

Lumination™ LED Luminaires

LED Recessed Luminaire
LBT22 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: 2000-5000 lumens

CRI: 80+, R9 >0

CCT: 3500K/4000K/5000K

Efficacy: 122-127 LPW

Input Voltage: 120-277V, 347V

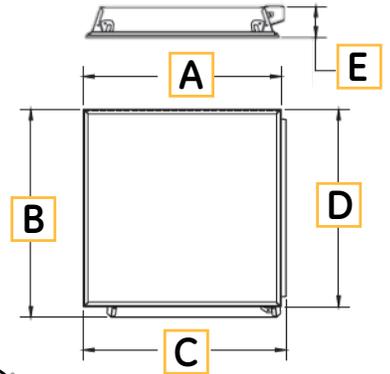
Wattage Range: 16.0-41.0 watts

Rated Luminaire Lumen Depreciation: L70@50,000 hours

Limited Warranty: 5 Years

Product Dimensions:

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



Certified by:



a product of

ecomagination™

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

Ordering Information:

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

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CCT	CONTROLS	MOUNTING	FINISH	OPTIONS
LBT = Lumination Backlit T-Grid	22 = 2' x 2'	A = 1st Generation	0 = 120-277V D = 347V	XX = Nominal Lumen Level	MM = Med. Lambertian	835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 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 = Emergency Light B2 = Emergency Bypass ³ - Dual Shunt Relay to be used with building generator backup systems to override dimming

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE 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

Ordering Notes:

- Contact manufacturer for lead times
- Most commonly ordered wireless adapter
- Contact manufacturer prior to ordering to confirm application

ACCESSORIES	DESCRIPTION CODE	PRODUCT CODE
Drywall mount Kit 2' x 2'	GESK07	67657
2' x 2' Surface Mount kit for Backlit T-grid	B22 SMK	212462

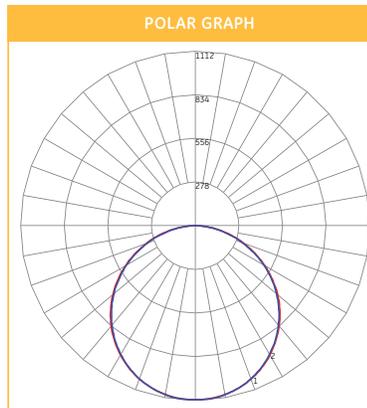
current
powered by GE



Photometric Data: LBT22 Series - Backlit T-Grid

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



Product Specifications:

LED & Optical:

CRI: >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 for specific products

Construction & Finish:

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

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 KO's 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



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