Lumination™ LED Luminaires

2’ x 4’ LED Recessed Luminaire
LVT 24 Series - Volumetric T-Grid, Enhanced Generation B

Product Description:
GE Lumination™ LVT Series Recessed LED Luminaires bring a three-dimensional volumetric designer touch to any T-Grid drop ceiling landscape. By providing high uniformity, excellent efficiency and reduced glare the LVT is ideal for commercial office, education or healthcare applications. The newly rerated lumen maintenance of greater than L85 at 50,000 hours operation offers even lower maintenance costs and now optional “High Performance” products offer DLC premium. LVT is suitable for indoor general lighting for both new construction and retrofit when the luminaire is replaced. With a beautiful three-dimensional look, LVT offers an easy-to-install LED solution. A matte finish, curved diffused lens with no unsightly ribs, smooth uniform light (no pixels or stripes), no dark end caps and delineated details create visual interest in any ceiling. All fixtures available with Daintree’s complete portfolio of wireless control options for literally any use case. Daintree One and Daintree EZ Connect, offer the ability to upgrade disconnected fixtures into a complete enterprise based energy management solution. This allows end users to build a digital ceiling with already installed infrastructure today, tomorrow, or whenever you are ready for the productivity benefits of IoT.

Performance Summary:

Light Output Range: 3000-7200 lumens
CRI: 80+, R9>0
CCT: 3500K/4000K/5000K

Input Voltage: 120-277V, 347V
Wattage Range: Standard: 24.5-60.0 watts, High Performance 22.0-36.5 watts
Luminaire Lumen Depreciation: L85@50,000 hours

Ordering Information:
L VT 2 4 B XX MM L T W H T E

<table>
<thead>
<tr>
<th>FAMILY</th>
<th>FIXTURE TYPE</th>
<th>GENERATION</th>
<th>VOLTAGE</th>
<th>NOMINAL LUMENS</th>
<th>DISTRIBUTION</th>
<th>CRl/CRT</th>
<th>CONTROLS</th>
<th>MOUNTING</th>
<th>FINISH</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LVT = Volumetric T-Grid</td>
<td>24 = 2’ x 4’</td>
<td>2 = 2nd Generation</td>
<td>D = 347V</td>
<td>XX = Nominal Lumen Level</td>
<td>LT = Grid</td>
<td>835 = 80CRI, 3500K</td>
<td>LT</td>
<td>WHTE</td>
<td>White</td>
<td></td>
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</table>

High Performance:

<table>
<thead>
<tr>
<th>EXAMPLE CONFIGURATIONS</th>
<th>LUMINAIRE LUMENS</th>
<th>LUMINAIRE TOTAL SYSTEM WATTSP</th>
<th>LUMINAIRE LPW</th>
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<tbody>
<tr>
<td>LVT24B030MM_VQLTWHTE</td>
<td>3000</td>
<td>24.5</td>
<td>122</td>
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<tr>
<td>LVT24B040MM_VQLTWHTE</td>
<td>4000</td>
<td>33.5</td>
<td>119</td>
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<tr>
<td>LVT24B048MM_VQLTWHTE</td>
<td>4800</td>
<td>43.0</td>
<td>112</td>
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<tr>
<td>LVT24B060MM_VQLTWHTE</td>
<td>6000</td>
<td>47.0</td>
<td>128</td>
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<td>LVT24B072MM_VQLTWHTE</td>
<td>7200</td>
<td>60.0</td>
<td>120</td>
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</table>

Ordering Notes:
1. Contact manufacturer for lead times
2. Most commonly ordered for Daintree Enterprise Wireless Enabled
3. Test switch is remote mounted in the ceiling, EL option not available in 347V
4. Contact manufacturer prior to ordering to confirm application
5. Most Standard and HP (High Performance) base SKUs are DLC, there are exceptions for 34V and EL for meeting PF and/or THD results. Please check the DLC QPL.
6. 6000 and 7000 lumens not available in High Performance
7. See product specifications section: Controls on page 2 for additional Daintree system details

New Generation! Enhanced Performance, Upgraded Specifications!

Product Dimensions:

UL Version: A = 23.8 in B = 47.8 in C = 2.7 in

Certified by:

Daintree Networks

dlc.gov

Please refer to the DLC QPL website for the latest and most complete information.

www.designlights.org/QPL

Limited Warranty: 5 Years

Career powered by GE
Photometric Data: Lumination™ 2’ x 4’ LVT24 Series - Volumetric T-Grid, Enhanced Generation B

### Photometric Data:
- **Product Specifications:**
  - **Weight:** Less than 15 pounds
  - **Lensing:** Precision formed optical assembly comprised of high specularly reflective paint
  - **Paint:** Highly reflective matte finish
  - **Weight:** <15 pounds

