

FEATURES & SPECIFICATIONS

INTENDED USE — The VT Series LED combines digital LED lighting and controls technologies with patented high-performance optical design to offer the most advanced luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable. A typically configured VTL features a Unified Glare Rating (UGR) starting at 18, UGR data available on page 4.

CONSTRUCTION — Rugged, one-piece cold-rolled steel reflector assembly with embossed facets. Coated polyester powder-paint after fabrication.

Rigid structure with ballast box and end plates. End plates include integral T-bar clips.

Driver is accessible from above the fixture.

Impact-modified acrylic prismatic refractor.

Luminaires may be mounted end-to-end and continuously wired.

OPTICS — Volumetric illumination is delivered by creating an optimal mix of light to walls, partitions, vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complementary luminous environment.

Light distribution is carefully controlled at high angles, providing just enough luminous flux to create the volumetric effect.

Linear faceted reflector cavity softens and distributes light into the space while minimizing luminous contrast between the fixture and ceiling.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the VT Series LED luminaires using standard CAT-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

eldoLED driver options deliver choice of dimming range, and choice of control, while assuring flicker-free, low current inrush, 89% efficiency and low EMI.

Ballast disconnect provided where required to comply with US and Canadian codes.

INSTALLATION — Drivers and internal components accessed via plenum. Driver tray may be removed from fixture during service. Suitable for damp location.

Maintenance: LED boards include plug-in connectors for easy replacement or servicing.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Tested to LM80 standards. IC rated.

Protected by one or more of US Patent Nos. 7,229,192; D541,467; D541,468; D544,633; D544,634; D544,992.

D544,933 and additional patents pending.

GOVERNMENT PROCUREMENT — BAA — Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA — Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. A generational electronics upgrade occurred in May 2019. The upgraded VT series LED troffer has a slight visual variation from previous generations.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

| |
|----------------|
| Catalog Number |
| Notes |
| Type |



VT Series LED

VTL4

1' X 4'
LED



eldoLED



Dimensions

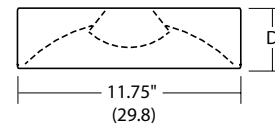
All dimensions are inches (centimeters) unless otherwise specified.

Specifications

Length: 47.75" (121.3)

Width: 11.75" (29.8)

Depth: 3.13" (7.9)



Capable Luminaire


This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

VTL Volumetric Recessed Lighting 1'x4'



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: VTL4 40L ADP EZ1 LP835 N80

| VTL4 | | | | ADP | | | | | | | |
|--------|------------------|---------------------|------|----------|--------------------------|---------|--------------------|---------------------|--|-------------------|----------------|
| Series | | Lumens ¹ | | Diffuser | | Voltage | | Driver ² | | Color temperature | |
| VTL4 | Recessed 1X4 LED | 20L | 2000 | ADP | Acrylic linear prismatic | (blank) | MVOLT (120 - 277V) | EZ1 | eldoLED dims to 1% (0-10 volt dimming) | LP830 | 3000 K, 82 CRI |
| | | 30L | 3000 | | | | | | | LP835 | 3500 K, 82 CRI |
| | | 40L | 4000 | | | | | EZB | eldoLED dims to 0.1% (0-10 volt dimming) | LP840 | 4000 K, 82 CRI |
| | | 48L | 4800 | | | | | | | LP850 | 5000 K, 82 CRI |
| | | 60L | 6000 | | | | | GZ1 | Dims to 1% (0-10V dimming) ³ | LP930 | 3000 K, 90 CRI |
| | | | | | | | | GZ10 | Dims to 10% (0-10V dimming) ³ | LP935 | 3500 K, 90 CRI |
| | | | | | | | | EDB | eldoLED DALI ⁴ | LP940 | 4000 K, 90 CRI |
| | | | | | | | | SLD | Step-level dimming ⁴ | LP950 | 5000 K, 90 CRI |

