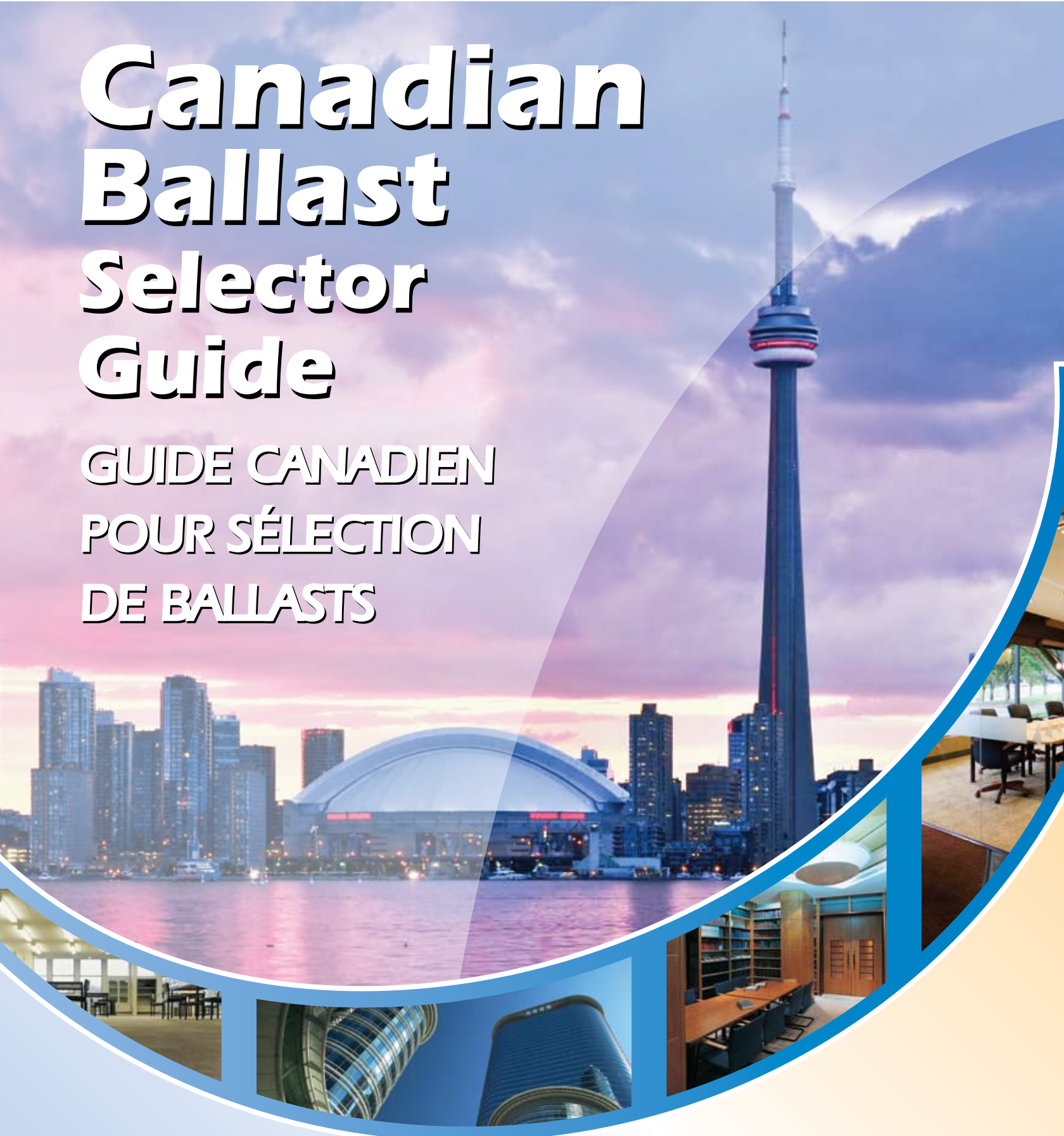


Canadian Ballast Selector Guide

GUIDE CANADIEN
POUR SÉLECTION
DE BALLASTS



Universal Manufacturing Company

Founded in 1947, Universal Manufacturing Company is best known for product quality and customer service. Strong personal relationships and customer loyalty are the hallmarks of this company's success

General Overview

Universal Lighting Technologies is a global Leader in the design and manufacture of high-efficiency lighting ballasts and control systems. The company offers a full line of electronic and magnetic ballasts for compact fluorescent, linear fluorescent and HID Lighting, along with a comprehensive line of digital and analog dimming systems.

In 2007, Universal Lighting became a subsidiary of Panasonic Electric Works, Ltd.. Operating under the Panasonic global brand name, Panasonic Electric Works conducts operations through 88 companies with annual revenues in excess of \$14 billion (USD) and more than 50,000 employees worldwide.

Canadian Sales office: Universal Lighting Technologies is expanding in Canada with new staff and a new office to manage the company's nationwide sales efforts. The office will serve as the cornerstone for building brand awareness throughout Canada for Universal Lighting Technologies, which is a world leader in designing and manufacturing high-efficiency lighting ballasts and control systems.

Universal Lighting Technologies is reaching out directly to Canadian businesses and facility managers to offer them customized energy management solutions that can slash utility bills. "At the same time, we're committed to our partners in the Canadian distribution channel to ensure they always have the highest quality products and marketing services to grow unit sales year after year. Our new Canadian sales office will coordinate these efforts nationwide to strength the level of customer service we are able to provide to all of our customers."

For more information on Universal Lighting Technologies and its comprehensive line of high-efficiency lighting ballasts, call 1-800-BALLAST or visit the Web site at www.unvlt.com.

Universal Lighting Technologies is committed to the Canadian market, Look forward to collaborating with you. Canada plays an important part of Universal Lighting Technologies

Universal Lighting Technologies, un fabricant de produits d'éclairage fondé en 1947, est surtout renommé pour la qualité de ses produits et de son service à la clientèle.

Vue d'ensemble

Universal Lighting Technologies est reconnue mondialement en qualité de chef de file dans la conception et la fabrication de ballasts électroniques et magnétiques pour des lampes fluocompactes, linéaires et DHL, ainsi qu'une gamme complète de systèmes de gradation numériques et analogiques.

En 2007, Universal Lighting devint une filiale de Panasonic Electric Works, Ltd. œuvrant sous la bannière mondiale de Panasonic. Panasonic Electric Works Ltd. réunit 88 compagnies, dont le chiffre d'affaires annuel s'élève à plus de 14 milliards de dollars américains, et compte sur plus de 50 000 employés à travers le monde.

Bureau des ventes au Canada: Universal Lighting Technologies poursuit son expansion au Canada, avec un nouveau personnel dans un nouveau bureau, pour gérer les ventes de leurs produits partout au Canada. Ce bureau servira de pierre de lance au développement de la marque de commerce Universal Lighting Technologies, un leader au niveau de la conception et de la fabrication des ballasts à haute efficacité ainsi que des systèmes de contrôle.

Universal Lighting Technologies s'adresse directement aux gens d'affaires et directeurs d'entreprises canadiens en leur offrant des solutions adaptées à leurs besoins en matière de gestion énergétique afin qu'ils réalisent des économies significatives sur leurs factures d'électricité. « Parallèlement, nous sommes commis aux partenaires canadiens de notre réseau de distribution pour qu'ils reçoivent toujours des produits de très haute qualité et des outils marketing de pointe qui majoreront leurs ventes, sur chaque unité, année après année. Notre bureau canadien des ventes ne ménagera aucun effort pour relever le niveau de service à la clientèle offert partout au Canada ».

Pour de plus amples renseignements sur la compagnie Universal Lighting Technologies et sa gamme complète de ballasts à haute efficacité, composez le 1-800-ballast ou visitez notre site Web à l'adresse suivante: www.unvlt.com.

