Universal's Retrofit Family REFERENCE GUIDE







Today there are an estimated

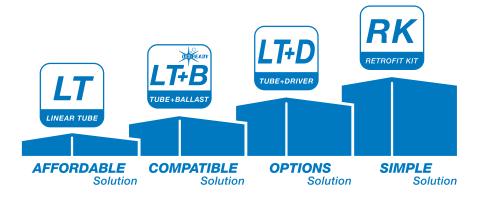
960 MILLION FLUORESCENT LUMINAIRES

installed in North America.

Retrofits constitute a huge market opportunity, particularly moving traditional fluorescent to more efficient LED technology. The energy savings, low maintenance, and controllability of SSL is appealing to customers, and Universal gives you a variety of options to sell.

We know that over half of all commercial fluorescent lighting fixtures are comprised of recessed troffers. For commercial buildings the energy savings can translate from 15% - 45% savings over conventional systems installed, not to mention the savings from installing a controls scenario.

Universal is committed to servicing this market, and we offer a number of retrofit solutions:



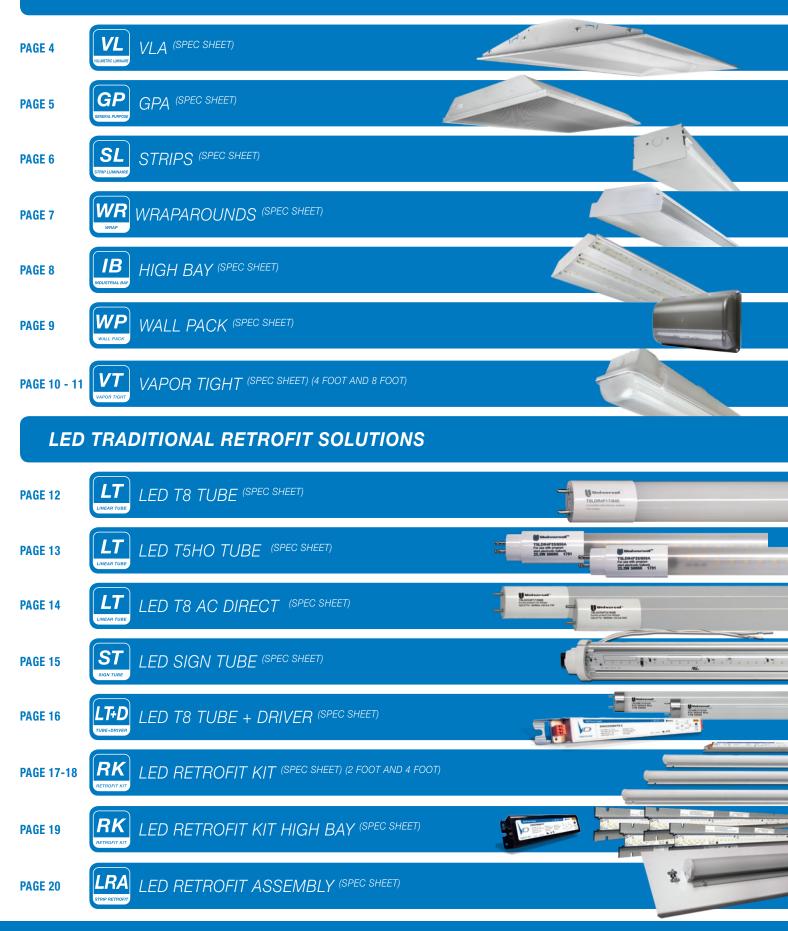
As demand for converting existing fluorescent to LED grows, Universal is pleased to offer you traditional simple replacement to sophisticated LED retrofit solutions, including many options in between. We offer standard luminaire LED replacement options from Tubes (Tubes, Tubes + Ballasts), to light engines (e.g. Tubes + Drivers, or LED Retrofit Kits), and even full fixture replacement with a full luminaire line. Universal makes it easy to upgrade to LED technology with reliable performance and our complete in-house design (electronic, thermal and optical) with EVERLINE® "matched" modules and drivers. Every piece of our system is designed to work seamlessly together to provide you with a worry free solution.













VLA

Volumetric, Grid Mount Luminaire





MECHANICAL

- · Corrosion and scratch resistant; high reflectivity, post powder coat paint
- Access plate for fast installation
- Integral grid clips and auxiliary suspension points

OPTICAL

• Low loss acrylic center-basket style diffuser

WARRANTY

• Five year limited warranty

ELECTRICAL

- 120-277 VAC, 50/60 Hz
- 0-10V Dimming to 1% is standard

LIGHT ENGINE

Universal Lighting Technologies

• Tuned LED driver & high-efficacy LED modules

CERTIFICATIONS

- ETL Certified for US & Canada application
- Select models (identified below) are DesignLights Consortium® qualified.

Consult www.designlights.org/QPL for details.

ORDERING GUIDE

EXAMPLE: VLA24-48W840-U

| Ordering Information | | | | | | | | | | |
|---|-----------------------|---|---|---|-------------------------|---|---|--|---|---|
| Series | Format | - | Watts | W | CRI | Color Temp. | - | Voltage | - | Options |
| | 14 = 1ft x 4ft | - | 48¹ | | 8 = 80 (minimum) | 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K (Nominal) | - | U = 120- 277 VAC 50/60 Hz | - | EM = Backup battery pack WP = 6 FT, 3 Wire, whip C6F ⁴ = 6 FT cord set |
| VLA = Recessed, Lay-In, Volumetric Luminaire for 15/16 inch Ceiling Grids | 22 = 2ft x 2ft | - | 24 ² 35 ² | w | | | | | | |
| | 24 = 2ft x 4ft | - | 32 ³ 48 ¹ 57 ³ | | | | | | | |

ORDERING NOTES:

- 1. 1x4 ft & 2x4 ft only
- 2. 2x2 ft only

- 4. For use on 120VAC systems only

PERFORMANCE DATA

EXAMPLE: VLA24-48W840-U

| Cownet | Wa | ntts | Delivered | LPW | Input | Amps | PF | ThD |
|--------|---------|----------|-----------|------|-------|-----------|--------|-------|
| Format | Nominal | Measured | Lumens | LPVV | 120V | 120V 277V | | IIID |
| 14 | 48 | 48.0 | 6025 | 125 | 0.41 | 0.18 | > 0.90 | < 20% |
| 00 | 24 | 24.0 | 3018 | 125 | 0.20 | 0.09 | > 0.90 | < 20% |
| 22 | 35 | 35.0 | 4160 | 119 | 0.30 | 0.13 | > 0.90 | < 20% |
| | 32 | 33.6 | 4307 | 134 | 0.29 | 0.13 | > 0.90 | < 20% |
| 24 | 48 | 48.0 | 6155 | 128 | 0.41 | 0.18 | > 0.90 | < 20% |
| | 57 59.0 | | 7212 | 122 | 0.50 | 0.13 | > 0.90 | < 20% |

| LUMEN MAINTENANCE | |
|--------------------|------------------|
| Reported per TM-21 | L75 > 60,000 hrs |
| Calculated L70 | L70 > 85,000 hrs |

PERFORMANCE NOTES:

- Nominal delivered lumens data provided for 4000K model at 25°C
- Specifications subject to change without notice
- Multiply by 0.95 for 3000K, 0.97 for 3500K or 1.03 for 5000K.

DESIGNLIGHTS CONSORTIUM® QPL LISTED PRODUCTS

| Model Number |
|----------------|
| VLA14-48W830-U |
| VLA14-48W835-U |
| VLA14-48W840-U |
| VLA14-48W850-U |

| Model Number |
|----------------|
| VLA22-24W830-U |
| VLA22-24W835-U |
| VLA22-24W840-U |
| VLA22-24W850-U |

| Model Number |
|----------------|
| VLA22-35W830-U |
| VLA22-35W835-U |
| VLA22-35W840-U |
| VLA22-35W850-U |

| Model Number |
|----------------|
| VLA24-32W830-U |
| VLA24-32W835-U |
| VLA24-32W840-U |
| VLA24-32W850-U |

| Model Number |
|----------------|
| VLA24-48W830-U |
| VLA24-48W835-U |
| VLA24-48W840-U |
| VLA24-48W850-U |

| Model Number |
|----------------|
| VLA24-57W830-U |
| VLA24-57W835-U |
| VLA24-57W840-U |
| VLA24-57W850-U |





GPA

General Purpose Grid Mount Luminaire





MECHANICAL

- Corrosion and scratch resistant; high reflectivity, post power coat paint
- · Access plate for fast installation
- Integral grid clips and auxiliary suspension points
- Flush steel door hinges from either side

OPTICAL

• Standard 0.100" prismatic lens, others available

WARRANTY

· Five year limited warranty

ELECTRICAL

- 120-277 VAC, 50/60 Hz
- 0-10V Dimming to 1% is standard

LIGHT ENGINE

Universal Lighting Technologies

• Tuned LED driver & high-efficacy LED modules

CERTIFICATIONS

- ETL Certified for US & Canada application
- Select models (identified below) are DesignLights Consortium® qualified.
 Consult <u>www.designlights.org/QPL</u> for details.

ORDERING GUIDE

EXAMPLE: GPA24-48W840-U

| Ordering Information | | | | | | | | | | |
|---|-----------------------|---|---|---|-------------------------|--|---|---------------------------------|---|--|
| Series | Format | - | Watts | W | CRI | Color Temp. | - | Voltage | - | Options |
| | 14 = 1ft x 4ft | - | 48¹ | | | 30 = 3000K | | | | L125 = 0.125 inch thick A12 |
| GPA = Recessed, Lay In Luminaire for 15/16-in Ceiling Grids | 22 = 2ft x 2ft | - | 35 ² 45 ³ | w | 8 = 80 (minimum) | 35 = 3500K 40 = 4000K | _ | U = 120-277 VAC 50/60 Hz | _ | prismatic lens EM = Backup battery pack |
| | 24 = 2ft x 4ft | - | 35 ² 48 ¹ 57 ⁴ | | | 50 = 5000K (Nominal) | | | | WP = 6 FT, 3 Wire, whip C6F ^s = 6 FT cord set |

ORDERING NOTES:

- 1. 1x4 ft & 2x4 ft only
- 2. 2x2 ft & 2x4 ft only

- 3. 2x2 ft only
- 4. 2x4 ft only
- 5. For use on 120VAC systems only

PERFORMANCE DATA

EXAMPLE: GPA24-48W840-U

| Format | Wa | itts | Delivered | LPW | Input | Amps | PF | ThD |
|--------|---------|----------|-----------|------|-------|------|--------|-------|
| Format | Nominal | Measured | Lumens | LPVV | 120V | 277V | PF | |
| 14 | 48 | 48.0 | 4824 | 101 | 0.41 | 0.18 | > 0.90 | < 20% |
| 22 | 35 | 35.0 | 3591 | 103 | 0.30 | 0.13 | > 0.90 | < 20% |
| 22 | 45 | 45.0 | 4474 | 99 | 0.38 | 0.17 | > 0.90 | < 20% |
| | 35 | 34.7 | 4346 | 125 | 0.30 | 0.13 | > 0.90 | < 20% |
| 24 | 48 | 47.5 | 5900 | 124 | 0.41 | 0.18 | > 0.90 | < 20% |
| | 57 | 55.0 | 6737 | 123 | 0.48 | 0.22 | > 0.90 | < 20% |

| LUMEN MAINTENANCE | | | | | | |
|--------------------|------------------|--|--|--|--|--|
| Reported per TM-21 | L75 > 60,000 hrs | | | | | |
| Calculated L70 | L70 > 85,000 hrs | | | | | |

PERFORMANCE NOTES:

- Nominal delivered lumens data provided for 4000K model at 25°C $\,$
- Specifications subject to change without notice
- Multiply by 0.95 for 3000K, 0.97 for 3500K or 1.03 for 5000K.