| Control | | Option | |
|---------|--|---------------|---|
| (blank) | No controls | BDP | Disconnect Plug |
| N80 | nLight with 80% lumen management | EL7L | 700 lumen battery pack, Noncompliant with CA T20 |
| N80EMG | nLight with 80% lumen management for use with generator supply EM power ⁵ | EL14L | 1400 lumen battery pack, Noncompliant with CA T20 |
| N100 | nLight without lumen management | E10WLCP | EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS |
| N100EMG | nLight without lumen management for use with generator supply EM power ⁵ | BGTD | Bodine Generator Transfer Device ^{6,7} |
| | | PWS1836 | 6' pre-wire 3/8" diameter, 18 gauge, 1 circuit |
| | | PWS1846 | 6' pre-wire 3/8" diameter, 18 gauge, 2 circuit |
| | | PWS1846 PWSLV | Two cables: one 6' prewire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge |
| | | PWS1856LV | 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/ low voltage wires |
| | | CP | Chicago plenum ⁸ |
| | | BAA | Buy America(n) Act and/or Build America Buy America Qualified |

| Accessories: Order as separate catalog number. | |
|--|--|
| DGA14 | Drywall ceiling adaptor , unit installation |
| 1X4SMKSH PAF | Surface Mount Troffer Kit Post Paint |
| RK8BDP 2P U | Disconnect Plug (BDP), 2 Pole, Package of 1 |
| RK8BDP 3P U | Disconnect Plug (BDP), 3 Pole, Package of 1 |
| RK8BDP 2P J10 | Disconnect Plug (BDP), 2 Pole, Package of 10 |
| RK8BDP 2P J40 | Disconnect Plug (BDP), 2 Pole, Package of 40 |

- Notes
1. Approximate lumen output.

2. Not available with SLD, EL7L, EL14L or E10WLCP.

3. GZ1, GZ10 drivers not available with any Controls option.

4. Not available with N80, N80EMG, N100 or N100EMG

5. nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.

6. Not available with SLD

7. Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.

8. Not available with N80, N80EMG, N100, N100EMG, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV.

Emergency Battery Pack Options - Field Installable

| Battery Model Number | Wattage | Runtime (Minutes) | Lumen Output* @ 120 Lumens/Watt | Other |
|----------------------|---------|-------------------|---------------------------------|---|
| ILB CP07 2H A | 7W | 120 | 840 | Storm Shelter/ 2-hour Runtime |
| ILB CP10 A | 10W | 90 | 1200 | |
| ILB CP10 HE AELR A | 10W | 90 | 1200 | Title 20; Enabled with Self Testing, Automated Reporting (STAR) |
| ILBLP CP10 HE SD A | 10W | 90 | 1200 | Title 20, Self Diagnostic |
| ILBLP CP15 HE SD A | 15W | 90 | 1800 | Title 20, Self Diagnostic |
| ILB CP20 HE A | 20W | 90 | 2400 | Title 20 |
| ILB CP20 HE SD A | 20W | 90 | 2400 | Title 20, Self Diagnostic |

All the above are UL 924 Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

Delivered emergency illumination of CP10 models outperforms legacy 1400 lumen fluorescent emergency ballasts.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.



Field Installed Emergency LED Driver



ILB CP10 HE AELR A

Compliance Just Got Easier!

Emergency Lighting with Self Testing Automated Reporting (STAR), enables self-testing and automated reporting to aid in life safety code compliance. Emergency lighting equipment enabled with STAR, automatically conducts the required monthly and annual tests, logs results within the units, and wirelessly communicates test data on demand to the CLARITY+ mobile app. **Leave the ladders, disruptions and written records behind with emergency lighting solutions with STAR!**

Life Safety Code (NFPA101)
Testing & Reporting Requirements



30 seconds every 30 days



90 minutes every year



Keep records for 5 years



DOWNLOAD CLARITY+



VTL Volumetric Recessed Lighting 1'x4'

