

# LED Dimmer/Bulb Compatibility

IllumaTech®

IPL06



Leviton is proud to be a leader in the electrical industry by using the latest technology to develop products that enhance daily living and help save energy. Sharing our knowledge and experience with you is an important part of our brand promise to put our customers at the center of everything we do.

This report was developed to help you understand how to best pair today's LED bulbs with Leviton dimmers so you can locate the best combination to meet your lighting needs.

### LED vs Incandescent Bulbs

Incandescent bulbs are rapidly being phased out in favor of longer-lasting, more energy efficient LED bulbs. Because their circuitry is more complex, not all LED bulbs will dim smoothly, and some may present other inconsistencies such as flickering, slow start-up, limited dimming range or inconsistent illumination.



### Compatibility is Key

In order to achieve the best performance, it is important to ensure that the LED bulb and dimmer you select are compatible when used together. Existing dimmers in older homes are likely "incandescent only" dimmers - installed before LED bulbs became mainstream. Incandescent dimmers are not rated for use with LED bulbs. Leviton recommends only using LED bulbs with dimmers that are rated to control an LED load.



### Testing for Compatibility

Leviton is dedicated to providing our customers with the best experience when using Leviton dimmers. We work closely with LED bulb manufacturers and have a dedicated team in our in-house lab that conducts ongoing testing of the latest LED bulbs/fixtures with our LED dimmers to determine the best combinations.

This test program is designed to meet or exceed the latest testing criteria for evaluating performance of LED bulbs with Leviton dimmers. We measure a number of factors including dimming range and irregular functionality such as flickering or shimmering, slow start up, noise (humming/buzzing) levels and inconsistent illumination. The testing is ongoing and results are updated regularly in our user friendly LED Compatibility Selector Tool available at [Leviton.com/led](http://Leviton.com/led).

### Understanding the Rating System

Our ratings will help you determine which bulbs/fixtures have been tested and approved as compatible with Leviton LED dimmers. All results listed within this report are deemed compatible. The bulbs that display an asterisk (\*) after the model# are those that had exceptional performance and compatibility beyond our criteria.

