

# Lumination™ LED Luminaires

LED Recessed Luminaire  
LBT24 Series - Backlit T-Grid



Project name \_\_\_\_\_  
Date \_\_\_\_\_  
Type \_\_\_\_\_

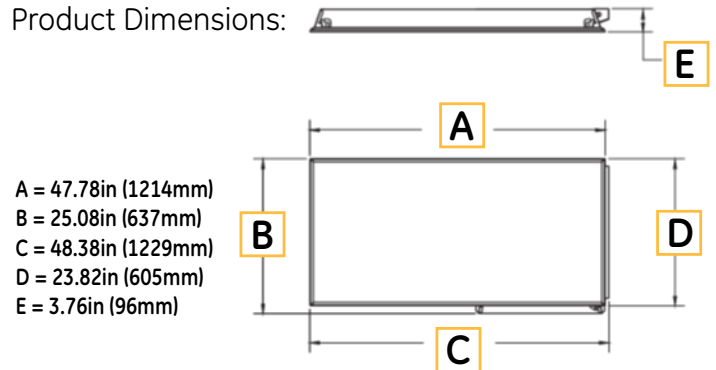
## Product Description:

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

## Product Dimensions:



Certified by: a product of

**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](http://www.designlights.org/QPL)

## Ordering Information:

**LBT** **24** **A** **XX** **MM** **LT** **WHITE**

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CCT	CONTROLS	MOUNTING	FINISH	OPTIONS
LBT = Lumination Backlit T-Grid	24 = 2' x 4'	A = 1st Generation	0 = 120-277V D = 347V	XX = Nominal Lumen Level	MM = Med. Lambertian	835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K	VQ = 0-10V Dimming TQ = Daintree Wireless Enabled <sup>2</sup> TS = Daintree Wireless Enabled with Daintree WFA100	LT = T-Grid	WHITE = White	(blank) = None CP = Chicago Plenum EL = Emergency Light B2 = Emergency Bypass <sup>3</sup> - Dual Shunt Relay to be used with building generator backup systems to override dimming

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE LPW
LBT24A030MM835VQLTWHITE	3000	22.5	133
LBT24A040MM835VQLTWHITE	4000	30.0	133
LBT24A048MM835VQLTWHITE	4800	36.0	133
LBT24A060MM835VQLTWHITE	6000	45.5	132
LBT24A072MM835VQLTWHITE	7200	56.0	129
LBT24A030MM840VQLTWHITE	3000	22.5	133
LBT24A040MM840VQLTWHITE	4000	30.0	133
LBT24A048MM840VQLTWHITE	4800	36.0	133
LBT24A060MM840VQLTWHITE	6000	45.5	132
LBT24A072MM840VQLTWHITE	7200	56.0	129
LBT24A030MM850VQLTWHITE	3000	22.5	133
LBT24A040MM850VQLTWHITE	4000	30.0	133
LBT24A048MM850VQLTWHITE	4800	36.0	133
LBT24A060MM850VQLTWHITE	6000	45.5	132
LBT24A072MM850VQLTWHITE	7200	56.0	129

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

ACCESSORIES	DESCRIPTION CODE	PRODUCT CODE
Drywall mount Kit 2' x 4'	GESK07	69523
2' x 4' Surface Mount kit for Backlit T-grid	B24 SMK	212463

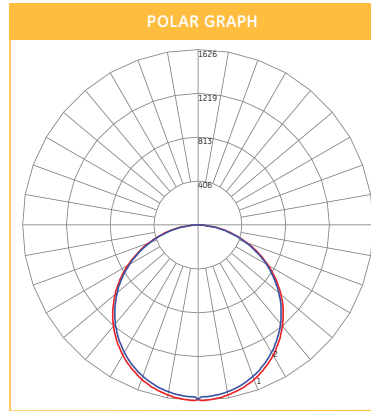
**current**  
powered by GE



# Photometric Data: LBT24 Series - Backlit T-Grid

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	152.79
10-20	439.27
20-30	669.29
30-40	813.04
40-50	851.97
50-60	779.97
60-70	606.61
70-80	364.45
80-90	112.46
90-100	2.01
100-110	1.32
110-120	1.28
120-130	1.24
130-140	1.23
140-150	1.13
150-160	0.95
160-170	0.71
170-180	0.25

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	592.06	N.A.	12.30
0-30	1261.35	N.A.	26.30
0-40	2074.38	N.A.	43.20
0-60	3706.33	N.A.	77.20
0-80	4677.39	N.A.	97.40
0-90	4789.85	N.A.	99.80
10-90	4637.05	N.A.	96.60
20-40	1482.32	N.A.	30.90
20-50	2334.3	N.A.	48.60
40-70	2238.55	N.A.	46.60
60-80	971.06	N.A.	20.20
70-80	364.45	N.A.	7.60
80-90	112.46	N.A.	2.30
90-110	3.33	N.A.	0.10
90-120	4.61	N.A.	0.10
90-130	5.85	N.A.	0.10
90-150	8.22	N.A.	0.20
90-180	10.13	N.A.	0.20
110-180	6.80	N.A.	0.10
0-180	4799.97	N.A.	100.00



## Product Specifications:

### LED & Optical:

**CRIa:** >80  
**R9:** >0  
**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:** -20°C to +35°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

### Construction & Finish:

**Housing:** Durable, long lasting bezel construction. Steel, electrogalvanized, cold-rolled, commercial quality.  
**Lensing:** Precision formed optical assembly comprised of high specularly reflective paint.  
**Paint:** Post 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)



All trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. Current, powered by GE is a business of the General Electric Company.  
 © 2017 GE.