| Performance Data | | | |
|--------------------|--------|-------------|-----|
| Lumen Package | Lumens | Input Watts | LPW |
| VTL4 15L ADP LP830 | 1593 | 14.1 | 113 |
| VTL4 15L ADP LP835 | 1652 | 14.1 | 117 |
| VTL4 15L ADP LP840 | 1711 | 14.1 | 121 |
| VTL4 15L ADP LP850 | 1711 | 14.1 | 121 |
| VTL4 15L ADP LP930 | 1298 | 14.1 | 92 |
| VTL4 15L ADP LP935 | 1357 | 14.1 | 96 |
| VTL4 15L ADP LP940 | 1416 | 14.1 | 100 |
| VTL4 15L ADP LP950 | 1416 | 14.1 | 100 |
| VTL4 20L ADP LP830 | 2038 | 17.6 | 116 |
| VTL4 20L ADP LP835 | 2114 | 17.6 | 120 |
| VTL4 20L ADP LP840 | 2189 | 17.6 | 124 |
| VTL4 20L ADP LP850 | 2189 | 17.6 | 124 |
| VTL4 20L ADP LP930 | 1661 | 17.6 | 94 |
| VTL4 20L ADP LP935 | 1736 | 17.6 | 99 |
| VTL4 20L ADP LP940 | 1812 | 17.6 | 103 |
| VTL4 20L ADP LP950 | 1812 | 17.6 | 103 |
| VTL4 30L ADP LP830 | 3002 | 26.6 | 113 |
| VTL4 30L ADP LP835 | 3113 | 26.6 | 117 |
| VTL4 30L ADP LP840 | 3224 | 26.6 | 121 |
| VTL4 30L ADP LP850 | 3224 | 26.6 | 121 |
| VTL4 30L ADP LP930 | 2446 | 26.6 | 92 |
| VTL4 30L ADP LP935 | 2557 | 26.6 | 96 |
| VTL4 30L ADP LP940 | 2669 | 26.6 | 100 |
| VTL4 30L ADP LP950 | 2669 | 26.6 | 100 |
| VTL4 40L ADP LP830 | 4000 | 35.6 | 112 |
| VTL4 40L ADP LP835 | 4148 | 35.6 | 116 |
| VTL4 40L ADP LP840 | 4296 | 35.6 | 121 |
| VTL4 40L ADP LP850 | 4296 | 35.6 | 121 |
| VTL4 40L ADP LP930 | 3259 | 35.6 | 92 |
| VTL4 40L ADP LP935 | 3407 | 35.6 | 96 |
| VTL4 40L ADP LP940 | 3555 | 35.6 | 100 |
| VTL4 40L ADP LP950 | 3555 | 35.6 | 100 |
| VTL4 48L ADP LP830 | 4910 | 42.4 | 116 |
| VTL4 48L ADP LP835 | 5092 | 42.4 | 120 |
| VTL4 48L ADP LP840 | 5274 | 42.4 | 124 |
| VTL4 48L ADP LP850 | 5274 | 42.4 | 124 |
| VTL4 48L ADP LP930 | 4001 | 42.4 | 94 |
| VTL4 48L ADP LP935 | 4183 | 42.4 | 99 |
| VTL4 48L ADP LP940 | 4364 | 42.4 | 103 |
| VTL4 48L ADP LP950 | 4364 | 42.4 | 103 |
| VTL4 60L ADP LP830 | 6067 | 54.6 | 111 |
| VTL4 60L ADP LP835 | 6292 | 54.6 | 115 |
| VTL4 60L ADP LP840 | 6516 | 54.6 | 119 |
| VTL4 60L ADP LP850 | 6516 | 54.6 | 119 |
| VTL4 60L ADP LP930 | 4943 | 54.6 | 91 |
| VTL4 60L ADP LP935 | 5168 | 54.6 | 95 |
| VTL4 60L ADP LP940 | 5393 | 54.6 | 99 |
| VTL4 60L ADP LP950 | 5393 | 54.6 | 99 |

How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

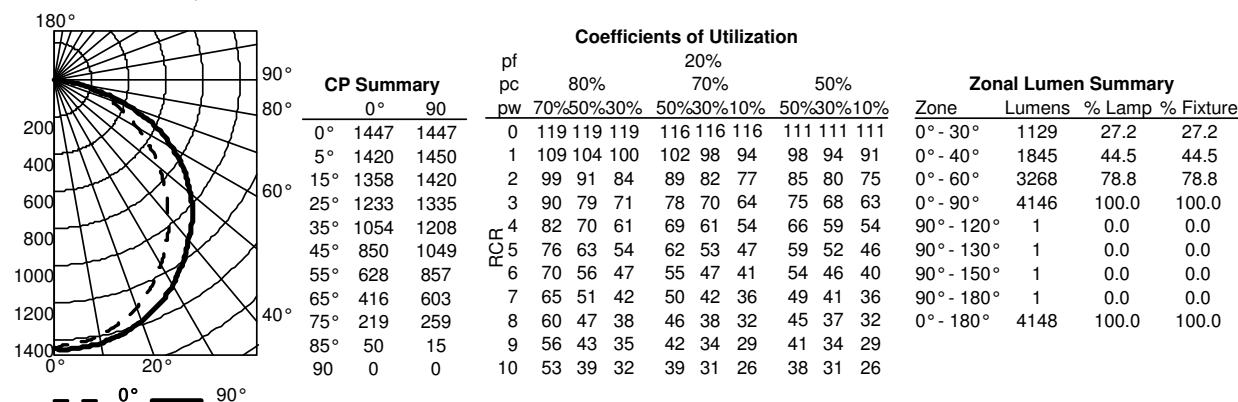
P = Ouput power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

