BeveLED 2.1 Recessed Downlight - BeveLED 2.1 is the most complete recessed LED downlight product family available from USAI Lighting, now with more BeveLED trim finishes, LED classic white color temperatures, innovative housing styles, and dimming driver options than before. With industry-leading performance, BeveLED 2.1 can provide a solution for any project - commercial, corporate and residential installations.

1" REGRESS DOWNLIGHT

<table>
<thead>
<tr>
<th>BeveLED 2.1 1&quot; REGRESS DOWNLIGHT</th>
<th>9 Watts</th>
<th>12 Watts</th>
<th>16 Watts</th>
<th>24 Watts</th>
<th>33 Watts</th>
<th>36 Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Rendering Index</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
</tr>
<tr>
<td>Lumens per Watt</td>
<td>100</td>
<td>74</td>
<td>93</td>
<td>73</td>
<td>93</td>
<td>72</td>
</tr>
<tr>
<td>Source Lumens</td>
<td>1150</td>
<td>900</td>
<td>1300</td>
<td>1025</td>
<td>1725</td>
<td>1350</td>
</tr>
<tr>
<td>Delivered Lumens</td>
<td>850</td>
<td>675</td>
<td>1125</td>
<td>875</td>
<td>1475</td>
<td>1150</td>
</tr>
<tr>
<td>Color Consistency</td>
<td>2-Step MacAdam Ellipse</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CCT MULTIPLIER

<table>
<thead>
<tr>
<th>2200K</th>
<th>2700K</th>
<th>3000K</th>
<th>3500K</th>
<th>4000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Rendering Index</td>
<td>80+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
</tr>
<tr>
<td>Multiplier for Lumen Output</td>
<td>0.72</td>
<td>0.94</td>
<td>0.78</td>
<td>1.00</td>
</tr>
</tbody>
</table>

90+ CRI is not available for 2200K, 3500K, or 4000K.

DEEP REGRESS DOWNLIGHT

<table>
<thead>
<tr>
<th>BeveLED 2.1 DEEP REGRESS DOWNLIGHT</th>
<th>9 Watts</th>
<th>12 Watts</th>
<th>16 Watts</th>
<th>24 Watts</th>
<th>33 Watts</th>
<th>36 Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Rendering Index</td>
<td>80+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
</tr>
<tr>
<td>Lumens per Watt</td>
<td>76</td>
<td>60</td>
<td>75</td>
<td>58</td>
<td>74</td>
<td>58</td>
</tr>
<tr>
<td>Source Lumens</td>
<td>1150</td>
<td>900</td>
<td>1300</td>
<td>1025</td>
<td>1725</td>
<td>1350</td>
</tr>
<tr>
<td>Delivered Lumens</td>
<td>675</td>
<td>550</td>
<td>900</td>
<td>700</td>
<td>1175</td>
<td>925</td>
</tr>
<tr>
<td>Color Consistency</td>
<td>2-Step MacAdam Ellipse</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CCT MULTIPLIER

<table>
<thead>
<tr>
<th>2200K</th>
<th>2700K</th>
<th>3000K</th>
<th>3500K</th>
<th>4000K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Rendering Index</td>
<td>80+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
<td>90+ CRI</td>
</tr>
<tr>
<td>Multiplier for Lumen Output</td>
<td>0.72</td>
<td>0.94</td>
<td>0.78</td>
<td>1.00</td>
</tr>
</tbody>
</table>

90+ CRI is not available for 2200K, 3500K, or 4000K.
**ORDERING INFORMATION**

**HOW TO SPECIFY**

Ordering Example: Specify trim code and housing code to order: 3110W - B1, S, 10 - LSTD4 - 9012 - C3 - 27KS - 50 - NC - 277V - DIML2 - CB27

