



# LEDVANCE LAMPS

## DUALescent™ DULUX® L LED TT5

### UL TYPE (A+B) LAMPS

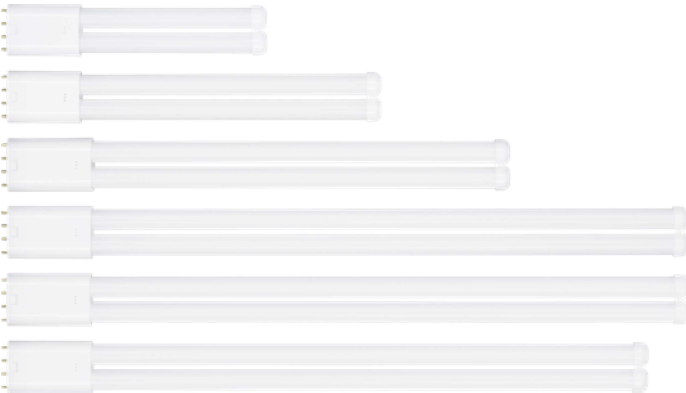
LEDVANCE LAMP SPECIFICATION DATA

| Catalog #   | Comments |
|-------------|----------|
| Project     |          |
| Type        |          |
| Prepared by |          |

APPLICATION

LED DULUX lamps are an ideal solution to replace traditional fluorescent in a wide range of general lighting applications. DUALescent provides flexibility for the distributor or contractor with one lamp to satisfy either operation with a ballast or line voltage, for greater job site flexibility. The ballast compatible feature provides simple plug-n-play installation whereas the ballast free feature eliminates incompatibility and ballast maintenance when lamps are directly connected to line voltage. These lamps can be integrated into a traditional florescent form factor providing much longer life and much more energy savings compared to its fluorescent counterparts.

When installing these lamps in UL Type B mode, the UL rating of the existing fixture is not voided (even when it is electrically modified) since our DUALescent TT5 lamp is UL Classified (as a luminaire conversion retrofit kit) under UL standard 1598C. UL 1598C is the standard covering LED retrofits intended for an existing UL rated fixture. Since the user is retrofitting with a UL1598C classified LED kit, the installer must follow the installation instructions included with the lamps for the modified fixture to retain its UL rating.



BENEFITS & FEATURES

- Replace traditional fluorescent lamps of 18W, 24W, 36W, 40W and 55W
- Available Length/Wattage: 9"/8W, 12.9"/10W, 16.6"/16W, 22.4"/17W, 22.5"/22W and 21.5"/24W
- CCT color temperature: 3000K/3500K/4100K/5000K
- CRI > 80
- Beam angle: 160° with frosted glass optics with shatter resistant PET coating
- No warm-up time, instant-on with full light output and stable lamp-to-lamp color
- No UV emission
- Suitable for dry and damp locations
- Can be used in enclosed luminaire (with diffuser or lens only, not gasketed)



## ORDERING GUIDE

| LED            | XX                                                                                               | TT5DL               | FG                 | D              | 8      | XX                                                   | AB                 |
|----------------|--------------------------------------------------------------------------------------------------|---------------------|--------------------|----------------|--------|------------------------------------------------------|--------------------|
| LED            | WATTAGE                                                                                          | LAMP TYPE           | COLOR/FINISH       | DIMMING        | CRI    | COLOR TEMP                                           | OPERATION          |
| LED = LED Lamp | 8 = 8 Watts<br>10 = 10 Watts<br>16 = 16 Watts<br>17 = 17 Watts<br>22 = 22 Watts<br>24 = 24 Watts | TT5DL = TT5 DULUX L | FG = Frosted Glass | DIM = Dimmable | 8 = 82 | 30 = 3000K<br>35 = 3500K<br>41 = 4100K<br>50 = 5000K | AB = UL Type (A+B) |