Universal Lighting Technologies est dédié au marché canadien et est désireux de vous y apporter son étroite collaboration.





| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | | | | | | |
|----------------------------|-----------------|----------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|-----------------------|-------|-------|---------|-------|---|--|--|
| | | | | | | | | | F25T8 | F17T8 | F40T8 | F32T8ES | F28T8 | | | |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Indice de tension (A) | Puissance (W) | Facteur ballast | Options d'utilisation | | | | | | | |
| | | | | | | | | | F25T8 | F17T8 | F40T8 | F32T8ES | F28T8 | | | |
| F32T8 & F32T8/U | | | | | | | | | | | | | | | | |
| 1 | F32T8 & F32T8/U | 120 | B132I120RHA | Std Electronic | IS | 0.26 | 31 | 0.88 | X | X | X | | | | | |
| | | 347 | B132I347RH | Std Electronic | IS | 0.09 | 31 | 0.88 | X | X | X | X | X | | | |
| | | 120-277 | B132IUNVHP-B | HP Electronic | IS | 0.26 - 0.12 | 31 | 0.88 | X | X | X | | | | | |
| | | | B132IUNVEL-A | ULTim8 | IS | 0.22 - 0.11 | 25 | 0.77 | X | X | X | X | X | | | |
| | | | B132IUNVHE-A | ULTim8 | IS | 0.24 - 0.12 | 28 | 0.87 | X | X | X | X | X | | | |
| | | | B132PUNVHP-A | Accustart T8 | PRS | 0.26 - 0.11 | 31 - 30 | 0.88 | X | X | | X | | | | |
| 2 | F32T8 & F32T8/U | 120 | B232I120L-A | Low Power | IS | 0.44 | 51 | 0.78 | X | X | X | | | | | |
| | | | B232I120RHA | Std Electronic | IS | 0.49 | 58 | 0.88 | X | X | X | | | | | |
| | | | B232I120RHH-A | High Light | IS | 0.66 | 77 | 1.18 | | | | X | | | | |
| | | | B232I120EL | ULTim8 | IS | 0.40 | 47 | 0.77 | X | X | | X | X | | | |
| | | | B232I120HE | ULTim8 | IS | 0.45 | 54 | 0.87 | X | X | | X | X | | | |
| | | 347 | B232I347L-A | Low Power | IS | 0.51 | 51 | 0.78 | X | X | X | X | X | | | |
| | | | B232I347RHA | Std Electronic | IS | 0.17 | 58 | 0.88 | X | X | X | X | X | | | |
| | | | B232I347HPL | HP Low Power | IS | 0.14 | 50 | 0.78 | X | X | X | | | | | |
| | | | B232I347HP-A | HP Electronic | IS | 0.17 | 58 | 0.88 | X | X | X | X | X | | | |
| | | 120-277 | B232IUNVHEHA | ULTim8 | IS | 0.62 - 0.26 | 74 - 73 | 1.18 | X | X | X | X | X | | | |
| | | | B232PUNVHE-A | ULTim8 | PRS | 0.47 - 0.20 | 56 - 55 | 0.88 | X | X | X | X | X | | | |
| | | | B232PUNVEL-A | ULTim8 | PRS | 0.40 - 0.17 | 47 - 46 | 0.71 | X | X | X | X | X | | | |
| | | | 3 | F32T8 & F32T8/U | 120 | B332I120L-A | Low Power | IS | 0.65 | 76 | 0.78 | X | X | X | | |
| | | | | | | B332I120RHA | Std Electronic | IS | 0.75 | 86 | 0.88 | X | X | X | | |
| | | | | | | B332I120RHH | High Light | IS | 0.98 | 113 | 1.18 | | | | | |
| B332I120EL | ULTim8 | IS | | | | 0.59 | 70 | 0.77 | X | X | | X | X | | | |
| B332I120HE | ULTim8 | IS | | | | 0.67 | 80 | 0.87 | X | X | | X | X | | | |
| 347 | B332I347L | Low Power | | | IS | 0.21 | 75 | 0.79 | X | X | X | | | | | |
| | B332I347RH | Std Electronic | | | IS | 0.25 | 85 | 0.88 | X | X | | | | | | |
| | B332I347HPL | HP Low Power | | | IS | 0.21 | 75 | 0.79 | X | X | X | | | | | |
| | B332I347HP | HP Electronic | | | IS | 0.25 | 88 | 0.88 | X | X | | | | | | |
| 120-277 | B332IUNVHP-A | HP Electronic | IS | 0.72 - 0.31 | 86 - 84 | 0.88 | X | X | X | | | | | | | |
| | B332IUNVHE-A | ULTim8 | IS | 0.70 - 0.30 | 83 - 81 | 0.87 | X | X | X | X | X | | | | | |
| | B332IUNVEL-A | ULTim8 | IS | 0.61 - 0.26 | 74 - 73 | 0.77 | X | X | X | X | X | | | | | |
| | B332PUNHP-A | Accustart T8 | PRS | 0.77 - 0.34 | 92 - 90 | 0.88 | X | X | | X | | | | | | |
| | B332IUNVHEHA | ULTim8 | IS | 0.91 - 0.39 | 111 - 108 | 1.18 | X | X | X | X | X | | | | | |
| | B332IHRVHB-E | ULTim8 | HB | 0.32 - 0.24 | 110 - 109 | 1.18 | | | | X | X | | | | | |

Universal Voltage ballasts operate from 120-volts to 277-volts.

- Reduce ballast inventory requirements
- Installer friendly - they cannot be connected to the wrong voltage
- Low profile dimensions make installation easy
- Same wiring and mounting dimensions as standard ballasts

Ballasts Universal pour tensions de 120 à 277 (V)

- Diminution des besoins d'inventaire
- Ne peuvent être raccordés à une tension erronée
- Installation facile grâce à ses dimensions réduites
- Même travail de raccordement que pour les ballasts standard



T8 & T8HO



| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | | | |
|----------------------------|-----------------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|-----------------------|-------|-------|---------|-------|
| | | | | | | | | | F25T8 | F17T8 | F40T8 | F32T8ES | F28T8 |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Indice de tension (A) | Puissance (W) | Facteur ballast | Options d'utilisation | | | | |
| | | | | | | | | | F25T8 | F17T8 | F40T8 | F32T8ES | F28T8 |
| F32T8 & F32T8/U | | | | | | | | | | | | | |
| 4 | F32T8 & F32T8/U | 120 | B432I120L-A | Low Power | IS | 0.85 | 100 | 0.78 | X | X | X | | |
| | | | B432I120RH-A | Std Electronic | IS | 0.93 | 112 | 0.88 | X | X | X | | |
| | | | B432I120EL | ULTim8 | IS | 0.81 | 95 | 0.77 | X | X | | X | X |
| | | | B432I120HE | ULTim8 | IS | 0.90 | 106 | 0.87 | X | X | | X | X |
| | | 347 | B432I347L | Low Power | IS | 0.29 | 101 | 0.78 | X | X | X | | |
| | | | B432I347RH | Std Electronic | IS | 0.33 | 114 | 0.88 | X | X | | | |
| | | | B432I347HPL | HP Low Power | IS | 0.29 | 101 | 0.78 | X | X | X | | |
| | | 120-277 | B432I347HP | HP Electronic | IS | 0.33 | 114 | 0.88 | X | X | | | |
| | | | B432IUNVHP-A | HP Electronic | IS | 0.93 - 0.40 | 112 - 100 | 0.88 | X | X | X | | |
| | | | B432IUNVEL-A | ULTim8 | IS | 0.80 - 0.34 | 97 - 96 | 0.77 | X | X | X | X | X |
| | | | B432IUNVHE-A | ULTim8 | IS | 0.91 - 0.38 | 109 - 106 | 0.87 | X | X | X | X | X |
| | | | B432PUNVHP-A | Accustart T8 | PRS | 1.00 - 0.42 | 119 - 115 | 0.88 | X | X | | X | X |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | | |
|----------------|-------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|-----------------------|-------|-------|--|
| | | | | | | | | | F96T8ES | F72T8 | F28T8 | |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Indice de tension (A) | Puissance (W) | Facteur ballast | Options d'utilisation | | | |
| | | | | | | | | | F96T8ES | F72T8 | F28T8 | |
| F96T8 | | | | | | | | | | | | |
| 1 | F96T8 | 120 | B432I120L-A | Low Power | IS | 0.52 | 58 | 0.88 | | | | |
| 2 | F96T8 | 120 | B432I120RH-A | Std Electronic | IS | 0.95 | 112 | 0.88 | | | | |
| | | | B432I120EL | ULTim8 | IS | 1.30 | 150 | 1.18 | X | | | |
| | | | B432I120HE | ULTim8 | IS | 0.84 | 100 | 0.78 | | | | |
| | | | B432I347L | Low Power | IS | 0.92 | 111 | 0.88 | X | X | X | |
| | | 347 | B432I347RH | Std Electronic | IS | 0.33 | 113 | 0.89 | | | | |
| | | 120-277 | B432I347HPL | HP Low Power | IS | 0.95 - 0.40 | 113 - 110 | 0.88 | | | | |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | | |
|----------------|---------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|-----------------------|---------|---------|--|
| | | | | | | | | | F48T8HO | F60T8HO | F72T8HO | |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Indice de tension (A) | Puissance (W) | Facteur ballast | Options d'utilisation | | | |
| | | | | | | | | | F48T8HO | F60T8HO | F72T8HO | |
| T8HO | | | | | | | | | | | | |
| 1 | F96T8HO | 120 | B286I120RH | Std Electronic | IS | 0.79 | 92 | 0.96 | X | X | X | |
| | | 277 | B286I277RH | Std Electronic | IS | 0.32 | 87 | 0.93 | X | X | X | |
| 2 | F96T8HO | 120 | B286I120RH | Std Electronic | IS | 1.30 | 151 | 0.81 | X | X | X | |
| | | 277 | B286I277RH | Std Electronic | IS | 0.53 | 144 | 0.81 | X | X | X | |