<table>
<thead>
<tr>
<th>TRIM ORDERING INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIM OPTION</td>
</tr>
<tr>
<td>3110 Square Downlight 1&quot; Regress</td>
</tr>
<tr>
<td>EML Internal Emergency Test Switch 2</td>
</tr>
<tr>
<td>TZ 6&quot; TechZone ceiling compatible (NCSM only)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DEEP REGRESS DOWNLIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Wet location 1</td>
</tr>
<tr>
<td>EML Internal Emergency Test Switch 2</td>
</tr>
<tr>
<td>TZ 6&quot; TechZone ceiling compatible (NCSM only)</td>
</tr>
</tbody>
</table>

1 Wet location, use with B1 and B2 trims only.
2 See table on page 3.

**HOUSING ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>HOUSING CODE</th>
<th>WATTAGE</th>
<th>ENGINE CODE</th>
<th>COLOR</th>
<th>REFLECTOR</th>
<th>HOUSING TYPE</th>
<th>SELECT ONE VOLTAGE</th>
<th>DIMMING DRIVER OPTIONS</th>
<th>ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSTD4 9009 9W LED</td>
<td>22KS 2000K, 85+ CRI</td>
<td>C3</td>
<td>-</td>
<td>-</td>
<td>012V 277V</td>
<td>For use with 120V or 277V</td>
<td>DIML2 0-10V dim, 10% (provided standard)</td>
<td>CB27 27&quot; C-Channel Bars</td>
</tr>
<tr>
<td>9012 12W LED</td>
<td>27KS 2700K, 85+ CRI</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>25 25° beam</td>
<td>FT Flat Housing New Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9016 16W LED</td>
<td>30KS 3000K, 85+ CRI</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>50 50° beam</td>
<td>FFC Flat Housing Chicago Plenum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9024 24W LED</td>
<td>40KS 4000K, 85+ CRI</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>90 90° beam</td>
<td>FTC Flat Housing Chicago Plenum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9033 35W LED</td>
<td>27KS 2700K, 95+ CRI</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>NC New Construction, Narrow Width</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9036 36W LED E1</td>
<td>30KS 3000K, 95+ CRI</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>NC New Construction, all in one</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DEEP REGRESS DOWNLIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>W Wet location 1</td>
</tr>
<tr>
<td>EML Internal Emergency Test Switch 2</td>
</tr>
<tr>
<td>TZ 6&quot; TechZone ceiling compatible (NCSM only)</td>
</tr>
</tbody>
</table>

See performance chart for precise lumen information.

1 Not available with E1 light engine
1" REGRESS DOWNLIGHT TRIMS

**1" Regress**

<table>
<thead>
<tr>
<th>Housing</th>
<th>1&quot; Regress - 6&quot; TechZone Ceiling Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT, FTIC, FTCP</td>
<td>N/A</td>
</tr>
<tr>
<td>NCSM*</td>
<td>Above ceiling access required</td>
</tr>
<tr>
<td>NC</td>
<td>Through aperture</td>
</tr>
<tr>
<td>NC Wet Location</td>
<td>Through aperture</td>
</tr>
<tr>
<td>CP</td>
<td>N/A</td>
</tr>
<tr>
<td>IC</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**EM fixtures that are provided with an integral test switch are shipped with a hole in the glass lens for access. Refer to “EMERGENCY SOLUTIONS” chart to find out which fixtures have an integral test switch.**

**BeveLED®**

3110 - 1" Regress Emergency Solutions

**3110 - Deep Regress Emergency Solutions**

**HOUSING INFORMATION**

**NC, IC AND CP HOUSINGS BELOW ARE FOR USE WITH 1" REGRESS TRIMS & DEEP REGRESS TRIMS**

**New Construction Universal Style Housing - NC**

<table>
<thead>
<tr>
<th>Housing</th>
<th>1&quot; Regress - 6&quot; TechZone Ceiling Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT, FTIC, FTCP</td>
<td>N/A</td>
</tr>
<tr>
<td>NCSM*</td>
<td>Above ceiling access required</td>
</tr>
<tr>
<td>NC</td>
<td>Through aperture</td>
</tr>
<tr>
<td>NC Wet Location</td>
<td>Through aperture</td>
</tr>
<tr>
<td>CP</td>
<td>N/A</td>
</tr>
<tr>
<td>IC</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Chicago Plenum (24W and less) - CP**