## ORDERING INFORMATION

| ITEM # | ORDERING ABBREVIATION | LENGTH | REPLACES      | LAMP POWER (W) | INPUT VOLTAGE (V)   | LIFE (L70) HOURS | CCT  | TYPICAL LUMEN (LM) | CRI | DIMMABLE | POWER FACTOR | BULB FINISH            | DLC  |
|--------|-----------------------|--------|---------------|----------------|---------------------|------------------|------|--------------------|-----|----------|--------------|------------------------|------|
| 42213  | LED8TT5DLFGP830AB     | 9"     | FT18DL        | 8              | 120-277V or Ballast | 50,000           | 3000 | 900                | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42214  | LED8TT5DLFGP835AB     | 9"     | FT18DL        | 8              | 120-277V or Ballast | 50,000           | 3500 | 900                | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42215  | LED8TT5DLFGP841AB     | 9"     | FT18DL        | 8              | 120-277V or Ballast | 50,000           | 4100 | 1000               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42216  | LED8TT5DLFGP850AB     | 9"     | FT18DL        | 8              | 120-277V or Ballast | 50,000           | 5000 | 1000               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42217  | LED10TT5DLFGP830AB    | 12.9"  | FT24DL        | 10             | 120-277V or Ballast | 50,000           | 3000 | 1200               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42218  | LED10TT5DLFGP835AB    | 12.9"  | FT24DL        | 10             | 120-277V or Ballast | 50,000           | 3500 | 1200               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42219  | LED10TT5DLFGP841AB    | 12.9"  | FT24DL        | 10             | 120-277V or Ballast | 50,000           | 4100 | 1300               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42220  | LED10TT5DLFGP850AB    | 12.9"  | FT24DL        | 10             | 120-277V or Ballast | 50,000           | 5000 | 1300               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42221  | LED16TT5DLFGP830AB    | 16.6"  | FT36DL        | 16             | 120-277V or Ballast | 50,000           | 3000 | 2000               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42222  | LED16TT5DLFGP835AB    | 16.6"  | FT36DL        | 16             | 120-277V or Ballast | 50,000           | 3500 | 2000               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42223  | LED16TT5DLFGP841AB    | 16.6"  | FT36DL        | 16             | 120-277V or Ballast | 50,000           | 4100 | 2100               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42224  | LED16TT5DLFGP850AB    | 16.6"  | FT36DL        | 16             | 120-277V or Ballast | 50,000           | 5000 | 2100               | 82  | –        | >0.90        | Frosted Glass with PET | N/A  |
| 42225  | LED17TT5DLFGPDIM830AB | 22.4"  | FT40DL        | 17             | 120-277V or Ballast | 50,000           | 3000 | 2150               | 82  | Yes      | >0.90        | Frosted Glass with PET | v5.1 |
| 42226  | LED17TT5DLFGPDIM835AB | 22.4"  | FT40DL        | 17             | 120-277V or Ballast | 50,000           | 3500 | 2150               | 82  | Yes      | >0.90        | Frosted Glass with PET | v5.1 |
| 42227  | LED17TT5DLFGPDIM841AB | 22.4"  | FT40DL        | 17             | 120-277V or Ballast | 50,000           | 4100 | 2300               | 82  | Yes      | >0.90        | Frosted Glass with PET | v5.1 |
| 42228  | LED17TT5DLFGPDIM850AB | 22.4"  | FT40DL        | 17             | 120-277V or Ballast | 50,000           | 5000 | 2300               | 82  | Yes      | >0.90        | Frosted Glass with PET | v5.1 |
| 42229  | LED22TT5DLFGPDIM830AB | 22.5"  | FT50DL/FT55DL | 22             | 120-277V or Ballast | 50,000           | 3000 | 2900               | 82  | Yes      | >0.91        | Frosted Glass with PET | v5.1 |
| 42230  | LED22TT5DLFGPDIM835AB | 22.5"  | FT50DL/FT55DL | 22             | 120-277V or Ballast | 50,000           | 3500 | 2900               | 82  | Yes      | >0.92        | Frosted Glass with PET | v5.1 |
| 42231  | LED22TT5DLFGPDIM841AB | 22.5"  | FT50DL/FT55DL | 22             | 120-277V or Ballast | 50,000           | 4100 | 3100               | 82  | Yes      | >0.93        | Frosted Glass with PET | v5.1 |
| 42232  | LED22TT5DLFGPDIM850AB | 22.5"  | FT50DL/FT55DL | 22             | 120-277V or Ballast | 50,000           | 5000 | 3100               | 82  | Yes      | >0.94        | Frosted Glass with PET | v5.1 |
| 42233  | LED24TT5DLFGPDIM830AB | 21.1"  | FT55DL        | 24             | 120-277V or Ballast | 50,000           | 3000 | 3200               | 82  | Yes      | >0.95        | Frosted Glass with PET | v5.1 |
| 42234  | LED24TT5DLFGPDIM835AB | 21.1"  | FT55DL        | 24             | 120-277V or Ballast | 50,000           | 3500 | 3200               | 82  | Yes      | >0.96        | Frosted Glass with PET | v5.1 |
| 42235  | LED24TT5DLFGPDIM841AB | 21.1"  | FT55DL        | 24             | 120-277V or Ballast | 50,000           | 4100 | 3400               | 82  | Yes      | >0.97        | Frosted Glass with PET | v5.1 |
| 42236  | LED24TT5DLFGPDIM850AB | 21.1"  | FT55DL        | 24             | 120-277V or Ballast | 50,000           | 5000 | 3400               | 82  | Yes      | >0.98        | Frosted Glass with PET | v5.1 |

