T8/ES (30W) | | | | | | | | | | | | |
| 1 | 120 | IS | ST132120 | 60 / 16 | 0.23 | 28 | 0.88 | 10 | 0.99 | 3.14 | 2 | 3 |
| 1 | 120 | IS | UT132120 | 60 / 16 | 0.26 | 31 | 0.90 | 10 | 0.99 | 2.90 | 1 | 1 |
| 1 | 120 | IS | UT132120L | 60 / 16 | 0.20 | 24 | 0.71 | 10 | 0.99 | 2.96 | 1 | 1 |
| 1 | 120 | IS | UT232120 | 60 / 16 | 0.29 | 34 | 1.04 | 10 | 0.99 | 3.06 | 1 | 12 |
| 1 | 120 | IS | UT232120L-HE | 60 / 16 | 0.24 | 29 | 0.97 | 10 | 0.99 | 3.40 | 1 | 12 |
| 1 | 120 | RS | PR132120 | 60 / 16 | 0.28 | 33 | 0.93 | 10 | 0.99 | 2.82 | 1 | 6 |
| 1 | 120 | RS | PR232120 | 60 / 16 | 0.30 | 36 | 0.93 | 10 | 0.99 | 2.58 | 1 | 11 |
| 1 | 120 | PS | SR132120 | 60 / 16 | 0.23 | 27 | 0.87 | 10 | 0.99 | 3.22 | 2 | 6 |
| 1 | 347 | IS | UT132347 | 60 / 16 | 0.09 | 30 | 0.88 | 10 | 0.99 | 2.93 | 1 | 1 |
| 1 | 347 | IS | UT132347L | 60 / 16 | 0.08 | 26 | 0.71 | 10 | 0.99 | 2.73 | 1 | 1 |
| 1 | 347 | IS | UT232347 | 60 / 16 | 0.10 | 35 | 0.95 | 15 | 0.98 | 2.71 | 1 | 12 |
| 1 | 347 | IS | UT232347L | 60 / 16 | 0.09 | 30 | 0.86 | 15 | 0.97 | 2.87 | 1 | 12 |
| 1 | 347 | IS | UT232347-HE | 60 / 16 | 0.10 | 32 | 1.00 | 15 | 0.98 | 3.13 | 1 | 12 |
| 1 | 347 | RS | PR132347 | 60 / 16 | 0.10 | 33 | 0.91 | 10 | 0.99 | 2.76 | 1 | 6 |
| 1 | 347 | RS | PR232347 | 60 / 16 | 0.11 | 38 | 1.00 | 15 | 0.99 | 2.63 | 1 | 11 |
| 1 | 347 | PS | PR232347-PP-HE | 60 / 16 | 0.10 | 35 | 0.98 | 10 | 0.99 | 2.80 | 1 | 14 |
| 1 | 120 | IS | UT132120M | 60 / 16 | 0.24 | 29 | 0.85 | 10 | 0.99 | 2.93 | 1 | 1 |
| 1 | 277 | IS | | 0.11 | | | | | | | | |
| 1 | 120 | IS | eT232120M | 60 / 16 | 0.29 | 35 | 1.13 | 10 | 0.99 | 3.23 | 4 | 12 |
| 1 | 277 | IS | | 0.12 | | | | | | | | |
| 1 | 120 | IS | UT232120M | 60 / 16 | 0.29 | 36 | 0.95 | 15 | 0.98 | 2.64 | 1 | 12 |
| 1 | 277 | IS | | 0.13 | | | | | | | | |
| 1 | 120 | IS | UT232120ML | 60 / 16 | 0.23 | 29 | 0.79 | 15 | 0.97 | 2.72 | 1 | 12 |
| 1 | 277 | IS | | 0.11 | | | | | | | | |
| 1 | 120 | IS | UT232120M-HE | 60 / 16 | 0.27 | 32 | 1.05 | 10 | 0.99 | 3.28 | 1 | 12 |
| 1 | 277 | IS | | 0.12 | | | | | | | | |
| 1 | 120 | IS | UT232120ML-HE | 60 / 16 | 0.23 | 28 | 0.90 | 10 | 0.99 | 3.21 | 1 | 12 |
| 1 | 277 | IS | | 0.10 | | | | | | | | |
| 1 | 120 | RS | PR132120M | 60 / 16 | 0.28 | 34 | 0.93 | 10 | 0.99 | 2.74 | 1 | 6 |
| 1 | 277 | RS | | 0.13 | | | | | | | | |
| 1 | 120 | RS | PR232120M | 60 / 16 | 0.29 | 35 | 0.93 | 15 | 0.99 | 2.66 | 1 | 11 |
| 1 | 277 | RS | | 0.13 | | | | | | | | |
| 1 | 120 | PS | PR232120M-PP-HE | 60 / 16 | 0.29 | 35 | 0.98 | 10 | 0.99 | 2.80 | 1 | 14 |
| 1 | 277 | PS | | 0.13 | | | | | | | | |

*FOR RESIDENTIAL USE ONLY

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 2-LAMP F32T8/ES (30W) | | | | | | | | | | | | |
| 2 | 120 | IS | ST232120 | 60 / 16 | 0.46 | 55 | 0.88 | 10 | 0.99 | 1.60 | 2 | 2 |
| 2 | 120 | IS | ST232120E | 60 / 16 | 0.42 | 50 | 0.82 | 10 | 0.98 | 1.64 | 2 | 2 |
| 2 | 120 | IS | UT232120 | 60 / 16 | 0.45 | 53 | 0.89 | 10 | 0.99 | 1.68 | 1 | 2 |
| 2 | 120 | IS | UT232120L-HE | 60 / 16 | 0.39 | 47 | 0.78 | 10 | 0.99 | 1.68 | 1 | 2 |
| 2 | 120 | IS | UT332120 | 60 / 16 | 0.51 | 61 | 0.97 | 10 | 0.99 | 1.59 | 1 | 18 |
| 2 | 120 | RS | PR232120 | 60 / 16 | 0.51 | 61 | 0.90 | 10 | 0.99 | 1.48 | 1 | 7 |
| 2 | 120 | PS | SR232120 | 60 / 16 | 0.44 | 53 | 0.86 | 10 | 0.99 | 1.62 | 2 | 7 |
| 2 | 277 | IS | ST232277E | 60 / 16 | 0.18 | 48 | 0.81 | 11 | 0.98 | 1.69 | 2 | 2 |
| 2 | 347 | IS | UT232347 | 60 / 16 | 0.16 | 55 | 0.89 | 10 | 0.99 | 1.62 | 1 | 2 |
| 2 | 347 | IS | UT232347L | 60 / 16 | 0.13 | 46 | 0.77 | 10 | 0.99 | 1.67 | 1 | 2 |
| 2 | 347 | IS | UT232347-HE | 60 / 16 | 0.15 | 51 | 0.89 | 10 | 0.99 | 1.75 | 1 | 2 |
| 2 | 347 | IS | UT332347 | 60 / 16 | 0.18 | 62 | 0.92 | 15 | 0.99 | 1.48 | 1 | 18 |
| 2 | 347 | IS | UT332347L | 60 / 16 | 0.15 | 52 | 0.88 | 10 | 0.99 | 1.69 | 1 | 18 |
| 2 | 347 | RS | PR232347 | 60 / 16 | 0.17 | 59 | 0.92 | 10 | 0.99 | 1.56 | 1 | 7 |
| 2 | 347 | PS | PR232347-PP-HE | 60 / 16 | 0.17 | 57 | 0.91 | 10 | 0.99 | 1.60 | 1 | 13 |
| 2 | 120 | IS | eT232120M | 60 / 16 | 0.47 | 56 | 0.90 | 10 | 0.99 | 1.61 | 4 | 2 |
| 2 | 277 | IS | | 60 / 16 | 0.21 | | | | | | | |
| 2 | 120 | IS | UT232120M | 60 / 16 | 0.46 | 57 | 0.91 | 10 | 0.99 | 1.60 | 1 | 2 |
| 2 | 277 | IS | | 60 / 16 | 0.22 | | | | | | | |
| 2 | 120 | IS | UT232120M-HE | 60 / 16 | 0.43 | 51 | 0.87 | 10 | 0.99 | 1.71 | 1 | 2 |
| 2 | 277 | IS | | 60 / 16 | 0.19 | | | | | | | |
| 2 | 120 | IS | UT232120ML | 60 / 16 | 0.37 | 44 | 0.71 | 10 | 0.99 | 1.61 | 1 | 2 |
| 2 | 277 | IS | | 60 / 16 | 0.16 | | | | | | | |
| 2 | 120 | IS | UT232120ML-HE | 60 / 16 | 0.38 | 45 | 0.77 | 10 | 0.99 | 1.71 | 1 | 2 |
| 2 | 277 | IS | | 60 / 16 | 0.16 | | | | | | | |
| 2 | 120 | IS | eT332120M | 60 / 16 | 0.50 | 60 | 0.97 | 10 | 0.99 | 1.62 | 1 | 18 |
| 2 | 277 | IS | | 60 / 16 | 0.22 | | | | | | | |
| 2 | 120 | IS | UT332120M | 60 / 16 | 0.49 | 60 | 0.91 | 10 | 0.99 | 1.52 | 1 | 18 |
| 2 | 277 | IS | | 60 / 16 | 0.22 | | | | | | | |
| 2 | 120 | IS | UT332120ML | 60 / 16 | 0.43 | 51 | 0.84 | 10 | 0.99 | 1.65 | 1 | 18 |
| 2 | 277 | IS | | 60 / 16 | 0.19 | | | | | | | |
| 2 | 120 | RS | PR232120M | 60 / 16 | 0.49 | 59 | 0.88 | 10 | 0.99 | 1.49 | 1 | 7 |
| 2 | 277 | RS | | 60 / 16 | 0.21 | | | | | | | |
| 2 | 120 | PS | PR232120M-PP-HE | 60 / 16 | 0.47 | 56 | 0.91 | 10 | 0.99 | 1.63 | 1 | 13 |
| 2 | 277 | PS | | 60 / 16 | 0.21 | | | | | | | |
| 2 | 120 | PS | PR232120M-D | 60 / 16 | 0.55-0.13 | 65-16 | 1.02-0.05 | 10 | 0.99 | 1.57 | 7 | 17 |
| 2 | 277 | PS | | 60 / 16 | 0.23-0.06 | | | | | | | |