ULTim8 High Efficiency Electronic Ballasts

- Improved energy savings over standard electronic ballasts
- Dedicated and Universal voltage models available
- .77 Ballast Factor models provide equivalent light levels as magnetic ballast F34T12 systems

Ballasts électroniques ULTim8 à efficacité élevée

- Économie d'énergie supérieure à celle des ballasts standard
- Modèles disponibles en tensions dédiées et universelles
- Les modèles à facteur de ballast de .77 procurent le même niveau d'éclairage que les ballasts magnétiques des systèmes F34T12



Accustart8 Programmed Rapid Start Ballasts

- Programmed Rapid Start (PRS) exceeds Rapid Start starting requirements to maintain long lamp life in frequently switched applications.
- Direct replacement for electronic rapid start ballasts
- Universal Voltage and low profile dimensions simplify installation

Ballasts Accustart8 à allumage rapide programmé

- L'allumage rapide programmé surpasse l'allumage rapide simple, afin d'allonger la durée de vie des lampes dans les endroits où elles sont fréquemment allumées et éteintes.
- Le remplacement de ballast est direct sur les ballasts électroniques à allumage rapide.
- Son niveau de tension universel et sa taille simplifient l'installation.



| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Standard Lamps | | | Energy Saving Lamps | | |
|----------------|--------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|------------------------|---------------------|-----------------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Line Current (Amps) | Input Power (Watts) | Ballast Factor |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Lampes Standard | | | Lampes Écoénergétiques | | |
| | | | | | | Indice de tension (A) | Puissance (W) | Facteur ballast | Indice de tension (A) | Puissance (W) | Facteur ballast |
| F30 | | | | | | | | | | | |
| 1 | F30T12 | 120 | B140R120HP | HP Electronic | RS | 0.26 | 30 | 0.91 | 0.24 | 27 | 0.86 |
| 2 | F30T12 | 120 | B240R120RH | Std Electronic | RS | 0.51 | 59 | 0.92 | - | - | - |
| | | | B240R120HP | HP Electronic | RS | 0.50 | 60 | 0.92 | 0.46 | 53 | 0.88 |
| 3 | F30T12 | 120 | B340R120HP | HP Electronic | RS | 0.75 | 90 | 0.91 | 0.64 | 76 | 0.88 |
| | | 277 | B340R277HP | HP Electronic | RS | 0.33 | 90 | 0.91 | 0.28 | 76 | 0.88 |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Standard Lamps | | | Energy Saving Lamps | | |
|------------------------------|----------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|------------------------|---------------------|-----------------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Line Current (Amps) | Input Power (Watts) | Ballast Factor |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Lampes Standard | | | Lampes Écoénergétiques | | |
| | | | | | | Indice de tension (A) | Puissance (W) | Facteur ballast | Indice de tension (A) | Puissance (W) | Facteur ballast |
| F40T12 & F40T12/U | | | | | | | | | | | |
| 1 | F40T12 | 120 | B140R120HP | HP Electronic | RS | 0.33 | 39 | 0.88 | 0.28 | 33 | 0.86 |
| 1 | F40T12/U | 347 | B140R120HP | HP Electronic | RS | 0.33 | 39 | 0.88 | 0.28 | 33 | 0.86 |
| 2 | F40T12 | 120 | B234SR120M-A | Basic-12 Electronic | RS | 0.63 | 71 | 0.90 | 0.49 | 59 | 0.86 |
| | | | B240R120HP | HP Electronic | RS | 0.65 | 75 | 0.88 | 0.54 | 64 | 0.86 |
| 3 | F30T12 | 120 | B340R120HP | HP Electronic | RS | 0.94 | 113 | 0.88 | 0.78 | 93 | 0.86 |
| 1 | F30T12 | 120 | B134R120M-A | Basic-12 Electronic | RS | 0.36 | 36 | 0.86 | 0.30 | 31 | 0.86 |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Standard Lamps | | | Energy Saving Lamps | | |
|------------------------------|--------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|------------------------|---------------------|-----------------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Line Current (Amps) | Input Power (Watts) | Ballast Factor |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Lampes Standard | | | Lampes Écoénergétiques | | |
| | | | | | | Indice de tension (A) | Puissance (W) | Facteur ballast | Indice de tension (A) | Puissance (W) | Facteur ballast |
| F40T12 & F40T12/U | | | | | | | | | | | |
| 1 | F48T12 | 120-277 | B260IUNVHP | HP Electronic | IS | 0.39 | 47 | 1.10 | 0.32 | 38 | 1.10 |
| 2 | F48T12 | 120-277 | B260I120RH | Std Electronic | IS | 0.68 | - | 0.92 | 0.60 | 64 | 0.92 |
| | | | B260IUNVHP | HP Electronic | IS | 0.61 | 0.75 | 0.95 | 0.57 | 67 | 0.93 |
| 2 | F48T12 | 120 | B260I120M-A | Basic-12 Electronic | IS | 0.62 | 68 | 0.90 | - | - | - |
| 2 | F60T12 | 120 | B260IUNVHP | HP Electronic | RS | .77 | 92 | .92 | - | - | - |
| 1 | F60T12 | 120 | B260IUNVHP | HP Electronic | RS | .49 | 58 | 1.10 | - | - | - |
| 1 | F72T12 | 120 | B260IUNVHP | HP Electronic | RS | .55 | 68 | 1.06 | - | - | - |
| 1 | F72T12 | 120 | B260I120RH | Std Electronic | IS | 0.60 | 66 | 1.04 | - | - | - |
| 2 | F72T12 | 120 | B260I120RH | Std Electronic | IS | 0.92 | 107 | 0.90 | - | - | - |
| | | | B260IUNVHP | HP Electronic | IS | 0.90 | 109 | 0.91 | - | - | - |
| 2 | F72T12 | 120 | B260I120M-A | Basic-12 Electronic | IS | 0.90 | 105 | 0.90 | - | - | - |
| 1 | F96T12 | 120-277 | B260I120RH | Std Electronic | IS | 0.73 | 83 | 1.02 | 0.60 | 66 | 1.05 |
| | | | B260IUNVHP | HP Electronic | IS | 0.70 | 85 | 1.05 | 0.59 | 72 | 1.03 |
| 2 | F96T12 | 120-277 | B260I120M-A | Basic-12 Electronic | IS | - | - | - | 0.90 | 105 | 0.88 |
| | | | B260I120RH | Std Electronic | IS | 1.16 | 133 | 0.86 | 0.93 | 107 | 0.88 |
| | | | B260IUNVHP | HP Electronic | IS | 1.16 | 139 | 0.88 | 0.96 | 112 | 0.88 |
| 1 | F96T12 | 120 | B260I120M-A | Basic-12 Electronic | IS | - | - | - | 0.61 | 66 | 1.09 |
| 2 | F96T12 | 120 | B260I120M-A | Basic-12 Electronic | IS | - | - | - | 0.90 | 105 | 0.88 |