## ELECTRICAL

- Operate with compatible electronic ballasts and directly on 120-277V
- Power Factor > 0.9
- THD < 20%
- UL Type B: 17W, 22W and 24W lamps are dimmable down to 10% with 120V phase cut dimmers (see the dimmer list below)
- UL Type A: 17W, 22W and 24W lamps dimmable with 0-10V dimmers and compatible dimming ballasts (refer to ballast compatibility guide)
- Compatible with LEDVANCE EMBB (75740) when operating at UL Type B mode (17W & below)

## RATED LIFE

- 50,000hrs (L<sub>70</sub>)

## OPERATING TEMPERATURE

- -4°F to +113°F (-20°C to +45°C)

## MAXIMUM CASE TEMPERATURE

- 158°F (70°C)

## WARRANTY

- Lamps are covered by a 5-year limited warranty. For additional details, please visit [www.ledvanceUS.com/warranty](http://www.ledvanceUS.com/warranty)
- NLB Trusted Warranty Program

## INSTALLATION

- Please refer to the Installation manual included inside the packaging and the applications information listed below for more information

## CERTIFICATIONS & LISTINGS

- cULus (UL1598c and UL1993, CSA C22.2)
- NSF (ANSI 2) — Food Equipment
- FCC & ICES-005 (for Canada)
- RoHS
- DLC 5.1 for 17W or higher
- Lead Free
- Mercury Free

## SPECIFICATIONS AND LIGHTING DATA

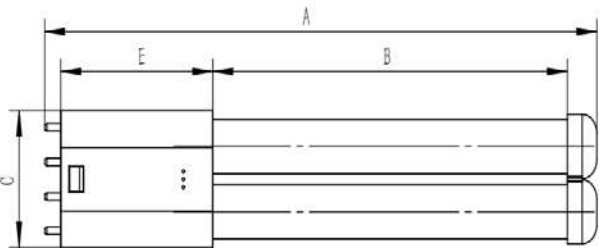
| LAMP                            | BALLAST             | SYSTEM CURRENT (AMPS) 120/277V | SYSTEM POWER (W) | SYSTEM LUMEN (LM) @4100K | SYSTEM EFFICACY (LM/W) | NO. OF LAMPS |
|---------------------------------|---------------------|--------------------------------|------------------|--------------------------|------------------------|--------------|
| LED8TT5DLFGP8XXAB as Type A     | QTP 2X26 CF/UNV DM  | 0.193/0.083                    | 23               | 1950                     | 84                     | 2            |
| LED10TT5DLFGP8XXAB as Type A    | QTP 2X26 CF/UNV DM  | 0.216/0.0935                   | 26               | 2500                     | 97                     | 2            |
| LED16TT5DLFGP8XXAB as Type A    | GEC242-MVPS-3W      | 0.318/0.138                    | 38               | 4300                     | 113                    | 2            |
| LED17TT5DLFGPDIM8XXAB as Type A | GEC240MAX-A         | 0.318/0.138                    | 31               | 4300                     | 139                    | 2            |
| LED22TT5DLFGPDIM8XXAB as Type A | QTP2X54T5HO UNV PSN | 0.391/0.170                    | 47               | 5996                     | 128                    | 2            |
| LED24TT5DLFGPDIM8XXAB as Type A | QTP2X54T5HO UNV PSN | 0.412/0.1765                   | 49               | 6300                     | 129                    | 2            |
| LED8TT5DLFGP8XXAB as Type B     | N/A                 | 0.013/0.058                    | 16               | 2000                     | 125                    | 2            |
| LED10TT5DLFGP8XXAB as Type B    | N/A                 | 0.165/0.073                    | 20               | 2600                     | 129                    | 2            |
| LED16TT5DLFGP8XXAB as Type B    | N/A                 | 0.247/0.107                    | 30               | 3950                     | 133                    | 2            |
| LED17TT5DLFGPDIM8XXAB as Type B | N/A                 | 0.267/0.116                    | 32               | 5200                     | 163                    | 2            |
| LED22TT5DLFGPDIM8XXAB as Type B | N/A                 | 0.35/0.15                      | 42               | 6700                     | 160                    | 2            |
| LED24TT5DLFGPDIM8XXAB as Type B | N/A                 | 0.4/0.174                      | 48               | 7500                     | 155                    | 2            |

