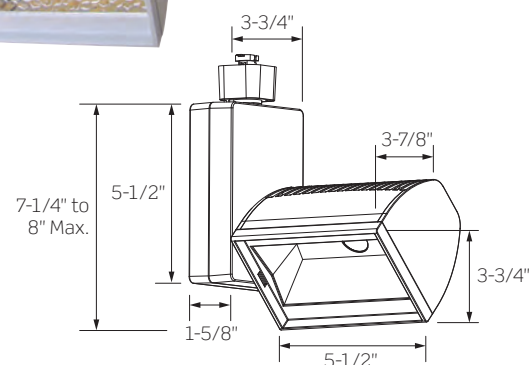
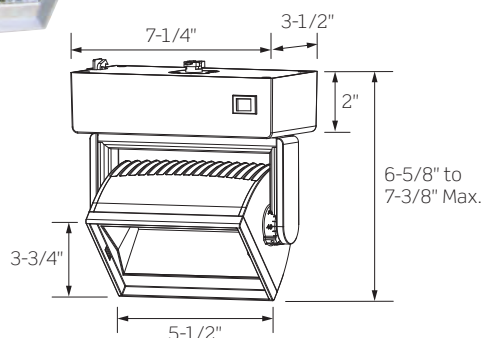







DATE

PROJECT

TYPE

## CTL18 SERIES | Stealth Wall Lighter Track Luminaires



|   | CTL189  | CTL180 | CTL181 | CTL182 | CTL183 | CTL184 |
|---|---|--------|--------|--------|--------|--------|
| WATTAGE   | 16W   | 22W    | 31W    | 36W    | 43W    | 47W    |
| LUMEN OUTPUT <sup>1</sup>   | 2200Lm  | 3000Lm | 4100Lm | 4700Lm | 5400Lm | 5900Lm |
| COLOR TEMPERATURE   | 2700K / 3000K / 3500K / 4000K   |        |        |        |        |        |
| CRI   | 83 (80min) / 90+  |        |        |        |        |        |
| DRIVER INPUT WATTAGE  | 16W   | 22W    | 31W    | 36W    | 43W    | 47W    |
| DRIVER INPUT VOLTAGE  | 120V, 50/60Hz; Dimmable at 120V only  |        |        |        |        |        |
| DIMMING TYPE  | TRIAC/Incandescent (Forward Phase) and ELV (Reverse Phase)  |        |        |        |        |        |
| COMPATIBILITY   | CTL Units are compatible with ConTech Lighting LT/LT2 Single Circuit/Two Circuit Track Systems and Luxbeam Track Systems, as well as Juno <sup>®2</sup> Lighting Trac-Master <sup>™</sup> Systems<br>HTL Units are compatible with Halo <sup>3</sup> Power-Trac and Lazer Track Systems<br>LTL Units are compatible with Lightolier <sup>4</sup> Lytespan <sup>®</sup> Systems  |        |        |        |        |        |
| <div>   </div> <div>    </div> | LISTINGS<br>cCSAus Certified to UL Standards on Base Models; Suitable for Dry Locations<br>ENERGY STAR <sup>®</sup> Certified<br>Declare <sup>SM</sup> Compliant<br>All Vertical Housings are DLC Listed; Horizontal model CTL180H3D in all finishes is DLC Listed<br>35W Vertical Luminaire in 3000K, 3500K and 4000K can be used to comply with the 2016 Title 24 Part 6 JA8 high efficacy LED light source requirements <sup>2</sup> |        |        |        |        |        |
| WARRANTY  | Five (5) year replacement after date of purchase  |        |        |        |        |        |
| SYSTEM RATING   | 50,000 Hours @ 70% Lumen Maintenance  |        |        |        |        |        |

1. Approximate lumen output based on 3000K performance; see photometric test results for additional information
2. Only Vertical Housing (CTL18V) is Title 24 Part 6 compliant
3. Juno is a registered trademark of Juno Lighting
4. Halo is a registered trademark of Cooper Lighting
5. Lightolier is a registered trademark of Signify