T5: STD & HO



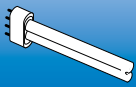
| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Standard Lamps | | | Also Operates | |
|----------------|-------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|-----------------------|-------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | F21T5 | F14T5 |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Lampes Standard | | | Options d'utilisation | |
| | | | | | | Indice de tension (A) | Puissance (W) | Facteur ballast | F21T5 | F14T5 |
| 1 | F28T5 | 120-277 | B228PUNV-C | Accustart T5 | PRS | 0.28 - 0.12 | 33 | 1.00 | X | X |
| 2 | F28T5 | 120-277 | B228PUNV-C | Accustart T5 | PRS | 0.55 - 0.23 | 66 - 64 | 1.00 | X | X |
| 2 | F28T5 | 120-277 | B228PUNV95-D | Accustart T5 | PRS | 0.51 - 0.22 | 60 - 58 | 0.95 | X | X |
| 2 | F28T5 | 120-277 | B228PUNV115-D | Accustart T5 | PRS | 0.59 - 0.25 | 69 - 68 | 1.15 | X | X |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | F39T5HO | FT36W/2G11 |
|----------------|---------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|---------|------------|
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Indice de tension (A) | Puissance (W) | Facteur ballast | F39T5HO | FT36W/2G11 |
| 1 | F24T5HO | 120-277 | B224PUNV-C | Accustart T5 | PRS | 0.19 - 0.10 | 28 | 1.02 | X | X |
| 2 | F24T5HO | 120-277 | B224PUNV-C | Accustart T5 | PRS | 0.45 - 0.23 | 53 - 52 | 1.00 | X | X |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | F24T5HO | FT36W/2G11 |
|----------------|---------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|---------|------------|
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Indice de tension (A) | Puissance (W) | Facteur ballast | F24T5HO | FT36W/2G11 |
| 1 | F39T5HO | 120-277 | B239PUNV-D | Accustart T5 | PRS | 0.32 - 0.18 | 47 | 1.02 | X | X |
| 2 | F39T5HO | 120-277 | B239PUNV-D | Accustart T5 | PRS | 0.75 - 0.39 | 89 - 88 | 1.00 | X | X |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | F24T5HO | FT36W/2G11 |
|----------------|---------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|---------|------------|
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Indice de tension (A) | Puissance (W) | Facteur ballast | F24T5HO | FT36W/2G11 |
| 1 | F54T5HO | 120-277 | B254PUNV-D | Accustart T5 | PRS | 0.32 - 0.18 | 47 | 1.02 | X | X |
| | | 347 | B254P347-D | Accustart T5 | PRS | 0.75 - 0.39 | 89 - 88 | 1.00 | X | X |
| | | 347-480 | B254PHRV-E | Accustart T5 | PRS | 0.19 - 0.15 | 66 | 1.02 | X | X |
| 2 | F54T5HO | 120-277 | B254PUNV-D | Accustart T5 | PRS | 1.03 - 0.43 | 120 - 117 | 1.00 | X | X |
| | | 347 | B254P347-D | Accustart T5 | PRS | 0.35 | 120 | 1.00 | X | X |
| | | 347-480 | B254PHRV-E | Accustart T5 | PRS | 0.35 - 0.26 | 120 - 119 | 1.00 | X | X |
| 3 | F54T5HO | 120-277 | B454PUNV-E | Accustart T5 | PRS | 1.52 - 0.66 | 181 - 178 | 1.05 | X | X |
| 4 | F54T5HO | 120 - 277 | B454PUNV-E | Accustart T5 | PRS | 2.01 - 0.86 | 240 - 234 | 1.00 | X | X |





LONG TWIN T5

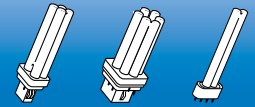
| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Standard Lamps | | | Also Operates | | |
|----------------|------------|-------------|-----------------|---------------------|-----------------|-----------------------|---------------------|-----------------|-----------------------|---------|---------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | F54T5HO | F24T5HO | F39T5HO |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Lampes Standard | | | Options d'utilisation | | |
| | | | | | | Indice de tension (A) | Puissance (W) | Facteur ballast | F54T5HO | F24T5HO | F39T5HO |
| 1 | FT24W/2G11 | 120-277 | B224PUNV-C | Accustart T5 | PRS | 0.23 - 0.10 | 27 | 1.02 | | X | X |
| 2 | FT24W/2G11 | 120-277 | B224PUNV-C | Accustart T5 | PRS | 0.43 - 0.18 | 52 - 51 | 1.00 | | X | |
| 1 | FT36W/2G11 | 120-277 | B224PUNV-C | Accustart T5 | PRS | 0.30 - 0.13 | 36 | 0.90 | | X | X |
| | | | B254PUNV-D | Accustart T5 | PRS | 0.37 - 0.18 | 45 | 1.22 | X | | |
| 2 | FT36W/2G11 | 120-277 | B239PUNV-D | Accustart T5 | PRS | 0.59 - 0.26 | 71 - 70 | 0.94 | | | |
| | | | B254PUNV-D | Accustart T5 | PRS | 0.73 - 0.30 | 87 | 1.20 | | | |
| 1 | FT40W/2G11 | 120 | C240SI120RH | Std Electronic | IS | 0.40 | 40 | 1.02 | | | |
| | | 120-277 | C240PUNVHP-B | HP Electronic | PRS | 0.34 - 0.15 | 41 - 40 | 1.00 | | | |
| 2 | FT40W/2G11 | 120 | C240SI120RH | Std Electronic | IS | 0.61 | 67 | 0.88 | | | |
| | | 120-277 | C240PUNVHP-B | HP Electronic | PRS | 0.63 - 0.27 | 76 - 73 | 0.90 | | | |
| 3 | FT40W/2G11 | 120 | C340SI120RH | Std Electronic | IS | 0.88 | 98 | 0.88 | | | |
| | | 277 | C340SI277RH | Std Electronic | IS | 0.39 | 98 | 0.88 | | | |



CIRCLINE

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Also Operates |
|----------------|------------|-------------|-----------------|---------------------|-----------------|-----------------------|
| | | | | | | FC9T5 |
| Nbr. de lampes | Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Options d'utilisation |
| | | | | | | FC9T5 |
| 1 | FC12T5/40W | 120 | C2642UNV | CF Electronic | PRS | X |
| 2 | FC12T5/40W | 120 | C242UNV | CF Electronic | PRS | X |
| 1 | FC12T5/40W | 347 | C2642/347 | CF Electronic | PRS | X |
| 2 | FC12T5/40W | 347 | C242/347 | CF Electronic | PRS | X |
| 1 | FC12T5/55W | 120 | C242UNV | CF Electronic | PRS | |
| | | | B254PUNV-D | CF Electronic | PRS | |
| 2 | FC12T5/55W | 120 | B254PUNV-D | CF Electronic | PRS | |

COMPACT (BALLAST COMPACT)



| Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | One Lamp | | | Two Lamp | | |
|-----------|-------------|--------------------------|---------------------|-----------------|----------------------|---------------------|-----------------|----------------------|---------------------|-----------------|
| | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Line Current (Amps) | Input Power (Watts) | Ballast Factor |
| Lampe | Tension (V) | No de catalogue | Famille de ballasts | Type d'amorçage | Une Lampe | | | Deux Lampes | | |
| | | | | | Courant linéaire (A) | Puissance (W) | Facteur ballast | Courant linéaire (A) | Puissance (W) | Facteur ballast |
| 13W 4-Pin | 120-277 | C213UNVBE/BES/ME/MES | CF Electronic | PRS | 0.15 - 0.07 | 18 | 1.00 | 0.26 - 0.11 | 30 | 1.00 |
| | 347 | C213/347ME/MES | CF Electronic | PRS | 0.06 | 18 | 1.00 | 0.10 | 33 | 0.98 |
| 18W 4-Pin | 120-277 | C218UNVBE/BES/ME/MES | CF Electronic | PRS | 0.16 - 0.07 | 19 | 1.00 | 0.30 - 0.13 | 35 | 0.95 |
| | 347 | C218/347BE/BES/ME/MES | CF Electronic | PRS | 0.06 | 21 | 1.00 | 0.11 | 38 | 0.98 |
| 26W 4-Pin | 120-277 | C242UNVBE/BES/ME/MES | CF Electronic | PRS | - | - | - | 0.46 - 0.20 | 56 - 55 | 1.02 |
| | | C2642UNVBE/BES/ME/MES | CF Electronic | PRS | 0.25 - 0.11 | 28 | 1.02 | 0.47 - 0.21 | 56 | 0.98 |
| | 347 | C242/347BE/BES/ME*/MES* | CF Electronic | PRS | - | - | - | 0.14 | 44 | 1.02 |
| | | C2642/347BE/BES/ME*/MES* | CF Electronic | PRS | 0.09 | 31 | 1.02 | 0.17 | 57 | 0.98 |
| 32W | 120-277 | C242UNVBE/BES/ME/MES | CF Electronic | PRS | - | - | - | 0.58 - 0.26 | 69 - 67 | 1.00 |
| | | C2642UNVBE/BES/ME/MES | CF Electronic | PRS | 0.30 - 0.13 | 36 | 1.00 | - | - | - |
| | 347 | C242/347BE/BES | CF Electronic | PRS | - | - | - | 0.19 | 62 | 1.00 |
| | | C2642/347BE/BES | CF Electronic | PRS | 0.11 | 36 | 0.98 | - | - | - |
| 42W | 120-277 | C242UNVBE/BES/ME/MES | CF Electronic | PRS | 0.40 - 0.18 | 45 | 1.00 | 0.76 - 0.32 | 91 - 90 | 0.98 |
| | | C2642UNVBE/BES/ME/MES | CF Electronic | PRS | 0.41 - 0.18 | 48 | 0.98 | - | - | - |
| | 347 | C242/347BE/BES | CF Electronic | PRS | 0.13 | 42 | 1.00 | 0.25 | 80 | 0.98 |
| | | C2642/347BE/BES | CF Electronic | PRS | 0.15 | 50 | 1.00 | - | - | - |
| 57W | 120-277 | C242UNVBE/BES/ME/MES | CF Electronic | PRS | 0.52 - 0.21 | 58 - 57 | 1.00 | - | - | - |
| | 347 | C242/347BE/BES | CF Electronic | PRS | 0.18 | 61.00 | 1.00 | - | - | - |
| 70W | 120-277 | C242UNVBE/BES/ME/MES | CF Electronic | PRS | 0.61 - 0.27 | 73 - 72 | 1.00 | - | - | - |
| | 347 | C242/347BE/BES | CF Electronic | PRS | 0.21 | 74.00 | 1.00 | - | - | - |

Suffix:

BE - Bottom Exit Terminal

BES - Bottom Exit with Studs

ME - Side and Bottom Exit Terminals

MES - Side and Bottom Exit with Studs

Suffixes:

BE - Bornes de sortie inférieure

ME - Bornes de sortie latérale et inférieure

BES - Bornes pour fils de sortie inférieure avec vis

MES - Bornes pour le fil de la sortie latérale et inférieure avec des vis

CFL MULTI-E KIT (TROUSSE CFL MULTI-E)



Multi-E Kit Products:

- C213UNVME000K
- C218UNVME000K
- C2642UNVME000K
- C213/347ME000K*
- C218/347ME000K*
- C2642/347ME000K*

Trousses Multi-E:

- C213UNVME000K
- C218UNVME000K
- C2642UNVME000K
- C213/347ME000K*
- C218/347ME000K*
- C2642/347ME000K*

Multi-E Kits Contain:

- Multi-Exit Ballast
- Snap-mount adapter plate
- Lead wire set
- Wire extraction tool
- Instructions

Contenu de la trousse Multi-E:

- Ballast à sorties multiples
- Plaque de raccord montée par enclenchement
- Jeu de fils de sortie
- Outil pour l'extraction des fils
- Fiche d'instructions

Fits virtually every j-box cover and fixture application

The Multi-Exit ballast lead wire connection accommodate side and bottom lead exit requirements, and the Snap mount adapter plate adds bottom-exit studs and additional flexibility for replacement of older magnetic ballasts.

*Products available late 2010

www.unvlt.com



S'ajuste à virtuellement à tous les couvercles des boîtes de jonction et les luminaires

Le jeu de fils pour ballasts à sorties multiples s'utilise aussi bien par le côté que par le dessous, tandis que la plaque de raccord montée par enclenchement est munie de vis de sorties par le dessous offrant ainsi plus de flexibilité lors du changement des ballasts magnétiques moins récents.

| Lamp Type | Lamp Watts | ANSI Code | Input Volts | Catalog Nbr | Circuit Type | Input Power (Watts) | Max. Input Current |
|---|---------------------|-----------------|------------------|------------------|-----------------|---------------------|-----------------------|
| Type de Lampe | Puissance lampe (W) | Code ANSI | Tension (V) | No de catalogue | Type de circuit | Puissance (W) | Courant d'entrée max. |
| High Pressure Sodium Sodium à haute pression | 35W | S76 | 120 | S35120RCCEM000K | Reactor | 44 | 0.85/0.63 |
| | 50W | S68 | 120 | S50120RCCEM000K | Reactor | 60 | 1.12/0.90 |
| | | | 120/208/240/277 | S50MLTLC3M500K | HX-HPF | 66 | 1.24/0.60/0.52/0.45 |
| | 70W | S62 | 120 | S70120RCCEM000K | Reactor | 80 | 1.60/0.90/1.30 |
| | | | 120/277/347 | S70TRILC3M502K | HX-HPF | 94 | 1.50/0.65/0.50 |
| | 100W | S54 | 120 | S100120RCCEM000K | Reactor | 115 | 2.24/1.81 |
| | | | 120/277/347 | S100TRILC3M502K | HX-HPF | 130 | 2.20/0.95/0.69 |
| | 150W | S55 | 120 | S150120RCCEM000K | Reactor | 168 | 4.40/2.35 |
| | | | 120/277/347 | S150TRILC3M502K | HX-HPF | 188 | 3.00/1.35/1.00 |
| | 200W | S66 | 120/277/347 | S200TRIAC4M500K | CWA | 233 | 2.00/0.86/0.68 |
| | | | 120/208/240/277 | S200MLTAC4M | CWA | 230 | 2.10/1.30/1.00/0.88 |
| | 250W | S50 | 120/277/347 | S250TRIAC4M502K | CWA | 300 | 2.50/1.20/1.00 |
| | | | 120/208/240/277 | S250MLTAC4M500K | CWA | 295 | 2.50/1.40/1.20/1.10 |
| | 400W | S51 | 120/277/347 | S400TRIAC4M502K | CWA | 465 | 3.98/1.30/1.35 |
| S400TRIAC5M502K | | | | CWA | 467 | 3.90/1.70/1.35 | |
| S400MLTAC4M500K | | | | CWA | 463 | 3.80/2.20/1.80/1.70 | |
| 1000W | S52 | 120/277/347 | S1000TRIAC5M502K | CWA | 1100 | 9.60/4.30/3.40 | |
| | | 120/208/240/277 | S1000MLTAC5M500K | CWA | 1100 | 9.50/5.50/4.80/4.20 | |
| Metal Halide Halogénures métalliques | 175W | M57 | 120/347 | 1110-564C-TC | F-Can | 205 | 1.75/0.62 |
| | | | 120/277 | 1110-246SC-TC | F-Can | 206 | 1.75/0.75 |
| | | | 120/277/347 | M175TRIAC30502K | CWA | 211 | 2.15/0.95/0.75 |
| | | | 120/208/240/277 | M175MLTAC3M500K | CWA | 213 | 1.90/1.10/0.95 |
| | 250W | M58 | 120/347 | 1110-566C-TC | F-Can | 295 | 2.50/0.95 |
| | | | 120/277 | 1110-246SC-TC | F-Can | 295 | 2.50/1.10 |
| | | | 120/277/347 | M250TRIAC3M | CWA | 295 | 2.78/1.30/1.05 |
| | | | 120/277/347 | M250TRIAC3M502K | CWA | 295 | 2.88/1.30/1.05 |
| | | | 120/277/347 | M250TRIAC4M502K | CWA | 280 | 3.05/1.25/1.05 |
| | | | 120/208/240/277 | M250MLTAC3M500K | CWA | 297 | 2.65/1.58/1.30/1.13 |
| | | | | M250MLTAC4M500K | CWA | 290 | 3.05/1.65/1.55/1.25 |
| | 400W | M59 | 120/347 | 1110-568C-TC | F-Can | 460 | 3.90/1.30 |
| | | | 120/277 | 1110-247SC-TC | F-Can | 455 | 3.90/1.70 |
| | | | 120/277/347 | M400TRIAC4M502K | CWA | 455 | 4.22/1.67/1.44 |
| | | | 120/208/240/277 | M400MLTAC4M500K | CWA | 458 | 3.94/2.20/1.93/1.69 |
| | 1000W | M47 | 120/277/347 | M1000TRIAC5M502K | CWA | 1080 | 9.00/3.90/3.20 |
| | | | 120/208/240/277 | M1000MLTAC5M500K | CWA | 1080 | 8.95/5.15/0/3.90 |
| | 1500W | M48 | 120/277/347 | M1500TRIAC5M502K | CWA | 1610 | 13.70/6.00/4.70 |

