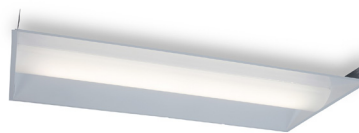


# Lumination™ LED Luminaires

2' x 4' LED Recessed Luminaire

LVT 24 Series - Volumetric T-Grid, Enhanced Generation B



Project name \_\_\_\_\_

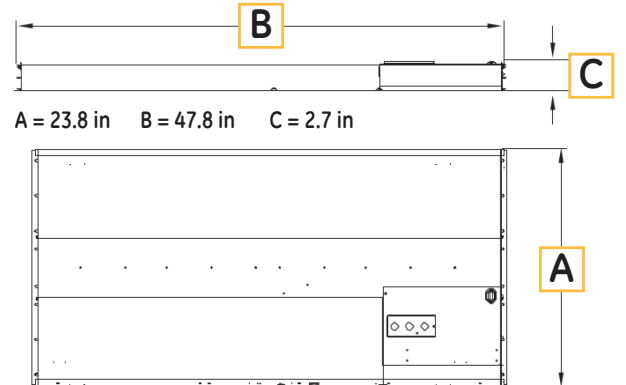
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## Product Description:

GE Lumination™ LVT Series Recessed LED Luminaires bring a three-dimensional volumetric designer's touch to any T-Grid drop ceiling landscape. By providing high uniformity, excellent efficiency and reduced glare the LVT is ideal for commercial office, education or healthcare applications. The newly ratered lumen maintenance of greater than L85 at 50,000 hours operation offers even lower maintenance costs and now optional "High Performance" products offer DLC premium. LVT is suitable for indoor general lighting for both new construction and retrofit when the luminaire is replaced. With a beautiful three-dimensional look, LVT offers an easy-to-install LED solution. A matte finish, curved or rectangular diffused lens with no unsightly ribs, smooth uniform light (no pixels or stripes), no dark end caps and delineated details create visual interest in any ceiling. All fixtures available with Daintree's complete portfolio of wireless control options for literally any use case. Daintree One and Daintree EZ Connect, offer the ability to upgrade disconnected fixtures into a complete enterprise based energy management solution. This allows end users to build a digital ceiling with already installed infrastructure today, tomorrow, or whenever you are ready for the productivity benefits of IoT.

## Product Dimensions:



UL Version: A = 23.8 in B = 47.8 in C = 2.7 in

## Performance Summary:

**Light Output Range:** 3000-7200 lumens

**CRI:** 80+, R9>0, Reveal Trigain™ >90, R9 > 90

**CCT:** 3500K/4000K/5000K

**Efficacy:** Standard: 112-128 LPW, High Performance: 132-136 LPW

**Input Voltage:** 120-277V, 347V

**Wattage Range:** Standard: 24.5-60.0 watts, High Performance 22.0-36.5 watts

**Luminaire Lumen Depreciation:** L85@50,000 hours

(see next page for TM-21 calcs)

**Limited Warranty:** 5 Years

**New Generation!**  
Enhanced Performance,  
Upgraded Specifications!

Certified by:

Please refer to the DLC QPL website for the latest and most complete information.  
[www.designlights.org/QPL](http://www.designlights.org/QPL)

## Ordering Information:

**LVT** **24** **B** **XX** **MM** **LT** **WHITE**

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CRT	CONTROLS	MOUNTING	FINISH	OPTIONS
LVT = Lumination Volumetric T-Grid	24 = 2' x 4'	B = 2nd Generation	0 = 120-277V D = 347V	XX = Nominal Lumen Level	MM = Med. Curved SS = Med. Rectangular	835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K <sup>1</sup> T35 = TriGain, 90CRI <sup>2</sup> , 3500K T40 = TriGain, 90CRI <sup>2</sup> , 4000K		LT = T-Grid	WHITE = White	(blank) = None CP = ChicagoPlenum EL = Emergency Light <sup>3</sup> B2 = Emergency Bypass <sup>4</sup> -Dual Shunt Relay to be used with building generator back up systems to override dimming HP = High Performance <sup>5</sup> W3 = 6' Whip, 4 Wire: Ground, L1, L2, EL Sense W5 = 6' Whip, 6 Wire: Ground, L1, L2, EL Sense, dimming leads

## Standard Performance<sup>5</sup>:

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE LPW
LVT24B030MM8_VQLTWHITE	3000	24.5	122
LVT24B040MM8_VQLTWHITE	4000	33.5	119
LVT24B048MM8_VQLTWHITE	4800	43.0	112
LVT24B060MM8_VQLTWHITE	6000	47.0	128
LVT24B072MM8_VQLTWHITE	7200	60.0	120

## High Performance<sup>5</sup>: (only available in 90 CRI)

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS <sup>5</sup>	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE LPW
LVT24B030MMT_VQLTWHITEHP	3000	22.0	136
LVT24B040MMT_VQLTWHITEHP	4000	30.0	133
LVT24B048MMT_VQLTWHITEHP	4800	36.5	132

