Lumination™ LED Luminaires

LED Recessed Luminaire
LBT24 Series - Backlit T-Grid

Product Description:
GE Lumination™ LBT Series Recessed LED Luminaires are for commercial ceilings providing high uniformity, excellent efficiency and reduced glare for T-grid ceiling applications. The lumen maintenance of greater than L70 at 50,000 hours operation, allows for lower maintenance costs. It is suitable for indoor general lighting for both new construction and retrofit luminaire replacements. The uniform light across the lens offers a distinctive, better look than traditional LED "two strip troffers". Because of the thin frame, this luminaire fills the ceiling grid square with "light." End users can see the difference and enjoy the fresh new look of an LED luminaire.

Performance Summary:
Light Output Range: 3000-7200 lumens
CRI: 80+, R9 >0
CCT: 3500K/4000K/5000K
Efficacy: 129-133 LPW
Input Voltage: 120-277V, 347V
Wattage Range: 22.5–56.0 watts
Rated Luminaire Lumen Depreciation: L70@50,000 hours
Limited Warranty: 5 Years

Ordering Information:

<table>
<thead>
<tr>
<th>FAMILY</th>
<th>FIXTURE TYPE</th>
<th>GENERATION</th>
<th>VOLTAGE</th>
<th>NOMINAL LUMENS</th>
<th>DISTRIBUTION</th>
<th>CRI/CCT</th>
<th>CONTROLS</th>
<th>MOUNTING</th>
<th>FINISH</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LBT</td>
<td>Luminart</td>
<td>1st</td>
<td>347V</td>
<td>0.33</td>
<td>Med. Lambertian</td>
<td>B35 = Bocri, 3500K</td>
<td>LT = T-Grid</td>
<td>WHITE = White</td>
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<td></td>
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<tr>
<td>LBT</td>
<td>Luminart</td>
<td>2nd</td>
<td>277V</td>
<td>0.40</td>
<td>Med. Lambertian</td>
<td>B40 = Bocri, 4000K</td>
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<td></td>
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<tr>
<td>LBT</td>
<td>Luminart</td>
<td>3rd</td>
<td>277V</td>
<td>0.53</td>
<td>Med. Lambertian</td>
<td>B50 = Bocri, 5000K</td>
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</tbody>
</table>

Example Configurations:

<table>
<thead>
<tr>
<th>LUMINAIRE LUMEN</th>
<th>LUMINAIRE TOTAL WATTS</th>
<th>LUMINAIRE LPW</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000</td>
<td>22.5</td>
<td>133</td>
</tr>
<tr>
<td>4000</td>
<td>30.0</td>
<td>133</td>
</tr>
<tr>
<td>4800</td>
<td>36.0</td>
<td>133</td>
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</table>

Certified by: [UL] [DLC] [Daintree Networks] ecomagination

Note: Test data for this product meets utility rebate consortium requirements. The consortium Name/logo is not allowed to be used until approvals are completed. This is in process and may be approved at any time. It can be checked at www.designlights.org/QPL.

Ordering Notes:
1. Contact manufacturer for lead times
2. Most commonly ordered wireless adapter
3. Contact manufacturer prior to ordering to confirm application
Product Specifications:

**LED & Optical:**
- **CRI:** >80
- **R9:** >90
- **Color Consistency:** Central limit 4-Step MacAdam Ellipse with LED recipe approach for tight unit to unit color control
- **Rated Luminaire Lumen Depreciation:** L70@50,000 Hours
- **TM-21 LED Data:**
  - Calculated: L70 >100,000 hrs
  - Reported: L70 >60,000 hrs

**Electrical:**
- **Input Voltage:** 120-277, 347 VAC
- **Input Frequency:** 50/60Hz
- **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:** -22°C to +55°C
- **Storage Temperature:** -40°C to +70°C
- **Surge Protection:** ANSI C82.77 Compliant
- **Location:** Damp
- **Safety:** UL/cUL Listed
- **Environmental:** RoHS compliant
- **Utility:** DLC™ Qualified Product Listed, check [www.designlights.org/QM](http://www.designlights.org/QM) for specific products

**Construction & Finish:**
- **Housing:** Durable, long lasting bezel construction. Steel, electrogalvanized, cold-rolled, commercial quality
- **Lensing:** Precision formed optical assembly comprised of high specularity reflective paint.
- **Paint:** Past painted powder coat finish on housing
- **Weight:** <16 pounds

**Design Life & Warranty:**
- **System Warranty:** 5 Year
- **Luminaire Design Lifetime:** >10 Years
- **Driver Design Lifetime:** >10 year 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:** 5% of rated lumen LED drive current
- **Optional Dimming:** N/A
- **Wireless Networking and Sensing Devices:**
  - Daintree Wireless enabled
  - Daintree Systems (Wireless Only)
- **Power Addition for Controls:** <2 watts
  - * 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, with holes for seismic wires
- **Surface Mounting:** Surface mount kit available

**Accessories & Options:**
- **Optional Emergency Battery:** Provides 90-minutes of Emergency lighting. Note: EL option is not available with 347V option. Initial design lumen output: 1400 lumens
- **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: [www.gelighting.com](http://www.gelighting.com)

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