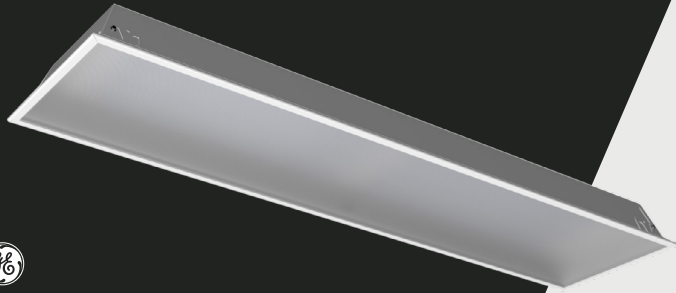


# Lumination® LED Luminaires

## LBT 14 Series - Volumetric T-Grid

### 1' x 4' LED Recessed Luminaire



CUSTOMER NAME \_\_\_\_\_

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

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

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

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.” End users can see the difference and enjoy the fresh new look of an LED luminaire.

## CONSTRUCTION

<b>Housing:</b>	Durable, long lasting steel 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>	< 16 pounds

## OPTICAL SYSTEM

<b>Lumens:</b>	Up to 6,000 lumens
<b>Wattage:</b>	Up to 52.4 Watts
<b>Efficacy:</b>	Up to 121 LPW
<b>CCT:</b>	3500K/4000K/5000K
<b>CRI:</b>	80+, R9 >0

## 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

**Dimming:** Standard - 0-10V, Dimming

**Sensors:** Daintree Compatible  
(see Ordering Information for additional info)

## LUMEN AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	-20°C to +35°C (-4°F to +95°F)
STORAGE TEMPERATURE	-40°C to +70°C (-40°F to +158°F)

## LUMEN MAINTENANCE

LXX(10K) @ Hours  
50,000 HR

L85

## MOUNTING

- **Typical Mounting:** Fits standard T-Bar Grid (drop ceilings)
- **Wiring Access:** 1/2" trade-size KO's on removable access plate provided
- **T-grid Clips:** T-grid clips included, with holes for seismic wires
- **Surface Mounting:** Surface mount kit available

## 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)
- Luminaire Design Lifetime: >10 Years
- Driver Design Lifetime: >10 year life, continuous operation
- >100,000 hour design parameters

# Lumination® LED Luminaires

LBT 14 Series - Volumetric T-Grid  
1' x 4' LED Recessed Luminaire

## Ordering Information

### CUSTOMER NAME

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

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

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

Ordering Information<sup>1</sup> (Important: Please see note 1 below) :

**LBT**   **14**   **A**   **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	14 = 1' x 4'	A = 1 <sup>st</sup> Generation	0 = 120-277V D = 347V	15 = 1500 20 = 2000 30 = 3000 40 = 4000 50 = 5000 60 = 6000	MM = Med. Lambertain	835=80 CRI, 3500K 840=80 CRI, 4000K 850=80 CRI, 5000K <sup>1</sup>	VQ= 0-10V Dimming TQ <sup>2</sup> = Daintree Wireless Enabled TS= Daintree Wireless Enabled with Daintree WFA100	LT= T-Grid	WHITE= White	(blank) = None CP= Chicago Plenum EL <sup>3</sup> = Emergency Light B2 <sup>4</sup> = Emergency Bypass - Dual Shunt Relay to be used with building generator backup systems to override dimming

### ORDERING NOTES:

- Contact manufacturer for lead times
- Most commonly ordered for Daintree Enterprise Wireless Enabled
- EL option not available in 347V. Test switch is remote mounted or can be mounted in ceiling next to fixture.
- Contact manufacturer prior to ordering to confirm application, not available on VQ control option.
- Most Standard base SKU's are DLC, there are exceptions for 347V and EL for meeting PF and/or THD results. Please check the DLC QPL.

ACCESSORIES	DESCRIPTION CODE	PRODUCT CODE
Drywall Mount Kit 1x4	GESK09	69068
1x4 Surface Mount Kit for Backlit T-Grid	B14 SMK	212464

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS	LUMINAIRE TOTAL SYSTEM WATTS	LPW
LBT14A015MM835VQLTWHTE	1500	13.0	115
LBT14A020MM835VQLTWHTE	2000	16.5	121
LBT14A030MM835VQLTWHTE	3000	25.0	120
LBT14A040MM835VQLTWHTE	4000	33.0	121
LBT14A050MM835VQLTWHTE	5000	42.0	119
LBT14A060MM835VQLTWHTE	6000	52.5	114
LBT14A015MM840VQLTWHTE	1500	13.0	115
LBT14A020MM840VQLTWHTE	2000	16.5	121
LBT14A030MM840VQLTWHTE	3000	25.0	120
LBT14A040MM840VQLTWHTE	4000	33.0	121
LBT14A050MM840VQLTWHTE	5000	42.0	119
LBT14A060MM840VQLTWHTE	6000	52.5	114
LBT14A015MM850VQLTWHTE	1500	13.0	115
LBT14A020MM850VQLTWHTE	2000	16.5	121
LBT14A030MM850VQLTWHTE	3000	25.0	120
LBT14A040MM850VQLTWHTE	4000	33.0	121
LBT14A050MM850VQLTWHTE	5000	42.0	119
LBT14A060MM850VQLTWHTE	6000	52.5	114