### Design Life & Warranty:
- **System Warranty:** 5 Year
- **Minimum Luminare Design Lifetime:** >10 Years
- **Driver Design Lifetime:** >10,000 hour life of continuous operation, >100,000 hour design parameters
- **Reliability Testing:** Components and systems evaluation

### Controls:
- **Standard Dimming:** 0-10VDC ANSI C137.x compliant
- **Minimum Dimming:** 10% of rated lumen LED drive current. Contact manufacturer for other available options
- **Optional Dimming:** Contact Manufacturer
- **Wireless Networking and Sensing Device Options**
  - **Daintree One:** Wireless fixture integrated sensor that is perfect for single fixtures or small area applications. Standalone wireless lighting controls that work independently. Comes preset from the factory, yet can be upgraded to Daintree EZ Connect and/or Daintree Enterprise in the future. Factory preset to shut off 20 minutes after the space is vacated of occupants. No daylight harvesting set in initial preset.
  - **Daintree EZ Connect:** Wireless fixture integrated sensor that is designed for room based controls where a group of fixtures communicate to each other and communicate wirelessly in chorus as a system. The advantage is simple, minimal field based commissioning. Factory preset to shut off 20 minutes after the space is vacated of occupants. No daylight harvesting set in initial preset.
  - **Daintree Enterprise:** Wireless fixture integrated sensor technology that is ideal for multi-site lighting system management. System requires software and commissioning. Monitor multiple controls, lighting, energy, HVAC with unlimited potential for other (3rd party) sensor integration. “Open on the top” means that the data from the sensors can be used by any 3rd party software supplier/developer, be it a part of a complete BMS system or simple API (Application Programming Interface or “App”). Daintree Enterprise offers a complete future proof solution from any Daintree enabled installed base of fixtures.

### Power Addition for Controls:
- *Contact Factory for specific option availability*

### Mounting:
- **Typical Mounting:** Fits standard T-Bar grid (drop ceilings)
- **Wiring Access:** ½” trade-size KOs on a removable access plate provided
- **T-Grid Clips:** T-Grid clips included on fixture body, with holes for seismic wires
- **Surface Mounting:** Surface mount kit available.

### Accessories & Options:
- **Optional Emergency Battery:** Provides 90-minutes of Emergency lighting.
- **Notes:** EL option is not available with 347V option, test button is remote mounted in the field.
- **Optional Chicago Plenum:** Openings in recessed fixture sealed per requirements for CCEA.

For more information and access to all of our resources, including our design tool visit: https://products.currentbyge.com

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### LED & Optical:
- **CRI:** >80
- **RS:** >30
- **Color Consistency:** Central limit 4-step MacAdam Ellipse with LED recipe approach for tight unit to unit color control
- **Rated Luminare Lumen Depreciation:** L85@50,000 Hours
- **TM-21 LED Data:**
  - **Standard Performance:** Calculated: L85@100,000 hrs
  - **Reported:** L85@60,000 hrs
- **Premium Performance:** Calculated: L90@100,000 hrs
  - **Reported:** L90@60,000 hrs

### Electrical System:
- **Input Voltage:** 120-277, 347 VAC
- **Input Frequency:** 50/60 Hz
- **System Power Factor (PF):** >0.9*
- **Total Harmonic Distortion (THD):** <20%
- **LED Driver Type:** Class 2
  - **PF and THD may vary with options**

### Ratings and Evaluations:
- **Operating Temperature:** -20°C to +35°C
- **Storage Temperature:** -40°C to +70°C
- **Surge Protection:** ANSI C82.77 Compliant
- **Location:** Damp
- **Safety:** U.L./C.L.U. Listed
- **Environmental:** RoHS compliant
- **Utility:** DLC™ Qualified Product Listed, check www.designtools.com/QPL for specific products

### Construction & Finish:
- **Housing:** Durable, long lasting construction. Steel, electrogalvanized, cold-rolled, commercial quality
- **Lensing:** Precision formed optical assembly comprised of high specularly reflective paint
- **Paint:** Highly reflective matte finish
- **Weight:** <15 pounds

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### Zonal Lumen Summary:

<table>
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<tr>
<th>Zone</th>
<th>Luminance</th>
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<tbody>
<tr>
<td>0-10°</td>
<td>152.79</td>
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<tr>
<td>10-20°</td>
<td>439.27</td>
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<tr>
<td>20-30°</td>
<td>669.29</td>
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<tr>
<td>30-40°</td>
<td>813.04</td>
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<tr>
<td>40-50°</td>
<td>881.97</td>
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<td>50-60°</td>
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<tr>
<td>60-70°</td>
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<tr>
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<td>130-140°</td>
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<td>140-150°</td>
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<tr>
<td>150-160°</td>
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<tr>
<td>160-170°</td>
<td>0.71</td>
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<tr>
<td>170-180°</td>
<td>0.25</td>
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</table>

### Polar Graph:

[Graph showing polar coordinates with various values indicated]

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