LED Compatibility  
 IllumaTech® Slide Dimmer  
 IPL06



| Bulb Type                    | Bulb Manufacturer | Model #                              | Wattage                      | Equivalent Wattage | Color/Temperature (K)  |                        |
|------------------------------|-------------------|--------------------------------------|------------------------------|--------------------|------------------------|------------------------|
| 4" Retrofit                  | Cree              | SRDL4-0575000FH-12DE26-1             | 8                            | 55                 | Daylight (5000K)       |                        |
|                              |                   | SRDL4-0572700FH-12DE26-1-11          | 8                            | 55                 | Daylight (5000K)       |                        |
|                              |                   | TRDL4-0782700FH50-12DE26-1-11*       | 10.5                         | 75                 | Soft White (2700K)     |                        |
|                              | EcoSmart          | DL-N34A9ER1-27*                      | 9                            | 65                 | Soft White (2700K)     |                        |
| Westinghouse                 | 5054000*          | 10                                   | 65                           | Daylight (5000K)   |                        |                        |
| 6" Retrofit                  | Cree              | TRDL6-0802700FH50-12DE26-1-11004S-D* | 11                           | 75                 | Soft White (2700K)     |                        |
|                              |                   | TRDL6-1102700FH50-12DE26-1-11*       | 14.5                         | 100                | Soft White (2700K)     |                        |
|                              |                   | TRDL6-1602700FH50-12DE26-1-11*       | 21                           | 150                | Soft White (2700K)     |                        |
|                              | Lithonia          | 65BEMW*                              | 12.1                         | 65                 | Soft White (2700K)     |                        |
|                              | Westinghouse      | 5056000*                             | 11                           | 65                 | Daylight (5000K)       |                        |
| A15                          | EcoSmart          | A15 6.5W E26 DIM 2700K*              | 6.5                          | 60                 | Soft White (2700K)     |                        |
|                              | Philips           | 046677463960*                        | 5.5                          | 40                 | Warm Glow (2200-2700K) |                        |
| A19                          | Cree              | SA19-08150MDFD-12DE26-1-14*          | 8.5                          | 60                 | Daylight (5000K)       |                        |
|                              |                   | SA19-08127MDFD-12DE26-1-14*          | 9.5                          | 60                 | Soft White (2700K)     |                        |
|                              |                   | SA19-11050MDFD12DE26-1-11            | 10.2                         | 75                 | Daylight (5000K)       |                        |
|                              |                   | SA19-11027MDFD-12DE26-1-11           | 10.2                         | 75                 | Daylight (5000K)       |                        |
|                              | EcoSmart          | ECS A19 40WE W27 FIL 120 3PK*        | 4.5                          | 40                 | Soft White (2700K)     |                        |
|                              |                   | A19G 5.5W E26 DIM 2200K*             | 5.5                          | 60                 | Warm White (2200K)     |                        |
|                              |                   | C5A19A40WESD09*                      | 5.6                          | 40                 | Daylight (5000K)       |                        |
|                              |                   | C5A19A40WESD09*                      | 5.6                          | 40                 | Daylight (5000K)       |                        |
|                              |                   | B7A19A40WESD02*                      | 5.7                          | 40                 | Bright White (3000K)   |                        |
|                              |                   | B7A19A40WESD34*                      | 5.7                          | 40                 | Daylight (5000K)       |                        |
|                              |                   | A460ST-Q1D-01*                       | 6.5                          | 40                 | Soft White (2700K)     |                        |
|                              |                   | A19 6.5 E26 DIM 2700K*               | 6.5                          | 60                 | Soft White (2700K)     |                        |
|                              |                   | A7A1960WESGD03*                      | 7                            | 60                 | Daylight (5000K)       |                        |
|                              |                   | A7A19A60WESQD03*                     | 7.5                          | 60                 | Daylight (5000K)       |                        |
|                              |                   | A7A19A60WESQD01*                     | 7.5                          | 60                 | Soft White (2700K)     |                        |
|                              |                   | A8A19A60WESGD03                      | 7.5                          | 60                 | Soft White (2700K)     |                        |
|                              |                   | A8A19A60WESD01                       | 8                            | 60                 | Soft White (2700K)     |                        |
|                              |                   | A7A1960WESD02*                       | 8.5                          | 60                 | Bright White (3000K)   |                        |
|                              |                   | A6A1960WESD81*                       | 9                            | 60                 | Soft White (2700K)     |                        |
|                              |                   | B7A19A60WESD14                       | 9.5                          | 60                 | Soft White (2700K)     |                        |
|                              |                   | C5A19A75WESD05*                      | 12.5                         | 75                 | Bright White (3000K)   |                        |
|                              |                   | C5A19A75WESD04*                      | 12.5                         | 75                 | Soft White (2700K)     |                        |
|                              |                   | 5bSA1100STQ1D01*                     | 12.5                         | 75                 | Soft White (2700K)     |                        |
|                              |                   | A7A19A75WESD09                       | 13                           | 75                 | Daylight (5000K)       |                        |
|                              |                   | B6A19100WESD03*                      | 15                           | 100                | Bright White (3000K)   |                        |
|                              |                   | B6A19100WESD02*                      | 15                           | 100                | Daylight (5000K)       |                        |
|                              |                   | B6A19100WESD01*                      | 15                           | 100                | Soft White (2700K)     |                        |
|                              | A7A19A100WESD04*  | 15.5                                 | 100                          | Soft White (2700K) |                        |                        |
|                              | Philips           | 461632*                              | 4.5                          | 60                 | Warm White (2000K)     |                        |
|                              |                   | 9290018362*                          | 5.5                          | 40                 | Daylight (5000K)       |                        |
|                              |                   | 04667746244*                         | 6                            | 40                 | Warm Glow (2200-2700K) |                        |
|                              |                   | 04667746524*                         | 9.5                          | 60                 | Warm Glow (2200-2700K) |                        |
|                              | Soraa             | SA19-11-OMNI-927-01*                 | 11                           | 60                 | Soft White (2700K)     |                        |
|                              | Westinghouse      | 4369600*                             | 9                            | 60                 | Soft White (2700K)     |                        |
|                              |                   | 5313600                              | 15                           | 100                | Soft White (2700K)     |                        |
|                              | A21               | EcoSmart                             | A21 11W E26 DIM 2700K*       | 11                 | 90                     | Soft White (2700K)     |
|                              |                   | Philips                              | 046677459062*                | 14                 | 75                     | Warm Glow (2200-2700K) |
|                              |                   |                                      | 046677459109*                | 18                 | 100                    | Warm Glow (2200-2700K) |
|                              | B10               | Feit                                 | CTT/S/CL/FILED               | 4.5                | 25                     | Warm White (2000K)     |
|                              | B11               | Cree                                 | TB11-05050MDCH15-12DE12-1-12 | 5.3                | 60                     | Daylight (5000K)       |
| TB11-05027MDCH15-12DE12-1-12 |                   |                                      | 5.3                          | 60                 | Soft White (2700K)     |                        |
| EcoSmart                     |                   | ECS B11 CA 40WE W27 LP E12 120 3PK*  | 4                            | 40                 | Soft White (2700K)     |                        |
|                              |                   | B1160WDLE123P*                       | 6                            | 60                 | Daylight (5000K)       |                        |
| Philips                      |                   | 463901*                              | 4.5                          | 40                 | Daylight (5000K)       |                        |
| Westinghouse                 | 5314100*          | 4.5                                  | 40                           | Soft White (2700K) |                        |                        |
| B13                          | Westinghouse      | 5313200*                             | 6.5                          | 60                 | Soft White (2700K)     |                        |