<table>
<thead>
<tr>
<th>Housing</th>
<th>1&quot; Regress - 6&quot; TechZone Ceiling Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT, FTIC, FTCP</td>
<td>N/A</td>
</tr>
<tr>
<td>NCSM*</td>
<td>Above ceiling access required</td>
</tr>
<tr>
<td>NC</td>
<td>Through aperture</td>
</tr>
<tr>
<td>NC Wet Location</td>
<td>Through aperture</td>
</tr>
<tr>
<td>CP</td>
<td>N/A</td>
</tr>
<tr>
<td>IC</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Chicago Plenum (33W and 36W) - CP**

<table>
<thead>
<tr>
<th>Housing</th>
<th>1&quot; Regress - 6&quot; TechZone Ceiling Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT, FTIC, FTCP</td>
<td>N/A</td>
</tr>
<tr>
<td>NCSM*</td>
<td>Above ceiling access required</td>
</tr>
<tr>
<td>NC</td>
<td>Through aperture</td>
</tr>
<tr>
<td>NC Wet Location</td>
<td>Through aperture</td>
</tr>
<tr>
<td>CP</td>
<td>N/A</td>
</tr>
<tr>
<td>IC</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**HOUSINGS BELOW ARE FOR USE WITH 1" REGRESS TRIMS ONLY (FT, FTIC, FTCP AND NCSM ARE NOT AVAILABLE FOR USE WITH DEEP REGRESS)**

**New Construction Flat Housing - FT**

<table>
<thead>
<tr>
<th>Housing</th>
<th>1&quot; Regress - 6&quot; TechZone Ceiling Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT, FTIC, FTCP</td>
<td>N/A</td>
</tr>
<tr>
<td>NCSM*</td>
<td>Above ceiling access required</td>
</tr>
<tr>
<td>NC</td>
<td>Through aperture</td>
</tr>
<tr>
<td>NC Wet Location</td>
<td>Through aperture</td>
</tr>
<tr>
<td>CP</td>
<td>N/A</td>
</tr>
<tr>
<td>IC</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**New Construction Flat Housing IC-Rated / Airtight - FTIC (up to 16W maximum)**

<table>
<thead>
<tr>
<th>Housing</th>
<th>1&quot; Regress - 6&quot; TechZone Ceiling Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT, FTIC, FTCP</td>
<td>N/A</td>
</tr>
<tr>
<td>NCSM*</td>
<td>Above ceiling access required</td>
</tr>
<tr>
<td>NC</td>
<td>Through aperture</td>
</tr>
<tr>
<td>NC Wet Location</td>
<td>Through aperture</td>
</tr>
<tr>
<td>CP</td>
<td>N/A</td>
</tr>
<tr>
<td>IC</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**New Construction - Narrow Width - NCSM**

<table>
<thead>
<tr>
<th>Housing</th>
<th>1&quot; Regress - 6&quot; TechZone Ceiling Compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT, FTIC, FTCP</td>
<td>N/A</td>
</tr>
<tr>
<td>NCSM*</td>
<td>Above ceiling access required</td>
</tr>
<tr>
<td>NC</td>
<td>Through aperture</td>
</tr>
<tr>
<td>NC Wet Location</td>
<td>Through aperture</td>
</tr>
<tr>
<td>CP</td>
<td>N/A</td>
</tr>
<tr>
<td>IC</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**EM fixtures that are provided with an integral test switch are shipped with a hole in the glass lens for access. Refer to “EMERGENCY SOLUTIONS” chart to find out which fixtures have an integral test switch.**

**EM fixtures that are provided with an integral test switch are shipped with a hole in the glass lens for access. Refer to “EMERGENCY SOLUTIONS” chart to find out which fixtures have an integral test switch.**

**3110 - Deep Regress Emergency Solutions**

* NCSM + DIML8 cannot be offered with EM, 347V cannot be offered with EM

**USAI® Lighting**

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info@usailighting.com
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New Windsor, NY 12553
T 845-665-8500
F 845-561-1130
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Revised 12/27/2018
FIELD REPLACEABLE LED LIGHT ENGINE: is serviceable through the aperture without tools. All USAI Lighting Classic White light engines feature industry leading color consistency within a 2-Step MacAdam’s ellipse. 2200K is not available with E1 light engine.

