



## LBT Series

### 2'x2' Backlit T-Grid

The Lumination® LBT series is ideal for commercial ceilings providing high uniformity, excellent efficiency and reduced glare for T-grid ceiling applications. 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.”

### CONSTRUCTION

<b>Housing:</b>	Durable, long lasting bezel construction. Steel, electrogalvanized, cold-rolled, commercial quality.
<b>Lens:</b>	Precision formed optical assembly comprised of high specular reflective paint
<b>Paint:</b>	Post painted powder coat finish on housing
<b>Weight:</b>	<11 pounds

### OPTICAL SYSTEM

<b>Lumens:</b>	Up to 5,000 lumens
<b>Wattage:</b>	Up to 41.0 Watts
<b>Efficacy:</b>	Up to 127 LPW
<b>CCT:</b>	3500K/4000K/5000K
<b>CRI:</b>	80+, R9 >0
<b>Color Consistency:</b>	Central limit 4-Step MacAdam Ellipse with LED recipe approach for tight unit to unit color control

### ELECTRICAL

<b>Input Voltage:</b>	120-277V, 347V
<b>Input Frequency:</b>	50/60Hz
<b>Standard Dimming Control:</b>	0-10V, Dimming
<b>Power Factor (PF)*:</b>	> 0.9%
<b>Total Harmonic Distortion (THD)*:</b>	< 20%
<b>LED Driver Type:</b>	Class 2

\* PF and THD may vary with options

### CONTROLS

<b>Dimming:</b>	Standard - 0-10V Dimming
<b>Minimum Dimming:</b>	5% of rated lumen LED Current driver
<b>Sensors:</b>	Daintree Compatible (see Ordering for additional info)

### LUMEN AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	-20°C to +35°C
STORAGE TEMPERATURE	-40°C TO +70°C

### LUMEN MAINTENANCE

LXX(10K) @ Hours 50,000 HR
L70

### ADDITIONAL FEATURES

- **Typical Mounting:** Fits standard T-Bar grid (drop ceilings)
- **Wiring Access:** 1/2" trade-size KOs on removable access plate provided
- **T-grid Clips:** T-grid clips included, with holes for seismic wires
- **Surface Mounting:** Surface mount kit available
- **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

### DESIGN LIFE & WARRANTY

- Damp Location rated
- UL/cUL Listed
- RoHS compliant
- ANSI C82.77 Compliant
- Reliability Testing: Components and systems evaluation
- Current's Limited Warranty:
- System Warranty: 5 Year
- Please refer to document [IND599](#) for more information <https://products.gecurrent.com>



### CUSTOMER NAME

Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

**LBT**    **22**    **A**    **XX**    **MM**    **LT**    **WHITE**

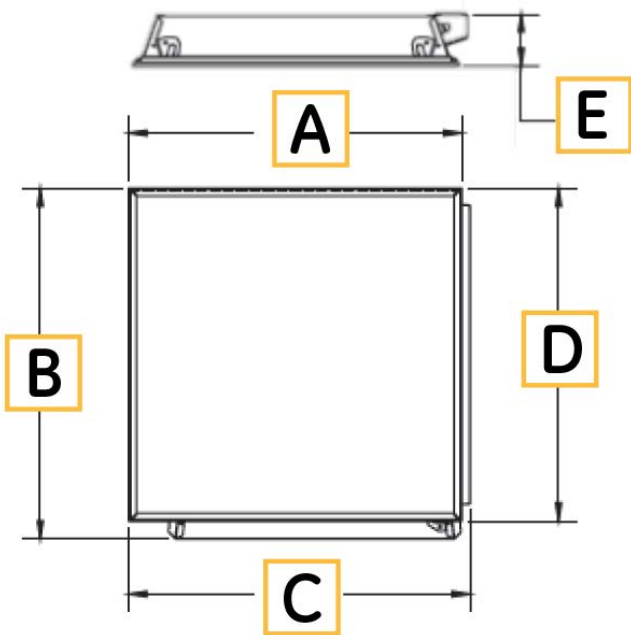
FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CCT	CONTROLS <sup>2</sup>	MOUNTING	FINISH	OPTIONS
LBT = Lumination® Backlit T-Grid	22 = 2' x 2'	A = 1 <sup>st</sup> Generation	0 = 120-277V D = 347V	XX = Nominal Lumen Level	MM = Med. Lambertain	835=80 CRI, 3500K 840=80 CRI, 4000K 850=80 CRI, 5000K <sup>1</sup>	VQ= 0-10V Dimming TQ= Daintree Wireless Enabled <sup>2</sup> TS= Daintree Wireless Enabled with Daintree WFA100 SQ = Digital Input Driver (does not have 0-10v input) that uses a field installed accessory (in the ceiling -not the fixture) that is Daintree compatible such as Daintree One, EZ Connect or Enterprise sensors	LT= T-Grid	WHITE= White	(blank) = None CP= Chicago Plenum EL= Emergency Battery B2= Emergency Bypass <sup>3</sup> – Dual Shunt Relay to be used with building generator backup systems to override dimming

### ORDERING NOTES:

- Contact manufacturer for lead times
- Most commonly ordered wireless adapter
- Not available on VQ control option