DESIGNLIGHTS CONSORTIUM® QPL LISTED PRODUCTS

| Model Number |
|----------------|
| GPA22-35W830-U |
| GPA22-35W835-U |
| GPA22-35W840-U |
| GPA22-35W850-U |

| Model Number |
|----------------|
| GPA22-45W830-U |
| GPA22-45W835-U |
| GPA22-45W840-U |
| GPA22-45W850-U |

| Model Number |
|----------------|
| GPA24-35W830-U |
| GPA24-35W835-U |
| GPA24-35W840-U |
| GPA24-35W850-U |

| Model Number |
|----------------|
| GPA24-48W830-U |
| GPA24-48W835-U |
| GPA24-48W840-U |
| GPA24-48W850-U |

| Model Number |
|----------------|
| GPA24-57W830-U |
| GPA24-57W835-U |
| GPA24-57W840-U |
| GPA24-57W850-U |
| |



STRP4

4.25 Inch LED Strip Luminaire



MECHANICAL

- Die-formed, cold-rolled steel with high-reflectance, baked enamel finish.
- End plate doubles as a coupler/alignment device for continuous row mounting applications
- Diffuse, acrylic lens available as an accessory

APPLICATION

- For use in indoor, non-condensing & non-corrosive environments
- Warehouses, factories, utility areas, etc.

WARRANTY

• Five year limited warranty

ELECTRICAL

- 120-277 VAC, 50/60 Hz
- 0-10V Dimming to 1% is standard

LIGHT ENGINE

Universal Lighting Technologies

• Tuned LED driver & high-efficacy LED modules

CERTIFICATIONS

- ETL Certified for US & Canada application
- · Select models (identified below) are DesignLights Consortium® qualified. Consult www.designlights.org/QPL for details.

ORDERING GUIDE

EXAMPLE: STRP448-48W840-U

| Ordering Information | | | | | | | | | | |
|---|--------|---|---|---|------------------|---|---|---------------------------------|---|---|
| Series | Format | - | Watts | W | CRI | Color Temp. | - | Voltage | - | Options |
| | 24 in | - | 18 ¹ 24 ⁴ 28 ¹ | w | 8 = 80 (minimum) | | | U = 120-277 VAC 50/60 Hz | | LNPL ⁷ = Lens plates (longer end plates to accommodate a separately purchased lens) WP = 6 FT, 3 Wire, whip C6F° = 6 FT cord set |
| STRP4 = 4.25 Inch, Strip Style Luminaire | 48 in | - | 24 ⁴ 35 ² 48 ⁵ 57 ² | | | 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K (Nominal) | - | | | |
| | 96 in | - | 48 ⁵ 70 ³ 97 ³ 114 ³ | | | | | | | EM ⁵ = Backup battery pack |

ORDERING NOTES:

- 5. 48 & 96 inch lengths only 1. 24 inch length only

4. 24 & 48 inch lengths only

- 2. 48 inch length only 3. 96 inch length only
- 6. For use on 120VAC systems only
- 7. Fixtures with the LNPL option do not come equipped with standard end plates (which can used for alignment). For continuous row mounting of fixtures with lenses, order standard fixtures, matching lenses (see below) and as many STRP4-ACC-LNPL accessories (see below) as needed to finish the rows.

PERFORMANCE DATA

EXAMPLE: STRP448-48W840-U

| | Ws | ıtts | Delivered Lumens | | Input | Amps | PF | ThD |
|--------|---------|----------|---------------------|-----|-------|------|--------|-------|
| Format | WWC | | | LPW | Прис | | | |
| | Nominal | Measured | | | 120V | 277V | | |
| | 18 | 18.6 | 2,590 | 139 | 0.16 | 0.07 | > 0.90 | < 20% |
| 24 in | 24 | 24.0 | 3,355 | 140 | 0.20 | 0.09 | > 0.90 | < 20% |
| | 28 | 28.0 | 3,705 | 132 | 0.24 | 0.11 | > 0.90 | < 20% |
| | 24 | 23.9 | 3,475 | 145 | 0.20 | 0.09 | > 0.90 | < 20% |
| 48 in | 35 | 35.0 | 4,920 | 141 | 0.30 | 0.13 | > 0.90 | < 20% |
| 46 111 | 48 | 48.0 | 6,475 | 135 | 0.41 | 0.18 | > 0.90 | < 20% |
| | 57 | 59.0 | 7,755 | 131 | 0.50 | 0.23 | > 0.90 | < 20% |
| | 48 | 48.0 | 6,475 | 135 | 0.41 | 0.18 | > 0.90 | < 20% |
| 06 in | 70 | 70.0 | 9,840 | 141 | 0.60 | 0.27 | > 0.90 | < 20% |
| 96 in. | 97 | 97.0 | 12,950 | 134 | 0.82 | 0.37 | > 0.90 | < 20% |
| | 114 | 117.7 | 15,510 | 131 | 1.00 | 0.45 | > 0.90 | < 20% |

| ACCESSORIES | |
|------------------|--------------------------------|
| STRP4-ACC-WG4 | 4-Ft Wire guard |
| STRP4-ACC-LEN2 | 2-Ft Lens |
| STRP4-ACC-LEN4 | 4-Ft Lens |
| STRP4-ACC-LEN8 | 8-Ft Lens |
| STRP4-ACC-PNDKIT | 2ps V-Hook & 2pc 2-Ft Chain |
| STRP4-ACC-LNPL | 2pc Lens plates |
| | |

| LUMEN MAINTENANCE | |
|--------------------|------------------|
| Reported per TM-21 | L75 > 60,000 hrs |
| Calculated L70 | L70 > 85,000 hrs |

PERFORMANCE NOTES:

- Nominal delivered lumens data provided for 4000K model at 25°C
- Multiply Delivered Lumens & LPW by 0.95 for 3000K, 0.97 for 3500K or 1.03 for 5000K.
- Multiply Delivered Lumens & LPW by 0.90 when used with lens
- Specifications subject to change without notice

DESIGNLIGHTS CONSORTIUM® QPL LISTED PRODUCTS



| | Model Number |
|---|-------------------|
| S | STRP424-24W830-U* |
| S | STRP424-24W835-U* |
| S | STRP424-24W840-U* |
| , | STRP424-24W850-U* |

| Model Number |
|--------------------|
| STRP448-24W830-U** |
| STRP448-24W835-U** |
| STRP448-24W840-U** |
| STRP448-24W850-U** |
| |

| Model Number |
|--------------------|
| STRP448-48W830-U** |
| STRP448-48W835-U** |
| STRP448-48W840-U** |
| STRP448-48W850-U** |
| |

| 1 | Model Number | | | | | | |
|---|---------------------|--|--|--|--|--|--|
| | STRP496-48W830-U*** | | | | | | |
| | STRP496-48W835-U*** | | | | | | |
| | STRP496-48W840-U*** | | | | | | |
| | STRP496-48W850-U*** | | | | | | |

| Me | odel Number |
|-------|-----------------|
| STRP4 | 196-97W830-U*** |
| STRP4 | 196-97W835-U*** |
| STRP4 | 196-97W840-U*** |
| STRP4 | 196-97W850-U*** |

| Model Number |
|-------------------|
| STRP424-18W830-U* |
| STRP424-18W835-U* |
| STRP424-18W840-U* |
| STRP424-18W850-U* |
| |

| Model Number |
|-------------------|
| STRP424-28W830-U* |
| STRP424-28W835-U* |
| STRP424-28W840-U* |
| STRP424-28W850-U* |
| |

| Model Number |
|--------------------|
| STRP448-35W830-U** |
| STRP448-35W835-U** |
| STRP448-35W840-U** |
| STRP448-35W850-U** |

| Model Number |
|--------------------|
| STRP448-57W830-U** |
| STRP448-57W835-U** |
| STRP448-57W840-U** |
| STRP448-57W850-U** |
| |

| Model Number |
|---------------------|
| STRP496-70W830-U*** |
| STRP496-70W835-U*** |
| STRP496-70W840-U*** |
| STRP496-70W850-U*** |

| ı | Model Number |
|---|----------------------|
| | STRP496-114W830-U*** |
| | STRP496-114W835-U*** |
| | STRP496-114W840-U*** |
| | STRP496-114W850-U*** |

PAGE 6



WRP9

9 Inch Wraparound Luminaire



MECHANICAL

- Corrosion and scratch resistant; high reflectivity, post power coat paint
- Surface, stem or chain mounted
- For use in indoor, non-condensing & non-corrosive environments

OPTICAL

- Acrylic, prismatic diffuser with ribbed linear sides
- Hinges from either side; self-aligning

WARRANTY

• Five year limited warranty

ELECTRICAL

- 120-277 VAC, 50/60 Hz
- 0-10V Dimming to 1% is standard

LIGHT ENGINE

Universal Lighting Technologies

• Tuned LED driver & high-efficacy LED modules

CERTIFICATIONS

- ETL Certified for US & Canada application
- Select models (identified below) are DesignLights Consortium® qualified.
 Consult www.designlights.org/QPL for details.

ORDERING GUIDE

EXAMPLE: WRP948-48W840-U

EXAMPLE: WRP948-48W840-U

| Ordering Information | | | | | | | | | | |
|---|--------|---|------------------------------------|---|-------------------------|---|---|--|---|---|
| Series | Length | - | Watts | W | CRI | Color Temp. | - | Voltage | - | Options |
| | 24 in | - | 28¹ | | 8 = 80 (minimum) | 30 = 3000K 35 = 3500K | | U = 120- 277 VAC 50/60 Hz | | WP = 6 FT, 3 Wire, whip C6F ³ = 6 FT cord set |
| WRP9 = Surface Mount, 9-Inch, Wraparound Luminaire | 48 in | - | 48 ² 56 ² | W | | 40 = 4000K 50 = 5000K (Nominal) | - | | - | |

ORDERING NOTES:

- 1. 24 inch length only
- 2. 48 inch lengths only
- 3. For use on 120VAC systems only

PERFORMANCE DATA

| | Length | Watts | | Delivered | LPW | Input | Amps | PF | ThD |
|--|--------|---------|----------|-----------|------|-------|------|--------|-------|
| | Length | Nominal | Measured | Lumens | LPVV | 120V | 277V | PF | THE |
| | 24 in | 28 | 28.0 | 2950 | 105 | 0.24 | 0.11 | > 0.90 | < 20% |
| | 48 in | 48 | 48.0 | 5107 | 106 | 0.41 | 0.18 | > 0.90 | < 20% |
| | 40 111 | 56 | 56.0 | 6019 | 107 | 0.48 | 0.48 | > 0.90 | < 20% |

LUMEN MAINTENANCE Reported per TM-21 L75 > 60,000 hrs Calculated L70 L70 > 85,000 hrs

PERFORMANCE NOTES:

- Nominal delivered lumens data provided for 4000K model at 25°C $\,$
- Specifications subject to change without notice
- Multiply by 0.95 for 3000K, 0.97 for 3500K or 1.03 for 5000K.