For F32T8/ES (30W) Lamps

T8/ES

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 3-LAMP F32T8/ES (30W) | | | | | | | | | | | | |
| 3 | 120 | IS | UT332120 | 60 / 16 | 0.67 | 80 | 0.90 | 10 | 0.99 | 1.13 | 1 | 4 |
| 3 | 120 | IS | UT432120 | 60 / 16 | 0.69 | 81 | 0.90 | 10 | 0.99 | 1.11 | 1 | 5 |
| 3 | 120 | IS | UT432120L | 60 / 16 | 0.59 | 71 | 0.80 | 10 | 0.99 | 1.13 | 1 | 19 |
| 3 | 120 | IS | UT432120L-HE | 60 / 16 | 0.63 | 76 | 0.87 | 10 | 0.99 | 1.14 | 1 | 19 |
| 3 | 120 | RS | PR332120 | 60 / 16 | 0.76 | 90 | 0.90 | 10 | 0.99 | 1.00 | 1 | 8 |
| 3 | 347 | IS | UT332347 | 60 / 16 | 0.23 | 78 | 0.87 | 10 | 0.99 | 1.12 | 1 | 4 |
| 3 | 347 | IS | UT332347L | 60 / 16 | 0.20 | 69 | 0.78 | 10 | 0.99 | 1.13 | 1 | 4 |
| 3 | 347 | IS | UT432347 | 60 / 16 | 0.25 | 87 | 1.01 | 10 | 0.99 | 1.16 | 1 | 19 |
| 3 | 347 | IS | UT432347L | 60 / 16 | 0.22 | 74 | 0.87 | 10 | 0.99 | 1.18 | 1 | 19 |
| 3 | 347 | IS | UT432347-HE | 60 / 16 | 0.24 | 84 | 0.98 | 10 | 0.99 | 1.17 | 1 | 19 |
| 3 | 347 | RS | PR332347 | 60 / 16 | 0.25 | 85 | 0.89 | 10 | 0.99 | 1.05 | 1 | 8 |
| 3 | 347 | PS | PR432347-PP-HE | 60 / 16 | 0.25 | 85 | 0.95 | 10 | 0.99 | 1.12 | 1 | 16 |
| 3 | 120 | IS | eT332120M | 60 / 16 | 0.69 | 82 | 0.89 | 10 | 0.99 | 1.09 | 1 | 4 |
| 3 | 277 | IS | | | 0.30 | | | | | | | |
| 3 | 120 | IS | UT332120M | 60 / 16 | 0.66 | 80 | 0.86 | 10 | 0.99 | 1.08 | 1 | 4 |
| 3 | 277 | IS | | | 0.29 | | | | | | | |
| 3 | 120 | IS | UT332120ML | 60 / 16 | 0.56 | 67 | 0.75 | 10 | 0.99 | 1.12 | 1 | 4 |
| 3 | 277 | IS | | | 0.24 | | | | | | | |
| 3 | 120 | IS | eT432120M | 60 / 16 | 0.69 | 82 | 0.91 | 10 | 0.99 | 1.11 | 1 | 19 |
| 3 | 277 | IS | | | 0.30 | | | | | | | |
| 3 | 120 | IS | UT432120M | 60 / 16 | 0.70 | 84 | 0.93 | 10 | 0.99 | 1.11 | 1 | 19 |
| 3 | 277 | IS | | | 0.31 | | | | | | | |
| 3 | 120 | IS | UT432120ML | 60 / 16 | 0.62 | 75 | 0.84 | 10 | 0.99 | 1.12 | 1 | 19 |
| 3 | 277 | IS | | | 0.27 | | | | | | | |
| 3 | 120 | IS | UT432120M-HE | 60 / 16 | 0.70 | 83 | 0.96 | 10 | 0.99 | 1.16 | 1 | 19 |
| 3 | 277 | IS | | | 0.30 | | | | | | | |
| 3 | 120 | IS | UT432120ML-HE | 60 / 16 | 0.63 | 75 | 0.83 | 10 | 0.99 | 1.11 | 1 | 19 |
| 3 | 277 | IS | | | 0.27 | | | | | | | |
| 3 | 120 | IS | PR332120M | 60 / 16 | 0.73 | 90 | 0.87 | 10 | 0.99 | 0.97 | 1 | 8 |
| 3 | 277 | IS | | | 0.33 | | | | | | | |
| 3 | 120 | IS | PR432120M-PP-HE | 60 / 16 | 0.70 | 83 | 0.95 | 10 | 0.99 | 1.14 | 1 | 16 |
| 3 | 277 | IS | | | 0.30 | | | | | | | |

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 4-LAMP F32T8/ES (30W) | | | | | | | | | | | | |
| 4 | 120 | IS | UT432120 | 60 / 16 | 0.82 | 97 | 0.86 | 10 | 0.99 | 0.89 | 1 | 5 |
| 4 | 120 | IS | UT432120L | 60 / 16 | 0.70 | 84 | 0.72 | 10 | 0.99 | 0.86 | 1 | 5 |
| 4 | 120 | IS | UT432120L-HE | 60 / 16 | 0.76 | 92 | 0.79 | 10 | 0.99 | 0.86 | 1 | 5 |
| 4 | 120 | RS | PR432120 | 60 / 16 | 0.93 | 110 | 0.89 | 10 | 0.99 | 0.81 | 1 | 9 |
| 4 | 347 | IS | UT432347 | 60 / 16 | 0.30 | 104 | 0.89 | 10 | 0.99 | 0.86 | 1 | 5 |
| 4 | 347 | IS | UT432347H | 60 / 16 | 0.41 | 138 | 1.18 | 15 | 0.98 | 0.86 | 6 | 5 |
| 4 | 347 | IS | UT432347L | 60 / 16 | 0.26 | 89 | 0.79 | 10 | 0.99 | 0.89 | 1 | 5 |
| 4 | 347 | IS | UT432347-HE | 60 / 16 | 0.29 | 100 | 0.89 | 10 | 0.99 | 0.89 | 1 | 5 |
| 4 | 347 | RS | PR432347 | 60 / 16 | 0.32 | 111 | 0.90 | 10 | 0.99 | 0.81 | 1 | 9 |
| 4 | 347 | RS | PR432347L | 60 / 16 | 0.27 | 94 | 0.76 | 10 | 0.99 | 0.81 | 1 | 9 |
| 4 | 347 | PS | PR432347-PP-HE | 60 / 16 | 0.30 | 103 | 0.88 | 10 | 0.99 | 0.85 | 1 | 15 |
| 4 | 120 | IS | eT432120M | 60 / 16 | 0.83 0.36 | 99 | 0.87 | 10 | 0.99 | 0.88 | 1 | 5 |
| 4 | 277 | IS | UT432120M | 60 / 16 | 0.84 0.37 | 101 | 0.88 | 10 | 0.99 | 0.87 | 1 | 5 |
| 4 | 120 | IS | UT432120MH | 60 / 16 | 1.08 0.50 | 138 | 1.18 | 10 | 0.99 | 0.86 | 6 | 5 |
| 4 | 277 | IS | UT432120ML | 60 / 16 | 0.76 0.33 | 91 | 0.76 | 10 | 0.99 | 0.84 | 1 | 5 |
| 4 | 120 | IS | UT432120M-HE | 60 / 16 | 0.85 0.36 | 101 | 0.86 | 10 | 0.99 | 0.85 | 1 | 5 |
| 4 | 277 | IS | UT432120ML-HE | 60 / 16 | 0.75 0.33 | 90 | 0.76 | 10 | 0.99 | 0.84 | 1 | 5 |
| 4 | 120 | RS | PR432120M | 60 / 16 | 0.92 0.40 | 111 | 0.89 | 10 | 0.99 | 0.80 | 1 | 9 |
| 4 | 277 | RS | PR432120M-PP-HE | 60 / 16 | 0.85 0.37 | 101 | 0.88 | 10 | 0.99 | 0.87 | 1 | 15 |

For F96T8 Lamps

T8
SLIMLINE

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F96T8 | | | | | | | | | | | | |
| 1 | 120 | IS | UT260120M | 32 / 0 | 0.58 | 69 | 1.02 | 10 | 0.99 | 1.47 | 1 | 12 |
| 1 | 277 | IS | UT260347 | 32 / 0 | 0.25 | 72 | 1.18 | 10 | 0.99 | 1.75 | 1 | 12 |
| 1 | 347 | IS | UT260347 | 32 / 0 | 0.21 | 72 | 1.18 | 10 | 0.99 | 1.75 | 1 | 12 |
| 2-LAMP F96T8 | | | | | | | | | | | | |
| 2 | 120 | IS | UT260120M | 32 / 0 | 0.92 | 110 | 0.88 | 10 | 0.99 | 0.81 | 1 | 2 |
| 2 | 277 | IS | UT260347 | 32 / 0 | 0.40 | 112 | 0.91 | 10 | 0.99 | 0.81 | 1 | 2 |
| 2 | 347 | IS | UT260347 | 32 / 0 | 0.33 | 112 | 0.91 | 10 | 0.99 | 0.81 | 1 | 2 |

T8HO

For F48T8HO, F96T8HO Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|-----------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F48T8HO | | | | | | | | | | | | |
| 1 | 120 | RS | PR244120M | 14 / -10 | 0.44 | 53 | 0.95 | 10 | 0.99 | 1.79 | 1 | 11 |
| 1 | 277 | RS | | 14 / -10 | 0.20 | | | | | | | |
| 1 | 347 | RS | PR244347 | 14 / -10 | 0.15 | 49 | 0.91 | 10 | 0.99 | 1.86 | 1 | 11 |
| 2-LAMP F48T8HO | | | | | | | | | | | | |
| 2 | 120 | RS | PR244120M | 14 / -10 | 0.75 | 91 | 0.92 | 10 | 0.99 | 1.01 | 1 | 7 |
| 2 | 277 | RS | | 14 / -10 | 0.33 | | | | | | | |
| 2 | 347 | RS | PR244347 | 14 / -10 | 0.26 | 86 | 0.87 | 10 | 0.99 | 1.01 | 1 | 7 |
| 1-LAMP F96T8HO | | | | | | | | | | | | |
| 1 | 120 | RS | PR286120M | 14 / -10 | 0.83 | 100 | 1.00 | 10 | 0.99 | 1.00 | 3 | 11 |
| 1 | 277 | RS | | 0.36 | | | | | | | | |
| 1 | 347 | RS | PR286347 | 14 / -10 | 0.28 | 98 | 1.04 | 10 | 0.99 | 1.06 | 3 | 11 |
| 2-LAMP F96T8HO | | | | | | | | | | | | |
| 2 | 120 | RS | PR286120M | 14 / -10 | 1.38 | 165 | 0.94 | 10 | 0.99 | 0.57 | 3 | 7 |
| 2 | 277 | RS | | 0.60 | | | | | | | | |
| 2 | 347 | RS | PR286347 | 14 / -10 | 0.48 | 164 | 0.96 | 10 | 0.99 | 0.59 | 3 | 7 |

Figure 1

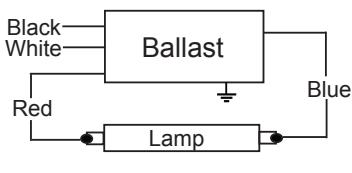


Figure 2

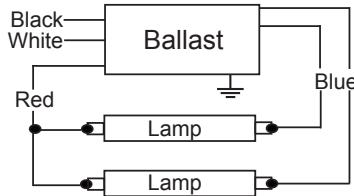


Figure 3

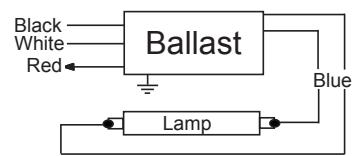


Figure 4

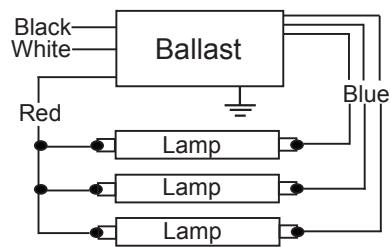


Figure 5

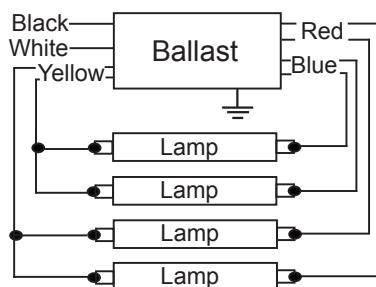


Figure 6

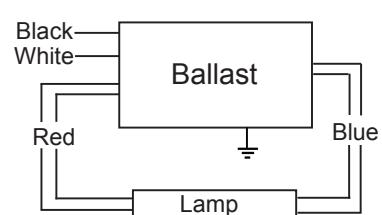


Figure 7

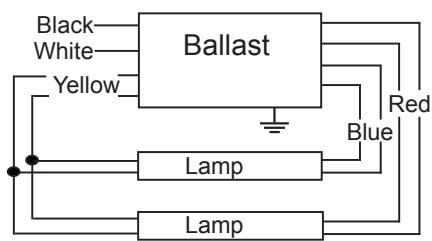


Figure 8

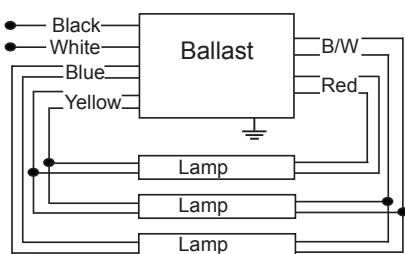
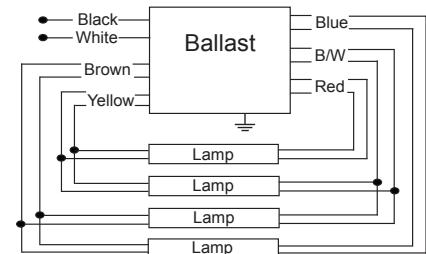