Universal HID Ballast Kits provide everything you need for an easy ballast replacement:

- Adjusting mounting brackets for various mounting configurations
- Pre-wired Capacitor and Ignitor to speed and simplify installation
- Color Coded Leads for easy identification
- Vacuum impregnated for cool and quiet operation

La trousse pour ballast DHI contient tout le nécessaire pour remplacer facilement un ballast:

- Des plaques de montage ajustables pour répondre à des configurations différentes.
- Un condensateur et un igniteur d'allumage pré-câblés pour réduire le temps d'installation et le simplifier.
- Un jeu de fils de sortie avec code de couleur pour une identification facile.
- Un ballast imprégné sous vide, qui lui permet de fonctionner sans surchauffe et sans bruit.



| Lamp Type | Lamp Watts | ANSI Code | Input Volts | Catalog Nbr | Circuit Type | Input Power (Watts) | Max. Input Current |
|---|---------------------|--------------|-----------------|---------------------|-----------------|---------------------|-----------------------|
| Type de Lampe | Puissance lampe (W) | Code ANSI | Tension (V) | No de catalogue | Type de circuit | Puissance (W) | Courant d'entrée max. |
| Pulse Start Metal Halide Halogénures métalliques | 35W | M130 | 120/277/347 | M35TRILC3M502K | HX-HPF | 54 | 0.84/0.40/0.30 |
| | | | 120 | 1120-251A-TC (120V) | F-Can | 55 | 0.50 |
| | 50W | M110 | 120/277 | 11210-236C-TC | F-Can | 70 | 0.64/0.65 |
| | | | 120/277/347 | M50TRILC3M502K | HX-HPF | 67 | 1.30/0.61/0.48 |
| | | | 120/208/240/277 | M50MLTLC3M502K | HX-HPF | 67 | 1.16/0.67/0.57/0.50 |
| | 70W | M85 | 120/277 | 11210-277C-TC | F-Can | 98 | 2.00/0.90 |
| | | | 120/208/240/277 | M70MLTL3D500K | HX-HPF | 95 | 1.70/1.04/0.87/0.78 |
| | | M98 | 120/347 | 11210-554C-TC | F-Can | 90 | 2.00/0.80 |
| | | | 120/277 | 11210-506C-TC | F-Can | 90 | 2.00/0.90 |
| | 100W | M90 | 120/277/347 | M70TRILC3M502K | HX-HPF | 95 | 1.70/0.78/0.60 |
| | | | 120/347 | 11210-606C-TC | F-Can | 125 | 2.20/0.70 |
| | | | 120/277 | 11210-239C-TC | F-Can | 125 | 2.20/1.00 |
| | 150W | M102 | 120/277/347 | M100TRILC3M502K | HX-HPF | 125 | 2.50/1.10/0.90 |
| | | | 120/277 | 1110-539C-TC | F-Can | 185 | 3.70/1.60 |
| | 150W | M102 or M142 | 120/208/240/277 | M150TRILC3M502K | HX-HPF | 185 | 3.32/1.48/0.65 |
| | 175W | M137 or M152 | 120/277/347 | P175TRIAC3M502K | CWA | 208 | 1.84/0.79/0.63 |
| | 200W | M136 | 120/277/347 | P200TRIAC3M502K | CWA | 240 | 2.70/1.04/0.87 |
| | 250W | M138 or M153 | 120/277/347 | P250TRIAC4M502K | CWA | 300 | 2.61/1.28/1.09 |
| | 320W | M132 or M154 | 120/277/347 | P320TRIAC4M502K | CWA | 370 | 4.50/2.00/1.50 |
| | 350W | M131 | 120/277/347 | P350TRIAC4M502K | CWA | 405 | 4.00/2.00/1.50 |
| 400W | M135 or M155 | 120/277/347 | P400TRIAC4M502K | CWA | 457 | 4.40/2.01/1.52 | |
| 750W | M149 | 120/277/347 | P750TRIAC5M502K | CWA | 820 | 7.05/3.05/2.35 | |

HID IGNITORS (IGNITEURS DHI)

High Pressure Sodium Ignitors

| | Catalog Numbers |
|---|-----------------|
| For Lamps of 150W or less except 150W S56 | HPS 150-3A |
| For lamps from 200W - 400W and 150W S56 w/ CWA Ballasts | HPS 400-3A |
| For 1000W HPS and Pulse Start Metal Halide Lamps | HPS 1000-4B |

Igniteurs à haute pression sodium

| | No de catalogue |
|---|-----------------|
| Pour lampes de 150W ou moins, sauf pour 150W S56 | HPS 150-3A |
| Pour lampes de 200W à 400W et de 150W S56 et/ ballasts CWA | HPS 400-3A |
| Pour lampes de 1000W HPS et aux halogénures métalliques à impulsion | HPS 1000-4B |

Metal Halide Ignitors

| | |
|--|-----------|
| For 35W to 150W, M130, M110, M98, M90, M92, and M102 Lamps | MH 100-3A |
| For 175W to 400W, M137, M136, M138, M132, M131, and M135 Lamps | MH 350-1A |

Igniteurs aux halogénures métalliques

| | |
|---|-----------|
| Pour lampes de 35W à 150W, M130, M110, M98, M90, M92, et M102 | MH 100-3A |
| Pour lampes de 175W à 400W, M137, M136, M138 M132, M131 et M135 | MH 350-1A |



UNIVERSAL SIGN (ENSEIGNE UNIVERSAL)

| No. of Lamps | Total Lamp Footage (T12HO Style Lamps) | | Catalog Number |
|----------------|---|---------|-----------------|
| | Minimum | Maximum | |
| Nbr. de lampes | Longueur total lampe (Lampes style T12HO) | | No de catalogue |
| | Minimum | Maximum | |
| 1 - 2 | 4' | 12' | USB-0412-12 |
| 1 - 4 | 8' | 16' | USB-0816-14 |
| 1 - 4 | 10' | 24' | USB-1024-14 |
| 2 - 4 | 16' | 32' | USB-1632-24 |
| 4 - 6 | 20' | 36' | USB-2036-46 |
| 4 - 6 | 20' | 48' | USB-2048-46 |

MAX-3 SERIES UNIVERSAL SIGN (ENSEIGNE UNIVERSAL SERIE MAX-3)

| No. of Lamps | Total Lamp Footage (T12HO Style Lamps) | | Catalog Number |
|----------------|---|---------|-----------------|
| | Minimum | Maximum | |
| Nbr. de lampes | Longueur total lampe (Lampes style T12HO) | | No de catalogue |
| | Minimum | Maximum | |
| 1 - 6 | 2' | 18' | USB-0218-16 |
| 1 - 6 | 12' | 32' | USB-1232-16 |
| 1 - 6 | 10' | 48' | USB-1048-16 |

ELECTRONIC SIGN (ENSEIGNE ÉLECTRONIQUE)

| No. of Lamps | Total Lamp Footage (T12HO & T8HO Style Lamps) | | Catalog Number |
|----------------|--|---------|-----------------|
| | Minimum | Maximum | |
| Nbr. de lampes | Longueur total lampe (Lampes style T12HO & T8HO) | | No de catalogue |
| | Minimum | Maximum | |
| 1 - 2 | 2' | 16' | ESB216-12 |
| 1 - 4 | 4' | 32' | ESB432-14 |
| 4 - 6 | 8' | 48' | ESB848-46 |
| 1 - 4 | 10' | 40' | ESB1040-14 |