DATE

PROJECT

TYPE

# CTL18 SERIES | Stealth Wall Lighter Track Luminaires

## ORDERING INFORMATION

Example Order: CTL182V3MVD — P

| Track System                  | Luminaire                 | Orientation           | Color Temp/CRI        | Dimming                        | Finish            |
|-------------------------------|---------------------------|-----------------------|-----------------------|--------------------------------|-------------------|
| CTL - ConTech                 | <b>189</b> - 16W / 2200Lm | <b>H</b> - Horizontal | <b>83</b> (80min) CRI | <b>D</b> - TRIAC / ELV Dimming | <b>B</b> - Black  |
| HTL - Halo <sup>1</sup>       | <b>180</b> - 22W / 3000Lm | <b>V</b> - Vertical   | <b>27</b> - 2700K     |                                | <b>P</b> - White  |
| LTL - Lightolier <sup>2</sup> | <b>181</b> - 31W / 4100Lm |                       | <b>3</b> - 3000K      |                                | <b>S</b> - Silver |
|                               | <b>182</b> - 36W / 4700Lm |                       | <b>35</b> - 3500K     |                                |                   |
|                               | <b>183</b> - 43W / 5400Lm |                       | <b>4</b> - 4000K      |                                |                   |
|                               | <b>184</b> - 47W / 5900Lm |                       | <b>90+ CRI</b>        |                                |                   |
|                               |                           |                       | <b>27C</b> - 2700K    |                                |                   |
|                               |                           |                       | <b>3C</b> - 3000K     |                                |                   |
|                               |                           |                       | <b>35C</b> - 3500K    |                                |                   |
|                               |                           |                       | <b>4C</b> - 4000K     |                                |                   |

1. Halo is a registered trademark of Cooper Lighting  
2. Lightolier is a registered trademark of Signify

## PRODUCT DETAILS

### Construction

- Cast and finned aluminum Heatsink thermally engineered to provide optimal heat dissipation, ensuring long life and consistent performance
- Lockable, precision aiming adjustment: 360°+ horizontal aiming  
Vertical Housing has 360° vertical rotation  
Horizontal Housing has 220° vertical rotation
- Integral ON/OFF Switch and Track Polarity Indicator are standard
- Can accept up to two (2) media by using the FA-18 Accessory Holder, FA-48 Snoot, FA-51 Visor or BD18 Barn Doors
- For accessory ordering information, see page 3

### Performance Summary

- 2700K, 3000K, 3500K and 4000K Color Temperatures; excellent fixture-to-fixture color consistency within a 3-step MacAdam Ellipse tolerance
- 80 CRI min., 83 typical; high CRI 90+ available
- Smooth, wide beam with excellent uniformity; well suited for any wall lighting application
- Dimming is available in 120V only
- CTL18 Luminaires utilize Drivers manufactured by ERP and Lutron; for additional information, consult factory
- For Dimmer compatibility, refer to Dimming Specification sheet

### Fixture Compatibility

- Standard ConTech Track Luminaires (CTL Units) are cCSAus Certified as-is for use with ConTech Lighting LT/LT2 Single Circuit/Two Circuit Track and Luxbeam Track Systems, as well as Juno<sup>®3</sup> Lighting Trac-Master™ Systems
- By changing the prefix of the part number, ConTech can install inserts to make our fixtures compatible with other manufacturers. Replace “CTL” with “HTL” for Halo® Power-Trac and Lazer-Track systems, and “LTL” for Lightolier Lytespan™ Systems. For more information, consult factory.



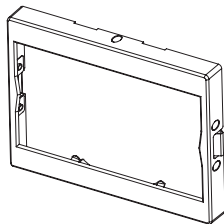
3. Juno is a registered trademark of Juno Lighting

DATE

PROJECT

TYPE

## CTL18 SERIES | Stealth Wall Lighter Accessories



### Accessory Holder

5-1/4-Inch W x 3-1/2-Inch H x 3/8-Inch D

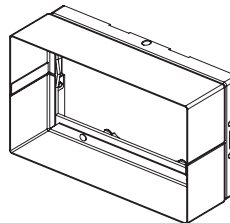
Accepts up to two (2) LF48 Lenses or FA-52 Louvers.