Figure 9



T8 SERIES

Figure 10

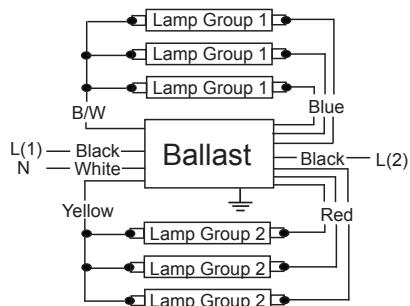


Figure 11

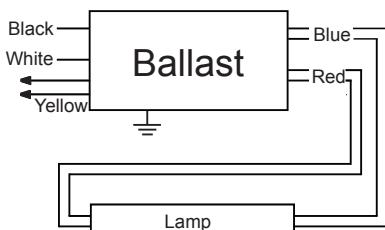


Figure 12

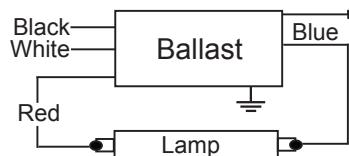


Figure 13

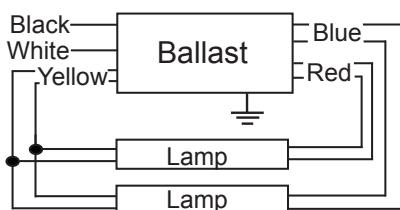


Figure 14

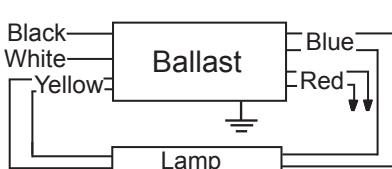


Figure 15

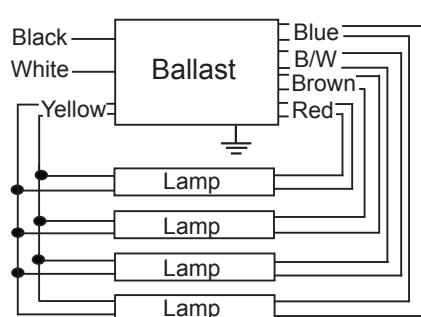


Figure 16

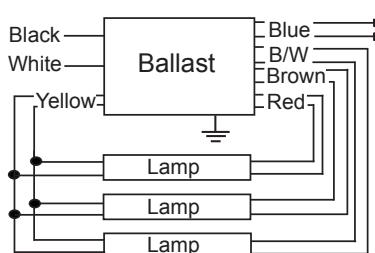


Figure 17

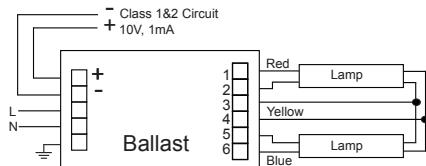


Figure 18

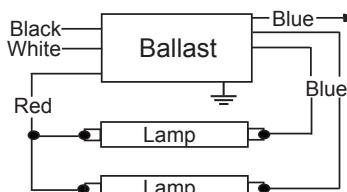
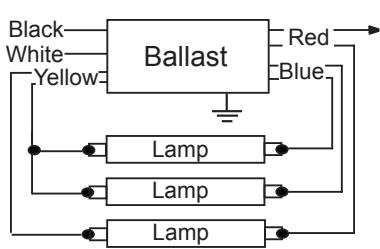


Figure 19



BALLAST DIMENSIONS

| DIM. # | LENGTH | WIDTH | HEIGHT | MOUNTING |
|--------|--------|-------|--------|----------|
| 1 | 9.50" | 1.72" | 1.18" | 8.90" |
| 2 | 9.50" | 1.30" | 1.10" | 8.90" |
| 3 | 9.50" | 2.40" | 1.44" | 8.90" |
| 4 | 9.50" | 1.26" | 1.15" | 8.90" |
| 5 | 17.8" | 1.72" | 1.22" | 17.32" |
| 6 | 9.50" | 2.41" | 1.43" | 8.90" |
| 7 | 15.50" | 1.49" | 1.14" | 15.20" |

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|-------------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F40T12 | | | | | | | | | | | | |
| 1 | 120 | RS | GR140120 | 32 / 0 | 0.30 | 35 | 0.84 | 25 | 0.97 | 2.40 | 1 | 2 |
| 1 | 347 | RS | GR140347 | 32 / 0 | 0.11 | 36 | 0.86 | 25 | 0.97 | 2.39 | 1 | 2 |
| 2-LAMP F40T12 | | | | | | | | | | | | |
| 2 | 120 | RS | GR240120 | 32 / 0 | 0.61 | 71 | 0.84 | 20 | 0.98 | 1.18 | 1 | 3 |
| 2 | 347 | RS | GR240347 | 32 / 0 | 0.21 | 71 | 0.84 | 25 | 0.97 | 1.18 | 1 | 3 |
| 1-LAMP F40T12/ES | | | | | | | | | | | | |
| 1 | 120 | RS | GR140120 | 60 / 16 | 0.27 | 32 | 0.84 | 25 | 0.97 | 2.63 | 1 | 2 |
| 1 | 347 | RS | GR140347 | 60 / 16 | 0.09 | 33 | 0.86 | 25 | 0.97 | 2.61 | 1 | 2 |
| 2-LAMP F40T12/ES | | | | | | | | | | | | |
| 2 | 120 | RS | GR240120 | 60 / 16 | 0.57 | 66 | 0.84 | 20 | 0.97 | 1.27 | 1 | 3 |
| 2 | 347 | RS | GR240347 | 60 / 16 | 0.19 | 63 | 0.83 | 25 | 0.97 | 1.32 | 1 | 3 |

T12 SLIMLINE

For F60T12, F96T12, F96T12/ES Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|-------------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F60T12 | | | | | | | | | | | | |
| 1 | 120 | IS | UT275120M | 32 / 0 | 0.51 0.23 | 60 | 1.20 | 10 | 0.99 | 2.00 | 2 | 5 |
| 1 | 277 | IS | UT275347 | 32 / 0 | 0.17 | 58 | 1.21 | 10 | 0.99 | 2.09 | 2 | 5 |
| 2-LAMP F60T12 | | | | | | | | | | | | |
| 2 | 120 | IS | UT275120M | 32 / 0 | 0.81 0.35 | 96 | 1.00 | 10 | 0.99 | 1.04 | 2 | 1 |
| 2 | 277 | IS | UT275347 | 32 / 0 | 0.27 | 94 | 1.03 | 10 | 0.99 | 1.10 | 2 | 1 |
| 1-LAMP F96T12 | | | | | | | | | | | | |
| 1 | 120 | IS | UT275120M | 32 / 0 | 0.80 0.34 | 95 | 1.19 | 10 | 0.99 | 1.25 | 2 | 5 |
| 1 | 277 | IS | UT275347 | 32 / 0 | 0.26 | 90 | 1.19 | 10 | 0.99 | 1.32 | 2 | 5 |
| 2-LAMP F96T12 | | | | | | | | | | | | |
| 2 | 120 | IS | UT275120M | 32 / 0 | 1.28 0.54 | 153 | 1.00 | 15 | 0.99 | 0.65 | 2 | 1 |
| 2 | 277 | IS | UT275347 | 32 / 0 | 0.44 | 150 | 1.00 | 15 | 0.99 | 0.67 | 2 | 1 |
| 1-LAMP F96T12/ES | | | | | | | | | | | | |
| 1 | 120 | IS | UT275120M | 60 / 16 | 0.60 0.26 | 72 | 1.14 | 10 | 0.99 | 1.58 | 2 | 5 |
| 1 | 277 | IS | UT275347 | 60 / 16 | 0.19 | 67 | 1.14 | 10 | 0.99 | 1.70 | 2 | 5 |
| 2-LAMP F96T12/ES | | | | | | | | | | | | |
| 2 | 120 | IS | UT275120M | 60 / 16 | 0.99 0.42 | 117 | 1.00 | 10 | 0.99 | 0.85 | 2 | 1 |
| 2 | 277 | IS | UT275347 | 60 / 16 | 0.34 | 117 | 1.00 | 10 | 0.99 | 0.85 | 2 | 1 |

For F48T12HO, F72T12HO, F96T12HO Lamps

T12HO

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 2-LAMP F48T12HO | | | | | | | | | | | | |
| 2 | 120 | RS | PR2110120M | -20 / -29 | 0.94 | 110 | 0.88 | 15 | 0.98 | 0.80 | 3 | 3 |
| 2 | 277 | RS | | | 0.40 | | | | | | | |
| 2 | 347 | RS | PR2110347 | -20 / -29 | 0.34 | 117 | 0.89 | 15 | 0.99 | 0.76 | 3 | 3 |
| 2-LAMP F72T12HO | | | | | | | | | | | | |
| 2 | 120 | RS | PR2110120M | -20 / -29 | 1.31 | 156 | 0.87 | 10 | 0.99 | 0.56 | 3 | 3 |
| 2 | 277 | RS | | | 0.57 | | | | | | | |
| 2 | 347 | RS | PR2110347 | -20 / -29 | 0.45 | 156 | 0.87 | 10 | 0.99 | 0.56 | 3 | 3 |
| 1-LAMP F96T12HO | | | | | | | | | | | | |
| 1 | 120 | RS | PR2110120M | -20 / -29 | 0.94 | 111 | 0.88 | 10 | 0.99 | 0.79 | 3 | 4 |
| 1 | 277 | RS | | | 0.41 | | | | | | | |
| 1 | 347 | RS | PR2110347 | -20 / -29 | 0.32 | 110 | 0.88 | 10 | 0.99 | 0.80 | 3 | 4 |
| 2-LAMP F96T12HO | | | | | | | | | | | | |
| 2 | 120 | RS | PR2110120M | -20 / -29 | 1.64 | 196 | 0.83 | 10 | 0.99 | 0.42 | 3 | 3 |
| 2 | 277 | RS | | | 0.69 | | | | | | | |
| 2 | 347 | RS | PR2110347 | -20 / -29 | 0.56 | 192 | 0.84 | 10 | 0.99 | 0.44 | 3 | 3 |

T12 SERIES

Figure 1

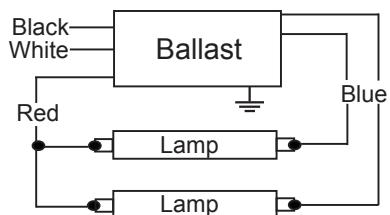


Figure 2

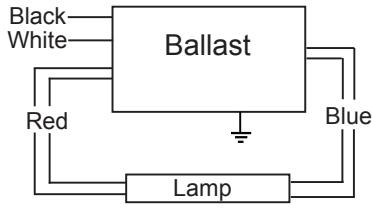


Figure 3

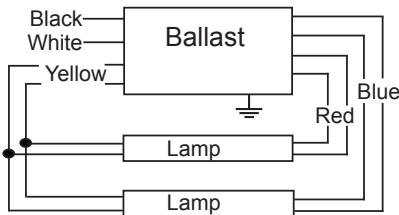


Figure 4

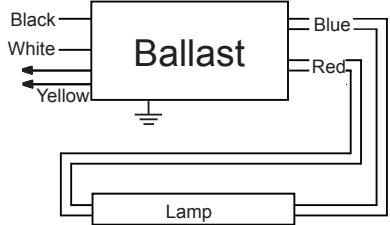
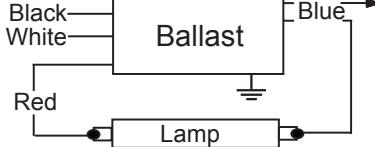


Figure 5



BALLAST DIMENSIONS

| DIM. # | LENGTH | WIDTH | HEIGHT | MOUNTING |
|--------|--------|-------|--------|----------|
| 1 | 9.50" | 1.72" | 1.18" | 8.90" |
| 2 | 9.50" | 2.28" | 1.38" | 8.90" |
| 3 | 11.61" | 2.40" | 1.57" | 11.26" |