DESIGNLIGHTS CONSORTIUM® QPL LISTED PRODUCTS

| Model Number |
|-----------------|
| WRP948-48W830-U |
| WRP948-48W835-U |
| WRP948-48W840-U |
| WRP948-48W850-U |

| Model Number |
|-----------------|
| WRP948-56W830-U |
| WRP948-56W835-U |
| WRP948-56W840-U |
| WRP948-56W850-U |
| |



BLC48

4FT LED Linear High Bay Luminaire



MECHANICAL

- Die-formed, cold-rolled steel with high-reflectance, baked enamel finish.
- Suitable for pendant mounting with chains or cables
- Diffuse, acrylic lens available as an accessory

APPLICATION

- For use in indoor, non-condensing & non-corrosive environments
- Warehouses, factories, utility areas, etc.

WARRANTY

• Five year limited warranty

ELECTRICAL

- 120-277 or 347-480 VAC, 50/60 Hz 6kV Surge Rating
- 0-10V Dimming to 1% is standard

LIGHT ENGINE

Universal Lighting Technologies

• Tuned LED driver & high-efficacy LED modules

CERTIFICATIONS

- CSA Certified fir US & Canada application
- Select models (identified below) are DesignLights Consortium® qualified.

Consult www.designlights.org/QPL for details.

ORDERING GUIDE

EXAMPLE: BLC48-65W850-U

| Ordering Information | | | | | | | | | | |
|--|--------|---|------------------------|---|-------------------------|---|---|---|---|---|
| Series | Length | - | Watts (nom.) | W | CRI | Color Temp. | - | Voltage | - | Options |
| BLC48 = 4FT LED Linear High Bay Luminaire | 48 in | - | 65 90 130 180 | w | 8 = 80 (minimum) | 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K (Nominal) | - | U = 120-277 VAC 50/60 Hz HRV = 347-480 VAC, 50/60 Hz | - | EM¹ = 10W battery backup WP6 = 6ft Whip WP12 =12ft Whip |

¹EM option available on UNV (120-277V) versions only

PERFORMANCE DATA

EXAMPLE: BLC48-65W840-U

| | | | | | | | HR | HRV (347-480V) | | | | | |
|--------------------------------------|--------------|-----------|-------|------|-------|------|-----------|----------------|-------|------------|------|--------|-------|
| Model | Watts (nom.) | Delivered | Watts | LPW | Input | Amps | Delivered | Watts | LPW | Input Amps | | PF | ThD |
| | (, | Lumens | watts | LI W | 120V | 277V | Lumens | watts | LI VV | 347V | 480V | | |
| BLC48-65W8xx-U BLC48-65W8xx-HRV | 65 | 9,916 | 62.21 | 159 | 0.52 | 0.23 | 10,059 | 64.88 | 155 | 0.20 | 0.15 | > 0.90 | < 20% |
| BLC48-90W8xx-U BLC48-90W8xx-HRV | 90 | 13,678 | 88.97 | 153 | 0.75 | 0.33 | 13,688 | 91.13 | 150 | 0.28 | 0.21 | > 0.90 | < 20% |
| BLC48-130W8xx-U BLC48-130W8xx-HRV | 130 | 18,700 | 128.3 | 147 | 1.08 | 0.48 | 18,890 | 132.5 | 142 | 0.40 | 0.30 | > 0.90 | < 20% |
| BLC48-180W8xx-U BLC48-180W8xx-HRV | 180 | 26,391 | 178.7 | 147 | 1.50 | 0.67 | 26,830 | 180.4 | 148 | 0.55 | 0.41 | > 0.90 | < 20% |

PERFORMANCE NOTES:

- Delivered lumens and LPW data provided for the 4000K model at 25°C
- Multiply delivered lumens and LPW by 0.9439 for 3000K or 3500K, or by 1.0103 for 5000K
- Multiply delivered lumens and LPW by 0.939 when used with the BLC48-ACC-LEN48X16 or BLC48-ACC-LEN48X11 lens accessory
- Specifications subject to change without notice

LUMEN MAINTENANCE

| ACCESSORIES (Sold separately and intended for field installation) | | | | | | | |
|---|--|--|--|--|--|--|--|
| 6ft Chain & V-Tong (1 pair) | | | | | | | |
| 15ft Adj. cable mount (1 pair) | | | | | | | |
| Wire guard for 48X16 in BLC Housing (180W models) | | | | | | | |
| Wire guard for 48X11 in BLC Housing (65W, 90W & 130W models) | | | | | | | |
| Wraparound lens for 48X16 in BLC Housing (180W models) | | | | | | | |
| Wraparound lens for 48X11 in BLC Housing (65W, 90W & 130W models) | | | | | | | |
| | | | | | | | |

| LUIVIEN WAINTENANCE | | | | | |
|------------------------|-------------------|--|--|--|--|
| Reported per LM | L70 > 60,000 hrs | | | | |
| Calculated LM at 50°C | L70 > 110,000 hrs | | | | |
| Calculated LIM at 50°C | L85 > 50,000 hrs | | | | |

| Ambient Operating Temperature | | | | | | | |
|-------------------------------|------|------|--|--|--|--|--|
| Watts (nom.) | UNV | HRV | | | | | |
| 65W, 90W 130W | 50°C | 49°C | | | | | |
| 180W | 48°C | 45°C | | | | | |

DESIGNLIGHTS CONSORTIUM® QPL LISTED PRODUCTS

| Model Number |
|----------------|
| BLC48-65W830-U |
| BLC48-65W835-U |
| BLC48-65W840-U |
| BLC48-65W850-U |

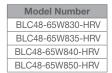
| Mod | lel Number |
|------|------------|
| BLC4 | 8-90W830-U |
| BLC4 | 8-90W835-U |
| BLC4 | 8-90W840-U |
| BLC4 | 8-90W850-U |

| Model Number |
|-----------------|
| BLC48-160W830-U |
| BLC48-160W835-U |
| BLC48-160W840-U |
| BLC48-160W850-U |

| Model Number | |
|-----------------|--|
| BLC48-180W830-U | |
| BLC48-180W835-U | |
| BLC48-180W840-U | |
| BLC48-180W850-U | |
| BLC48-180W840-U | |

| 8-180W840-U | |
|--------------|--------|
| 8-180W850-U | Drc 68 |
| | |
| del Number | VIIE |
| -180W830-HRV | |

| LOL | OIVV | models, | reduce | IJУ | 0.0 | wilen | using | d | iens |
|-----|------|---------|--------|-----|-----|-------|-------|---|------|
| For | HRV | models, | reduce | by | 5°C | when | using | а | lens |



| Model Number |
|------------------|
| BLC48-90W830-HRV |
| BLC48-90W835-HRV |
| BLC48-90W840-HRV |
| BLC48-90W850-HRV |

| Model Number |
|-------------------|
| BLC48-160W830-HRV |
| BLC48-160W835-HRV |
| BLC48-160W840-HRV |
| BLC48-160W850-HRV |

| Model Number |
|-------------------|
| BLC48-180W830-HRV |
| BLC48-180W835-HRV |
| BLC48-180W840-HRV |
| BLC48-180W850-HRV |



PAGE 8



WPL13

13" LED Wall-Pack





MECHANICAL

- Painted, die cast aluminum frame
- · Polyester powder coat finish
- One piece continuous silicone gasket
- Mounts to standard 4" junction box

OPTICAL

- · Acrylic or polycarbonate lens with continuous gasket
- Type IV distribution
- Optional full cutoff shield accessory (ordered separately)
- 80 CRI (min.), 4000K or 5000K CCT
- Excellent lumen maintenance, L70 >140,000 hrs

WARRANTY

• Five year limited warranty

ELECTRICAL

- 120-277VAC, 50/60Hz
- Wiring access through back of frame or through the top via surface mounted conduit
- Options include dedicated voltage 120V or 277V photocells

CERTIFICATIONS

- ETL Listed to UL 1598 for US and Canadian applications
- · IP66 rated, suitable for wet locations
- · RoHS compliant, contains no lead or mercury
- · Select models (identified below) are DesignLights Consortium™ qualified.

Consult www.designlights.org/QPL for more details.

ORDERING GUIDE

EXAMPLE: WPL13-23L840-U-PCBZ

| | | - | | | | - | | - | | | |
|-----------------|-------------------|---|--------------------|---------------|-------------------|---|---------------------|---|--------------------|-------------------------|-----------------------------------|
| Series | Size | | Nominal Lumens | CRI | Color Temp. | | Voltage | | Lens | Finish | Options |
| WPL = Wall Pack | 13 = 13 in | - | 10L = 1,000 | 8 = 82 | 40 = 4000K | - | U = 120-277V | - | (Blank) = Acrylic, | BZ = Dark Bronze | DS1 ¹ = 120V Photocell |
| Luminaire | | | 23L = 2,300 | (nominal) | 50 = 5000K | | 50/60Hz | | 50% DR | | DS2 ² = 277V Photocell |
| ı | | | 33L = 3,300 | | | | | | PC = Polycarbonate | | |

ORDERING NOTES

- 1. Suitable for 120V supply only
- 2. Suitable for 277V supply only.

