

Lumination™ LED Luminaires

1' x 4' LED Recessed Luminaire

LVT 14 Series - VolumetricT-Grid, Enhanced Generation B



Project name _____

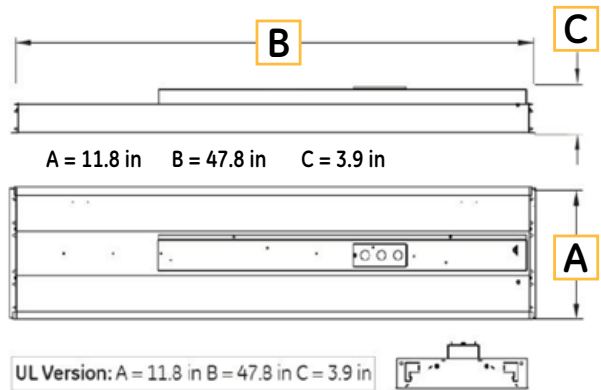
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Product Description:

GE Lumination™ LVT Series Recessed LED Luminaires bring a three-dimensional volumetric designer 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 rerated 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 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:



Performance Summary:

Light Output Range: 1500-6000 lumens

CRI: 80+, R9>0

CCT: 3500K/4000K/5000K

Efficacy: Standard: 114-125 LPW, High Performance: 125-133 LPW

Input Voltage: 120-277V, 347V

Wattage Range: Standard: 12.5-49.0 watts, High Performance 12.0-30.5 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:

a product of



Please refer to the DLC QPL website for the latest and most complete information.
www.designlights.org/QPL

Ordering Information:

LVT **14** **B** **XX** **MM** **LT** **WHITE**

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CRT	CONTROLS	MOUNTING	FINISH	OPTIONS
LVT = Lumination Volumetric T-Grid	14 = 1' x 4'	B = 2nd Generation	0 = 120-277V D = 347V	XX = Nominal Lumen Level	MM = Med. Lambertian	835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 = 80CRI, 5000K ¹		LT = T-Grid	WHITE = White	(blank) = None CP = Chicago Plenum EL = Emergency Light ³ B2 = Emergency Bypass ⁴ -Dual Shunt Relay to be used with building generator back up systems to override dimming HP = High Performance ⁵ W3 = 6' Whip, 4 Wire: Ground, L1, L2, EL Sense W5 = 6' Whip, 6 Wire: Ground, L1, L2, EL Sense, dimming leads

Standard Performance⁵:

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE LPW
LVT14B015MM_VQLTWHITE	1500	12.5	120
LVT14B020MM_VQLTWHITE	2000	16.5	121
LVT14B030MM_VQLTWHITE	3000	24.5	122
LVT14B040MM_VQLTWHITE	4000	35.0	114
LVT14B050MM_VQLTWHITE	5000	40.0	125
LVT14B060MM_VQLTWHITE	6000	49.0	122

High Performance⁵:

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS ⁶	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE LPW
LVT14B015MM_VQLTWHITE	1500	12.0	125
LVT14B020MM_VQLTWHITE	2000	16.0	125
LVT14B030MM_VQLTWHITE	3000	22.5	133
LVT14B040MM_VQLTWHITE	4000	30.5	131

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 1500 lumen, 347V and EL for meeting PF and/or THD results. Please check the DLC QPL.
- 5000 and 6000 lumens not available in High Performance
- See product specifications section: Controls on page 2 for additional Daintree system details

CONTROL OPTIONS	DESCRIPTIONS	REF DOCUMENT
VQ	0-10v Dimming	N/A
TQ	Daintree Enterprise Wireless Enabled ²	
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 ¹	
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 1'x4'	GESK09	69068
1'x4' Surface Mount Kit	B14 SMK	212464

current
powered by GE



Photometric Data: Lumination™ 1' x 4' LVT14 Series - Volumetric T-Grid, Enhanced Generation B

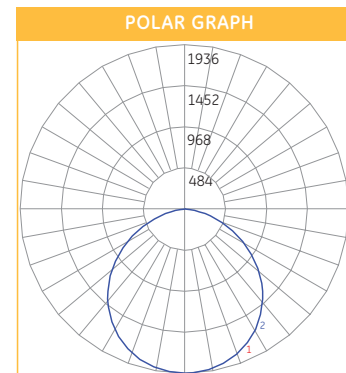
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	182.59
10-20°	517.83
20-30°	770.54
30-40°	911.58
40-50°	928.84
50-60°	827.30
60-70°	620.28
70-80°	347.00
80-90°	85.59
90-100°	1.35
100-110°	1.07
110-120°	0.98
120-130°	0.99
130-140°	1.11
140-150°	1.14
150-160°	1.02
160-170°	0.70
170-180°	0.27

COEFFICIENTS OF UTILIZATION																			
RC	80%					70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59	
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44	
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	

Note: Floor Cavity Reflectance: 20%

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-20°	700.42	13.50
0-30°	1470.96	28.30
0-40°	2382.54	45.80
0-60°	4138.67	79.60
0-80°	5105.95	98.20
0-90°	5191.54	99.80

LUMINANCE DATA (CANDELA/M²)			
Gamma	0°	45°	90°
45°	2696	2695	2696
55°	2553	2561	2553
65°	2333	2360	2333
75°	1993	2000	1993
85°	1287	1185	1287



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: L85@50,000 Hours
TM-21 LED Data:
Standard Performance:
 Calculated: L80>100,000 hrs
 Reported: L85>60,000 hrs
Premium Performance:
 Calculated: L90>100,000 hrs
 Reported: L90>60,000 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
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 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 KOs 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: <https://products.currentbyge.com>



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