|               |                      |                                       |      |                        |                        |
|---------------|----------------------|---------------------------------------|------|------------------------|------------------------|
| BR30          | Cree                 | SBR30-06550FLFD-12DE26-1-13*          | 7    | 65                     | Daylight (5000K)       |
|               |                      | SBR30-06550FLFD-12DE26-1              | 7    | 65                     | Daylight (5000K)       |
|               |                      | SBR30-06527FLFD-12DE26-1-13           | 8    | 65                     | Soft White (2700K)     |
|               |                      | D-BR30-65WE-2700K*                    | 8.5  | 65                     | Soft White (2700K)     |
|               | EcoSmart             | A7BR3065WESD05 *                      | 8    | 65                     | Bright White (3000K)   |
|               |                      | 1003014903*                           | 10.5 | 60                     | Bright White (3000K)   |
|               |                      | 1003024203*                           | 10.5 | 65                     | Soft White (2700K)     |
|               |                      | 1003025902                            | 12.5 | 75                     | Bright White (3000K)   |
|               |                      | 1003026002                            | 12.5 | 75                     | Bright White (3000K)   |
|               |                      | 1003024102                            | 12.5 | 75                     | Daylight (5000K)       |
|               |                      | 1003024802                            | 12.5 | 75                     | Daylight (5000K)       |
|               |                      | 1003024702                            | 12.5 | 75                     | Soft White (2700K)     |
|               | 1003024002           | 12.5                                  | 75   | Soft White (2700K)     |                        |
|               | Feit                 | BR30DM/10KLED/MP/12*                  | 9.5  | 65                     | Soft White (2700K)     |
|               | Philips              | 531749*                               | 8    | 65                     | Daylight (5000K)       |
|               |                      | 465996*                               | 9    | 65                     | Soft White (2700K)     |
| 046677465995* |                      | 9                                     | 65   | Warm Glow (2200-2700K) |                        |
| Soraa         | SB30-11-120D-927-01* | 11.5                                  | 65   | Soft White (2700K)     |                        |
| Westinghouse  | 5008000*             | 9                                     | 65   | Bright White (3000K)   |                        |
| BR40          | EcoSmart             | 1003025202*                           | 16   | 90                     | Daylight (5000K)       |
|               | Philips              | 459826                                | 10   | 65                     | Daylight (5000K)       |
|               |                      | 457002                                | 10   | 65                     | Soft White (2700K)     |
|               |                      | 46677465254*                          | 10   | 65                     | Warm Glow (2200-2700K) |
| C35           | EcoSmart             | G25 7W L E26 DIM*                     | 4.5  | 40                     | Soft White (2700K)     |
|               |                      | C35C 4.5W E26 DIM*                    | 4.5  | 40                     | Soft White (2700K)     |
| F15           | Philips              | 458620*                               | 7    | 60                     | Warm Glow (2200-2700K) |
| G16.5         | EcoSmart             | FG-03157                              | 4    | 40                     | Daylight (5000K)       |
|               |                      | FG-03154                              | 4    | 40                     | Soft White (2700K)     |
|               |                      | FG-03155                              | 4    | 40                     | Soft White (2700K)     |
|               | Philips              | 9290018429                            | 2.7  | 25                     | Soft White (2700K)     |
|               |                      | 477752*                               | 5.5  | 60                     | Soft White (2700K)     |
|               |                      | 477745*                               | 5.5  | 60                     | Soft White (2700K)     |
| G25           | EcoSmart             | FG-03148                              | 4    | 40                     | Daylight (5000K)       |
|               |                      | FG-03149                              | 4    | 40                     | Daylight (5000K)       |
|               |                      | FG-03147                              | 4    | 40                     | Soft White (2700K)     |