FIELD REPLACEABLE DIMMING DRIVER: 0-10V, 100%-10% solid state electronic constant current DIML2 dimming driver with a high power factor provided standard and sources 2mA. Specify 120V or 277V. Driver complies with IEEEC62.41 surge protection. Multiple dimming driver options are available; some on-time delay may be experienced, depending on control system used.

EMERGENCY: Fixtures provided with an integral test switch are provided with a hole in the glass lens as per drawing. Fixtures provided with a remote test switch are provided with a 24” lead length for location of the test switch. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting. SPECIAL NOTE FOR NCSM HOUSING: DIML8 cannot be combined with EM options in NCSM housing. See emergency solutions chart for more information on EM test switches and servicing.

HOUSING: 1” regress fixture housing options are NC, IC, CP, FT, FTIC, FTCP and NCSM. DEEP regress fixture housing options are NC, IC, and CP only. FT, FTIC, FTCP and NCSM housings are not available with DEEP regress trims. All-Ways Square® (covered by US Pat. No: US 7,832,889) housing allows alignment of square aperture (up to 20° rotation) after housing installation and prior to finish ceiling installation. Fabricated of 20 ga. galvanized steel with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring. FTIC housing is IC-rated up to 16W maximum. IC-rated housings for use with 9W, 12W, and 16W light engines only are rated for direct contact with spray foam insulation of R-42 or less. IC rated housing is Not available with E1 light engine. NCSM with TZ option is compatible with 6” TechZone ceiling systems. When using DIML8, NCSM housing can NOT be used with thru-branch circuit wiring.

MOUNTING: Butterfly brackets and adjustable nailer bars with integral nails provided. Nailer bars are extendible from 14” to 24” centers. C-channel bars are optionally available for acoustical ceiling applications.

MAXIMUM CEILING THICKNESS: As noted on housing drawings.

CEILING CUT OUT: 5-1/16” x 5-1/16”

WARRANTY: Based on IESNA LM80-2008, BeveLED 2.1 has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment.

LISTINGS: Dry/Damp. Wat location option available with B1 trim only. NRTL/CSA-US tested to UL standards. IBEW union made. Energy Star Qualified under Luminaires Specification V2.0. Please see Energy Star website for exact model #s included in the listing. Please note that the following options are not Energy Star qualified: 22KS, 27KH, and 30KH light engines; E1 light engines; B-13, B-21, and AB trim styles; Frosted lens and EM options. CEC/Title 24 Compliant up to 16W maximum. See CEC website for exact models included.

NOTES:
- Not for use in corrosive environment.
- Use of pressure washer voids warranty.

PHOTOMETRICS: Consult factory or website for IES files. Tested in accordance with IESNA LM79.
DIMMING DRIVER WIRING SCHEMES:

NOTES:
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS

1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D2 / DIML2 LED: 0-10V Dimming Driver Wiring (Dims down to 10%)

D2 / DIML2 Dimmer Compatibility Chart

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Output Range Per Dimmer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V / 277V</td>
<td>Crestron iLux dimmer expansion module</td>
<td>CLS-EXP-DIMFLV</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Crestron DIN Rail dimmer</td>
<td>DIN-4DIMFLV4</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Crestron DIN Rail analog output module</td>
<td>DIN-A08</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Crestron 8 Channel dimmer module</td>
<td>GLX-DIMFLV8</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Crestron 8 Channel dimmer module</td>
<td>GLXP-DIMFLV8</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Leviton IllumaTech dimmer</td>
<td>IP710-DLX</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Lightolier (Philips) Vega</td>
<td>V2000FAMU</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Lutron Diva</td>
<td>DVT-V-XX</td>
<td>100% - 10%</td>
</tr>
</tbody>
</table>

* NOTE: Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

NOTE:
If switched, non-dimming operation is desired, cap off purple and gray wires individually at installation. Do NOT cap purple and gray wires together.