For F14T5, F21T5 Lamps

T5

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|---------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F14T5 | | | | | | | | | | | | |
| 1 | 120 | PS | ER221120MHT | -20 / -29 | 0.15 0.07 | 18 | 1.00 | 10 | 0.99 | 5.56 | 3 | 5 |
| 1 | 277 | PS | ER221120MHT-W | -20 / -29 | 0.15 0.07 | 18 | 1.06 | 10 | 0.99 | 5.89 | 1 | 7 |
| 1 | 277 | PS | ER221347MHT | -20 / -29 | 0.07 0.05 | 18 | 1.00 | 10 | 0.99 | 5.56 | 3 | 5 |
| 2-LAMP F14T5 | | | | | | | | | | | | |
| 2 | 120 | PS | ER221120MHT | -20 / -29 | 0.29 0.13 | 34 | 1.00 | 10 | 0.99 | 2.94 | 3 | 8 |
| 2 | 277 | PS | ER221120MHT-W | -20 / -29 | 0.29 0.13 | 35 | 1.05 | 10 | 0.99 | 3.00 | 1 | 10 |
| 2 | 277 | PS | ER221347MHT | -20 / -29 | 0.13 0.10 | 34 | 1.00 | 10 | 0.99 | 2.94 | 3 | 8 |
| 1-LAMP F21T5 | | | | | | | | | | | | |
| 1 | 120 | PS | ER221120MHT | -20 / -29 | 0.21 0.09 | 25 | 1.00 | 10 | 0.99 | 4.00 | 3 | 5 |
| 1 | 277 | PS | ER221120MHT-W | -20 / -29 | 0.22 0.09 | 26 | 1.06 | 10 | 0.99 | 4.08 | 1 | 7 |
| 1 | 277 | PS | ER221347MHT | -20 / -29 | 0.10 0.07 | 25 | 1.00 | 10 | 0.99 | 4.00 | 3 | 5 |
| 2-LAMP F21T5 | | | | | | | | | | | | |
| 2 | 120 | IS | ST232120 | 32 / 0 | 0.40 | 48 | 1.02 | 10 | 0.99 | 2.13 | 2 | 1 |
| 2 | 120 | PS | ER221120MHT | -20 / -29 | 0.42 0.18 | 50 | 1.00 | 10 | 0.99 | 2.00 | 3 | 8 |
| 2 | 277 | PS | ER221120MHT-W | -20 / -29 | 0.44 0.19 | 52 | 1.05 | 10 | 0.99 | 2.02 | 1 | 10 |
| 2 | 277 | PS | ER221347MHT | -20 / -29 | 0.18 0.15 | 50 | 1.00 | 10 | 0.99 | 2.00 | 3 | 8 |

T5

For F28T5, F35T5 Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|---------------------|---------------|----------------------|---------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F28T5 | | | | | | | | | | | | |
| 1 | 120 | IS | ST132120 | 32 / 0 | 0.27 | 32 | 1.00 | 10 | 0.99 | 3.13 | 2 | 2 |
| 1 | 120 | PS | SR132120 | 32 / 0 | 0.28 | 32 | 1.00 | 12 | 0.99 | 3.13 | 2 | 3 |
| 1 | 120 | PS | ER235120MHT | -20 / -29 | 0.25 | 30 | 1.00 | 10 | 0.99 | 3.33 | 3 | 5 |
| 1 | 277 | PS | | | 0.11 | | | | | | | |
| 1 | 120 | PS | ER235120MHT-W | -20 / -29 | 0.30 | 33 | 1.00 | 10 | 0.99 | 3.03 | 1 | 7 |
| 1 | 277 | PS | | | 0.12 | | | | | | | |
| 1 | 277 | PS | ER235347MHT | -20 / -29 | 0.11 | 30 | 1.00 | 10 | 0.99 | 3.33 | 4 | 5 |
| 1 | 347 | PS | | | 0.09 | | | | | | | |
| 2-LAMP F28T5 | | | | | | | | | | | | |
| 2 | 120 | IS | ST232120 | 32 / 0 | 0.50 | 60 | 1.00 | 10 | 0.99 | 1.67 | 2 | 1 |
| 2 | 120 | IS | ST232120E | 32 / 0 | 0.48 | 57 | 0.94 | 10 | 0.98 | 1.65 | 2 | 1 |
| 2 | 120 | PS | SR232120 | 32 / 0 | 0.49 | 58 | 1.00 | 10 | 0.99 | 1.72 | 2 | 4 |
| 2 | 277 | IS | ST232277E | 32 / 0 | 0.21 | 54 | 0.91 | 15 | 0.98 | 1.69 | 2 | 1 |
| 2 | 120 | PS | ER235120MHT | -20 / -29 | 0.50 | 60 | 1.00 | 10 | 0.99 | 1.67 | 3 | 8 |
| 2 | 277 | PS | | | 0.22 | | | | | | | |
| 2 | 120 | PS | ER235120MHT-W | -20 / -29 | 0.54 | 64 | 1.06 | 10 | 0.99 | 1.66 | 1 | 10 |
| 2 | 277 | PS | | | 0.23 | | | | | | | |
| 2 | 277 | PS | ER235347MHT | -20 / -29 | 0.22 | 60 | 1.00 | 10 | 0.99 | 1.67 | 4 | 8 |
| 2 | 347 | PS | | | 0.18 | | | | | | | |
| 3-LAMP F28T5 | | | | | | | | | | | | |
| 3 | 120 | PS | ER435120MHT-W | -20 / -29 | 0.89 | 105 | 1.00 | 15 | 0.98 | 0.95 | 5 | 6 |
| 3 | 277 | PS | | | 0.39 | | | | | | | |
| 3 | 347 | PS | ER435347HT-W | -20 / -29 | 0.30 | 101 | 1.00 | 20 | 0.96 | 0.99 | 5 | 6 |
| 4-LAMP F28T5 | | | | | | | | | | | | |
| 4 | 120 | PS | ER435120MHT-W | -20 / -29 | 1.16 | 138 | 0.99 | 10 | 0.99 | 0.72 | 5 | 9 |
| 4 | 277 | PS | | | 0.51 | | | | | | | |
| 4 | 347 | PS | ER435347HT-W | -20 / -29 | 0.38 | 132 | 0.99 | 10 | 0.99 | 0.75 | 5 | 9 |
| 1-LAMP F35T5 | | | | | | | | | | | | |
| 1 | 120 | PS | ER235120MHT | -20 / -29 | 0.34 | 40 | 1.00 | 10 | 0.99 | 2.50 | 3 | 5 |
| 1 | 277 | PS | | | 0.15 | | | | | | | |
| 1 | 120 | PS | ER235120MHT-W | -20 / -29 | 0.38 | 45 | 1.06 | 10 | 0.99 | 2.36 | 1 | 7 |
| 1 | 277 | PS | | | 0.16 | | | | | | | |
| 1 | 277 | PS | ER235347MHT | -20 / -29 | 0.15 | 40 | 1.00 | 10 | 0.99 | 2.50 | 4 | 5 |
| 1 | 347 | PS | | | 0.12 | | | | | | | |
| 2-LAMP F35T5 | | | | | | | | | | | | |
| 2 | 120 | PS | ER235120MHT | -20 / -29 | 0.66 | 80 | 1.00 | 10 | 0.99 | 1.25 | 3 | 8 |
| 2 | 277 | PS | | | 0.29 | | | | | | | |
| 2 | 120 | PS | ER235120MHT-W | -20 / -29 | 0.74 | 87 | 1.07 | 10 | 0.99 | 1.23 | 1 | 10 |
| 2 | 277 | PS | | | 0.32 | | | | | | | |
| 2 | 277 | PS | ER235347MHT | -20 / -29 | 0.29 | 80 | 1.00 | 10 | 0.99 | 1.25 | 4 | 8 |
| 2 | 347 | PS | | | 0.23 | | | | | | | |
| 3-LAMP F35T5 | | | | | | | | | | | | |
| 3 | 120 | PS | ER435120MHT-W | -20 / -29 | 1.06 | 126 | 0.96 | 15 | 0.99 | 0.76 | 5 | 6 |
| 3 | 277 | PS | | | 0.46 | | | | | | | |
| 3 | 347 | PS | ER435347HT-W | -20 / -29 | 0.35 | 120 | 0.96 | 20 | 0.98 | 0.80 | 5 | 6 |
| 4-LAMP F35T5 | | | | | | | | | | | | |
| 4 | 120 | PS | ER435120MHT-W | -20 / -29 | 1.41 | 164 | 0.95 | 10 | 0.99 | 0.58 | 5 | 9 |
| 4 | 277 | PS | | | 0.62 | | | | | | | |
| 4 | 347 | PS | ER435347HT-W | -20 / -29 | 0.45 | 156 | 0.95 | 10 | 0.99 | 0.61 | 5 | 9 |

Figure 1

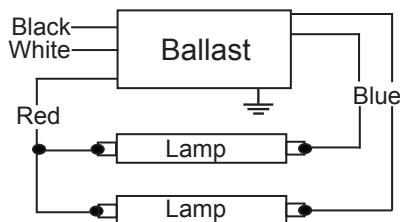


Figure 2

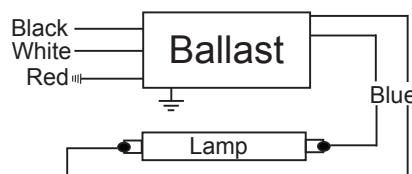


Figure 3

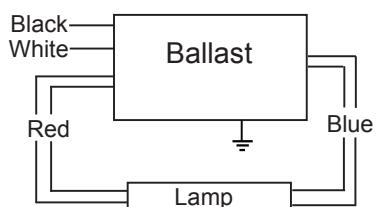


Figure 4

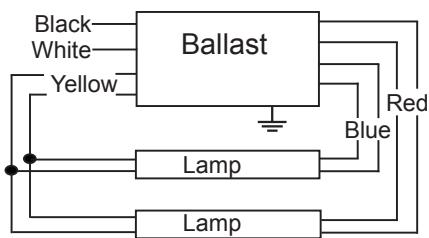


Figure 5

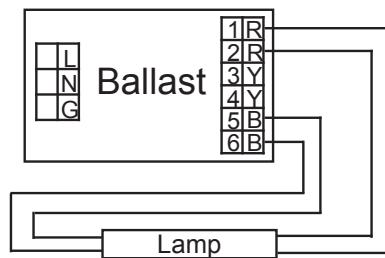


Figure 6

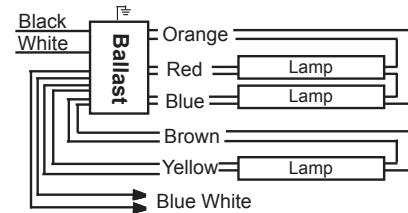


Figure 7

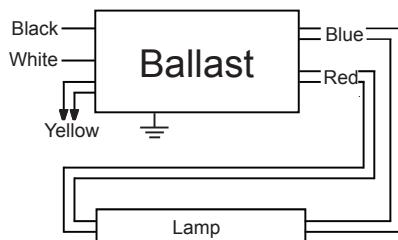


Figure 8

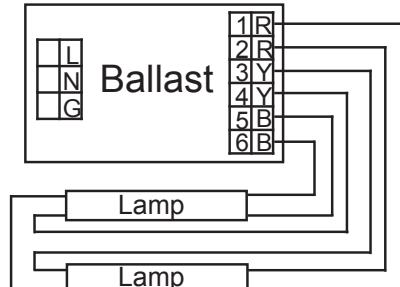


Figure 9

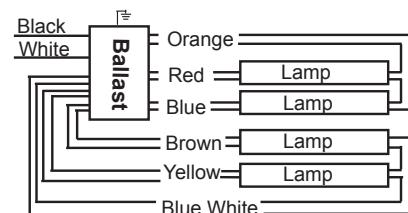
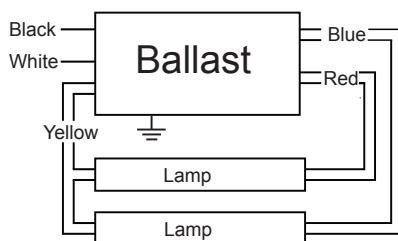


Figure 10



BALLAST DIMENSIONS

| DIM. # | LENGTH | WIDTH | HEIGHT | MOUNTING |
|--------|---------|--------|--------|----------|
| 1 | 9.50 " | 1.72 " | 1.18 " | 8.90 " |
| 2 | 9.50 " | 1.30 " | 1.10 " | 8.90 " |
| 3 | 11.50 " | 1.32 " | 1.05 " | 11.25 " |
| 4 | 12.83 " | 1.32 " | 1.13 " | 12.52 " |
| 5 | 17.71 " | 1.72 " | 1.18 " | 17.24 " |