MAX-3 Sign Ballasts for Maximum Flexibility

- 3 Ballasts cover all sign ballast applications
- 1 to 6-Lamp operation with each ballast
- From 2' to 48' Lamp applications

Les ballasts MAX-3 pour un maximum de flexibilité

- 3 ballasts pour couvrir toutes sortes d'applications
- Chaque ballast peut opérer 1 à 6 lampes
- Pour applications de lampes allant de 2 à 48 pieds

Electronic Sign Ballasts

- Instant start wiring minimizes connection requirements
- Universal input voltage
- Significant energy savings compared to standard sign ballasts

Ballasts électroniques pour enseignes

- Le câblage de démarrage instantané minimise les raccordements
- Tension d'entrée universelle
- Économie d'énergie significative comparativement aux ballasts d'enseigne standard

DIMMING



| Lamp Type | Qty | Analog Dimming | Light Level Switching | Digital Dimming Ballast & Controls | DALI Digital Dimming Ballasts | | |
|---------------|----------------------|----------------------|---|--|--|---------------|-------------|
| Type de lampe | Qté | Gradation en continu | Gradation par étage préréglée | Ballasts et contrôles de gradation numérique | Ballast de gradation numérique DALI | | |
| T8 | F17T8 | 1 | ES5818K/ ES5833B B132PUNVSV3-A* | B232PUS50-A | B232PUNVDR-A / DRL-A / DRH-A | | |
| | | 2 | ES5818K/ ES5843B B232PUNVSV3-A* | B232PUS50-A | B232PUNVDR-A / DRL-A / DRH-A | | |
| | F25T8 | 1 | ES5821B/ ES5835K B132PUNVSV3-A* | B232PUS50-A | B232PUNVDR-A / DRL-A / DRH-A | | |
| | | 2 | ES5822B/ ES5836K B232PUNVSV3-A* | B232PUS50-A | B232PUNVDR-A / DRL-A / DRH-A | | |
| | F32T8 | 1 | ES5821B/ ES5835K B132PUNVSV3-A* B132R347V5 | B232PUS50-A B132R120S30 B132R277S30 | B232PUNVDR-A / DRL-A / DRH-A | B132PUNVDV1 | |
| | | 2 | ES5822B/ ES5836K B232PUNVSV3-A* B232SR347V5 | B232PUS50-A B232SR120S30 B232SR277S30 | B232PUNVDR-A B232PUNVDRL-A B232PUNVDRH-A | B232PUNVDV1 | |
| | | 3 | B332SR120V5 B332SR277V5 | B332SR120S30 B332SR277S30 | B332PUNVDR-A / DRL-A B332PUNVDRH-E | | |
| | | 4 | B432SR277V5 | | B432PUNVDR-E / DRL-E | | |
| | T5 & T5HO | F14T5 | 1 | ES5849K | B214PV115S50A | | B114PUNVDV1 |
| | | | 2 | ES5851K | B228PU95S50D B214PU115S50A | B228PUNVDRH-D | B214PUNVDV1 |
| F21T5 | | 1 | ES5839K | B214PU115S50A | | | |
| | | 2 | ES5861K | B228PU95S50D | B228PUNVDRH-D | | |
| F28T5 | | 1 | ES5846K B128PUNVSV3-D | B214PU115S50A | | B128PUNVDV1 | |
| | | 2 | ES5847K B228PUNVSV3-D | B228PU95S50D B228PU115S50D | B228PUNVDRH-D | B228PUNVDV1 | |
| F35T5 | | 1 | ES5853K B128PUNVSV3-D | | | | |
| | | 2 | | | B228PUNVDRH-D | | |
| F54T5HO | | 1 | | | | B154PUNVDV1 | |
| | | 2 | | | B254PUNVDR-D | B254PUNVDV1 | |
| CFL | CFQ/TR13W | 1 | ES5011GT/ ES5011HT | | | | |
| | | 2 | ES5011GT/ ES5011HT | | | | |
| | CFQ/TR18W | 1 | ES5012GT/ ES5012HT | | | C118PUNVDV3 | |
| | | 2 | ES5012GT/ ES5012HT | | | C218PUNVDV3 | |
| | CFQ/TR26W | 1 | ES5013GT / ES5013HT ES5010GT / ES5010HT C226UNVSV3ME* | | | C126PUNVDV3 | |
| | | 2 | ES5013GT / ES5013HT C226UNVSV3ME* | | | C226PUNVDV3 | |
| | CFTR32W | 1 | ES5010GT / ES5010HT C226UNVSV3ME* | | | C132PUNVDV3 | |
| | | 2 | | | | C232PUNVDV3 | |
| | CFM42W | 1 | ES5010GT / ES5010HT C226UNVSV3ME* | | | C142PUNVDV3 | |
| | | 2 | | | | C242PUNVDV3 | |
| TT5 | FT40W/2G11 | 1 | ES5006BM | | C240PUNVDR-A | C140PUNVDV3 | |
| | | 2 | ES5007BMT | | C240PUNVDR-A | C240PUNVDV3 | |
| | FT55W/2G11 | 1 | | | | | |
| | | 2 | | | B254PUNVDR-D | | |

* Available soon, Contact Universal for availability

* Disponible Bientôt, Contactez Universal pour plus d'information



- **SuperDim** Analog dimming ballasts operate with numerous industry standard compatible 0 to 10-volt controls. Most SuperDim ballasts feature universal input voltage and a dimming range down to less than 5%.
 - **Ballastar** light level switching ballasts operate with standard wall switches or relays to provide switching between 100% and 50% power levels or 100%/ 60%/ 30% light levels while keeping all lamps operating for full fixture illumination.
 - **DEMANDFlex** Dimming ballasts provide power level control from 100% to 50% power levels. They can be tuned to specific levels or can be incorporated with DCL controls as part of an energy management strategy utilizing scheduling, daylight harvesting, or peak load shedding. DCL systems are also ideal for use with Demand Response programs.
 - **DALI-Pro** digital dimming ballasts are designed for use with industry standard DALI controls. DALI-Pro ballasts feature universal input voltage and dimming range down to 1% for linear lamps and 3% for CF lamps.
 - For more information on all of the dimming ballasts and controls, visit www.unvlt.com
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Les ballasts analogiques **SuperDim** s'utilisent avec les nombreux contrôles standard de 0 à 10 volts de l'industrie. Une des caractéristiques de la plupart des ballasts SuperDim est qu'ils permettent une gradation de l'intensité lumineuse jusqu'à 5% ou moins.

Les ballasts **Ballastar** à niveau d'éclairage par étage, s'utilisent avec des interrupteurs muraux standard ou des relais et peuvent abaisser la puissance à des niveaux allant de 100% à 50% ou de 100%, 60%, 30% en maintenant toutes les lampes allumées dans les luminaires.

Les ballasts de gradation **DemandFlex** peuvent graduer la puissance lumineuse à des niveaux allant de 100% à 50%. Ils peuvent aussi être ajustés à des niveaux spécifiques ou incorporés à des contrôles DCL, à l'intérieur d'un programme de gestion de l'énergie, en les programmant pour récupérer la clarté du jour et effectuer le délestage durant les périodes de pointe. Les systèmes DCL sont idéaux pour les programmes de gestion de la demande énergétique.

Les ballasts de gradation **DALI-Pro** ont été conçus pour être utilisés avec les contrôles DALI standard. Les ballasts DALI-Pro offrent un voltage d'entrée et un niveau de gradation de 1% avec des lampes linéaires et de 3% avec des lampes fluocompactes (FC).