IMPORTANT SAFETY INSTRUCTIONS
- SAVE THESE INSTRUCTIONS

1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D2 / DIML2 LED: 0-10V Dimming Driver Wiring (Dims down to 10%)

D2 / DIML2 Dimmer Compatibility Chart

<table>
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<tr>
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<th>Product</th>
<th>Part Number</th>
<th>Output Range Per Dimmer*</th>
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<td>Crestron iLux dimmer expansion module</td>
<td>CLS-EXP-DIMFLV</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Crestron DIN Rail dimmer</td>
<td>DIN-4DIMFLV4</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
<td>Crestron DIN Rail analog output module</td>
<td>DIN-A08</td>
<td>100% - 10%</td>
</tr>
<tr>
<td></td>
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* NOTE: Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

NOTE:
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NOTES:
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2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D3 / DIML3 LED: Lutron Hi-Lume A-Series 2 Wire Fwd Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETC Sensor+ Cabinet</td>
<td>ELV10</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 26</td>
<td>1 – 13</td>
</tr>
<tr>
<td>ETC Unison DRd Cabinet</td>
<td>ELV10</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 26</td>
<td>1 – 13</td>
</tr>
<tr>
<td>Lutron Maestro Wireless® 600W dimmer</td>
<td>MRF2-6ND-120-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 8</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Lutron Maestro Wireless® 1000W dimmer</td>
<td>MRF2-10ND-120-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 13</td>
<td>1 – 6</td>
</tr>
<tr>
<td>Lutron HomeWorks® QS adaptive dimmer</td>
<td>HQRD-6NA-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 8</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Lutron HomeWorks® QS 600W dimmer</td>
<td>HQRD-6ND-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 8</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Lutron HomeWorks® QS 1000 W dimmer</td>
<td>HQRD-10ND-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 13</td>
<td>1 – 6</td>
</tr>
<tr>
<td>Lutron Caseta Wireless® Pro 1000W dimmer</td>
<td>PD-10NXD-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 13</td>
<td>1 – 6</td>
</tr>
<tr>
<td>Lutron Stanza® dimmer</td>
<td>SZ-6ND-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 8</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Lutron RadioRA® 2 adaptive dimmer</td>
<td>RRD-6NA-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 8</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Lutron RadioRA® 2 1000 W dimmer</td>
<td>RRD-10ND-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 6</td>
<td>1 – 3</td>
</tr>
<tr>
<td>Lutron myRoom DIN power module</td>
<td>MQSE-4A1-D</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 6</td>
<td>1 – 3</td>
</tr>
<tr>
<td>Lutron Homeworks® DIN power module</td>
<td>LGSE-4A1-D</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 6</td>
<td>1 – 3</td>
</tr>
<tr>
<td>Lutron GRAFIK Eye® QS control unit</td>
<td>QSGR-, QSGRJ-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 26</td>
<td>1 – 13</td>
</tr>
<tr>
<td>Lutron GRAFIK Eye® 3000 control unit</td>
<td>GRX-3100-, GRX-3500-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 26</td>
<td>1 – 13</td>
</tr>
<tr>
<td>Lutron RPM-4U module</td>
<td>HW-RPM-4U-120, LP-RPM-4U-120</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 26</td>
<td>1 – 13</td>
</tr>
<tr>
<td>Lutron GP dimming panels</td>
<td>Various</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 26</td>
<td>1 – 13</td>
</tr>
<tr>
<td>Lutron Ariadni CL 250W dimmer</td>
<td>AYCL-253P-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 8</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Lutron Diva CL 250W dimmer</td>
<td>DVCL-253P-, DVSCCL-253P-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 8</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Lutron Grafik T CL or RF CL dimmer</td>
<td>GT-250M-, GTJ-250M-</td>
<td>120V Only</td>
<td>39W and Less, 40W - 80W</td>
<td>1 – 8</td>
<td>1 – 4</td>
</tr>
</tbody>
</table>

* NOTE: Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.
DIMMING DRIVER WIRING SCHEMES:

NOTES:
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

IMPORTANT SAFETY INSTRUCTIONS
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5. Cap any wires not used separately (not together).