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|-----------------------|---------------|----------------------|---------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F24T5HO | | | | | | | | | | | | |
| 1 | 120 | PS | ER224120MHT | -20 / -29 | 0.22 0.10 | 26 | 1.02 | 10 | 0.99 | 3.92 | 3 | 2 |
| 1 | 277 | PS | ER224120MHT-W | -20 / -29 | 0.23 0.10 | 27 | 0.95 | 10 | 0.99 | 3.52 | 1 | 4 |
| 1 | 277 | PS | ER224347MHT | -20 / -29 | 0.10 0.08 | 26 | 1.02 | 10 | 0.99 | 3.92 | 3 | 2 |
| 2-LAMP F24T5HO | | | | | | | | | | | | |
| 2 | 120 | PS | ER224120MHT | -20 / -29 | 0.43 0.19 | 51 | 1.00 | 10 | 0.99 | 1.96 | 3 | 8 |
| 2 | 277 | PS | ER224120MHT-W | -20 / -29 | 0.43 0.19 | 51 | 0.94 | 10 | 0.99 | 1.84 | 1 | 9 |
| 2 | 277 | PS | ER224347MHT | -20 / -29 | 0.19 0.15 | 51 | 1.00 | 10 | 0.99 | 1.96 | 3 | 8 |
| 1-LAMP F39T5HO | | | | | | | | | | | | |
| 1 | 120 | PS | SR154120 | 32 / 0 | 0.44 | 52 | 1.05 | 10 | 0.99 | 2.02 | 2 | 1 |
| 1 | 120 | PS | ER239120MHT | -20 / -29 | 0.39 0.17 | 46 | 1.05 | 10 | 0.99 | 2.28 | 4 | 2 |
| 1 | 277 | PS | ER239120MHT-W | -20 / -29 | 0.39 0.17 | 46 | 1.00 | 15 | 0.99 | 2.17 | 1 | 4 |
| 1 | 277 | PS | ER239347MHT | -20 / -29 | 0.17 0.14 | 46 | 1.05 | 10 | 0.99 | 2.28 | 4 | 2 |
| 2-LAMP F39T5HO | | | | | | | | | | | | |
| 2 | 120 | PS | ER239120MHT | -20 / -29 | 0.69 0.30 | 82 | 1.00 | 10 | 0.99 | 1.22 | 4 | 8 |
| 2 | 277 | PS | ER239120MHT-W | -20 / -29 | 0.69 0.31 | 83 | 0.98 | 10 | 0.99 | 1.18 | 1 | 9 |
| 2 | 277 | PS | ER239347MHT | -20 / -29 | 0.30 0.24 | 82 | 1.00 | 10 | 0.99 | 1.22 | 4 | 8 |

For F54T5HO/ES (49W) Lamps

T5HO

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|--------------------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F54T5HO/ES (49W) | | | | | | | | | | | | |
| 1 | 120 | PS | ER254120MHT | -20 / -29 | 0.44 0.20 | 53 | 1.00 | 10 | 0.99 | 1.89 | 4 | 2 |
| 1 | 277 | PS | ER254120MHT-W | -20 / -29 | 0.46 0.21 | 56 62 | 1.02 | 10 | 0.99 | 1.82 | 1 | 4 |
| 1 | 120 | PS | ER254347MHT | -20 / -29 | 0.20 0.16 | 53 | 1.00 | 10 | 0.99 | 1.89 | 4 | 2 |
| 1 | 347 | PS | ER254347HT-W | -20 / -29 | 0.16 | 53 | 1.01 | 10 | 0.99 | 1.91 | 1 | 4 |
| 1 | 480 | PS | ER254480HT-W | -20 / -29 | 0.12 | 55 | 0.96 | 10 | 0.99 | 1.75 | 6 | 4 |
| 2-LAMP F54T5HO/ES (49W) | | | | | | | | | | | | |
| 2 | 120 | PS | ER254120MHT | -20 / -29 | 0.88 0.40 | 108 | 1.00 | 10 | 0.99 | 0.93 | 4 | 8 |
| 2 | 277 | PS | ER254120MHT-W | -20 / -29 | 0.92 0.40 | 107 | 0.97 | 10 | 0.99 | 0.91 | 1 | 9 |
| 2 | 120 | PS | ER254347MHT | -20 / -29 | 0.39 | 103 | 1.00 | 10 | 0.99 | 0.97 | 4 | 8 |
| 2 | 347 | PS | ER254347HT-W | -20 / -29 | 0.30 | 103 | 1.00 | 10 | 0.99 | 0.97 | 1 | 9 |
| 2 | 480 | PS | ER254480HT-W | -20 / -29 | 0.22 | 103 | 0.90 | 10 | 0.99 | 0.87 | 6 | 9 |
| 3-LAMP F54T5HO/ES (49W) | | | | | | | | | | | | |
| 3 | 120 | PS | ER454120MHT-W | -20 / -29 | 1.29 0.58 | 156 | 1.00 | 10 | 0.99 | 0.64 | 5 | 5 |
| 3 | 277 | PS | ER454120MHT-W-S | -20 / -29 | 1.29 0.58 | 156 | 1.00 | 10 | 0.99 | 0.64 | 5 | 3 |
| 3 | 120 | PS | ER454347HT-W | -20 / -29 | 0.47 | 159 | 1.00 | 10 | 0.99 | 0.63 | 5 | 5 |
| 3 | 347 | PS | ER454347HT-W-S | -20 / -29 | 0.47 | 159 | 1.00 | 10 | 0.99 | 0.63 | 5 | 5 |
| 3 | 480 | PS | ER454480HT-W | -20 / -29 | 0.34 | 161 | 1.00 | 10 | 0.99 | 0.62 | 5 | 5 |
| 4-LAMP F54T5HO/ES (49W) | | | | | | | | | | | | |
| 4 | 120 | PS | ER454120MHT-W | -20 / -29 | 1.65 0.74 | 200 | 1.00 | 10 | 0.99 | 0.50 | 5 | 6 |
| 4 | 277 | PS | ER454120MHT-W-S | -20 / -29 | 1.65 0.74 | 200 | 1.00 | 10 | 0.99 | 0.50 | 5 | 7 |
| 4 | 120 | PS | ER454347HT-W | -20 / -29 | 0.62 | 211 | 1.00 | 10 | 0.99 | 0.47 | 5 | 6 |
| 4 | 347 | PS | ER454347HT-W-S | -20 / -29 | 0.62 | 211 | 1.00 | 10 | 0.99 | 0.47 | 5 | 7 |
| 4 | 480 | PS | ER454480HT-W | -20 / -29 | 0.43 | 206 | 1.00 | 10 | 0.99 | 0.49 | 5 | 6 |

T5HO

For F54T5HO, F80T5HO, FC12T5HO Lamps

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|------------------------|---------------|----------------------|-----------------|---------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP F54T5HO | | | | | | | | | | | | |
| 1 | 120 | PS | SR154120 | 32 / 0 | 0.47 | 56 | 1.00 | 10 | 0.99 | 1.79 | 2 | 1 |
| 1 | 120 | PS | ER254120MHT | -20 / -29 | 0.49 | 58 | 1.00 | 10 | 0.99 | 1.72 | 4 | 2 |
| 1 | 277 | PS | ER254120MHT-W | -20 / -29 | 0.21 | 62 | 1.02 | 10 | 0.99 | 1.65 | 1 | 4 |
| 1 | 120 | PS | ER254347MHT | -20 / -29 | 0.52 | 58 | 1.00 | 10 | 0.99 | 1.72 | 4 | 2 |
| 1 | 277 | PS | ER254347HT-W | -20 / -29 | 0.23 | 62 | 1.02 | 10 | 0.99 | 1.65 | 1 | 4 |
| 1 | 347 | PS | ER254347HT-W | -20 / -29 | 0.17 | 62 | 1.02 | 10 | 0.99 | 1.56 | 6 | 4 |
| 1 | 480 | PS | ER254480HT-W | -20 / -29 | 0.13 | 62 | 0.97 | 10 | 0.99 | 1.56 | 6 | 4 |
| 2-LAMP F54T5HO | | | | | | | | | | | | |
| 2 | 120 | PS | ER254120MHT | -20 / -29 | 0.96 | 114 | 1.00 | 10 | 0.99 | 0.88 | 4 | 8 |
| 2 | 277 | PS | ER254120MHT-W | -20 / -29 | 0.42 | 116 | 0.99 | 10 | 0.99 | 0.85 | 1 | 9 |
| 2 | 120 | PS | ER254347MHT | -20 / -29 | 0.97 | 114 | 1.00 | 10 | 0.99 | 0.88 | 4 | 8 |
| 2 | 277 | PS | ER254347HT-W | -20 / -29 | 0.43 | 118 | 0.99 | 10 | 0.99 | 0.84 | 1 | 9 |
| 2 | 347 | PS | ER254347HT-W | -20 / -29 | 0.33 | 107 | 0.90 | 10 | 0.99 | 0.84 | 6 | 9 |
| 2 | 480 | PS | ER254480HT-W | -20 / -29 | 0.23 | 107 | 0.90 | 10 | 0.99 | 0.55 | 5 | 5 |
| 3-LAMP F54T5HO | | | | | | | | | | | | |
| 3 | 120 | PS | ER454120MHT-W | -20 / -29 | 1.52 | 182 | 1.00 | 10 | 0.99 | 0.55 | 5 | 5 |
| 3 | 277 | PS | ER454120MHT-W-S | -20 / -29 | 0.66 | 182 | 1.00 | 10 | 0.99 | 0.55 | 5 | 3 |
| 3 | 120 | PS | ER454347HT-W | -20 / -29 | 1.52 | 182 | 1.00 | 10 | 0.99 | 0.55 | 5 | 5 |
| 3 | 277 | PS | ER454347HT-W-S | -20 / -29 | 0.66 | 182 | 1.00 | 10 | 0.99 | 0.55 | 5 | 3 |
| 3 | 347 | PS | ER454480HT-W | -20 / -29 | 0.36 | 169 | 1.00 | 10 | 0.99 | 0.59 | 5 | 5 |
| 4-LAMP F54T5HO | | | | | | | | | | | | |
| 4 | 120 | PS | ER454120MHT-W | -20 / -29 | 2.00 | 240 | 1.00 | 10 | 0.99 | 0.42 | 5 | 6 |
| 4 | 277 | PS | ER454120MHT-W-S | -20 / -29 | 0.86 | 240 | 1.00 | 10 | 0.99 | 0.42 | 5 | 7 |
| 4 | 120 | PS | ER454347HT-W | -20 / -29 | 2.00 | 240 | 1.00 | 10 | 0.99 | 0.42 | 5 | 6 |
| 4 | 277 | PS | ER454347HT-W-S | -20 / -29 | 0.88 | 240 | 1.00 | 10 | 0.99 | 0.42 | 5 | 7 |
| 4 | 347 | PS | ER454480HT-W | -20 / -29 | 0.71 | 220 | 1.00 | 10 | 0.99 | 0.45 | 5 | 6 |
| 4 | 480 | PS | ER454480HT-W | -20 / -29 | 0.46 | 220 | 1.00 | 10 | 0.99 | 0.45 | 5 | 6 |
| 1-LAMP F80T5HO | | | | | | | | | | | | |
| 1 | 120 | PS | ER180120MHT-W | -20 / -29 | 0.70 | 83 | 1.00 | 10 | 0.99 | 1.20 | 1 | 1 |
| 1 | 277 | PS | ER180347HT-W | -20 / -29 | 0.31 | 82 | 0.98 | 10 | 0.99 | 1.20 | 1 | 1 |
| 1-LAMP FC12T5HO | | | | | | | | | | | | |
| 1 | 120 | PS | ER254120MHT-W | -20 / -29 | 0.46 | 55 | 0.87 | 10 | 0.99 | 1.58 | 1 | 4 |
| 1 | 277 | PS | ER254347HT-W | -20 / -29 | 0.21 | 55 | 0.87 | 10 | 0.99 | 1.58 | 1 | 4 |
| 1 | 347 | PS | ER254480HT-W | -20 / -29 | 0.16 | 55 | 0.87 | 10 | 0.99 | 1.58 | 1 | 4 |