### Ordering Notes:

- Contact manufacturer for lead times
- Most commonly ordered for Daintree Enterprise Wireless Enabled
- Test switch is remote mounted in the ceiling, EL option not available in 347V
- Contact manufacturer prior to ordering to confirm application
- Most Standard and HP (High Performance) base SKU's are DLC, there are exceptions for 347V and EL for meeting PF and/or THD results. Please check the DLC QPL.
- 6000 and 7200 lumens not available in High Performance
- See product specifications section: Controls on page 2 for additional Daintree system details
- 90 CRI Trigain™ is only available on HP (high performance) SKU's

CONTROL OPTIONS	DESCRIPTIONS	REF DOCUMENT
VQ	0-10v Dimming	N/A
TQ	Daintree Enterprise Wireless Enabled <sup>2</sup>	
TS	Daintree Enterprise Wireless Enabled with Daintree WFA100	
TZ	Daintree Enterprise Wireless with fixture integrated sensor	
TT	Daintree EZ Connect Wireless with fixture integrated sensor	
T1	Daintree One with fixture integrated sensor with factory programmed preset <sup>4</sup>	
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	

ACCESSORIES	DESCRIPTION CODE	PRODUCT CODE
Drywall Mount Kit 2'x4'	GESK11	69523
2'x4' Surface Mount Kit	B24 SMK	212463

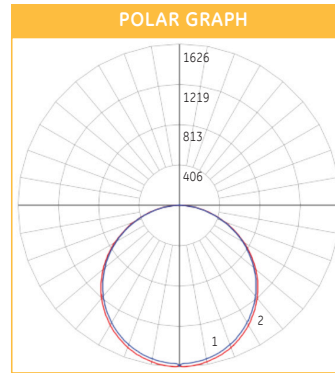
SENSOR KIT (FOR SQ CONTROL OPTION ONLY)		PRODUCT CODE
Daintree One/EZ Connect:	LSAATT/T1FM6 (WIT100 Sensor Kit)	93098472
Daintree Enterprise:	LSAATZFM6(WIZ100 Sensor Kit)	93098473
Daintree Ent. Multi Sensor:	LSAATMFM6 (WWMZ10 Sensor Kit)	93119594

**GE current**  
a Daintree company

# Photometric Data: Lumination™ 2' x 4' LVT24 Series - Volumetric T-Grid, Enhanced Generation B

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:

CRi: >80+ (835/840/850), >90 (T35,T40)

R9: >0 (835/840/850), >90 (T35,T40)

Color Consistency: Central limit 4-Step MacAdam Ellipse with LED recipe approach for tight unit to unit color control

Rated Luminaire Lumen Depreciation: L85@50,000 Hours

TM-21 LED Data:

Standard Performance:

Estimated Lumen Maintenance: L81>100,000 hrs

Reported: L88>60,000 hrs

Premium Performance:

Estimated Lumen Maintenance: L75>100,000 hrs

Reported: L90>36,000 hrs

Reported: L77>90,000 hrs

### Electrical System:

Input Voltage: 120-277, 347 VAC

Input Frequency: 50/60 Hz

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

Insulation Contact: Type IC Rated

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 construction. Steel, electrogalvanized, cold-rolled, commercial quality.

Lensing: Precision formed optical lens/diffuser curved and technically balanced for efficacy, and transmissivity. This offers smooth uniform light (no pixels or stripes) and no dark end caps. There are no unsightly ribs which are typically used to distract from pixels, stripes and poor uniformity.

Paint: Highly reflective matte finish

Weight: <15 pounds

### Design Life & Warranty:

System Warranty: 5 Year

Minimum 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: 10% of rated lumen LED drive current. Contact manufacturer for other available options.

Optional Dimming: Contact Manufacturer

Wireless Networking and Sensing Device Options\*

**Daintree One:** Wireless fixture integrated sensor that is perfect for single fixtures or small area applications. Standalone wireless lighting controls that work independently. Comes preset from the factory, yet can be upgraded to Daintree EZ Connect and/or Daintree Enterprise in the future. Factory preset to shut off 20 minutes after the space is vacated of occupants. Daylight harvesting preset enabled on.

**Daintree EZ Connect:** Wireless fixture integrated sensor that is designed for room based controls where a group of fixtures communicate to each other and communicate wirelessly in chorus as a system. The advantage is simple, minimal field based commissioning. Factory preset to shut off 20 minutes after the space is vacated of occupants. No daylight harvesting set in initial preset. EZ Connect wireless lighting controls are set up and/or can be changed by the Daintree EZ Connect application that can be downloaded via a smart device.

**Daintree Enterprise:** Wireless fixture integrated sensor technology that is ideal for multi-site lighting system management. System requires software and commissioning. Monitor multiple controls, lighting, energy, HVAC with unlimited potential for other (3rd party) sensor integration. "Open on the bottom" means that ZigBee communication protocol is an industry standard with countless wireless hardware sensing options. "Open on the top" means that the data from the sensors can be used by any 3rd party software supplier/developer, be it part of a complete BMS system or simple API (Application Programming Interface or "App"). Daintree Enterprise offers a complete future proof solution from any Daintree enabled installed base of fixtures.

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 on fixture body, with holes for seismic wires

Surface Mounting: Surface mount kit available.

### Accessories & Options:

Optional Emergency Battery: Provides 90-minutes of Emergency lighting.

Notes: EL option is not available with 347V option, test button is remote mounted in the field.

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.LED.com](http://www.LED.com)



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