## WATTAGE COMPARISON

| ITEM #                        | TRADITIONAL SOURCE | TRADITIONAL SYSTEM WATTAGE | LED SYSTEM            | LED SYSTEM WATTAGE (TYPE B) | ENERGY SAVINGS |
|-------------------------------|--------------------|----------------------------|-----------------------|-----------------------------|----------------|
| 42213 / 42214 / 42215 / 42216 | FT18DL             | 22                         | LED8TT5DLFGP8XXAB     | 8                           | 64%            |
| 42217 / 42218 / 42219 / 42220 | FT24DL             | 26                         | LED10TT5DLFGP8XXAB    | 10                          | 62%            |
| 42221 / 42222 / 42223 / 42224 | FT36DL             | 38                         | LED16TT5DLFGP8XXAB    | 16                          | 58%            |
| 42225 / 42226 / 42227 / 42228 | FT40DL             | 42                         | LED17TT5DLFGPDIM8XXAB | 17                          | 60%            |
| 42229 / 42230 / 42231 / 42232 | FT50DL             | 54                         | LED22TT5DLFGPDIM8XXAB | 22                          | 59%            |
| 42233 / 42234 / 42235 / 42236 | FT55DL             | 58                         | LED24TT5DLFGPDIM8XXAB | 24                          | 59%            |

PHYSICAL INFORMATION

| LAMP DESCRIPTION      | A<br>(INCH/MM)  | B<br>(INCH/MM)    | C<br>MAX (INCH/MM) | D<br>MAX (INCH/MM) | E<br>MAX<br>(INCH/MM) | WEIGHT<br>(LB/G) |
|-----------------------|-----------------|-------------------|--------------------|--------------------|-----------------------|------------------|
| LED8TT5DLFGP8XXAB     | 8.86±0.8/225±2  | 5.69±0.8/144.5±2  | 1.73/43.9          | 0.93/23.7          | 2.45/62.3             | 0.18/82          |
| LED10TT5DLFGP8XXAB    | 12.60±0.8/320±2 | 9.43±0.8/239.5±2  | 1.73/43.9          | 0.93/23.7          | 2.45/62.3             | 0.23/106         |
| LED16TT5DLFGP8XXAB    | 16.34±0.8/415±2 | 12.85±0.8/326.5±2 | 1.73/43.9          | 0.93/23.7          | 2.77/70.3             | 0.30/138         |
| LED17TT5DLFGPDIM8XXAB | 22.44±0.8/570±2 | 18.96±0.8/481.5±2 | 1.73/43.9          | 0.93/23.7          | 2.77/70.3             | 0.39/177         |
| LED22TT5DLFGPDIM8XXAB | 22.44±0.8/570±2 | 18.96±0.8/481.5±2 | 1.73/43.9          | 0.93/23.7          | 2.77/70.3             | 0.48/219         |
| LED24TT5DLFGPDIM8XXAB | 21.06±0.8/535±2 | 17.59±0.8/446.5±2 | 1.73/43.9          | 0.93/23.7          | 2.77/70.3             | 0.46/209         |



DIMMER COMPATIBILITY

UL Type A  
0-10V Compatible dimmers with compatible ballasts

| DIMMER  | MODEL    |
|---------|----------|
| Lutron  | NTSTV-DV |
| Lutron  | NSTV     |
| Lutron  | DVTV     |
| Lutron  | DVSTV    |
| Leviton | DS710    |
| Leviton | IP710    |
| Legrand | H4FBL3PW |

UL Type B  
Dimming is only wired to 120V input voltage

| DIMMER | MODEL        |
|--------|--------------|
| Lutron | DVLEV – 303P |
| Lutron | SLEV – 303P  |
| Lutron | CTLEV – 303P |
| Lutron | NTLEV – 300  |
| Lutron | NTLEV – 600  |

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