Figure 1

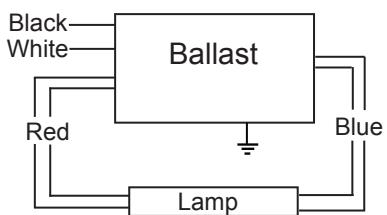


Figure 2

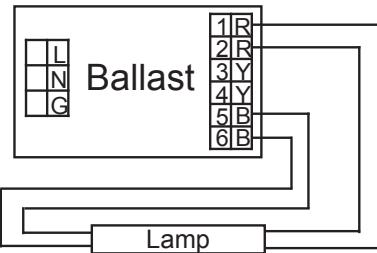


Figure 3

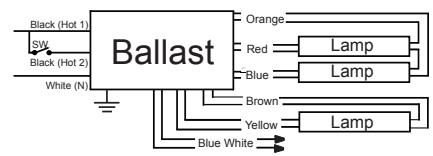


Figure 4

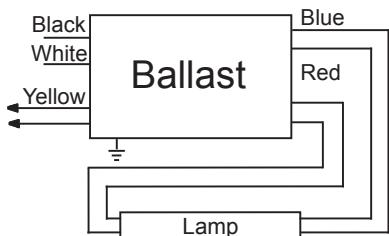


Figure 5

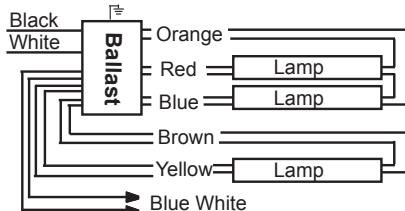


Figure 6

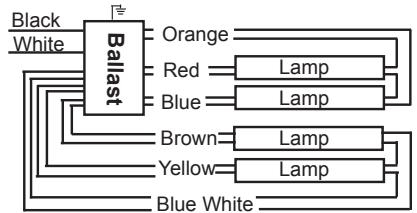


Figure 7

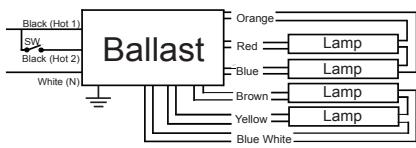


Figure 8

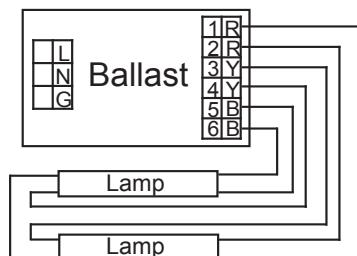
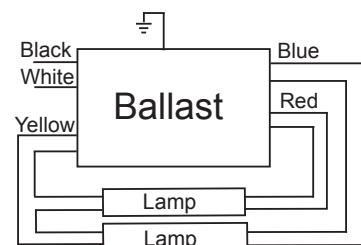


Figure 9



BALLAST DIMENSIONS

| DIM. # | LENGTH | WIDTH | HEIGHT | MOUNTING |
|--------|---------|--------|--------|----------|
| 1 | 9.50 " | 1.72 " | 1.18 " | 8.90 " |
| 2 | 9.50 " | 1.30 " | 1.10 " | 8.90 " |
| 3 | 11.50 " | 1.32 " | 1.05 " | 11.25 " |
| 4 | 12.83 " | 1.32 " | 1.13 " | 12.52 " |
| 5 | 17.71 " | 1.72 " | 1.18 " | 17.24 " |
| 6 | 15.55 " | 1.46 " | 1.18 " | 15.24 " |

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|-----------------------|---------------|----------------------|----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP CFL 13W | | | | | | | | | | | | |
| 1 | 120 | PS | UR213120MHT-DL | -4 / -20 | 0.14 0.06 | 16 | 1.00 | 10 | 0.99 | 6.25 | 1 | 1 |
| 1 | 277 | PS | UR213347HT-DL | -4 / -20 | 0.05 | 16 | 1.00 | 10 | 0.99 | 6.25 | 1 | 1 |
| 2-LAMP CFL 13W | | | | | | | | | | | | |
| 2 | 120 | PS | UR213120MHT-DL | -4 / -20 | 0.26 0.11 | 30 | 1.00 | 10 | 0.99 | 3.33 | 1 | 2 |
| 2 | 277 | PS | UR213347HT-DL | -4 / -20 | 0.09 | 30 | 1.00 | 10 | 0.99 | 3.33 | 1 | 2 |
| 1-LAMP CFL 18W | | | | | | | | | | | | |
| 1 | 120 | PS | UR218120MHT+ | -4 / -20 | 0.16 0.07 | 19 | 1.02 | 10 | 0.99 | 5.36 | 1 | 1 |
| 1 | 277 | PS | UR218347MHT+ | -4 / -20 | 0.07 0.06 | 19 | 1.00 | 10 | 0.99 | 5.36 | 1 | 1 |
| 2-LAMP CFL 18W | | | | | | | | | | | | |
| 2 | 120 | PS | UR218120MHT+ | -4 / -20 | 0.32 0.14 | 39 | 0.97 | 10 | 0.99 | 2.51 | 1 | 2 |
| 2 | 277 | PS | UR218347MHT+ | -4 / -20 | 0.14 0.12 | 39 | 0.97 | 10 | 0.99 | 2.51 | 1 | 2 |
| 1-LAMP CFL 26W | | | | | | | | | | | | |
| 1 | 120 | PS | UR226120MHT+ | -4 / -20 | 0.24 0.10 | 28 | 1.02 | 10 | 0.99 | 3.64 | 1 | 1 |
| 1 | 277 | PS | UR226347MHT+ | -4 / -20 | 0.11 0.08 | 28 | 1.02 | 10 | 0.99 | 3.64 | 1 | 1 |
| 2-LAMP CFL 26W | | | | | | | | | | | | |
| 2 | 120 | PS | UR226120MHT+ | -4 / -20 | 0.45 0.19 | 54 | 0.98 | 10 | 0.99 | 1.81 | 1 | 2 |
| 2 | 277 | PS | UR242120MHT+ | -4 / -20 | 0.47 0.19 | 56 | 1.02 | 10 | 0.99 | 1.82 | 2 | 2 |
| 2 | 277 | PS | UR226347MHT+ | -4 / -20 | 0.20 0.16 | 54 | 0.98 | 10 | 0.99 | 1.81 | 1 | 2 |
| 2 | 347 | PS | UR242347MHT+ | -4 / -20 | 0.20 0.17 | 56 | 1.02 | 10 | 0.99 | 1.82 | 2 | 2 |
| 1-LAMP CFL 32W | | | | | | | | | | | | |
| 1 | 120 | PS | UR226120MHT+ | -4 / -20 | 0.29 0.13 | 34 | 1.00 | 10 | 0.99 | 2.94 | 1 | 1 |
| 1 | 277 | PS | UR226347MHT+ | -4 / -20 | 0.13 0.10 | 34 | 1.00 | 10 | 0.99 | 2.94 | 1 | 1 |
| 2-LAMP CFL 32W | | | | | | | | | | | | |
| 2 | 120 | PS | UR242120MHT+ | -4 / -20 | 0.54 0.23 | 64 | 1.00 | 10 | 0.99 | 1.56 | 2 | 2 |
| 2 | 277 | PS | UR242347MHT+ | -4 / -20 | 0.23 0.19 | 64 | 1.00 | 10 | 0.99 | 1.56 | 2 | 2 |

+ ADD SUFFIX -BL FOR BOTTOM LEAD CONNECTOR
 ADD SUFFIX -DL FOR DUAL LEAD CONNECTOR
 ADD SUFFIX -DL (KIT) FOR DUAL LEAD CONNECTOR REPLACEMENT/RETROFIT BALLAST KITS

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|-----------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP CFL 42W | | | | | | | | | | | | |
| 1 | 120 | PS | UR226120MHT+ | -4 / -20 | 0.37 | 44 | 1.00 | 10 | 0.99 | 2.27 | 1 | 1 |
| 1 | 277 | PS | | | 0.16 | | | | | | | |
| 1 | 120 | PS | UR242120MHT+ | -4 / -20 | 0.38 | 45 | 1.02 | 15 | 0.98 | 2.27 | 2 | 1 |
| 1 | 277 | PS | UR226347MHT+ | -4 / -20 | 0.16 | 44 | 1.00 | 10 | 0.99 | 2.27 | 1 | 1 |
| 1 | 347 | PS | | | 0.13 | | | | | | | |
| 1 | 277 | PS | UR242347MHT+ | -4 / -20 | 0.17 | 45 | 1.02 | 20 | 0.95 | 2.27 | 2 | 1 |
| 1 | 347 | PS | | | 0.13 | | | | | | | |
| 2-LAMP CFL 42W | | | | | | | | | | | | |
| 2 | 120 | PS | UR242120MHT+ | -4 / -20 | 0.70 | 84 | 1.00 | 10 | 0.99 | 1.19 | 2 | 2 |
| 2 | 277 | PS | | | 0.30 | | | | | | | |
| 2 | 277 | PS | UR242347MHT+ | -4 / -20 | 0.31 | 84 | 1.00 | 10 | 0.99 | 1.19 | 2 | 2 |
| 2 | 347 | PS | | | 0.25 | | | | | | | |

+ ADD SUFFIX -BL FOR BOTTOM LEAD CONNECTOR

ADD SUFFIX -DL FOR DUAL LEAD CONNECTOR

ADD SUFFIX -DL (KIT) FOR DUAL LEAD CONNECTOR REPLACEMENT/RETROFIT BALLAST KITS

Figure 1

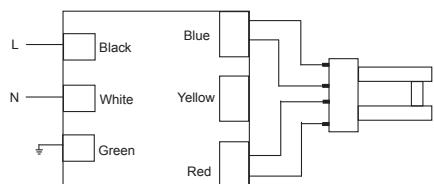
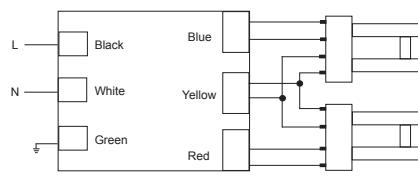


Figure 2



BALLAST DIMENSIONS

| DIM. # | LENGTH | WIDTH | HEIGHT | MOUNTING |
|---------|--------|--------|--------|----------|
| 1 (-BL) | 4.56 " | 2.45 " | 1.16 " | 2.00 " |
| 1 (-DL) | 4.92 " | 2.51 " | 1.15" | 4.49" |
| 2 (-BL) | 5.35 " | 2.88 " | 1.25 " | 2.00 " |
| 2 (-DL) | 5.00 " | 3.00 " | 1.34 " | 4.60" |

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|----------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 2-LAMP FT 18W | | | | | | | | | | | | |
| 2 | 120 | IS | UT240120MB-P | 0 / -18 | 0.26 0.11 | 31 | 0.74 | 10 | 0.99 | 2.39 | 1 | 7 |
| 2 | 277 | IS | | | | | | | | | | |
| 2 | 120 | PS | UR224120M+ | -4 / -20 | 0.34 0.15 | 40 | 1.01 | 10 | 0.99 | 2.53 | 6 | 6 |
| 2 | 277 | PS | UR224347M+ | -4 / -20 | 0.15 0.12 | 40 | 1.01 | 10 | 0.99 | 2.53 | 6 | 6 |
| 2 | 347 | PS | UR240347B-P | 0 / -18 | 0.09 | 32 | 0.74 | 25 | 0.93 | 2.31 | 1 | 7 |
| 1-LAMP FT 24W | | | | | | | | | | | | |
| 1 | 120 | PS | UR224120M+ | -4 / -20 | 0.24 0.11 | 28 | 1.03 | 10 | 0.99 | 3.68 | 6 | 4 |
| 1 | 277 | PS | | | | | | | | | | |
| 1 | 120 | PS | UR226120MHT+ | -4 / -20 | 0.22 0.10 | 26 | 0.95 | 10 | 0.99 | 3.65 | 6 | 4 |
| 1 | 277 | PS | UR224347M+ | -4 / -20 | 0.10 0.08 | 28 | 1.03 | 10 | 0.99 | 3.68 | 6 | 4 |
| 1 | 347 | PS | UR226347MHT+ | -4 / -20 | 0.10 0.08 | 26 | 0.95 | 10 | 0.99 | 3.65 | 6 | 4 |
| 2-LAMP FT 24W | | | | | | | | | | | | |
| 2 | 120 | IS | UT240120MB-P | 0 / -18 | 0.35 0.16 | 43 | 0.93 | 10 | 0.99 | 2.16 | 1 | 7 |
| 2 | 277 | IS | | | | | | | | | | |
| 2 | 120 | PS | UR224120M+ | -4 / -20 | 0.44 0.19 | 52 | 1.00 | 10 | 0.99 | 1.92 | 6 | 6 |
| 2 | 277 | PS | UR226120MHT+ | -4 / -20 | 0.43 0.19 | 50 | 0.90 | 10 | 0.99 | 1.80 | 6 | 6 |
| 2 | 277 | PS | UR224347M+ | -4 / -20 | 0.19 0.15 | 52 | 1.00 | 10 | 0.99 | 1.92 | 6 | 6 |
| 2 | 347 | PS | UR226347MHT+ | -4 / -20 | 0.18 0.15 | 50 | 0.90 | 10 | 0.99 | 1.80 | 6 | 6 |
| 2 | 347 | IS | UT240347B-P | 0 / -18 | 0.13 | 45 | 0.93 | 10 | 0.97 | 2.07 | 1 | 7 |

