Lumination™ LED Luminaires

LED Recessed Luminaire
LBR24 Series - Backlit Recessed

Product Description:
GE Lumination™ LBR 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 L85 at 50,000 hours operation, allows for lower maintenance costs. With access to the power supply through a drop down door frame, 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
CR: 80+, R9 >0
CCT: 3500K/4000K/5000K
Efficacy: 123-130 LPW/FT
Input Voltage: 120-277V, 347V
Rated Luminaire Lumen Depreciation: L85@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>LBR = Lumination Backlit T-Grid</td>
<td>24 = 2’ x 4’</td>
<td>A = 1st Generation</td>
<td>D = 347V</td>
<td>XX = Nominal Lumen Level</td>
<td>MM = Med. Lambertian</td>
<td>835 = BOCRI, 350K</td>
<td>QA000-10V Dimming</td>
<td>LT = T-Grid</td>
<td>WHITE = White</td>
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<tr>
<th>EXAMPLE CONFIGURATIONS</th>
<th>LUMINAIRE LUMENS</th>
<th>LUMINAIRE TOTAL WATTS</th>
<th>LUMINAIRE LPW</th>
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<tbody>
<tr>
<td>LBR2A024G040MB35VQLTWHITE</td>
<td>3000</td>
<td>23.0</td>
<td>130</td>
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<tr>
<td>LBR2A024G040MB40VQLTWHITE</td>
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Ordering Notes:
1. Contact manufacturer for lead times
2. Most commonly ordered wireless adapter
3. Contact manufacturer prior to ordering to confirm application

Certified by: UL Listed, Daintree Networks
Please refer to the DLC QPL website for the latest and most complete information.
www.designlights.org/QPL

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<th>ACCESSORIES</th>
<th>DESCRIPTION</th>
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<tr>
<td>Drywall mount Kit 2’ x 4’</td>
<td>GESK11</td>
<td>69523</td>
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<tr>
<td>2’ x 4’ Surface Mount kit for Backlit T-grid</td>
<td>B24 SMK</td>
<td>212463</td>
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Photometric Data: LBR24 Series - Backlit Recessed

**Product Specifications:**

**LED & Optical:**

- **CRI:** >80
- **Ra:** >0
- **Color Consistency:** Central limit 4-Step MacAdam Ellipse with LED recipe approach for tight unit to unit color control

**Rated Luminaire Lumen Depreciation:** 85%@50,000 Hours

**TM-21 LED Data:**
- Calculated: L70 >100,000 hrs
- Reported: L85 >60,000 hrs
- **Distribution:** Medium Lambertian

**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:** -20°C to +55°C
- **Storage Temperature:** -40°C to +70°C
- **Surge Protection:** ANSI C82.77 Complaint
- **Location:** Damp
- **Safety:** UL/cUL Listed
- **Environmental:** RoHS compliant
- **Utility:** DLC™ Qualified Product Listed, check [www.designlights.org/QPL](http://www.designlights.org/QPL) for specific products

**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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