ACCESSORIES	DESCRIPTION CODE	PRODUCT CODE
Drywall Mount Kit 2x2	GESK07	67657
2x2 Surface Mount Kit for Backlit T-Grid	B22 SMK	212462

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS	LUMINAIRE TOTAL SYSTEM WATTS	LPW
LBT22A020MM835VQLTWHITE	2000	16.0	125
LBT22A033MM835VQLTWHITE	3300	26.0	127
LBT22A040MM835VQLTWHITE	4000	32.0	125
LBT22A050MM835VQLTWHITE	5000	41.0	122
LBT22A020MM840VQLTWHITE	2000	16.0	125
LBT22A033MM840VQLTWHITE	3300	26.0	127
LBT22A040MM840VQLTWHITE	4000	32.0	115
LBT22A050MM840VQLTWHITE	5000	41.0	122
LBT22A020MM850VQLTWHITE	2000	16.0	125
LBT22A033MM850VQLTWHITE	3300	26.0	127
LBT22A040MM850VQLTWHITE	4000	32.0	125
LBT22A050MM850VQLTWHITE	5000	41.0	122

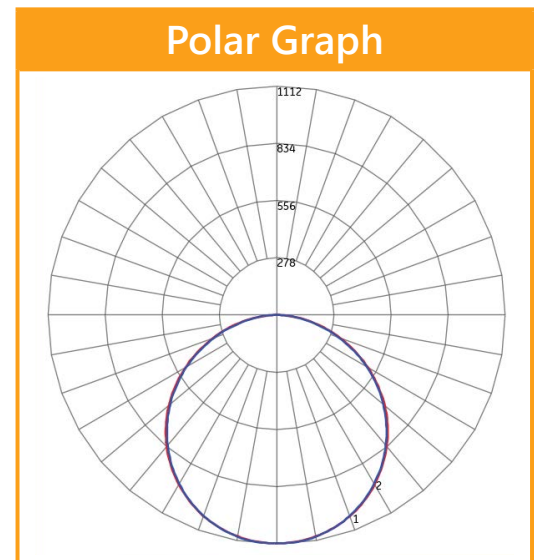
**DIMENSIONS**


**A = 23.82in (605mm)**  
**B = 25.10in (638mm)**  
**C = 24.40in (620mm)**  
**D = 23.82in (605mm)**  
**E = 3.76in (96mm)**

**PHOTOMETRIC DATA**

ZONAL LUMEN SUMMARY	
ZONE	LUMENS
0-10°	105.23
10-20°	302.53
20-30°	460.02
30-40°	557.81
40-50°	583.15
50-60°	532.83
60-70°	414.99
70-80°	251.86
80-90°	79.83
90-100°	1.97
100-110°	1.63
110-120°	1.59
120-130°	1.54
130-140°	1.52
140-150°	1.37
150-160°	1.04
160-170°	0.78
170-180°	0.29

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% OF LAMP	% OF FIXTURE
0-20°	407.76	N.A.	12.40
0-30°	867.78	N.A.	26.30
0-40°	1425.59	N.A.	43.20
0-60°	2541.57	N.A.	77.00
0-80°	3208.42	N.A.	97.20
0-90°	3288.25	N.A.	99.60
10-90°	3183.02	N.A.	96.50
20-40°	1017.82	N.A.	30.80
20-50°	1600.97	N.A.	48.50
40-70°	1530.98	N.A.	46.40
60-80°	666.85	N.A.	20.20
70-80°	251.86	N.A.	7.60
80-90°	79.83	N.A.	2.40
90-110°	3.60	N.A.	0.10
90-120°	5.19	N.A.	0.20
90-130°	6.73	N.A.	0.20
90-150°	9.62	N.A.	0.30
90-180°	11.73	N.A.	0.40
110-180°	8.13	N.A.	0.20
0-180°	3299.98	N.A.	100.00



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**DAINTREE CONTROLS****Daintree® Wireless Controls:**

There is no one size fits all for wireless controls. Some networks want simple solutions that reduce energy consumption and meet code compliance while others are more ambitious, looking to capitalize on the LED and controls savings to fund a scalable, enterprise-grade, internet of things solution. The advantage of the Daintree® Wireless platform is it's ability to integrate into indoor, outdoor and high bay environments. The Daintree® Wireless Controls provide the infrastructure to future proof your buildings, easily upgrade to Networked solutions and provide the ability to integrate into IoT solutions that are right for your business.

- **Daintree® One:** Standalone Wireless Controls
- **Daintree® EZ Connect:** Room-Based Wireless Lighting Controls
- **Daintree® Networked:** Networked Lighting Controls for Smart Building & IoT Enablement

Daintree® Wireless Controls are already integrated in your favorite Current LED fixtures. Integrating the controls into the fixture cuts labor costs considerably since the sensors are already embedded in the lighting fixtures. There's no need to get above the ceiling plenum and install additional devices. Visit our website <https://products.gecurrent.com> for a complete list of LED Fixtures.

**For Product or Technical Questions:**Email: [lightingproinfo@gecurrent.com](mailto:lightingproinfo@gecurrent.com)

Phone: +1 888 694 3533, option 2