Accessories (Order Separately)

WCS13-BZ = Full cutoff shield

DesignLights Consortium™ QPL Listed Products

| Model Number |
|-----------------------|
| WPL13-10L840-U-BZ |
| WPL13-10L840-U-PCBZ |
| WPL13-10L850-U-BZ |
| WPI 13-10I 850-U-PCB7 |

| Model Number |
|---------------------|
| WPL13-23L840-U-BZ |
| WPL13-23L840-U-PCBZ |
| WPL13-23L850-U-BZ |
| WPL13-23L850-U-PCBZ |

| Model Number |
|---------------------|
| WPL13-33L840-U-BZ |
| WPL13-33L840-U-PCBZ |
| WPL13-33L850-U-BZ |
| WPL13-33L850-U-PCBZ |
| |



| | WITH WCS13-BZ SHIELD | | | | | WITHOUT WCS13-BZ SHIELD | | | | | | | | |
|--------|----------------------|--------|---------------|---------|-----------|-------------------------|---|---|---|-----------|-----|---|---|---|
| Light | LED Drive | Input | Input Current | | Delivered | | | | | Delivered | | | | |
| Engine | Current | Power | @ 120V | @ 277V | Lumens | LPW | В | U | G | Lumens | LPW | В | U | G |
| 10L | 350 mA | 9.4 W | 0.079 A | 0.041 A | 827 | 88 | 0 | 1 | 1 | 919 | 98 | 0 | 3 | 1 |
| 23L | 620 mA | 21.2 W | 0.178 A | 0.082 A | 2028 | 96 | 1 | 1 | 1 | 2253 | 106 | 1 | 3 | 2 |
| 33L | 1050 mA | 35.2 W | 0.296 A | 0.141 A | 3020 | 86 | 1 | 1 | 1 | 3355 | 95 | 1 | 3 | 3 |

- All data is subject to change without notice
- Performance data taken with a 25°C ambient, 4000K CCT and a polycarbonate lens
 Multiply lumens and efficacy by 1.03 for 5000K CCT and/or 1.1 for acrylic lens
- Performance data obtained from photometric tests in accordance with IES LM-79-08 by a NVLAP accreditied testing laboratory. Data is representative of the configurations shown. Actual performace may differ for various end user environments and applications.
- Consult factory for photometry.



VTL4

4' LED Vapor Tight



MECHANICAL

- Gasketed white fiberglass housing
- White enamel painted steel gear tray
- (6) White plastic molded retaining latches
- (2) Stainless steel mounting brackets

OPTICAL

- Acrylic thermal formed lens, 15% DR, 100% frost
- 85 CRI (nom.); 3500K, 4000K, 5000K CCT
- Excellent lumen maintenance

WARRANTY

· Five year limited warranty

ELECTRICAL

- Available as 120-277VAC or 347VAC
- 0-10V Dimming to 10%
- Housing includes (2) 7/8" end holes

CERTIFICATIONS

- UL Listed to US & Canadian UL 1598
- · Suitable for wet locations
- IP65 rated for covered outdoor use
- · RoHS compliant, contains no mercury or lead
- Select models (identified below) are DesignLights Consortium™ qualified. Consult www.designlights.org/ QPL for details.

ORDERING GUIDE

EXAMPLE: VTL4-40L840-U

| | | - | | | | - | | |
|--------------------|----------------|---|----------------------------------|----------------------|--------------------|---|---------------------|--|
| Series | Size | | Nominal Lumens | CRI (nom.) | Color Temp. | | Voltage | Options |
| VTL = LED Vapor | 4 = 4ft | - | 33L = 3,300 | 8 = 85 (nom.) | 35 = 3,500K | - | U = 120-277V | SSL = Stainless steel latches |
| Tight Luminaire | | | 40L = 4,000 | | 40 = 4,000K | | 347 = 347V | SSLTR = Tamper resistant stainless steel latches |
| | | | 5K = 5,000 | | 50 = 5,000K | | | |
| | | | 6K = 6,000 | | | | | |
| | | | 8K = 8,000 | | | | | |
| | | | 10K ¹ = 10,000 | | | | | |

ORDERING NOTES:

1. 10K Light engine modules rated for max 35°C

Accessories (Order Separately)

VTA-DCFIT-1/2 = 7/8" Aluminum die cast fitting - 1/2" rigid conduit (pack of 2)

VTA-TRBIT-SE8 = Tamper resistant driver bit - snake eyes #8

DesignLights Consortium™ QPL Listed Products

| Model Number |
|---------------|
| VTL4-33L835-U |
| VTL4-33L840-U |
| VTL4-33L850-U |
| VTL4-40L835-U |
| VTL4-40L840-U |
| VTL4-40L850-U |

| Model Number |
|--------------|
| VTL4-5K835-U |
| VTL4-5K840-U |
| VTL4-5K850-U |
| VTL4-6K835-U |
| VTL4-6K840-U |
| VTL4-6K850-U |

| Model Number |
|---------------|
| VTL4-8K835-U |
| VTL4-8K840-U |
| VTL4-8K850-U |
| VTL4-10K835-U |
| VTL4-10K840-U |
| VTL4-10K850-U |

| Model Number |
|-----------------|
| VTL4-40L835-347 |
| VTL4-40L840-347 |
| VTL4-40L850-347 |
| VTL4-5K835-347 |
| VTL4-5K840-347 |
| VTL4-5K850-347 |

| 2. 0.1000 0 | |
|---------------|----------------|
| Model Number | Model Number |
| L4-33L835-347 | VTL4-8K835-347 |
| L4-33L840-347 | VTL4-8K840-347 |
| L4-33L850-347 | VTL4-8K850-347 |
| L4-6K835-347 | |
| | |









| Light | Input | Ir | nput Curren | t | | | Spacing |
|--------|----------|--------|-------------|--------|------------------|-----|-----------|
| Engine | Power | @ 120V | @ 277V | @ 347V | Delivered Lumens | LPW | Criterion |
| 33L | 39 watt | 0.32 A | 0.14 A | 0.11A | 4,758 lumen | 122 | 1.22 |
| 40L | 52 watt | 0.43 A | 0.19 A | 0.15A | 5,873 lumen | 113 | 1.22 |
| 5K | 49 watt | 0.41 A | 0.18 A | 0.14A | 6,606 lumen | 135 | 1.24 |
| 6K | 58 watt | 0.48 A | 0.21 A | 0.17A | 7,787 lumen | 134 | 1.24 |
| 8K | 87 watt | 0.72 A | 0.31 A | 0.25A | 10,697 lumen | 123 | 1.24 |
| 10K | 107 watt | 0.89 A | 0.38 A | 0.30A | 13,530 lumen | 126 | 1.24 |

- Performance data provided at 4000K CCT, multiply lumens and LPW by 1.06 for 5000K or 0.93 for 3500K
- Specifications subject to change without notice
- Performance data obtained from photometric tests in accordance with IES LM-79-08 by a NVLAP accredited testing lab
- Consult factory for photometry







VTL8

8' LED Vapor Tight



MECHANICAL

- Gasketed white fiberglass housing
- White enamel painted steel gear tray
- (12) White plastic molded retaining latches
- (4) Stainless steel mounting brackets

OPTICAL

- Acrylic thermal formed lens, 15% DR, 100% frost
- 85 CRI (nom.); 3500K, 4000K, 5000K CCT
- Excellent lumen maintenance

WARRANTY

• Five year limited warranty

ELECTRICAL

- Available as 120-277VAC or 347VAC
- 0-10V Dimming to 10%
- Housing includes (2) 7/8" end holes

CERTIFICATIONS

- UL Listed to US & Canadian UL 1598
- · Suitable for wet locations
- IP65 rated for covered outdoor use
- · RoHS compliant, contains no mercury or lead
- Select models (identified below) are DesignLights
 Consortium™ qualified. Consult www.designlights.org/
 QPL for details.

ORDERING GUIDE

EXAMPLE: VTL8-7K840-U

| | | - | | | | - | | |
|--------------------|----------------|---|----------------------------------|----------------------|--------------------|---|---------------------|--|
| Series | Size | | Nominal Lumens | CRI (nom.) | Color Temp. | | Voltage | Options |
| VTL = LED Vapor | 8 = 8ft | - | 7K = 7,000 | 8 = 85 (nom.) | 35 = 3,500K | - | U = 120-277V | SSL = Stainless steel latches |
| Tight Luminaire | | | 8K = 8,000 | | 40 = 4,000K | | 347 = 347V | SSLTR = Tamper resistant stainless steel latches |
| | | | 10K = 10,000 | | 50 = 5,000K | | | |
| | | | 12K = 12,000 | | | | | |
| | | | 16K = 16,000 | | | | | |
| | | | 20K ¹ = 20,000 | | | | | |

ORDERING NOTES:

1. 20K Light engine modules rated for max 35°C

Accessories (Order Separately)

VTA-DCFIT-1/2 = 7/8" Aluminum die cast fitting - 1/2" rigid conduit (pack of 2)

 $\label{eq:tau} \textbf{VTA-TRBIT-SE8} = \text{Tamper resistant driver bit - snake eyes \#8}$

DesignLights Consortium™ QPL Listed Products

| Model Number |
|--------------|
| VTL8-7K835-U |
| VTL8-7K840-U |
| VTL8-7K850-U |
| VTL8-8K835-U |
| VTL8-8K840-U |
| VTL8-8K850-U |

| Model Number | |
|---------------|--|
| VTL8-10K835-U | |
| VTL8-10K840-U | |
| VTL8-10K850-U | |
| VTL8-12K835-U | |
| VTL8-12K840-U | |
| VTL8-12K850-U | |
| | |

| Model Number |
|---------------|
| VTL8-16K835-U |
| VTL8-16K840-U |
| VTL8-16K850-U |
| VTL8-20K835-U |
| VTL8-20K840-U |
| VTL8-20K850-U |

| Model Number |
|----------------|
| VTL8-7K835-347 |
| VTL8-7K840-347 |
| VTL8-7K850-347 |
| VTL8-8K835-347 |
| VTL8-8K840-347 |
| VTL8-8K850-347 |

| Model Number |
|-----------------|
| VTL8-10K835-347 |
| VTL8-10K840-347 |
| VTL8-10K850-347 |
| VTL8-16K835-347 |
| VTL8-16K840-347 |
| VTL8-16K850-347 |
| |

| Model Number |
|-----------------|
| VTL8-20K835-347 |
| VTL8-20K840-347 |
| VTL8-20K850-347 |
| |



Model Number
VTL8-12K835-347
VTL8-12K840-347
VTL8-12K850-347



| Light | Input | | Input Current | | | |
|--------|----------|--------|---------------|--------|------------------|-----|
| Engine | Power | @ 120V | @ 277V | @ 347V | Delivered Lumens | LPW |
| 7K | 77 watt | 0.64 A | 0.28 A | 0.22 A | 10,136 lumen | 132 |
| 8K | 102 watt | 0.85 A | 0.37 A | 0.29 A | 12,198 lumen | 120 |
| 10K | 98 watt | 0.82 A | 0.35 A | 0.28 A | 13,110 lumen | 134 |
| 12K | 118 watt | 0.98 A | 0.43 A | 0.34 A | 15,637 lumen | 132 |
| 16K | 168 watt | 1.4 A | 0.61 A | 0.48 A | 20,720 lumen | 123 |
| 20K | 215 watt | 1.78 A | 0.78 A | 0.62 A | 26,861 lumen | 125 |

- Performance data provided at 4000K CCT, multiply lumens and LPW by 1.05 for 5000K on 0.95 for 3500K
- Specifications subject to change without notice
- Performance data obtained from photometric tests in accordance with IES LM-79-08 by a NVLAP accredited testing lab
- Consult factory for photometry







Linear T8 LED

Replacement Lamps



FEATURES

- 4': 1800 & 2200 lumen options
- High Efficiency operation
- Beam Angle: 240°
- Compatible with most T8 electronic ballasts, 120-277V and 347V
- No warm-up time, instant on
- Long Life: 50,000 hours (L70)
- No fixture rewiring required
- Glass construction for optimum optical efficiency.