#### Accessory

**FA-18** - Accessory Holder

#### Finish

**B** - Black  
**P** - White



### Snoot

5-1/4-Inch W x 3-1/2-Inch H x 1-1/8-Inch D

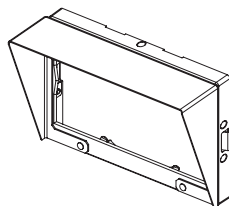
Snoot extends 3/4" from face of fixture. Will accept up to two (2) LF48 lenses or FA-52 louvers. For White (–P) and Silver (–S) finishes, the inside surface is black

#### Accessory

**FA-48** - Snoot

#### Finish

**B** - Black  
**P** - White  
**S** - Silver



### Visor

5-1/4-Inch W x 3-1/2-Inch H x 3/8-Inch D

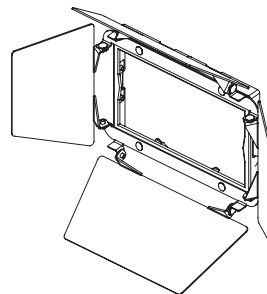
Visor extends 3/4" from face of fixture. Will accept up to two (2) LF48 lenses or FA-52 louvers. For White (–P) and Silver (–S) finishes, the inside surface is black.

#### Accessory

**FA-51** - Visor

#### Finish

**B** - Black  
**P** - White  
**S** - Silver



### Barn Doors

5-1/4-Inch W x 3-1/2-Inch H

Barn doors extend 3-inches max. from face of fixture. Will accept up to two (2) LF48 lenses or FA-52 louvers.

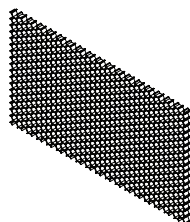
Width: 4-1/2" to 10-3/4"  
Height: 3-1/2" to 9"

#### Accessory

**BD18** - Barn Doors

#### Finish

**B** - Black  
**P** - White  
**S** - Silver



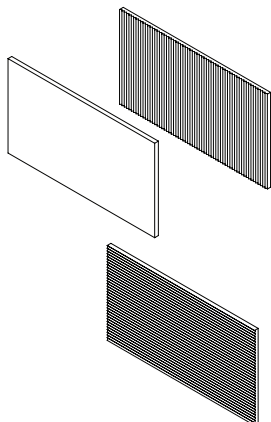
### Honeycomb Louver

4-15/16-Inch W x 2-3/4-Inch H x 1/8-Inch D

Glare control and shielding accessory. Black finish.

#### Accessory

**FA-52** - Honeycomb Louver



### Tempered Glass Lenses

4-15/16-Inch W x 2-3/4-Inch H x 1/8-Inch D

Requires FA-19 Accessory Holder.

#### Accessory

**LF48** - Tempered Glass Lenses

#### Finish

**73** - Spread Lens  
**LSH** - Linear Spread Lens, Horizontal  
*Elongates beams horizontally*  
**LSV** - Linear Spread Lens, Vertical  
*Elongates beams vertically*  
**SL** - Soft Light  
**SOL** - Solite  
**UV** - Optivex UV Filter

**A** - Amber  
**B** - Blue  
**CL** - Clear  
**DPE** - Dichroic Peach  
**G** - Green  
**LB** - Light Blue  
**R** - Red  
**RO** - Rose  
**Y** - Yellow

DATE

PROJECT

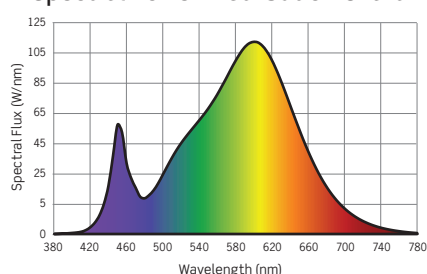
TYPE

# CTL18 SERIES | Stealth Wall Lighter Photometrics

## PHOTOMETRICS: CTL184V3D/CTL184H3D

Color Rendering Index (CRI)<sup>1</sup>: 80.9  
Color Temperature (CCT)<sup>2</sup>: 3116K  
Designed for 50,000 Hour Lamp Life<sup>3</sup>  
LM-79 Test: S19041604

Spectral Power Distribution Chart<sup>4</sup>



| LED SERIES          | TOTAL W @ 120V | DELIVERED LMS | LM/WATT | LM-63 TEST |
|---------------------|----------------|---------------|---------|------------|
| CTL189 16W/SERIES 1 | 15.8W          | 2236Lm        | 141.5   | G19032206  |
| CTL180 22W/SERIES 2 | 21.9W          | 3049Lm        | 139.2   | G19032204  |
| CTL181 31W/SERIES 3 | 30.4W          | 4107Lm        | 135.1   | G19032202  |
| CTL182 36W/SERIES 4 | 35.8W          | 4718Lm        | 131.8   | G19032104  |
| CTL183 43W/SERIES 5 | 42.6W          | 5418Lm        | 127.2   | G19032102  |
| CTL184 47W/SERIES 6 | 45.9W          | 6002Lm        | 130.6   | G19041502  |