+ ADD SUFFIX -BL FOR BOTTOM LEAD CONNECTOR

ADD SUFFIX -DL FOR DUAL LEAD CONNECTOR

ADD SUFFIX -DL (KIT) FOR DUAL LEAD CONNECTOR REPLACEMENT/RETROFIT BALLAST KITS

For Long Twin T5 36W Lamps

BIAx / PL-L

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|----------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP FT 36W | | | | | | | | | | | | |
| 1 | 120 | IS | | | 0.30 | | | | | | | |
| 1 | 277 | IS | UT240120MB-P | 0 / -18 | 0.14 | | | | | | | |
| 1 | 120 | RS | | | 0.25 | | | | | | | |
| 1 | 277 | RS | PR140120MB | 32 / 0 | 0.11 | | | | | | | |
| 1 | 120 | RS | | | 0.26 | | | | | | | |
| 1 | 277 | RS | PR240120MB | 32 / 0 | 0.12 | | | | | | | |
| 1 | 120 | PS | | | 0.27 | | | | | | | |
| 1 | 277 | PS | PR240120MB-P | -20/-29 | 0.12 | | | | | | | |
| 1 | 120 | PS | | | 0.32 | | | | | | | |
| 1 | 277 | PS | UR226120MHT+ | -4 / -20 | 0.14 | | | | | | | |
| 1 | 347 | PS | | | 0.11 | | | | | | | |
| 1 | 277 | PS | UR226347MHT+ | -4 / -20 | 0.11 | | | | | | | |
| 1 | 347 | IS | UT240347B-P | 0 / -18 | 0.45 | | | | | | | |
| 1 | 347 | RS | PR140347B | 32 / 0 | 0.20 | | | | | | | |
| 1 | 347 | RS | PR240347B | 32 / 0 | 0.09 | | | | | | | |
| 1 | 347 | PS | PR240347B-P | -20/-29 | 0.09 | | | | | | | |
| 2-LAMP FT 36W | | | | | | | | | | | | |
| 2 | 120 | IS | | | 0.45 | | | | | | | |
| 2 | 277 | IS | UT240120MB-P | 0 / -18 | 0.20 | | | | | | | |
| 2 | 120 | RS | | | 0.45 | | | | | | | |
| 2 | 277 | RS | PR240120MB | 32 / 0 | 0.20 | | | | | | | |
| 2 | 120 | RS | | | 0.56 | | | | | | | |
| 2 | 277 | RS | PR340120MB | 32 / 0 | 0.24 | | | | | | | |
| 2 | 120 | PS | | | 0.51 | | | | | | | |
| 2 | 277 | PS | PR240120MB-P | -20/-29 | 0.23 | | | | | | | |
| 2 | 120 | PS | | | 0.62 | | | | | | | |
| 2 | 277 | PS | UR242120MHT+ | -4 / -20 | 0.27 | | | | | | | |
| 2 | 347 | PS | UR242347MHT+ | -4 / -20 | 0.22 | | | | | | | |
| 2 | 277 | PS | | | 0.74 | | | | | | | |
| 2 | 347 | IS | UT240347B-P | 0 / -18 | 0.90 | | | | | | | |
| 2 | 347 | RS | PR240347B | 32 / 0 | 0.16 | | | | | | | |
| 2 | 347 | RS | PR340347B | 32 / 0 | 0.16 | | | | | | | |
| 2 | 347 | PS | PR340347B | 32 / 0 | 0.19 | | | | | | | |
| 2 | 347 | PS | PR240347B-P | -20/-29 | 0.18 | | | | | | | |
| 3-LAMP FT 36W | | | | | | | | | | | | |
| 3 | 120 | IS | | | 0.73 | | | | | | | |
| 3 | 277 | IS | UT340120MB | 0 / -18 | 0.32 | | | | | | | |
| 3 | 120 | RS | | | 0.71 | | | | | | | |
| 3 | 277 | RS | PR340120MB | 32 / 0 | 0.31 | | | | | | | |
| 3 | 347 | IS | | | 0.76 | | | | | | | |
| 3 | 347 | RS | UT340347B | 0 / -18 | 0.26 | | | | | | | |
| 3 | 347 | RS | PR340347B | 32 / 0 | 0.24 | | | | | | | |
| 3 | 347 | PS | PR340347B | 32 / 0 | 0.24 | | | | | | | |

+ ADD SUFFIX -BL FOR BOTTOM LEAD CONNECTOR

ADD SUFFIX -DL FOR DUAL LEAD CONNECTOR

ADD SUFFIX -DL (KIT) FOR DUAL LEAD CONNECTOR REPLACEMENT/RETROFIT BALLAST KITS

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|----------------------|---------------|----------------------|--------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP FT 40W | | | | | | | | | | | | |
| 1 | 120 | IS | UT240120MB-P | 0 / -18 | 0.39 | 47 | 1.03 | 10 | 0.99 | 2.19 | 1 | 2 |
| 1 | 277 | IS | | | 0.17 | | | | | | | |
| 1 | 120 | RS | PR140120MB | 32 / 0 | 0.31 | 37 | 0.88 | 10 | 0.99 | 2.38 | 1 | 1 |
| 1 | 277 | RS | | | 0.14 | | | | | | | |
| 1 | 120 | RS | PR240120MB | 32 / 0 | 0.34 | 42 | 0.92 | 10 | 0.98 | 2.19 | 1 | 3 |
| 1 | 277 | RS | | | 0.15 | | | | | | | |
| 1 | 120 | PS | PR240120MB-P | -20/-29 | 0.38 | 45 | 0.94 | 10 | 0.98 | 2.09 | 1 | 3 |
| 1 | 277 | PS | | | 0.17 | | | | | | | |
| 1 | 120 | PS | UR226120MHT+ | -4 / -20 | 0.35 | 42 | 0.90 | 10 | 0.99 | 2.14 | 6 | 4 |
| 1 | 277 | PS | | | 0.15 | | | | | | | |
| 1 | 277 | PS | UR226347MHT+ | -4 / -20 | 0.16 | 42 | 0.90 | 10 | 0.99 | 2.14 | 6 | 4 |
| 1 | 347 | PS | | | 0.13 | | | | | | | |
| 1 | 347 | IS | UT240347B-P | 0 / -18 | 0.14 | 47 | 1.00 | 10 | 0.97 | 2.13 | 1 | 2 |
| 1 | 347 | RS | PR140347B | 32 / 0 | 0.11 | 40 | 0.88 | 15 | 0.99 | 2.20 | 1 | 1 |
| 1 | 347 | RS | PR240347B | 32 / 0 | 0.12 | 42 | 0.93 | 15 | 0.98 | 2.21 | 1 | 3 |
| 1 | 347 | PS | PR240347B-P | -20/-29 | 0.13 | 44 | 0.93 | 15 | 0.98 | 2.11 | 1 | 3 |
| 2-LAMP FT 40W | | | | | | | | | | | | |
| 2 | 120 | IS | UT240120MB-P | 0 / -18 | 0.61 | 73 | 0.90 | 10 | 0.99 | 1.23 | 1 | 7 |
| 2 | 277 | IS | | | 0.27 | | | | | | | |
| 2 | 120 | RS | PR240120MB | 32 / 0 | 0.58 | 70 | 0.88 | 10 | 0.99 | 1.26 | 1 | 8 |
| 2 | 277 | RS | | | 0.25 | | | | | | | |
| 2 | 120 | RS | PR340120MB | 32 / 0 | 0.75 | 89 | 0.94 | 10 | 0.99 | 1.06 | 1 | 9 |
| 2 | 277 | RS | | | 0.33 | | | | | | | |
| 2 | 120 | PS | PR240120MB-P | -20 / -29 | 0.72 | 85 | 0.91 | 10 | 0.99 | 1.07 | 1 | 8 |
| 2 | 277 | PS | | | 0.31 | | | | | | | |
| 2 | 120 | PS | UR242120MHT+ | -4 / -20 | 0.69 | 82 | 0.90 | 10 | 0.99 | 1.09 | 7 | 6 |
| 2 | 277 | PS | | | 0.30 | | | | | | | |
| 2 | 277 | PS | UR242347MHT+ | -4 / -20 | 0.30 | 82 | 0.90 | 10 | 0.99 | 1.10 | 7 | 6 |
| 2 | 347 | IS | UT240347B-P | 0 / -18 | 0.21 | 72 | 0.89 | 10 | 0.99 | 1.24 | 1 | 7 |
| 2 | 347 | RS | PR240347B | 32 / 0 | 0.20 | 69 | 0.88 | 10 | 0.99 | 1.28 | 1 | 8 |
| 2 | 347 | RS | PR340347B | 32 / 0 | 0.25 | 85 | 0.92 | 10 | 0.99 | 1.08 | 1 | 9 |
| 2 | 347 | PS | PR240347B-P | -20/-29 | 0.24 | 82 | 0.90 | 10 | 0.99 | 1.10 | 1 | 8 |
| 3-LAMP FT 40W | | | | | | | | | | | | |
| 3 | 120 | IS | UT340120MB | 0 / -18 | 1.02 | 120 | 0.93 | 10 | 0.99 | 0.78 | 1 | 11 |
| 3 | 277 | IS | | | 0.44 | | | | | | | |
| 3 | 120 | RS | PR340120MB | 32 / 0 | 0.94 | 113 | 0.89 | 10 | 0.99 | 0.79 | 1 | 12 |
| 3 | 277 | RS | | | 0.40 | | | | | | | |
| 3 | 347 | IS | UT340347B | 0 / -18 | 0.35 | 120 | 0.93 | 10 | 0.99 | 0.78 | 1 | 11 |
| 3 | 347 | RS | PR340347B | 32 / 0 | 0.31 | 109 | 0.88 | 10 | 0.99 | 0.81 | 1 | 12 |

+ ADD SUFFIX -BL FOR BOTTOM LEAD CONNECTOR
 ADD SUFFIX -DL FOR DUAL LEAD CONNECTOR
 ADD SUFFIX -DL (KIT) FOR DUAL LEAD CONNECTOR REPLACEMENT/RETROFIT BALLAST KITS

For Long Twin T5 50W Lamps

BIAx / PL-L

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|----------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP FT 50W | | | | | | | | | | | | |
| 1 | 120 | PS | ER254120MHT | -20 / -29 | 0.49 | | | | | | | |
| 1 | 277 | PS | | | 0.21 | | | | | | | |
| 1 | 120 | PS | ER254120MHT-W | -20 / -29 | 0.48 | | | | | | | |
| 1 | 277 | PS | | | 0.21 | | | | | | | |
| 1 | 277 | PS | ER254347MHT | -20 / -29 | 0.21 | | | | | | | |
| 1 | 347 | PS | | | 0.17 | | | | | | | |
| 1 | 347 | PS | ER254347HT-W | -20 / -29 | 0.17 | | | | | | | |
| 1 | 480 | PS | ER254480HT-W | -20 / -29 | 0.13 | | | | | | | |
| 2-LAMP FT 50W | | | | | | | | | | | | |
| 2 | 120 | PS | ER254120MHT | -20 / -29 | 0.94 | | | | | | | |
| 2 | 277 | PS | | | 0.41 | | | | | | | |
| 2 | 120 | PS | ER254120MHT-W | -20 / -29 | 0.94 | | | | | | | |
| 2 | 277 | PS | | | 0.41 | | | | | | | |
| 2 | 120 | PS | ER454120MHT-W-S | -20 / -29 | 0.98 | | | | | | | |
| 2 | 277 | PS | | | 0.30 | | | | | | | |
| 2 | 277 | PS | ER254347MHT | -20 / -29 | 0.40 | | | | | | | |
| 2 | 347 | PS | | | 0.32 | | | | | | | |
| 2 | 347 | PS | ER254347HT-W | -20 / -29 | 0.33 | | | | | | | |
| 2 | 347 | PS | ER454347HT-W-S | -20 / -29 | 0.35 | | | | | | | |
| 2 | 480 | PS | ER254480HT-W | -20 / -29 | 0.25 | | | | | | | |
| 3-LAMP FT 50W | | | | | | | | | | | | |
| 3 | 120 | PS | ER454120MHT-W | -20 / -29 | 1.49 | | | | | | | |
| 3 | 277 | PS | | | 0.46 | | | | | | | |
| 3 | 120 | PS | ER454120MHT-W-S | -20 / -29 | 1.49 | | | | | | | |
| 3 | 277 | PS | | | 0.46 | | | | | | | |
| 3 | 347 | PS | ER454347HT-W | -20 / -29 | 0.52 | | | | | | | |
| 3 | 347 | PS | ER454347HT-W-S | -20 / -29 | 0.52 | | | | | | | |
| 3 | 480 | PS | ER454480HT-W | -20 / -29 | 0.32 | | | | | | | |
| 4-LAMP FT 50W | | | | | | | | | | | | |
| 4 | 120 | PS | ER454120MHT-W | -20 / -29 | 1.96 | | | | | | | |
| 4 | 277 | PS | | | 0.60 | | | | | | | |
| 4 | 120 | PS | ER454120MHT-W-S | -20 / -29 | 1.96 | | | | | | | |
| 4 | 277 | PS | | | 0.60 | | | | | | | |
| 4 | 347 | PS | ER454347HT-W | -20 / -29 | 0.69 | | | | | | | |
| 4 | 347 | PS | ER454347HT-W-S | -20 / -29 | 0.69 | | | | | | | |
| 4 | 480 | PS | ER454480HT-W | -20 / -29 | 0.42 | | | | | | | |