D4E / DIML4E LED: Lutron 5 Series EcoSystem LED Driver / LED Dimming Driver Wiring (Dims down to 5%)

D4E / DIML4E EcoSystem Dimmer Compatibility Chart

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>PowPak dimming module</td>
<td>RMJ-ECO32-DV-B</td>
<td>100%–5%</td>
<td>1–32</td>
<td>1 – 16</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energi Savr Node</td>
<td>QSN-1ECO-S, QSN-2ECO-S</td>
<td>100%–5%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye QS (120V ONLY)</td>
<td>QSGRJ-_E, QSGR-_E</td>
<td>100%–5%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
<tr>
<td>Lutron</td>
<td>Quantum</td>
<td>Various</td>
<td>100%–5%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

D4H / DIML4H LED: Lutron H Series EcoSystem LED Driver with Fade to Black (dims down to 1%)

D4H / DIML4H EcoSystem Dimmer Compatibility Chart

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>PowPak dimming module</td>
<td>RMJ-ECO32-DV-B</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1 – 16</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energi Savr Node</td>
<td>QSN-1ECO-S, QSN-2ECO-S</td>
<td>100%–1%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye QS (120V ONLY)</td>
<td>QSGRJ-_E, QSGR-_E</td>
<td>100%–1%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
<tr>
<td>Lutron</td>
<td>Quantum</td>
<td>Various</td>
<td>100%–1%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

D4E / DIML4E and D4H / DIML4H
EcoSystem CONTROLS

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**NOTES:**
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

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**D4E / DIML4E LED: Lutron 5 Series EcoSystem LED Driver / LED Dimming Driver Wiring (Dims down to 5%)**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>PowPak dimming module</td>
<td>RMJ-ECO32-DV-B</td>
<td>100%–5%</td>
<td>1–32</td>
<td>1 – 16</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energi Savr Node</td>
<td>QSN-1ECO-S, QSN-2ECO-S</td>
<td>100%–5%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye QS (120V ONLY)</td>
<td>QSGRJ-_E, QSGR-_E</td>
<td>100%–5%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
<tr>
<td>Lutron</td>
<td>Quantum</td>
<td>Various</td>
<td>100%–5%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

**D4H / DIML4H LED: Lutron H Series EcoSystem LED Driver with Fade to Black (dims down to 1%)**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Control*</th>
<th>Fixture Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>PowPak dimming module</td>
<td>RMJ-ECO32-DV-B</td>
<td>100%–1%</td>
<td>1–32</td>
<td>1 – 16</td>
</tr>
<tr>
<td>Lutron</td>
<td>Energi Savr Node</td>
<td>QSN-1ECO-S, QSN-2ECO-S</td>
<td>100%–1%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
<tr>
<td>Lutron</td>
<td>GRAFIK Eye QS (120V ONLY)</td>
<td>QSGRJ-_E, QSGR-_E</td>
<td>100%–1%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
<tr>
<td>Lutron</td>
<td>Quantum</td>
<td>Various</td>
<td>100%–1%</td>
<td>1–64</td>
<td>1 – 32</td>
</tr>
</tbody>
</table>

* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.
DIMMING DRIVER COMPATIBILITY SELECTION GUIDE
D6A / DIML6A and D6E / DIML6E
D6B / DIML6B and D6F / DIML6F

IMPORTANT SAFETY INSTRUCTIONS
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5. Cap any wires not used separately (not together).