1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

## PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on wattage, CCT and CRI. To estimate lumen output of the various options, multiply CTL184 (3000K, Standard CRI) results using the following tables:

| DIMMING MULTIPLIERS |             |           |
|---------------------|-------------|-----------|
| LED SERIES          | STD DIMMING | D3 OPTION |
| CTL189 16W/SERIES 1 | 0.37        | 0.30      |
| CTL180 22W/SERIES 2 | 0.51        | 0.43      |
| CTL181 31W/SERIES 3 | 0.68        | 0.61      |
| CTL182 36W/SERIES 4 | 0.79        | N/A       |
| CTL183 43W/SERIES 5 | 0.90        | N/A       |

| CCT MULTIPLIERS |         |          |
|-----------------|---------|----------|
| CCT             | STD CRI | HIGH CRI |
| 2700K           | 0.95    | 0.74     |
| 3000K           | N/A     | 0.85     |
| 3500K           | 1.03    | 0.89     |
| 4000K           | 1.07    | 0.92     |

DATE

PROJECT

TYPE

# CTL18 SERIES | Stealth Wall Lighter Photometrics

## PHOTOMETRICS: CTL184V3D/CTL184H3D

**Footcandles on Wall: Track 3 Feet From Wall, 10 FT Mounting Height, Tilted 40 Degrees ▲ is beam center**

|                       |      | Single Unit |      |      |      |      |      | Multiple Units |     |     |                |     |     |                |     |     |
|-----------------------|------|-------------|------|------|------|------|------|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|
|                       |      | 0 FT        | 1 FT | 2 FT | 3 FT | 4 FT | 5 FT | 4 FT on Center |     |     | 6 FT on Center |     |     | 8 FT on Center |     |     |
|                       |      | ▲           |      |      |      |      |      | ▲              |     | ▲   | ▲              |     |     | ▲              |     | ▲   |
| Distance from Ceiling | 1 FT | 169         | 142  | 91   | 48   | 15   | 4    | 197            | 191 | 201 | 176            | 98  | 175 | 170            | 30  | 173 |
|                       | 2 FT | 227         | 193  | 129  | 80   | 38   | 11   | 303            | 265 | 305 | 233            | 166 | 231 | 228            | 78  | 229 |
|                       | 3 FT | 184         | 161  | 114  | 79   | 51   | 23   | 289            | 248 | 290 | 201            | 162 | 201 | 187            | 101 | 188 |
|                       | 4 FT | 114         | 105  | 80   | 60   | 42   | 27   | 202            | 189 | 203 | 142            | 122 | 142 | 119            | 87  | 119 |
|                       | 5 FT | 64          | 59   | 50   | 38   | 29   | 22   | 129            | 132 | 130 | 95             | 80  | 95  | 72             | 60  | 72  |
|                       | 6 FT | 37          | 35   | 31   | 25   | 20   | 16   | 89             | 91  | 89  | 64             | 58  | 64  | 49             | 42  | 49  |
|                       | 7 FT | 23          | 23   | 21   | 18   | 14   | 12   | 65             | 67  | 66  | 46             | 45  | 46  | 36             | 32  | 37  |
|                       | 8 FT | 16          | 16   | 15   | 13   | 11   | 9    | 50             | 51  | 51  | 35             | 35  | 34  | 27             | 25  | 28  |
|                       | 9 FT | 12          | 12   | 11   | 10   | 9    | 8    | 38             | 39  | 38  | 26             | 26  | 26  | 21             | 20  | 21  |