| # OF LAMPS | INPUT VOLTAGE | LAMP STARTING METHOD | MODEL NUMBER | MIN. STARTING TEMP (°F/°C) | INPUT CURRENT (AMPS) | INPUT POWER (WATTS) | BALLAST FACTOR | MAX. THD % | MIN. POWER FACTOR | B.E.F. | DIM. | WIRING DIAG. |
|----------------------|---------------|----------------------|-----------------|----------------------------|----------------------|---------------------|----------------|------------|-------------------|--------|------|--------------|
| 1-LAMP FT 55W | | | | | | | | | | | | |
| 1 | 120 | PS | SR154120 | 32 / 0 | 0.46 | 55 | 0.96 | 10 | 0.99 | 1.75 | 2 | 1 |
| 1 | 120 | PS | ER254120MHT | -20 / -29 | 0.45 | 54 | 0.90 | 10 | 0.99 | 1.67 | 3 | 5 |
| 1 | 277 | PS | | | 0.20 | | | | | | | |
| 1 | 120 | PS | ER254120MHT-W | -20 / -29 | 0.46 | 54 | 0.92 | 10 | 0.99 | 1.70 | 1 | 3 |
| 1 | 277 | PS | | | 0.20 | | | | | | | |
| 1 | 277 | PS | ER254347MHT | -20 / -29 | 0.20 | 54 | 0.90 | 10 | 0.99 | 1.67 | 3 | 5 |
| 1 | 347 | PS | | | 0.16 | | | | | | | |
| 1 | 347 | PS | ER254347HT-W | -20 / -29 | 0.16 | 54 | 0.92 | 10 | 0.99 | 1.70 | 1 | 3 |
| 1 | 480 | PS | | | 0.12 | | | | | | | |
| 2-LAMP FT 55W | | | | | | | | | | | | |
| 2 | 120 | PS | ER254120MHT | -20 / -29 | 0.83 | 99 | 0.90 | 10 | 0.99 | 0.91 | 3 | 10 |
| 2 | 277 | PS | | | 0.36 | | | | | | | |
| 2 | 120 | PS | ER254120MHT-W | -20 / -29 | 0.85 | 101 | 0.90 | 10 | 0.99 | 0.89 | 1 | 7 |
| 2 | 277 | PS | | | 0.37 | | | | | | | |
| 2 | 277 | PS | ER254347MHT | -20 / -29 | 0.36 | 99 | 0.90 | 10 | 0.99 | 0.91 | 3 | 10 |
| 2 | 347 | PS | | | 0.29 | | | | | | | |
| 2 | 347 | PS | ER254347HT-W | -20 / -29 | 0.29 | 101 | 0.90 | 10 | 0.99 | 0.89 | 1 | 7 |
| 2 | 480 | PS | | | 0.23 | | | | | | | |
| 3-LAMP FT 55W | | | | | | | | | | | | |
| 3 | 120 | PS | ER454120MHT-W | -20 / -29 | 1.34 | 152 | 0.90 | 10 | 0.99 | 0.59 | 4 | 15 |
| 3 | 277 | PS | | | 0.57 | | | | | | | |
| 3 | 120 | PS | ER454120MHT-W-S | -20 / -29 | 1.34 | 152 | 0.90 | 10 | 0.99 | 0.59 | 4 | 14 |
| 3 | 277 | PS | | | 0.57 | | | | | | | |
| 3 | 347 | PS | ER454347HT-W | -20 / -29 | 0.44 | 151 | 0.90 | 10 | 0.99 | 0.60 | 4 | 15 |
| 3 | 347 | PS | | | 0.44 | | | | | | | |
| 3 | 480 | PS | ER454347HT-W-S | -20 / -29 | 0.32 | 152 | 0.90 | 10 | 0.99 | 0.59 | 4 | 14 |
| 3 | 480 | PS | | | 0.32 | | | | | | | |
| 4-LAMP FT 55W | | | | | | | | | | | | |
| 4 | 120 | PS | ER454120MHT-W | -20 / -29 | 1.74 | 204 | 0.89 | 10 | 0.99 | 0.44 | 4 | 16 |
| 4 | 277 | PS | | | 0.76 | | | | | | | |
| 4 | 120 | PS | ER454120MHT-W-S | -20 / -29 | 1.74 | 204 | 0.89 | 10 | 0.99 | 0.44 | 4 | 13 |
| 4 | 277 | PS | | | 0.76 | | | | | | | |
| 4 | 347 | PS | ER454347HT-W | -20 / -29 | 0.59 | 204 | 0.89 | 10 | 0.99 | 0.44 | 4 | 16 |
| 4 | 347 | PS | | | 0.59 | | | | | | | |
| 4 | 347 | PS | ER454347HT-W-S | -20 / -29 | 0.59 | 204 | 0.89 | 10 | 0.99 | 0.44 | 4 | 13 |
| 4 | 480 | PS | | | 0.43 | | | | | | | |
| 4 | 480 | PS | ER454480HT-W | -20 / -29 | 0.43 | 202 | 0.89 | 10 | 0.99 | 0.44 | 4 | 16 |
| 4 | 480 | PS | | | 0.43 | | | | | | | |

Figure 1

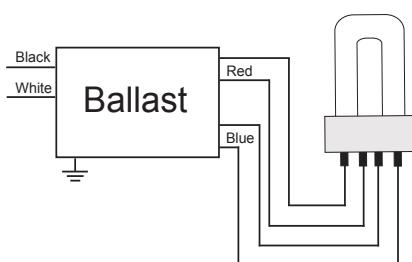


Figure 2

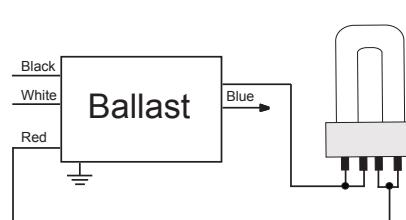


Figure 3

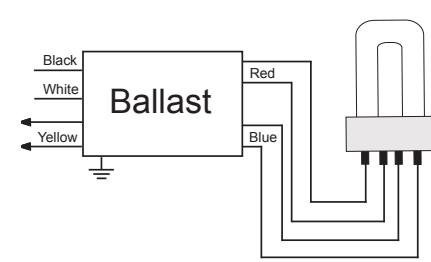


Figure 4

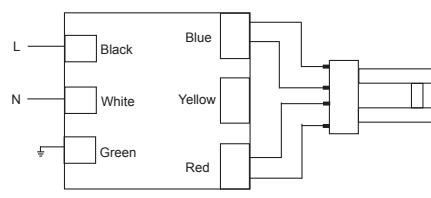


Figure 5

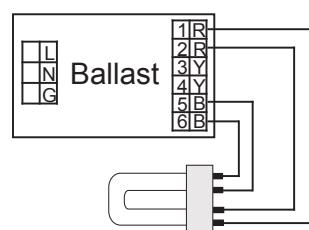


Figure 6

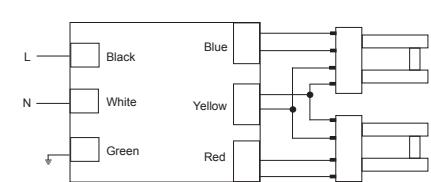


Figure 7

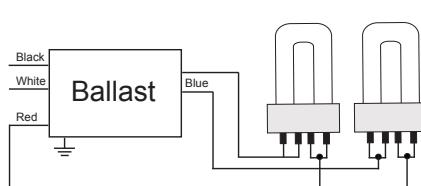


Figure 8

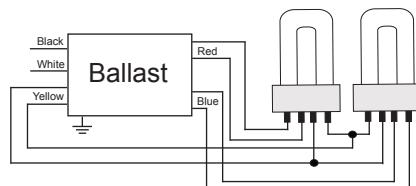


Figure 9

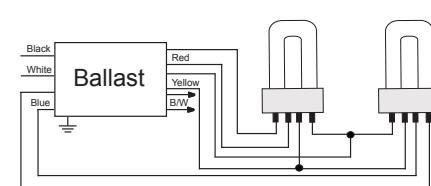


Figure 10

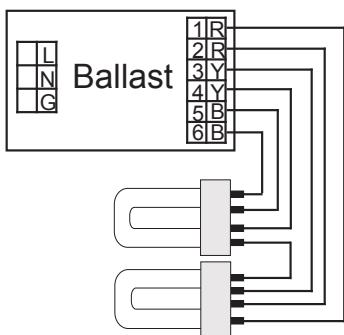


Figure 11

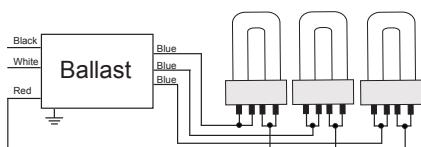


Figure 12

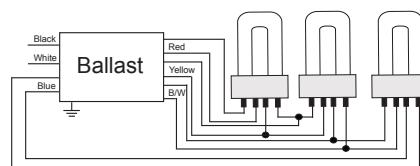


Figure 13

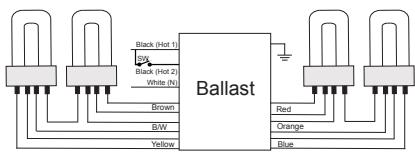


Figure 14

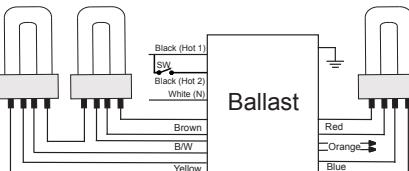


Figure 15

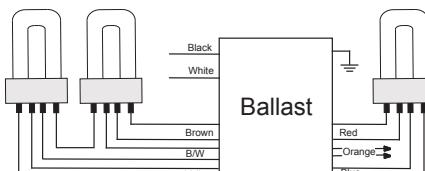
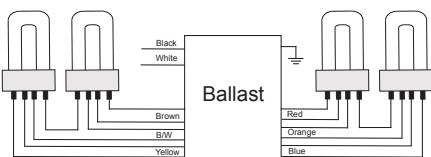


Figure 16



BALLAST DIMENSIONS

| DIM. # | LENGTH | WIDTH | HEIGHT | MOUNTING |
|---------|---------|--------|--------|----------|
| 1 | 9.50 " | 1.72 " | 1.18 " | 8.90 " |
| 2 | 9.50 " | 1.30 " | 1.10 " | 8.90 " |
| 3 | 12.83 " | 1.32 " | 1.13 " | 12.52 " |
| 4 | 17.71 " | 1.72 " | 1.18 " | 17.24 " |
| 5 | 15.55 " | 1.46 " | 1.18 " | 15.24 " |
| 6 (-BL) | 4.56 " | 2.45 " | 1.16 " | 2.00 " |
| 6 (-DL) | 4.92 " | 2.51 " | 1.15" | 4.49" |
| 7 (-BL) | 5.35 " | 2.88 " | 1.25 " | 2.00 " |
| 7 (-DL) | 5.00 " | 3.00 " | 1.34 " | 4.60" |