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1' x 4' LED Recessed Luminaire

## Additional Information

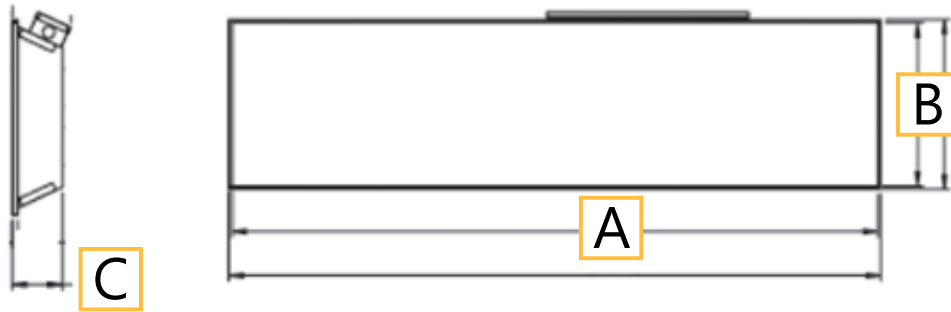
### CUSTOMER NAME

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

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

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

## DIMENSIONS

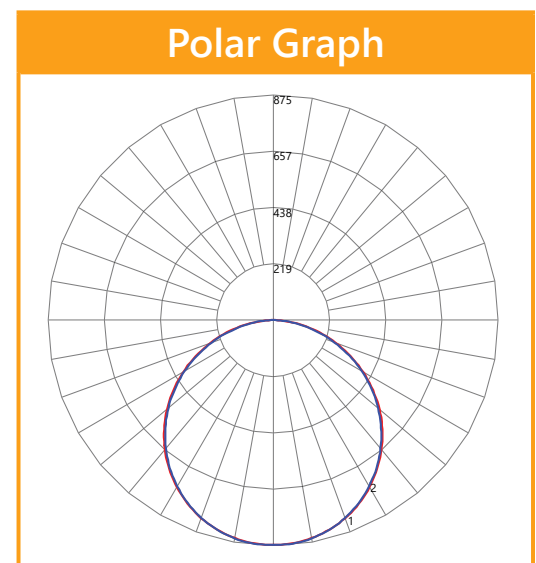


**A = 47.8in**  
**B = 11.8in**  
**C = 3.5in**

## PHOTOMETRIC DATA

ZONAL LUMEN SUMMARY	
ZONE	LUMENS
0-10°	82.85
10-20°	238.11
20-30°	362.46
30-40°	439.88
40-50°	460.42
50-60°	420.79
60-70°	326.49
70-80°	194.75
80-90°	58.59
90-100°	0.53
100-110°	0.42
110-120°	0.48
120-130°	0.54
130-140°	0.60
140-150°	0.64
150-160°	0.58
160-170°	0.40
170-180°	0.15

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% OF LAMP	% OF FIXTURE
0-20°	320.96	N.A.	12.40
0-30°	683.42	N.A.	26.40
0-40°	1123.31	N.A.	43.40
0-60°	2004.52	N.A.	77.40
0-80°	2525.76	N.A.	97.60
0-90°	2584.35	N.A.	99.80
10-90°	2501.5	N.A.	96.60
20-40°	802.35	N.A.	31.00
20-50°	1262.77	N.A.	48.80
40-70°	1207.7	N.A.	6.70
60-80°	521.24	N.A.	20.10
70-80°	194.75	N.A.	7.50
80-90°	58.59	N.A.	2.30
90-110°	0.95	N.A.	0.00
90-120°	1.44	N.A.	0.10
90-130°	1.98	N.A.	0.10
90-150°	3.22	N.A.	0.10
90-180°	4.34	N.A.	0.20
110-180°	3.39	N.A.	0.10
0-180°	2588.7	N.A.	100.00



# Lumination® LED Luminaires

LBT 14 Series - Volumetric T-Grid  
1' x 4' LED Recessed Luminaire

## Controls & Options

### AGENT/DISTRIBUTOR NAME-LOGO

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

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

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

## 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.

## 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

### Optional Bypass Relay:

Overrides dimming when emergency generator is used (see ordering notes for limitations)

### For Product or Technical Questions:

Email: [lightingproinfo@gecurrent.com](mailto:lightingproinfo@gecurrent.com)

Phone: +1 888 694 3533, option 2