- Reduces energy by up to 40%
- Full light down to -4°F
- RoHs Compliant Mercury Free
- No UV emissions
- 5 Year limited lamp warranty
- Ideal for frequent on/off switching
- Compatible with Emergency Ballasts







ORDERING GUIDE

| Ordering Information | | | | | | | | | | |
|----------------------|-------------------|--------|------|-----|------|--------|------------|---------|-----|--------------|
| Model Number | Ordering Code | Length | Base | CRI | ССТ | Lumens | Beam Angle | Pkg Qty | DLC | UPC Code |
| T8LDR2F8/835B | T8LDR2F8/835B25C | 24" | G13 | 82 | 3500 | 1250 | 240° | 25 | Υ | 768386623045 |
| T8LDR2F8/840B | T8LDR2F8/840B25C | 24" | G13 | 82 | 4000 | 1250 | 240° | 25 | Υ | 768386623052 |
| T8LDR2F8/850B | T8LDR2F8/850B25C | 24" | G13 | 82 | 5000 | 1250 | 240° | 25 | Υ | 768386623069 |
| T8LDR3F11/835 | T8LDR3F11/835A25C | 36" | G13 | 82 | 3500 | 1450 | 240° | 25 | N/A | 768386612384 |
| T8LDR3F11/840 | T8LDR3F11/840A25C | 36" | G13 | 82 | 4000 | 1450 | 240° | 25 | N/A | 768386612391 |
| T8LDR4F15/835B | T8LDR4F15/835B25C | 48" | G13 | 82 | 3500 | 2200 | 240° | 25 | Υ | 768386623106 |
| T8LDR4F15/840B | T8LDR4F15/840B25C | 48" | G13 | 82 | 4000 | 2200 | 240° | 25 | Υ | 768386623113 |
| T8LDR4F15/850B | T8LDR4F15/850B25C | 48" | G13 | 82 | 5000 | 2200 | 240° | 25 | Υ | 768386623120 |
| T8LDR4F11/835B | T8LDR4F11/835B25C | 48" | G13 | 82 | 3500 | 1750 | 240° | 25 | Υ | 768386623076 |
| T8LDR4F11/840B | T8LDR4F11/840B25C | 48" | G13 | 82 | 4000 | 1800 | 240° | 25 | Υ | 768386623083 |
| T8LDR4F11/850B | T8LDR4F11/850B25C | 48" | G13 | 82 | 5000 | 1800 | 240° | 25 | Υ | 768386623090 |
| T8LDR6U12/835B | T8LDR6U12/840B12C | U-22" | G13 | 82 | 3500 | 1700 | 240° | 12 | Υ | 76836651314 |
| T8LDR6U12/840B | T8LDR6U12/840B12C | U-22" | G13 | 82 | 4000 | 1800 | 240° | 12 | Υ | 76836651321 |

⁻ Lumens are nominal lumens with a .88 ballast factor ballast

ADDITIONAL SPECIFICATIONS

| Lamp Type: | Linear T8 + U-Bend |
|-----------------------------|---------------------|
| Bulb: | T8 |
| Base: | Medium Bi-Pin (G13) |
| Color Rendering Index (CRI) | 82 |
| Rated Life: | L70 @ 50000 hours |

| Ambient Temperature | -4°F to 113°F |
|--|----------------------------|
| Beam Angle | 240° |
| EMI/RFI | FCC Part 18 - Non-Consumer |
| Warranty (Ballast Factor 1.0 and lower) | 5 years |
| Warranty (Ballast Factor greater than 1.0) | 4 years |

PERFORMANCE DATA

| Average System Performance | | Bare Lamp Data | | Watts/Lamp Ballast Factor | | | Lumens/Lamp Ballast Factor | | |
|----------------------------|----------------|------------------|--------------------|------------------------------|--------------|---------------|-------------------------------|--------------|---------------|
| Description | Model Number | Power (Watts) | Efficacy (lm/W) | LBF (.77) | NBF (.88) | HBF (1.18) | LBF (.77) | NBF (.88) | HBF (1.18) |
| T8LED 8W 1250LM 2FT | T8LDR2F8/8xxB | 8 | 156 | 9.3 | 10.4 | 14.3 | 1125 | 1250 | 1625 |
| T8LED 15W 2200LM 4FT | T8LDR4F15/8xxB | 15.0 | 146 | 15.8 | 17.5 | 24.1 | 1980 | 2200 | 2840 |
| T8LED 11W 1800LM 4FT | T8LDR4F11/8xxB | 11.5 | 156 | 12.5 | 13.9 | 20.4 | 1620 | 1800 | 2330 |
| U-Bend 12W 1800LM 4FT | T8LDR6U12/8xxB | 12.0 | 142 | 14 | 16 | 22 | 1500 | 1800 | 2400 |

- xx represents CCT, xx=35 is 3500K, xx=40 is 4000K, xx=50 is 5000K
- Average performance per lamp based on 4000K
- Performance will vary based on lamp quantity and actual ballast used
- Bare Lamp data is based on use with a .88 ballast factor ballast

PAGE 12



^{*} DLC does not offer a certification for 3ft LED tubes

T5HO LED

Replacement Lamps



FEATURES

- High Efficiency operation
- Beam Angle: 240°
- Compatible with most F54T5HO electronic ballasts,
 - 120-277V and 347V
- No warm-up time, instant on
- Long Life: 50,000 hours (L70)
- No fixture rewiring required
- Glass construction for optimum optical efficiency.
- Shatter proof coating

- Reduces energy by up to 40%
- Full light down to -4°F
- RoHs Compliant Mercury Free
- No UV emissions
- 5 Year limited lamp warranty
- Ideal for frequent on/off switching







ORDERING GUIDE

| Ordering Information | | | | | | | | | | |
|----------------------|-------------------|--------|------|-----|------|--------|------------|---------|-----|--------------|
| Model Number | Ordering Code | Length | Base | CRI | ССТ | Lumens | Beam Angle | Pkg Qty | DLC | UPC Code |
| T5LDR4F25/840A | T5LDR4F25/840A25C | 45" | G5 | 82 | 4000 | 3300 | 240° | 25 | Υ | 768386612407 |
| T5LDR4F25/850A | T5LDR4F25/850A25C | 45" | G5 | 82 | 5000 | 3400 | 240° | 25 | Υ | 768386612414 |

⁻ Lumens are nominal lumens with a 1.00 ballast factor ballast

ADDITIONAL SPECIFICATIONS

| Lamp Type: | Linear T5HO |
|-----------------------------|-------------------|
| Bulb: | Miniature T5 |
| Base: | Bi-Pin (G5) |
| Color Rendering Index (CRI) | 82 |
| Rated Life: | L70 @ 50000 hours |

| Ambient Temperature | -4°F to 113°F |
|---|----------------------------|
| Beam Angle | 240° |
| EMI/RFI | FCC Part 18 - Non-Consumer |
| Warranty (Ballast Factor 1.0 and lower) | 5 years |

| Average System Performance | | Bare La | mp Data | Watts/Lamp | Lumens/Lamp |
|----------------------------|----------------|------------------|--------------------|-----------------------|-----------------------|
| Description | Model Number | Power (Watts) | Efficacy (lm/W) | (1.00 Ballast Factor) | (1.00 Ballast Factor) |
| T5LED 25.5W, 3400LM 4FT | T5LDR4F25/8xxA | 25.5 | 133.3 | 28.5 | 3400 |

- xx represents CCT, xx=40 is 4000K, xx=50 is 5000K
- Average performance per lamp
- Performance will vary based on lamp quantity and actual ballast used
- Bare Lamp data is based on use with a 1.00 ballast factor ballast

AC Direct T8 LED

Integral Driver



FEATURES

- Integral Driver, Bypasses ballast
- Universal input voltage 120-277VAC
- Double ended input
 - Reduces installation costs
 - Shunted or Non-shunted
- 4' 1800 & 2200 lumen options
- High Efficiency operation, up to 150 lm/W
 - Standard and Premium options
- Long Life: 50,000 hours L70
- Glass construction for optimum optical efficiency

- Full light output down to -4°F
- RoHS Compliant Mercury Free
- No UV Emissions
- 5 Year limited lamp warranty
- UL Classified 1598C for US and Canada







ORDERING GUIDE

| Standard | | | | | | | | | | |
|-----------------|--------------------|--------|--------|-----------|-----------------|------|------------|---------|-----|--------------|
| Model Number | Ordering Code | Length | Lumens | Power (W) | Efficacy (Im/W) | ССТ | Beam Angle | Pkg Qty | DLC | UPC Code |
| T8LACD2F9/835B | T8LACD2F9/835B25C | 24" | | | | 3500 | | | Υ | 768386645115 |
| T8LACD2F9/840B | T8LACD2F9/840B25C | 24" | 1050 | 9 | 117 | 4000 | 240° | 25 | Υ | 768386645122 |
| T8LACD2F9/850B | T8LACD2F9/850B25C | 24" | | | | 5000 | | | Υ | 768386645139 |
| T8LACD4F14/835B | T8LACD4F14/835B25C | 48" | | | | 3500 | | | Υ | 768386623137 |
| T8LACD4F14/840B | T8LACD4F14/840B25C | 48" | 1800 | 14 | 129 | 4000 | 240° | 25 | Υ | 768386623144 |
| T8LACD4F14/850B | T8LACD4F14/850B25C | 48" | | | | 5000 | | | Υ | 768386623151 |
| T8LACD4F17/835B | T8LACD4F17/835B25C | 48" | | | | 3500 | | | Υ | 768386623168 |
| T8LACD4F17/840B | T8LACD4F17/840B25C | 48" | 2200 | 17 | 129 | 4000 | 240° | 25 | Υ | 768386623175 |
| T8LACD4F17/850B | T8LACD4F17/850B25C | 48" | 1 | | | 5000 | | | Υ | 768386623182 |

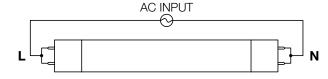
| Premium | | | | | | | | | | |
|-----------------|--------------------|--------|--------|-----------|-----------------|------|------------|---------|-----|--------------|
| Model Number | Ordering Code | Length | Lumens | Power (W) | Efficacy (lm/W) | ССТ | Beam Angle | Pkg Qty | DLC | UPC Code |
| T8LACD4F12/835B | T8LACD4F12/835B25C | 48" | | | | 3500 | | | Υ | 768386645054 |
| T8LACD4F12/840B | T8LACD4F12/840B25C | 48" | 1800 | 12 | 150 | 4000 | 240° | 25 | Υ | 768386645061 |
| T8LACD4F12/850B | T8LACD4F12/850B25C | 48" | | | | 5000 | | | Υ | 768386645078 |
| T8LACD4F15/835B | T8LACD4F15/835B25C | 48" | | | | 3500 | | | Υ | 768386645085 |
| T8LACD4F15/840B | T8LACD4F15/840B25C | 48" | 2200 | 15 | 147 | 4000 | 240° | 25 | Υ | 768386645092 |
| T8LACD4F15/850B | T8LACD4F15/850B25C | 48" | | | | 5000 | | | Υ | 768386645108 |

ADDITIONAL SPECIFICATIONS

| Lamp Type: | Linear T8 |
|-----------------------------|---------------------|
| Base: | Medium Bi-Pin (G13) |
| Color Rendering Index (CRI) | 82 |
| Rated Life: | L70 @ 50000 hours |

| Ambient Temperature | -4°F to 113°F |
|---------------------|----------------------------|
| Beam Angle | 240° |
| EMI/RFI | FCC Part 18 - Non-Consumer |
| Warranty | 5 years |

WIRING DIAGRAM



OPERATING NOTES:

- * Input voltage is wired so that one lamp holder is connected to Neutral and the other to Line.
- * Shunted or Non-Shunted lamp holders may be used.