D6A / DIML6A and D6E / DIML6E LED Dimming Compatibility Table
D6A / DIML6A and D6E / DIML6E are linearly programmed dimming drivers for use with the dimming controls listed in the table below.
D6A / DIML6A = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1%
D6E / DIML6E = EldoLED ECOdrive 0-10V control dims from 100% to 1%

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutron</td>
<td>Diva</td>
<td>DYT/NFTV with PP-20</td>
<td>99% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova T</td>
<td>NFTTV with PP-20</td>
<td>99% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Energi Savr Node</td>
<td>QSN-4T6-S</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>GP Dimming Panels</td>
<td>TVM2 Module</td>
<td>99% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Interfaces</td>
<td>GRX-TVI w/ GRX3503</td>
<td>100% - 0.1% 1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Sensor Switch</td>
<td>nL0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enlighted</td>
<td>Control Unit</td>
<td>CU-3E-1R</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
</tbody>
</table>

D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with the dimming controls listed in the table below.
D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1%
D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Part Number</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bush-Jaeger</td>
<td>Electronic potentiometer</td>
<td>Z112U-101</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Jung</td>
<td>Electronic potentiometer</td>
<td>240-10</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Leviton</td>
<td>Iluma Tech dimmer</td>
<td>IP770-GLX</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Lightolier (Philips)</td>
<td>Momentum (120V ONLY)</td>
<td>ZP60FAM120</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Merten</td>
<td>Electronic potentiometer</td>
<td>5729</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Pass &amp; Seymour</td>
<td>Titan</td>
<td>CD4FB-W</td>
<td>100% - 0.1% 1%</td>
<td>Enlighted compatible.</td>
</tr>
<tr>
<td>Watt Stopper</td>
<td>Miro</td>
<td>DCL1V</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Synergy</td>
<td>Wallbox Dimmers</td>
<td>ISD BC</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>ABB</td>
<td>i-bus</td>
<td>SD/S 2.16.1</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>Modules</td>
<td>GLX-DIMFLV8, GLX-DIMFLV8</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>Green Light Power Pack</td>
<td>GLPP-DIMFLVEX-P, GLPP-1DIMFLV2EX-P, GLPP-1DIMFLV3EX-P</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>DIN Rail Analog Output Module</td>
<td>DIN-A08</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>DIN Rail 0-10V Fluorescent Dimmer</td>
<td>DIN-4DIMFLV4</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Crestron</td>
<td>iLux 0-10V Dimmer Expansion Module</td>
<td>CLS-EXP-DIMFLV</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
<tr>
<td>Enlighted</td>
<td>Control Unit</td>
<td>CU-3E-1R</td>
<td>100% - 0.1% 1%</td>
<td></td>
</tr>
</tbody>
</table>

DIMMING DRIVER WIRING SCHEMES:
NOTES: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

D6 / DIML6
0-10V DIMMING W/RELAY TO SWITCH POWER

D6 / DIML6
0-10V DIMMING (NO RELAY)
DIMMING DRIVER WIRING SCHEMES:

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D7 / DIML7 and D7E Dimming Driver Wiring
D7 / DIML7 and D7E are linearly programmed dimming drivers.
D7 / DIML7 = EldoLED SOLOdrive DALI control dims from 100% to 0.1%
D7E = EldoLED ECOdrive DALI control dims from 100% to 1%

D7 / DIML7 / D7E
DALI CONTROLS

WALL CONTROL
(BY OTHERS)

LINE
NEUTRAL

ORANGE
ORANGE/WHITE (+)
BLACK
WHITE
GREEN
GND

NOTES:
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DIMMING DRIVER WIRING SCHEMES:

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D8 / DIML8 and D8E Dimming Driver Wiring

D8 / DIML8 and D8E are linearly programmed dimming drivers.
D8 / DIML8 = EldoLED POWERdrive DMX control dims from 100% to 0.1%
D8E = EldoLED POWERdrive DMX control dims from 100% to 1%

DMX BUS - XLR CABLE OR
SHIELDED DATA CABLE

The data cable used must meet the following requirements:
• type: shielded, 2-conductor twisted pair
• maximum capacitance between conductors: 30 pF/ft
• maximum capacitance between conductor and shield: 55 pF/ft
• maximum resistance: 0.02 ohms/ft
• normal impedance: 100-140 ohms
• conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances. NOTE: DMX link termination device (by others) should be used on last fixture in line on a circuit to avoid signal loss.
DIMMING DRIVER WIRING SCHEMES:

NOTES:
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4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
5. Cap any wires not used separately (not together).