**Footcandles on Wall: Track 4 Feet From Wall, 10 FT Mounting Height, Tilted 40 Degrees ▲ is beam center**

|                       |      | Single Unit |      |      |      |      |      | Multiple Units |     |     |                |     |     |                |    |     |
|-----------------------|------|-------------|------|------|------|------|------|----------------|-----|-----|----------------|-----|-----|----------------|----|-----|
|                       |      | 0 FT        | 1 FT | 2 FT | 3 FT | 4 FT | 5 FT | 4 FT on Center |     |     | 6 FT on Center |     |     | 8 FT on Center |    |     |
|                       |      | ▲           |      |      |      |      |      | ▲              |     | ▲   | ▲              |     |     | ▲              |    | ▲   |
| Distance from Ceiling | 1 FT | 74          | 67   | 53   | 37   | 21   | 8    | 111            | 111 | 113 | 83             | 77  | 82  | 77             | 42 | 78  |
|                       | 2 FT | 125         | 113  | 86   | 62   | 42   | 22   | 212            | 192 | 214 | 145            | 128 | 144 | 130            | 87 | 131 |
|                       | 3 FT | 117         | 109  | 88   | 65   | 47   | 31   | 217            | 210 | 218 | 152            | 134 | 151 | 125            | 95 | 125 |
|                       | 4 FT | 101         | 94   | 76   | 57   | 44   | 33   | 195            | 195 | 196 | 141            | 121 | 141 | 108            | 90 | 108 |
|                       | 5 FT | 71          | 68   | 59   | 47   | 37   | 29   | 161            | 163 | 161 | 116            | 102 | 115 | 86             | 76 | 87  |
|                       | 6 FT | 47          | 45   | 40   | 33   | 27   | 22   | 119            | 121 | 120 | 84             | 78  | 84  | 66             | 56 | 67  |
|                       | 7 FT | 31          | 30   | 27   | 24   | 20   | 17   | 89             | 90  | 90  | 61             | 60  | 62  | 49             | 43 | 50  |
|                       | 8 FT | 21          | 20   | 19   | 17   | 15   | 13   | 67             | 70  | 68  | 47             | 48  | 47  | 37             | 35 | 37  |
|                       | 9 FT | 15          | 15   | 13   | 12   | 11   | 10   | 51             | 53  | 54  | 37             | 37  | 37  | 28             | 28 | 28  |

DATE

PROJECT

TYPE

# CTL18 SERIES | Stealth Wall Lighter Photometrics

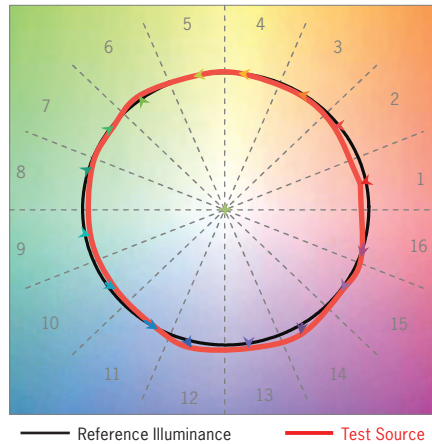
## TM-30 DATA: CTL184V3D/CTL184H3D

ANSI/IES TM-30-18 Color Rendition Report Test No. S21012903

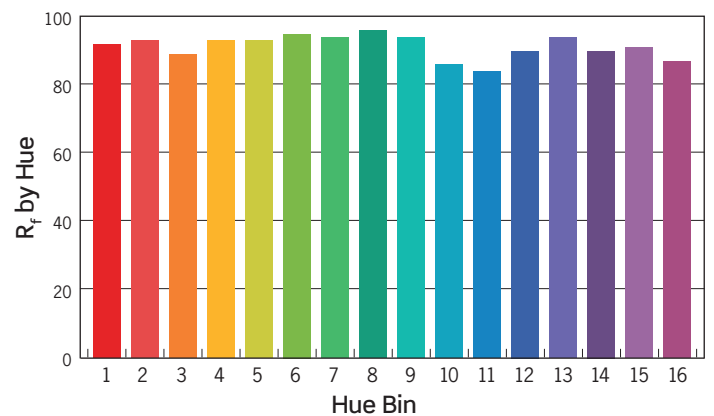
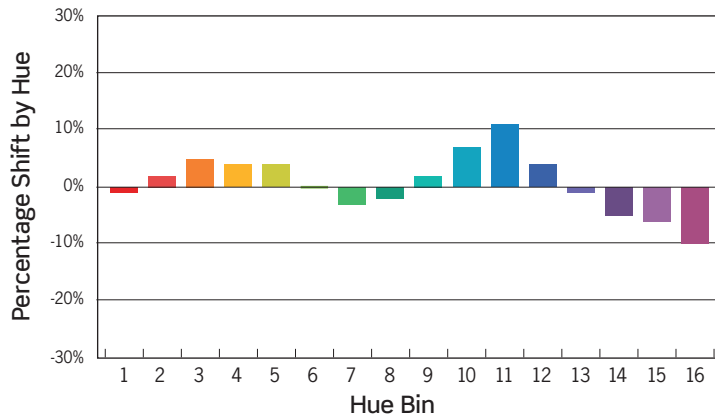
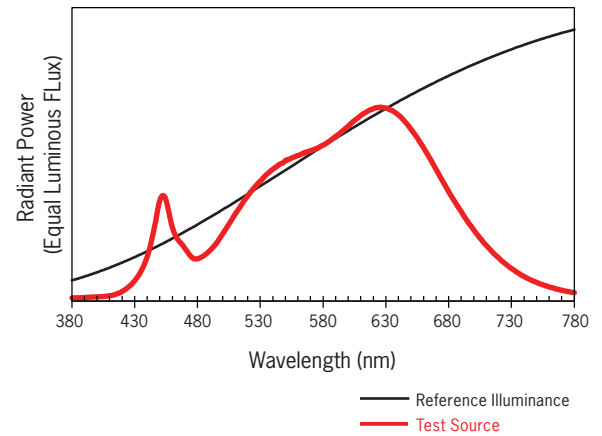
Colors are for visual orientation purposes only