STxx-865-yS

Description: LED Sign Module

- Simple and easy installation
- ➤ Long life with high efficacy
- ➤ Integrated heat sink for cool operation
- Class 2 rating simplifies wiring



| | | Nominal Measurements | | | | | | | | |
|------------------|--------|----------------------|-------------|--------------------|-----------|------|--|--|--|--|
| Ordering Code | Length | Configuration | Voltage (V) | Initial Lumens (1) | Power (W) | Lm/W | | | | |
| ST24-865-SS004C | 24" | Single Sided | 24 | 680 | 6 | 113 | | | | |
| ST24-865-DS004C | 24" | Double Sided | 24 | 1,360 | 12 | 113 | | | | |
| ST36-865-SS004C | 36" | Single Sided | 24 | 1,020 | 9 | 113 | | | | |
| ST36-865-DS004C | 36" | Double Sided | 24 | 2,040 | 18 | 113 | | | | |
| ST48-865-SS004C | 48" | Single Sided | 24 | 1,360 | 12 | 113 | | | | |
| ST48-865-DS004C | 48" | Double Sided | 24 | 2,720 | 24 | 113 | | | | |
| ST60-865-SS004C | 60" | Single Sided | 24 | 1700 | 15 | 113 | | | | |
| ST60-865-DS004C | 60" | Double Sided | 24 | 3400 | 30 | 113 | | | | |
| ST72-865-SS004C | 72" | Single Sided | 24 | 2,040 | 18 | 113 | | | | |
| ST72-865-DS004C | 72" | Double Sided | 24 | 4,080 | 36 | 113 | | | | |
| ST84-865-SS004C | 84" | Single Sided | 24 | 2,380 | 21 | 113 | | | | |
| ST84-865-DS004C | 84" | Double Sided | 24 | 4,760 | 42 | 113 | | | | |
| ST96-865-SS004C | 96" | Single Sided | 24 | 2,720 | 24 | 113 | | | | |
| ST96-865-DS004C | 96" | Double Sided | 24 | 5,440 | 48 | 113 | | | | |
| ST108-865-SS004C | 108" | Single Sided | 24 | 3,060 | 27 | 113 | | | | |
| ST108-865-DS004C | 108" | Double Sided | 24 | 6,120 | 54 | 113 | | | | |
| ST120-865-SS004C | 120" | Single Sided | 24 | 3,400 30 | | 113 | | | | |
| ST120-865-DS004C | 120" | Double Sided | 24 | 6,800 | 60 | 113 | | | | |

(1) MID Flux Bin Values are shown for CCT of 6500K. Tolerance of ±6.5% at 25°C

General Performance Specifications:

Lumen Maintenance: L70 > 140K Hrs @ 25°C
 Lumen Maintenance: L85 > 60K Hrs @ 25°C
 Color Consistency: < 4 SDCM (6500K)

Application:

Min. Ambient Operating Temp.: -22°F, -30°C
 Max. Ambient Operating Temp.: 140°F, 60°C

Warranty:

• 5 Year Limited Warranty

Note:

Lumen maintenance based on LM80 testing and TM-21 calculation projections

Recommended Drivers:

| Driver Part Number | Description |
|--------------------|-----------------|
| L24V100UNV-A | White Can |
| D24V100UNV-A | Black Can |
| L24V100UNV-Q | IP67 Sealed Can |

Regulatory:

- UL 8750 UL 879 UL 879A
- CSA 250.13
 CSA 207















LRx4T8 - Low Power 4' Tube & Driver Kit

MECHANICAL

- Retrofits 4ft fluorescent luminaires to LED
- Replaces existing fluorescent lamps and ballasts
- Uses existing lamp holders
- No redesign or revised layout needed

- 240° Beam distribution for even illumination
- Three CCT options with CRI of 82

KIT INCLUDES

- LED T8 Modules
- LED EVERLINE Driver Pre-Tuned if applicable
- Wiring, connectors, installation instructions

ELECTRICAL

- Universal Input Voltage: 120-277V
- Equipped with 0-10V dimmable LED driver to 1%
- LED System efficacies exceed 120 LPW

CERTIFICATIONS

- UL Classified UL 1598C (US & Canada)
- FCC Title 47 CFR, Part 15, Class A
- · RoHS Compliant, contains no lead or mercury

WARRANTY

• Six (6) year limited warranty

ORDERING GUIDE

EXAMPLE: LR34T8-66L840-10DU

| | | - | | | | - | | |
|-------------------|-------------------------|---|--------------------|----------------------|-------------------|---|----------------------------|-----------------------|
| Series | Lamp & Length | | Nominal Lumens | CRI (nom.) | Color Temp. | | Dimming | Voltage |
| LR = LED Retrofit | 14T8 = 1L 4ft T8 | - | 18L = 1,800 | 8 = 82 (nom.) | 35 = 3500K | - | 10D = 0-10V Dimming | U = 120-277VAC |
| | 24T8 = 2L 4ft T8 | | 36L = 3,600 | | 40 = 4000K | | | |
| | 34T8 = 3L 4ft T8 | | 54L = 5,400 | | 50 = 5000K | | | |
| | 44T8 = 4L 4ft T8 | | 72L = 7,200 | | | | | |

ORDERING NOTES

1. Orders are shipped in bundled quantities of 10 drivers and the corresponding number of tubes

Listed Products

| | Model Number (2-Tube) | Model Number (3-Tube) | Model Number (4-Tube) |
|----------|-----------------------|-----------------------|-----------------------|
| | LR24T8-36L835-10DU | LR34T8-54L835-10DU | LR44T8-72L835-10DU |
| 120-277V | LR24T8-36L840-10DU | LR34T8-54L840-10DU | LR44T8-72L840-10DU |
| | LR24T8-36L850-10DU | LR34T8-54L850-10DU | LR44T8-72L850-10DU |

| PERFOR | PERFORMANCE DATA | | | | | | | | | | | | |
|--------|------------------|-------------|---------------|--------|--------|---------------------|-----|---------------------|-----|--|--|--|--|
| | Lumen | Input Power | Input Current | | | System Output | | Reference Luminaire | | | | | |
| | Package | (watts) | @ 120V | @ 277V | @ 347V | Delivered Lm (nom.) | LPW | Delivered Lm (nom.) | LPW | | | | |
| LR14T8 | 18L | 15 | 0.13 | 0.05 | 0.05 | 1800 | 120 | N/A | - | | | | |
| LR24T8 | 36L | 28 | 0.24 | 0.10 | 0.10 | 3600 | 129 | 3222 | 114 | | | | |
| LR34T8 | 54L | 43 | 0.36 | 0.16 | 0.16 | 5400 | 126 | 4952 | 115 | | | | |
| LR44T8 | 72L | 58 | 0.49 | 0.21 | 0.21 | 7200 | 124 | 6743 | 116 | | | | |

- Performance data provided at 3500K.
- · Reference Luminaire testing conducted by NVLAP accredited lab in accordance with IESNA LM-79.
- Consult factory for photometry.
- Application and performance information is subject to change without notification.

| OPERATING DATA | |
|-----------------------|---------------------|
| L70 Lumen Maintenance | >60,000 hrs at 40°C |
| Min. Starting Temp: | 0°F |
| Sound Rating: | Class A |
| Power Factor: | >.98 |
| THD: | <20% |

*Projected per IESNA TM-21. Data extrapolated based on 10,000 hours of LED testing per IESNA LM-80.

| LED Driver | |
|------------|-------------------|
| Lm Package | LED Driver -UNV |
| LR14T8-18L | D700C30UNVTWCP42C |
| LR24T8-36L | D700C30UNVTWCP83C |
| LR34T8-54L | D10CC55UNVTZCP85C |
| LR44T8-72L | D15CC55UNVTWCP80C |

• Where "xx" = 35 (3500K), 40 (4000K), or 50 (5000K) • Where "yyy" = UNV (120-277VAC) or 347 (347VAC)

Applications

- All LED Tubes must be connected for proper operation.
- Not for use with phase cut dimmers.
 Suitable for 2'x4' with minimum 3" depth, may include a lens, and may be listed for elevated ambients of up to 40°C max in Type Non-IC or up to 25°C max in Type IC
- Suitable for 4' or 8' strip light, wraparound, and vapor tight (see installation instructions for dimensions and max ambient)

| LED Tube | |
|----------|---------------|
| ССТ | LED T8 Tube |
| 3500K | LRT8M22L/835A |
| 4000K | LRT8M22L/840A |
| 5000K | LRT8M22L/850A |

PAGE 16



LRK

2' LED Retrofit Kit



MECHANICAL

- · Retrofits 2ft fluorescent luminaires to LED
- Fast and easy to install
- · No redesign or revised layout needed

OPTICAL

- Diffuser provides broad, even light distribution
- Three CCT options with CRI of 82
- Binning maintains color accuracy and consistency

KIT INCLUDES

- LRK22 includes (2) and LRK32 includes (3) EVERLINE® LED lensed modules/light bars
- LED EVERLINE driver (0-10V dimming)
- Wiring, mounting hardware, installation instructions

ELECTRICAL

- Available as 120-277VAC or 347VAC
- Equipped with 0-10V dimmable LED driver to 1%
- LED system efficacies exceeding 100 LPW

CERTIFICATIONS

- UL Classified UL1598C (US & Canada)
- FCC Title 47 CFR, Part 15, Class A
- RoHS Compliant, contains no lead or mercury
- Select models (identified below) are DesignLights Consortium[™] qualified. Consult www.designlights.org/QPL for details.