D15 / DIML15 LED: 0-10V, 347V Dimming Driver Wiring (Dims down to 1%) 347V Only

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product Description</th>
<th>Dimmed Light Output Range</th>
<th>Qty Fixtures Per Dimmer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acuity</td>
<td>Synergy ISD-BC</td>
<td>100% - 1%</td>
<td></td>
</tr>
<tr>
<td>Douglas Lighting</td>
<td>WPN-5721, WPN-5822</td>
<td>100% - 1%</td>
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<tr>
<td>Hubbell</td>
<td>Light Hawk LHD-IRS-N347-xx</td>
<td>100% - 1%</td>
<td></td>
</tr>
<tr>
<td>Leviton</td>
<td>IllumaTech IP710-DLZ with 347V relay</td>
<td>100% - 1%</td>
<td></td>
</tr>
<tr>
<td>Leviton</td>
<td>Centura Fluorescent Control System</td>
<td>100% - 1%</td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Nova NFTV-* dimmer plus 347V relay</td>
<td>100% - 1%</td>
<td></td>
</tr>
<tr>
<td>Lutron</td>
<td>Diva DVTV-* dimmer plus 347V relay</td>
<td>100% - 1%</td>
<td></td>
</tr>
</tbody>
</table>

Use source current per fixture specification sheet to determine number of fixtures per dimmer. Max number of fixtures is limited by dimmer load rating.

* NOTE: Refer to dimmer manufacturer’s documentation for installation instructions and circuit details.

D15 / DIML15
0-10V DIMMING W/RELAY TO SWITCH POWER

NOTE:
If switched, non-dimming operation is desired, cap off purple and gray wires individually at installation. Do NOT cap purple and gray wires together.
D19 / DIML19 LED: Hatch XTC series or equivalent - Forward and Reverse Phase Dimming Driver. Dims down to 1% contingent upon dimmer specification and load. 120V only.

**DIMMING DRIVER WIRING SCHEMES:**

**NOTES:**
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

**IMPORTANT SAFETY INSTRUCTIONS**
- **SAVE THESE INSTRUCTIONS**
- Keep these instructions in a safe place for future reference.
- Only qualified electricians in accordance to local codes should install these fixtures.
- De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- Cap any wires not used separately (not together).

**D19 / DIML19 LED:** Hatch XTC series or equivalent - Forward and Reverse Phase Dimming Driver. Dims down to 1% contingent upon dimmer specification and load. 120V only.

**DIMMER: 2 WIRE PHASE DIMMING**

**FIXTURE**

**NOTE:** Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer’s documentation for details.

**IMPORTANT SAFETY INSTRUCTIONS**
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- Keep these instructions in a safe place for future reference.
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- Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- Cap any wires not used separately (not together).

**D19 / DIML19 Dimmer Compatibility Chart**

**120V ONLY**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Qty Fixtures Per Dimmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leviton</td>
<td>IPL06-10Z Use fixture wattage per</td>
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<tr>
<td></td>
<td>6613-xxx fixture specification</td>
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</tr>
<tr>
<td>Lutron</td>
<td>S-600P</td>
<td>sheet to determine</td>
</tr>
<tr>
<td></td>
<td>S-603P</td>
<td>number of fixtures</td>
</tr>
<tr>
<td></td>
<td>DV-600P per dimmer. Max number</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DV-603P of fixtures is limited by</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DVSC-603P dimmer load rating.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CT-600P</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CT-603P</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Product</th>
<th>Qty Fixtures Per Dimmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leviton</td>
<td>8615</td>
<td>Use fixture wattage per</td>
</tr>
<tr>
<td></td>
<td>IPE04-xxx fixture specification</td>
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<tr>
<td>Lutron</td>
<td>NTELV-300 sheet to determine</td>
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<tr>
<td></td>
<td>NTELV-600 number of fixtures</td>
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<tr>
<td></td>
<td>SELV-300P per dimmer. Max number</td>
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</tr>
<tr>
<td></td>
<td>SELV-303P of fixtures is limited by</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DVELV-300P dimmer load rating.</td>
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</tr>
<tr>
<td></td>
<td>DVELV-303P</td>
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</tbody>
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