

Lumination® LED Luminaires

LBT 22 Series - Volumetric T-Grid
2' x 2' 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

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

OPTICAL SYSTEM

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

ELECTRICAL

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

* PF and THD may vary with options

CONTROLS

Dimming:	Standard - 0-10V Dimming
Minimum Dimming:	5% of rated lumen LED Current driver
Sensors:	Daintree Compatible (see Ordering 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
L70

MOUNTING

- **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

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

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Ordering Information

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Ordering Information¹ (Important: Please see note 1 below) :

LBT **22** **A** - - - **MM** - - - **LT** **WHITE** - -

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CCT	CONTROLS ²	MOUNTING	FINISH	OPTIONS
LBT = Lumination® Backlit T-Grid	22 = 2' x 2'	A = 1 st Generation	0 = 120-277V D = 347V	20 = 2000 33 = 3300 40 = 4000 50 = 5000	MM = Med. Lambertain	835=80 CRI, 3500K 840=80 CRI, 4000K 850=80 CRI, 5000K ¹	VQ= 0-10V Dimming TQ= Daintree Wireless Enabled ² TS= Daintree Wireless Enabled with Daintree WFA100	LT= T-Grid	WHITE= White	(blank) = None CP= Chicago Plenum EL ³ = Emergency Light B2 ⁴ = Emergency Bypass ³ - 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 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

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Additional Information

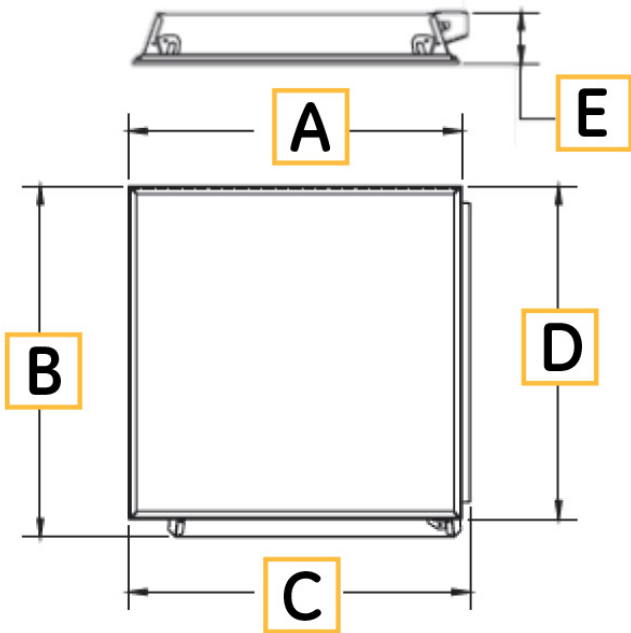
CUSTOMER NAME _____

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Date _____ Type _____

Catalog Number _____

DIMENSIONS

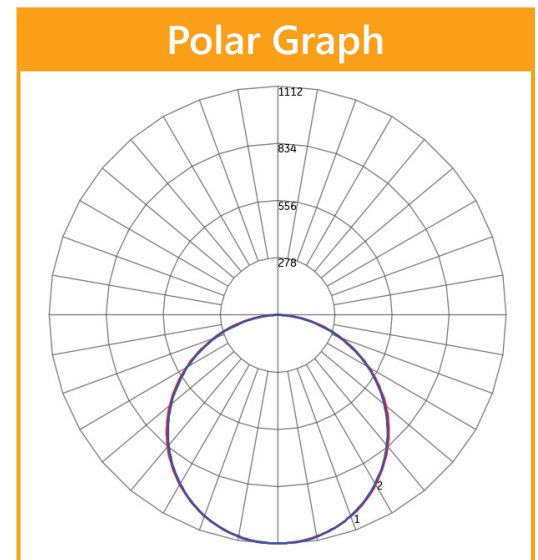


A = 23.82in (605mm)
B = 25.10in (638mm)
C = 24.40in (620mm)
D = 23.82in (605mm)
E = 3.76in (96mm)

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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Controls & Options

AGENT/DISTRIBUTOR NAME-LOGO

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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 its 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

Phone: +1 888 694 3533, option 2