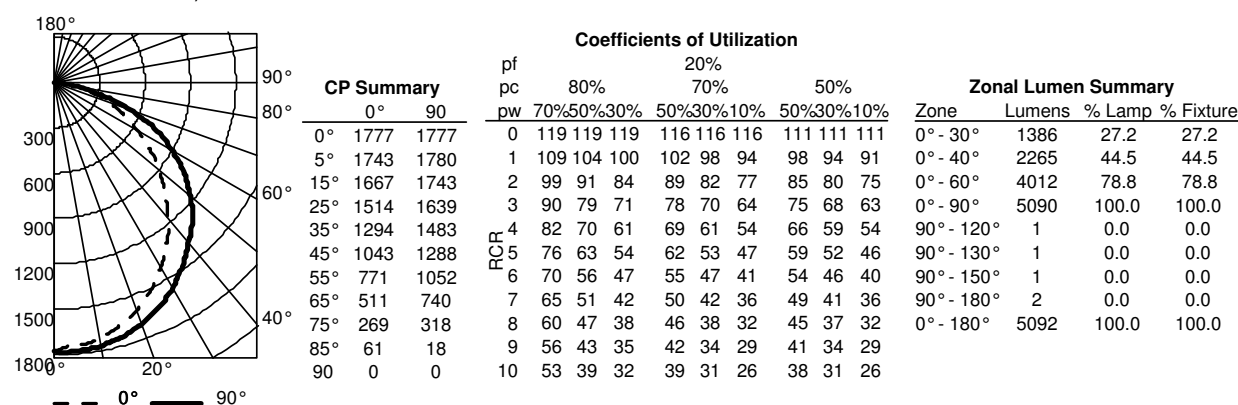
VTL Volumetric Recessed Lighting 1'x4'

PHOTOMETRICS

VTL4 40L ADP LP835, 4148 delivered lumens.



VTL4 48L ADP LP835, 5092 delivered lumens.



UGR Values of VTL 1x4 @ 80CRI and 3500K (70% 50% 20% reflectance using a 4H x 8H room size)

| Lumen Package | Crosswise | Endwise |
|---------------|-----------|---------|
| 2000LM | 18.1 | 19.2 |
| 3000LM | 19.5 | 20.5 |
| 4000LM | 20.5 | 21.5 |
| 4800LM | 21.2 | 22.3 |
| 6000LM | 23 | 22.3 |

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application

VTL Volumetric Recessed Lighting 1'x4'

| | | | |
|---|---------------------|--|---------------------|
| nLight® Control Accessories: <i>Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.</i> | | | |
| WallPod stations | Model number | Occupancy sensors | Model number |
| On/Off | nPODM [color] | Small motion 360°, ceiling (PIR / dual tech) | nCM 9 / nCM PDT 9 |
| On/Off & Raise/Lower | nPODM DX [color] | Large motion 360°, ceiling (PIR / dual tech) | nCM 10 / nCM PDT 10 |
| Graphic Touchscreen | nPOD GFX | Wall switch with raise/lower | nWSXPDTLVDX |
| Photocell controls | Model number | Cat-5 cable bundles (plenum rated) | Model number |
| On/Off & Dimming | nCM ADCX | 10', 15 pieces per bundle | CAT5 10FT |
| | | 30', 15 pieces per bundle | CAT5 30FT |

Constant Lumen Management

Enabled by the embedded nLight control, the VT Series LED actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.