WARRANTY

• Seven (7) year limited warranty

ORDERING GUIDE

EXAMPLE: LRK32-30L840-U³

| | | - | | | | - | |
|-------------------------------|----------------------|---|---------------------------------|----------------------|-------------------|---|-----------------------|
| Series | Lamp & Length | | Nominal Lumens ¹ | CRI (nom.) | Color Temp. | | Voltage ² |
| LRK = LED Linear Retrofit Kit | 22 = 2L / 2ft | - | 23L = 2,300 | 8 = 82 (nom.) | 35 = 3500K | - | U = 120-277VAC |
| | 32 = 3L / 2ft | | 30L = 3,000 | | 40 = 4000K | | 347 = 347VAC |
| | | | 45L ⁴ = 4,500 | | 50 = 5000K | | |

ORDERING NOTES

- 1. 23L & 30L lumen packages available for 2-lamp kits. 30L & 45L lumen packages available for 3-lamp kits.
- 2, 23L is not available in 347V
- 3. Append catalog number with 00l for single kit package (2 or 3 LED Lensed Modules & 1 LED Driver) or 10C for 10 kit package (LRK22 only) or 06C for 6 kit package (LRK32 only).
- 4. LRK-32-45L8xx-U rated at max 35°C.

DesignLights Consortium™ QPL Listed Products

| Model Number | |
|----------------|--|
| LRK22-23L835-U | |
| LRK22-23L840-U | |
| LRK22-23L850-U | |
| LRK32-30L835-U | |
| LRK32-30L840-U | |

Model Number LRK32-30L850-U LRK32-30L835-347 LRK32-30L840-347 LRK32-30L850-347



| PERFOR | PERFORMANCE DATA | | | | | | | | | | |
|--------|------------------|-------------|--------|------------|--------|---------------------|-----|--|--|--|--|
| | Lumen | Input Power | In | put Currer | nt | LRK System | | | | | |
| | Package | (watts) | @ 120V | @ 277V | @ 347V | Delivered Lm (nom.) | LPW | | | | |
| LRK22 | 23L | 21.8 | 0.18 A | 0.09 A | N/A | 2674 | 123 | | | | |
| LRK22 | 30L | 31.6 | 0.26 A | 0.12 A | 0.09 A | 3459 | 109 | | | | |
| LRK32 | 30L | 30.3 | 0.25 A | 0.11 A | 0.09 A | 3754 | 124 | | | | |
| LRK32 | 45L | 52.9 | 0.44 A | 0.20 A | 0.15 A | 5568 | 105 | | | | |

- \bullet Performance data provided at 4000K, multiply lumens and LPW by 1.04 for 5000K or 0.97 for 3500K.
- Reference Luminaire testing conducted by NVLAP accredited lab in accordance with IESNA LM-79.
- Consult factory for photometry.
- Application and performance information is subject to change without notification.

| OPERATING DATA | |
|-------------------------|------------------------------------|
| L85 Lumen Maintenance: | >60,000 hrs. at 40°C |
| L70 Lumen Maintenance:* | >140,000 hrs. at 40°C |
| Min. Starting Temp.: | -30°C (-22°F) |
| Sound Rating: | Class A |
| EMI/RFI: | FCC Title 47 CFR, Part 15, Class A |
| Power Factor: | >0.98 |
| THD: | <20% |
| Input Power Frequency | 50/60 Hz |
| | |

^{*}Projected per IESNA TM-21. Data extrapolated based on 10,000 hours of LED testing per IESNA LM-80.

| COMPONENTS | | | | | | | | |
|------------|-------------------|----------------------|--|--|--|--|--|--|
| Lm Package | LED Driver | LED Replacement Lamp | | | | | | |
| 23L | D700C30UNVTZCP75C | LRL12-15L8xx-525C | | | | | | |
| 30L | D10CC55yyyTZCP72C | LRL12-15L8xx-525C | | | | | | |
| 45L | D15CC55yyyTZCP86C | LRL12-15L8xx-525PRM | | | | | | |

• Where "xx" = 35 (3500K), 40 (4000K), or 50 (5000K) • Where "yyy" = UNV (120-277VAC) or 347 (347VAC)

Applications

- All LED Lensed Modules must be connected for proper operation.
- The standard base model version of this module without Conformal Coating is designed for indoor fixtures in dry applications. Damage caused by corrosion due to moisture, condensation and other harmful elements, is not covered by the warranty.
- Not for use with phase cut dimmers.
- Suitable for 2"x2" with minimum 3" height, may be type IC, may include a lens, and may be listed for elevated ambients of up to 40°C max.
- Suitable for 2' or 4' strip light. wraparound, and vapor tight (see installation instructions for dimensions and max ambient).



LRK 4' LE

4' LED Retrofit Kit

MECHANICAL

- Retrofits 4ft fluorescent luminaires to LED
- Fast and easy to install
- No redesign or revised layout needed

OPTICAL

- Diffuser provides broad, even light distribution
- Multiple CCT options with CRI of 82
- Binning maintains color accuracy and consistency

KIT INCLUDES

- LRK24 includes (2) and LRK34 includes (3) EVERLINE® LED lensed modules/light bars
- LED EVERLINE driver (0-10V dimming)
- Wiring, mounting hardware, installation instructions

ELECTRICAL

- Available as 120-277VAC or 347VAC
- Equipped with 0-10V dimmable LED driver to 1%
- LED system efficacies exceeding 120 LPW

CERTIFICATIONS

- UL Classified UL1598C (US & Canada)
- FCC Title 47 CFR, Part 15, Class A
- · RoHS Compliant, contains no lead or mercury
- Select models (identified below) are DesignLights Consortium® qualified. Consult www.designlights.org/QPL for details.

WARRANTY

• Seven (7) year limited warranty

ORDERING GUIDE

EXAMPLE: LRK34-30L840-U1

| | | - | | | | - | |
|-------------------------------|----------------------|---|-----------------------------|----------------------|--------------------------|---|-----------------------|
| Series | Lamp & Length | | Nominal Lumens ² | CRI (nom.) | Color Temp. ³ | | Voltage ² |
| LRK = LED Linear Retrofit Kit | 24 = 2L / 4ft | - | 40L = 4,000 | 8 = 82 (nom.) | 30 = 3000K | - | U = 120-277VAC |
| | 34 = 3L / 4ft | | 43L = 4,300 | | 35 = 3500K | | 347 = 347VAC |
| | | | 46L = 4,600 | | 40 = 4000K | | |
| | | | 60L = 6,000 | | 50 = 5000K | | |

ORDERING NOTES

- 1. Append catalog number with 001 for single kit package (2 or 3 LED Lensed Modules & 1 LED Driver) or 10C for 10 kit package (LRK24 only) or 06C for 6 kit package (LRK34 only).
- 2. 40L and 43L lumen packages available for 2-lamp kits only. 40L and 43L are not available in 347V.
- 3. Only LRK24 in 46L and 60L available in 3000K

DesignLights Consortium™ QPL Listed Products

| Model Number |
|----------------|
| LRK24-40L835-U |
| LRK24-40L840-U |
| LRK24-40L850-U |
| LRK24-43L835-U |
| LRK24-43L840-U |

| Model Number |
|----------------|
| LRK24-43L850-U |
| LRK24-46L835-U |
| LRK24-46L840-U |
| LRK24-46L850-U |
| LRK24-60L835-U |

| Model Number |
|----------------|
| LRK24-60L840-U |
| LRK24-60L850-U |
| LRK34-46L835-U |
| LRK34-46L840-U |
| LRK34-46L850-U |

| Model Number |
|------------------|
| LRK34-60L835-U |
| LRK34-60L840-U |
| LRK34-60L850-U |
| LRK24-46L835-347 |
| LRK24-46L840-347 |
| |

| Model Number |
|------------------|
| LRK24-46L850-347 |
| LRK24-60L835-347 |
| LRK24-60L840-347 |
| LRK24-60L850-347 |
| LRK34-46L835-347 |

| Model Number |
|------------------|
| LRK34-46L840-347 |
| LRK34-46L850-347 |
| LRK34-60L835-347 |
| LRK34-60L840-347 |
| LRK34-60L850-347 |



| PERFORMANCE DATA | | | | | | | | | | |
|------------------|---------|-------------|---------------|--------|--------|---------------------|-----|--|--|--|
| | Lumen | Input Power | Input Current | | | LRK System | | | | |
| | Package | (watts) | @ 120V | @ 277V | @ 347V | Delivered Lm (nom.) | LPW | | | |
| LRK24 | 40L | 29.7 | 0.25A | 0.11A | N/A | 3992 | 134 | | | |
| LRK24 | 43L | 36.4 | 0.31A | 0.13A | N/A | 4435 | 122 | | | |
| LRK24 | 46L | 41.6 | 0.35 A | 0.16 A | 0.12 A | 5996 | 144 | | | |
| LRK24 | 60L | 61.6 | 0.51 A | 0.22 A | 0.18 A | 7960 | 129 | | | |
| LRK34 | 46L | 40.7 | 0.34 A | 0.15 A | 0.12 A | 6027 | 148 | | | |
| LRK34 | 60L | 59.8 | 0.50 A | 0.22 A | 0.17 A | 8060 | 135 | | | |

- Performance data provided at 4000K, multiply lumens and LPW by 1.04 for 5000K or 0.97 for 3500K or 0.95 for 3000K.
- Reference Luminaire testing conducted by NVLAP accredited lab in accordance with IESNA LM-79.
- Consult factory for photometry.
- Application and performance information is subject to change without notification.

| OPERATING DATA | |
|-------------------------|------------------------------------|
| L85 Lumen Maintenance: | >60,000 hrs. at 40°C |
| L70 Lumen Maintenance:* | >140,000 hrs. at 40°C |
| Min. Starting Temp.: | -30°C (-22°F) |
| Sound Rating: | Class A |
| EMI/RFI: | FCC Title 47 CFR, Part 15, Class A |
| Power Factor: | >0.98 |
| THD: | <20% |
| Input Power Frequency | 50/60 Hz |
| | |

*Projected per IESNA TM-21. Data extrapolated based on 10,000 hours of LED testing per IESNA LM-80.

| COMPONENTS | | | | | | |
|------------|-------------------|----------------------|--|--|--|--|
| Lm Package | LED Driver | LED Replacement Lamp | | | | |
| 40L | D10CC55UNVTZCP71C | LRL14-30L8xx-750C | | | | |
| 43L | D10CC55UNVTZCP87C | LRL14-30L8xx-750C | | | | |
| 46L | D10CC55yyyTZ-C10C | LRL14-30L8xx-750C | | | | |
| 60L | D15CC55yyyTZ-C10C | LRL14-30L8xx-750C | | | | |

• Where "xx" = 35 (3500K), 40 (4000K), or 50 (5000K) • Where "yyy" = UNV (120-277VAC) or 347 (347VAC)

Applications

- All LED Lensed Modules must be connected for proper operation.
- The standard base model version of this module without Conformal Coating is designed for indoor fixtures in dry applications. Damage caused by corrosion due to moisture, condensation and other harmful elements, is not covered by the warranty.
- Not for use with phase cut dimmers.
- Suitable for 2'x4' with minimum 3" depth, may include a lens, and may be listed for elevated ambients of up to 40°C max in Type Non-IC or up to 25°C max in Type IC.
 Suitable for 4' or 8' strip light, wraparound, and vapor tight (see installation instructions for
- Suitable for 4" or 8" strip light, wraparound, and vapor tight (see installation instructions for dimensions and max ambient).