|               |                      | FG-03146                              | 4    | 40                     | Soft White (2700K)     |
|               |                      | G25 7W L E26 DIM*                     | 7    | 100                    | Soft White (2700K)     |
|               | Philips              | 477646                                | 5    | 40                     | Daylight (5000K)       |
| MR16          | Westinghouse         | 5303200*                              | 6.5  | 50                     | Bright White (3000K)   |
| PAR16         | EcoSmart             | A6PR16M35WESD04                       | 4.5  | 35                     | Bright White (3000K)   |
|               |                      | A6GU10M50WESD02*                      | 5.3  | 50                     | Bright White (3000K)   |
|               |                      | A6PR16M50WESD02*                      | 5.3  | 50                     | Bright White (3000K)   |
| PAR20         | EcoSmart             | 5bHPR500STW1D19*                      | 5.5  | 50                     | Daylight (5000K)       |
|               |                      | A6PR20P50WESD02*                      | 6.5  | 50                     | Bright White (3000K)   |
|               |                      | B7PR20P50WESD01*                      | 6.5  | 50                     | Bright White (3000K)   |
|               |                      | A6PR20P50WESD03*                      | 6.5  | 50                     | Daylight (5000K)       |
|               | Philips              | 478578*                               | 7    | 50                     | Daylight (5000K)       |
| PAR30         | EcoSmart             | A6PR30P75WESD03*                      | 8    | 75                     | Daylight (5000K)       |
|               |                      | A6PR30P75WESD03                       | 8    | 75                     | Daylight (5000K)       |
|               |                      | A7PR30S75WESD02                       | 8    | 75                     | Soft White (2700K)     |
|               |                      | 5bHPR650STW1D29                       | 9.5  | 75                     | Bright White (3000K)   |
| PAR38         | Cree                 | TPAR38-1503040FH25-12DE26-1-11003S-T* | 19   | 120                    | Bright White (3000K)   |
|               |                      | TPAR38-1803040FH25-12DE26-1-11*       | 19   | 150                    | Bright White (3000K)   |
|               |                      | TPAR38-1503025FH25-12DE26-1-11*       | 19   | 120                    | Bright White (3000K)   |
|               | EcoSmart             | A6PR38P90WESD02*                      | 11   | 90                     | Bright White (3000K)   |
|               |                      | B7PR38P100ESD12*                      | 13   | 90                     | Bright White (3000K)   |
|               |                      | B7PR38P100ESD22*                      | 13   | 90                     | Daylight (5000K)       |
|               |                      | A6PR38120WESD03                       | 14.5 | 120                    | Daylight (5000K)       |
|               | Philips              | 9290013200*                           | 12   | 90                     | Bright White (3000K)   |
|               |                      | 9290013203*                           | 12   | 90                     | Daylight (5000K)       |
|               |                      | 9290013203                            | 12   | 90                     | Daylight (5000K)       |
|               |                      | 467936*                               | 14   | 120                    | Bright White (3000K)   |
|               |                      | 467944*                               | 14   | 120                    | Daylight (5000K)       |
| Westinghouse  | 5301400*             | 15                                    | 90   | Bright White (3000K)   |                        |
| R20           | EcoSmart             | 1003017802*                           | 8    | 50                     | Daylight (5000K)       |
|               | Philips              | 9290018878*                           | 6    | 45                     | Daylight (5000K)       |
|               |                      | 456995*                               | 6    | 45                     | Warm Glow (2200-2700K) |
| Westinghouse  | 5012000*             | 6.5                                   | 50   | Daylight (5000K)       |                        |
| R30           | Westinghouse         | 5300000*                              | 8    | 65                     | Soft White (2700K)     |
| ST19          | EcoSmart             | ST19G 5.5W L E26 DIM 2200K*           | 5.5  | 60                     | Warm White (2200K)     |
|               | Feit                 | AT19/H/LED                            | 4.5  | 25                     | Warm White (2000K)     |
| T6            | Feit                 | T6/S/CL/FILED                         | 4.5  | 25                     | Warm White (2000K)     |

\* The bulbs that display an asterisk (\*) after the model# have exceptional performance and compatibility beyond our criteria.