|          |        |
|----------|--------|
| $R_f$    | 91     |
| $R_g$    | 100    |
| CCT(K)   | 3111K  |
| $D_{uv}$ | 0.0022 |
| $u^I$    | 0.2460 |
| $v^I$    | 0.5222 |

Color Vector Graphic



Spectral Power Distribution Comparison



| HUE BIN              | 1   | 2  | 3  | 4  | 5  | 6  | 7   | 8   | 9  | 10 | 11  | 12 | 13  | 14  | 15  | 16   |
|----------------------|-----|----|----|----|----|----|-----|-----|----|----|-----|----|-----|-----|-----|------|
| HUE SHIFT            | -1% | 2% | 5% | 4% | 4% | 0% | -3% | -2% | 2% | 7% | 11% | 4% | -1% | -5% | -6% | -10% |
| R <sub>f</sub> VALUE | 92  | 93 | 89 | 93 | 93 | 95 | 94  | 96  | 94 | 86 | 84  | 90 | 94  | 90  | 91  | 87   |

DATE

PROJECT

TYPE

## CTL18/CTL19 SERIES | Stealth Series Track Luminaires: Dimming Specifications

- Incandescent 120V AC Dimmers adjust the light with *Forward Phase Control*, where the Dimmer “chops” the forward part of the AC Wave to deliver less or more power to the light source. No Neutral Wire Connection required.
- Electronic Low Voltage 120V AC Dimmers adjust the light with *Reverse Phase Control*, where the Dimmer “chops” the back part of the AC Wave to deliver less or more power to the light source. Neutral Wire Connection required.
- Lutron HiLume Drivers provide continuous dimming from 1%–100%. For a complete list of compatible Dimmers and Controls, visit [www.lutron.com](http://www.lutron.com)

|              |             |           | TRIAC, ELV, 0-10V DIMMING<br>(MVD Option*) |
|--------------|-------------|-----------|--|
| Manufacturer | Product     | Model     | Light Output                               |
| Leviton      | Vizia       | VPE06     | 4%-100%                                    |
| Leviton      | Decora      | 6673-10W  | 11%-100%                                   |
| Lutron       | Ariadni     | TGCL-153P | 0%-100%                                    |
| Lutron       | Diva        | DVCL-153P | 0%-100%                                    |
| Lutron       | Diva        | DVELV303P | 3%-100%                                    |
| Lutron       | Skylark     | SELV300P  | 3%-100%                                    |
| Lutron       | Maestro     | MAELV600  | 0%-100%                                    |
| Lutron       | Faetra      | FAELV500  | 7%-100%                                    |
| Lutron       | Skylark C   | SCL-153P  | 0%-100%                                    |
| Lutron       | Maestro C•L | MACL-153M | 0%-99%                                     |
| Lutron       | RA2 Select  | RRD-6CL   | 2%-98%                                     |

\*277V Triac Dimming is not available

### NOTES

1. If light is measured, then the dimming range is based on light output. If light is not measured, then the dimming range is based on the percentage of output current.
2. Testing was performed with a single fixture connected to dimmer.
3. Testing has been performed on these dimmers, but this does not imply any warranty of compatibility.
4. Dimming performance can be influenced by different loads, as well as variations in dimmer switches within the same model.
5. Dimmer maximum load rating with LED may differ from published traditional source dimmer ratings. Consult manufacturer for maximum dimmer information.
6. Consult factory for additional dimming information.