-Pour plus d'information sur nos ballasts à gradation et nos systèmes de contrôle, veuillez visiter le www.unvlt.com

GLOSSARY

| | |
|------------------------------|--|
| AccuStart T5 | - Programmed rapid start (PRS) electronic ballast, <10% THD, T5 lamps |
| AccuStart T8 | - Programmed rapid start electronic ballast, <10% THD, T8 lamps |
| CF Electronic | - Compact fluorescent electronic ballast, THD<10, E.O.L.L. Auto-reset shutdown Circuit |
| CF Magnetic | - Compact fluorescent magnetic ballast |
| ES Magnetic | - Energy saving magnetic fluorescent ballast |
| HP Electronic | - High Performance Linear electronic ballast, <10% THD |
| High Light | - Linear electronic ballast, high light output, <20% THD |
| Low Power | - Linear electronic ballast, reduced light output, <20% THD |
| Low PF Magnetic | - Magnetic fluorescent ballast, low power factor |
| Magnetic (0° F) | - Magnetic fluorescent ballast, 0° F minimum starting temperature |
| Std Electronic | - Standard Linear electronic ballast, < 20% THD |
| Std Magnetic | - Standard Magnetic fluorescent ballast |
| ULTim8 T8 | - High efficiency electronic ballast, T8 lamp applications |
| ULTim5 T5 | - High efficiency electronic ballast, T5 lamp applications |
| Weatherproof Magnetic | - Magnetic fluorescent ballast, weatherproof |

WARRANTY

Universal Lighting Technologies, 26 Century Blvd., Suite 500, Nashville, TN 37214-4602, 1-800-BALLAST, (hereinafter called "Universal") warrants to the purchaser that its lamp ballasts and neon transformers, (hereinafter called "Lighting Products"), will be free from defects in material and workmanship for the specified warranty periods beginning from the date of manufacture.

| | |
|--|-----------|
| TRIAD Electronic Fluorescent Ballasts | 60 Months |
| Universal, Energy Saving Electromagnetic Fluorescent ballasts | 36 Months |
| AddressPro, SuperDim, and DaliPro Ballasts | 36 Months |
| Standard Universal Electromagnetic, Fluorescent & HID Ballasts | 24 Months |
| Universal Sign Ballasts | 24 Months |
| MAX-3 Series Sign Ballasts | 36 Months |
| Basic-12 Electronic Ballasts | 36 Months |

If it appears within the specified warranty period that any Universal Lighting Product does not meet the warranty specified above, Universal, at its option, will either repair or replace the Lighting Product at Universal's expense. Universal extends this limited warranty to the original or first end-user purchaser only. This warranty is conditional based upon proper storage, installation, use and maintenance.

This warranty is not applicable to, and Universal makes no warranty whatsoever with respect to, any Lighting Product not installed and operated in accordance with the National Electric Code (NEC), the Standards for Safety of Underwriters Laboratories, Inc. (UL), Standards for the American National Standards Institute (ANSI) or, in Canada, the Canadian Standards Association (CSA). Nor is this warranty applicable to any Lighting Product which has not been installed and operated in accordance with Universal's specifications and connection diagrams or Lighting Products which have been subjected to abnormal operating conditions. This includes, but is not limited to, excessive temperatures as specified in Universal's published literature. The conditions for any tests (to be) performed on Lighting Products which are claimed to have not performed in accordance with the terms of the warranty shall be mutually agreed upon in writing and Universal may be represented at any such tests.

NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY BEYOND THE AFOREMENTIONED WARRANTY PERIOD. The foregoing warranty is exclusive of all other statutory, written or oral warranties and no other warranties of any kind, statutory or otherwise, are given or herein expressed. Warranty claims are to be made in accordance with Universal's published Warranty Service Program which is available upon request. This warranty sets forth Universal's obligations and responsibilities regarding its Lighting Products and is the exclusive remedy available to the claimant.

Limitations of Liability, under no circumstances, whether as a result of breach of contract, breach of warranty, tort, strict liability or otherwise, will Universal be liable for consequential, incidental, special or exemplary damages, including, but not limited to, loss of profits, loss of use or damage to any property or equipment, cost of capital, cost of substitute product, facilities or services, down time costs or claims of claimant's customers. Universal's liability for all claims of any kind or for any loss or damages arising out of, resulting from or concerning any aspect of this warranty or from the Lighting Products or services furnished hereunder, shall not exceed the price of the specific Lighting Product which gives right to the claim, except in accordance with Universal's Technical Engineering Service Program.

State Law Right, some states do not allow the exclusion or limitation of consequential or incidental damages or the duration of time for an implied warranty. Therefore, the limitations or exclusions of consequential or incidental damage and implied warranties may not apply to certain claimants. This warranty provides the claimant with specific legal rights and claimants may have other rights that vary from state to state.



GLOSSAIRE DES BALLASTS

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|---|---|
| AccuStart T5 | - Ballast électronique à démarrage rapide programmé, (PRS) < 10% (THD, lampes T5 |
| AccuStart T8 | - Ballast électronique à démarrage rapide programmé (PRS), < lampes T8 |
| CF électronique | - Ballast électronique pour lampes fluocompactes, (THD protection automatique) |
| CF magnétique | - Ballast magnétique pour lampes fluocompactes |
| ES Magnétique | - Ballast magnétique pour lampes fluorescentes écoénergétiques |
| HP électronique | - Ballast électronique linéaire à efficacité élevée, <10% THD |
| Flux lumineux élevé | - Ballast électronique linéaire à facteur de ballast élevé, < 20% THD |
| Basse puissance | - Ballast électronique à facteur de ballast et flux lumineux réduits, < 20% THD |
| PF Magnétique basse puissance | - Ballast magnétique à faible facteur de puissance |
| Magnétique (0oF/-17c) | - Ballast magnétique pour lampes fluorescentes et démarrage à basse température de 0oF/-17c |
| Électronique STD | - Ballast électronique linéaire standard, <20% THD |
| Magnétique STD | - Ballast magnétique standard pour lampes fluorescentes |
| ULTim8 T8 | - Ballast électronique à efficacité élevée, pour lampes T8 |
| ULTim5 T5 | - Ballast électronique efficacité élevée, pour lampes T5 |
| Magnétique résistant aux intempéries | - Ballast magnétique pour lampes fluorescentes, résistant aux intempéries |

GARANTIE

Universal Lighting Technologies, située au 26, boul. Century, Suite 500, Nashville, TN 37314,4602, tél: 1-800-BALLAST, (Nommée ci-après « Universal ») garantit à l'acheteur que ses ballasts et ses transducteurs au néon (Nommés ci-après « produits d'éclairage »), seront exempts de défauts de matières et de main-d'oeuvre, pour les périodes de garantie spécifiées qui entrent en vigueur à la date de fabrication.

| | |
|---|---------|
| Ballasts électroniques TRIAD pour lampes fluorescentes..... | 60 Mois |
| Ballasts Universal électromagnétiques et écoénergétiques pour lampes fluorescentes..... | 36 Mois |
| Ballasts AddressPro, SuperDim et DaliPro..... | 36 Mois |
| Ballasts standard Universal pour lampes fluorescentes et DHI..... | 24 Mois |
| Ballasts Universal pour enseignes..... | 24 Mois |
| Ballasts pour enseignes, Série MAX-3..... | 36 Mois |
| Ballasts électroniques Basic-12..... | 36 Mois |

Si, le cas échéant durant la période de garantie spécifiée ci-haut, un des produits Universal Lighting n'était pas conforme aux exigences de la garantie précitée, Universal réparera ou remplacera ce produit d'éclairage Universal, à sa discrétion et à ses frais. Universal accordera cette prorogation uniquement au premier acheteur ou utilisateur. Cette garantie est conditionnelle à ce que l'entreposage, l'installation, l'usage, ainsi que l'entretien du produit aient été adéquats.

Cette garantie ne s'applique pas, et Universal n'accordera, en aucun cas, de garantie sur tout produit d'éclairage dont l'installation et l'utilisation ne seraient pas conformes aux exigences du National Electric Code (NEC), aux normes de sécurité des Underwriters Laboratories, Inc. (UL), aux exigences de l'American National Standards Institute (ANSI) ou, au Canada, celles de l'Association Canadienne de Normalisation (CSA). De plus, aucune garantie ne s'appliquera sur tout produit Universal dont l'installation et l'utilisation seraient non-conformes aux spécifications et schémas de câblage de Universal. La garantie ne couvre pas tout produit d'éclairage qui aurait été soumis à des conditions anormales d'utilisation. Ceci inclut, sans en être limité, les conditions thermiques excessives telles que spécifiées dans la documentation de Universal. Pour effectuer tout genre de tests sur les produits d'éclairage Universal faisant l'objet de plaintes pour rendement non-conforme aux termes de la garantie, les conditions de ces tests devront être mutuellement confirmées par écrit et Universal aura le droit d'être représenté à tous ces tests.

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For Technical Engineering Services (TES), application support and warranty information, call 1-800-BALLAST

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