High Bay LRK

4' LED Retrofit Kit



MECHANICAL

- Retrofits 4ft high bay fluorescent luminaires to LED
- Fast and easy to install
- No redesign or revised layout needed

OPTICAL

- Three CCT options with CRI of 82
- Binning maintains color accuracy and consistency

KIT INCLUDES

- (4) EVERLINE® LED modules/light bars
- LED EVERLINE driver (0-10V dimming)
- Wiring, mounting hardware, installation instructions

ELECTRICAL

- Available as 120-277VAC
- Equipped with 0-10V dimmable LED driver to 1%
- LED system efficacies exceeding 140 LPW

CERTIFICATIONS

- UL Classified UL1598C (US & Canada)
- FCC Title 47 CFR, Part 15, Class A
- RoHS Compliant, contains no lead or mercury
- DesignLights Consortium® Premium qualified. Consult www.designlights.org/QPL for details.

WARRANTY

• Seven (7) year limited warranty

ORDERING GUIDE

EXAMPLE: LRK44-14K840-U1

| | | - | | | | - | |
|-------------------------------|----------------------|---|---------------------|----------------------|-------------------|---|-----------------------|
| Series | Lamp & Length | | Nominal Lumens | CRI (nom.) | Color Temp. | | Voltage |
| LRK = LED Linear Retrofit Kit | 44 = 4L / 4ft | - | 14K = 14,000 | 8 = 82 (nom.) | 35 = 3500K | - | U = 120-277VAC |
| | | | | | 40 = 4000K | | |
| | | | | | 50 = 5000K | | |

ORDERING NOTES

1. Append catalog number with 10C for 10 kit package. Must order in multiples of 10.

DesignLights Consortium® QPL Listed Products

| Model Number |
|----------------|
| LRK44-14K835-U |
| LRK44-14K840-U |
| LRK44-14K850-U |
| |
| |



| PERFORMANCE DATA | | | | | | | | | | |
|------------------|---------|---------------------|---------------|--------|--------|---------------------|-----|--|--|--|
| | Lumen | Input Power (watts) | Input Current | | | LRK System | | | | |
| | Package | | @ 120V | @ 277V | @ 347V | Delivered Lm (nom.) | LPW | | | |
| LRK44 | 14K | 89.7 | 0.75.A | 0.32 | N/A | 12875 | 144 | | | |

- \bullet Performance data provided at 4000K, multiply lumens and LPW by 1.04 for 5000K or 0.97 for 3500K.
- Reference Luminaire testing conducted by NVLAP accredited lab in accordance with IESNA LM-79.
- Consult factory for photometry.
- Application and performance information is subject to change without notification.

| OPERATING DATA | |
|-------------------------|------------------------------------|
| L85 Lumen Maintenance: | >60,000 hrs. at 40°C |
| L70 Lumen Maintenance:* | >140,000 hrs. at 40°C |
| Min. Starting Temp.: | -30°C (-22°F) |
| Sound Rating: | Class A |
| EMI/RFI: | FCC Title 47 CFR, Part 15, Class A |
| Power Factor: | >0.98 |
| THD: | <20% |
| Input Power Frequency | 50/60 Hz |
| | |

^{*}Projected per IESNA TM-21. Data extrapolated based on 10,000 hours of LED testing per IESNA LM-80.

| COMPONENTS | | | | | | |
|------------|-------------------|------------------------|--|--|--|--|
| Lm Package | LED Driver | LED Replacement Lamp | | | | |
| 14K | D23CC90UNVT-F20KC | LRL14-30L8xx-750LL010C | | | | |

• Where "xx" = 35 (3500K), 40 (4000K), or 50 (5000K)

Applications

- All LED Modules must be connected for proper operation.
- The standard base model version of this module without Conformal Coating is designed for indoor fixtures in dry applications. Damage caused by corrosion due to moisture, condensation and other harmful elements, is not covered by the warranty.
- Not for use with phase cut dimmers
- Suitable for non-lensed 2'x4', suspended by 12" or more, 40°C max ambient, damp location.



LRA





ORDERING GUIDE

MECHANICAL

- Retrofits 4ft or 8ft fluorescent strip fixtures to LED
- · Fast and easy to install
- No redesign or revised layout needed
- Universal mounting compatible with most strip manufacturers
- Panel is 23 gauge painted steel

OPTICAL

- Diffuser provides broad, even light distribution
- Three CCT options with CRI of 82
- Binning maintains color accuracy and consistency

ELECTRICAL

- Available as 120-277VAC
- Equipped with 0-10V dimmable LED driver to 1%
- LED system efficacies exceeding 115 LPW

EXAMPLE: LRA28-60L835-U

ASSEMBLY INCLUDES

- (1) or (2) EVERLINE® LED lensed modules pre-mounted
- (1) LED EVERLINE driver (0-10V dimming) pre-mounted
- (1) or (2) 4' strip fixture panels
- Wiring, mounting hardware, installation instructions

CERTIFICATIONS

- UL Classified UL1598C (US & Canada)
- Suitable for Dry or Damp locations
- FCC Title 47 CFR, Part 15, Class A
- RoHS Compliant, contains no lead or mercury
- Select models are DesignLights Consortium® qualified. Consult http://www.designlights.org/QPL for details.

WARRANTY

• Seven (7) year limited warranty

| | | - | | | | - | |
|------------------------------------|----------------------|---|--------------------|---------------|-------------------|---|-----------------------|
| Series | Lamp & Length | | Nominal Lumens | CRI (nom.) | Color Temp. | | Voltage |
| LRA = LED Linear Retrofit Assembly | 14 = 1L / 4ft | - | 23L = 2,300 | 8 = 82 (nom.) | 35 = 3500K | - | U = 120-277VAC |
| | 28 = 2L / 8ft | | 30L = 3,000 | | 40 = 4000K | | |
| | | | 40L = 4,000 | | 50 = 5000K | | |
| | | | 42L = 4,200 | | | | |
| | | | 46L = 4,600 | | | | |

ORDERING NOTES

- 1. 23L, 30L & 42L lumen packages are only available in 4' assemblies. 40L, 46L & 84L lumen packages are only available in 8' assemblies.
- 2. Append catalog number with 00C for carton kit package (1 or 2 LED Lensed Modules & 1 LED Driver) mounted on one or two 4' panels.

DesignLights Consortium™ QPL Listed Products

| Model Number |
|----------------|
| LRA14-23L835-U |
| LRA14-23L840-U |
| LRA14-23L850-U |
| LRA14-30L835-U |

| Model Number |
|----------------|
| LRA14-30L840-U |
| LRA14-30L850-U |
| LRA14-42L835-U |
| LRA14-42L840-U |

| Model Number | |
|----------------|--|
| LRA14-42L850-U | |
| LRA14-60L835-U | |
| LRA14-60L840-U | |
| LRA14-60L850-U | |

| Model Number |
|----------------|
| LRA28-46L835-U |
| LRA28-46L840-U |
| LRA28-60L835-U |
| LRA28-60L840-U |

60L = 6,000 84L = 8,400



| Model Number |
|----------------|
| LRA28-40L835-U |
| LRA28-40L840-U |
| LRA28-40L850-U |
| LRA28-46L850-U |



| PERFORMANCE DATA | | | | | | | |
|------------------|------------------|------------------|---------|---------|---------------------|-----|--|
| | Input | | Input (| Current | LRA System | | |
| | Lumen Package | Power (watts) | @ 120V | @ 277V | Delivered Lm (nom.) | LPW | |
| LRA14 | 23L | 20.7 | 0.17A | 0.08A | 2388 | 115 | |
| LRA14 | 30L | 26.7 | 0.23A | 0.10A | 2979 | 112 | |
| LRA14 | 42L | 37.3 | 0.31A | 0.14A | 4671 | 125 | |
| LRA14 | 60L | 58.3 | 0.49A | 0.21A | 6702 | 115 | |
| LRA28 | 40L | 29.7 | 0.25A | 0.11A | 3992 | 134 | |
| LRA28 | 46L | 42.8 | 0.36A | 0.16A | 5128 | 120 | |
| LRA28 | 60L | 61.7 | 0.51 A | 0.22 A | 7096 | 115 | |
| LBA28 | 841 | 67.8 | 0.57A | 0.25A | 8331 | 123 | |

- Performance data provided at 4000K, multiply lumens and LPW by 1.02 for 5000K, or 0.97 for 3500K.
- Reference Luminaire testing conducted by NVLAP accredited lab in accordance with IESNA LM-79.
- Consult factory for photometry.
- Application and performance information is subject to change without notification.

| OPERATING DATA | |
|-------------------------|------------------------------------|
| L85 Lumen Maintenance: | >60,000 hrs. at 40°C |
| L70 Lumen Maintenance:* | >140,000 hrs. at 40°C |
| Min. Starting Temp.: | -30°C (-22°F) |
| Sound Rating: | Class A |
| EMI/RFI: | FCC Title 47 CFR, Part 15, Class A |
| Power Factor: | >0.98 |
| THD: | <20% |
| Input Power Frequency | 50/60 Hz |

| *Projected per IESNA TM-21. Data extrapolated based on 10,000 hours of LED testing per IESNA LM-8 | 30 |
|---|----|
|---|----|

| COMPONENTS | | |
|----------------|-------------------|---------------------------|
| LRA | LED Driver | LED Replacement Lamp |
| LRA14-23L8xx-U | D700C30UNVTZCP72C | LRL14-30L8xx-750CC00I |
| LRA14-30L8xx-U | D700C30UNVTZCP93C | LRL14-30L8xx-750CC00I |
| LRA14-42L8xx-U | D10CC55UNVTZCP86C | LRL14-30L8xx-1050PRMCC00I |
| LRA14-60L8xx-U | D15CC55UNVTWCP90C | LRL14-30L8xx-1050PRMCC00I |
| LRA28-40L8xx-U | D10CC55UNVTZCP71C | LRL14-30L8xx-750CC00I |
| LRA28-46L8xx-U | D10CC55UNVTZ-C10C | LRL14-30L8xx-750CC00I |
| LRA28-60L8xx-U | D15CC55UNVTZ-C10C | LRL14-30L8xx-750CC00I |
| LRA28-84L8xx-U | D21CC80UNVTZDP79C | LRL14-30L8xx-1050PRMCC00I |

^{*} Where "xx" = 35 (3500K), 40 (4000K), or 50 (5000K)

Applications

- All LED Lensed Modules must be connected for proper operation.
- · Not for use with phase cut dimmers.

• Suitable for 4' or 8' strip light: non-lensed, minimum wiring compartment dimensions 2.5" depth and 2" width.



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UNIVERSAL LIGHTING TECHNOLOGIES, INC. 51 Century Blvd., Suite 230 Nashville, TN 37214-3683

GENERAL INFO: (615) 316-5100

For Technical Engineering Services (TES), application support and warranty information, call **1-800-225-5278**

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