

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The Avante 2x4 is a general lighting luminaire for large spaces including open offices, circulation areas, classrooms, libraries, cafeterias, airport ticketing and wait areas, and numerous other commercial applications. Static or air function available. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#) A typically configured AVL features a Unified Glare Rating (UGR) starting at 18, UGR data available on page 3.

**CONSTRUCTION** — Housing is gloss white enamel on cold-rolled steel. All edges hemmed or rounded. All shieldings pivot on light traps and swing down for easy access.

Molded light traps prevent light leaks between shielding and end-plates.

All air and screw slot units supplied with screw-on tee bar clips. **Driver access is from below.**

**OPTICS** — Matte white polyester powder paint finished reflectors provide uniform light distribution.

All diffusers control direct light distribution and glare by shielding LEDs from direct view.

Metal diffuser staggered round holes (MDR) **52% open perforated metal** with .075" diameter holes backed with white acrylic diffuser.

Straight blade louver sides of perforated metal with staggered round holes and solid blade louvered center. Sides and louver backed with white acrylic diffuser.

Acrylic diffuser prismatic lens (ADP) extruded acrylic lens backed with white acrylic diffuser.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (**L90/60,000**). eldoLED driver options deliver choice of dimming range and choice of control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable, allowing them to digitally communicate with other nLight enabled controls such as dimmers, switches, nLight AIR RIO. Simply connect all the nLight enabled control devices and the AVLED luminaires using standard Cat-5 cabling, or the nLight AIR wireless network. Unique plug-and-play convenience allows devices and luminaires to 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.

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

**INSTALLATION** — Trims available for standard 1" and 9/16" tee bar or screw slot grids.

Fixtures **can be row mounted end-to-end. Suitable for damp locations.**

Drywall ceiling adapters available.

**LISTINGS** — CSA certified to meet US and Canadian standards. **IC rated.**

**Avante is covered by one or more of the following patents: 5,988,829; 399,586; 411,641; 413,402; 2,212,513; 87,513.**

**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](http://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](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

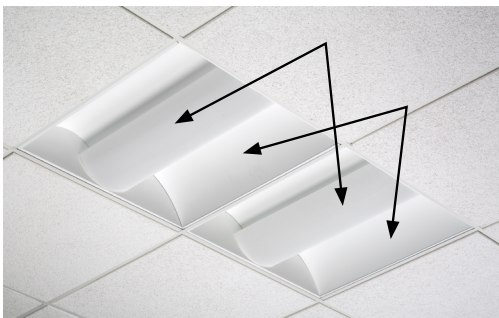
**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Avante SE offers tremendous value while providing a similar aesthetic to the first generation LED Avante - now sold as HE version Avante.

(HE) high efficiency Avante is pictured on the right. Notice both the reflector and diffuser are fully illuminated. If looking to match existing first generation Avante fixtures select this version.

SE (standard efficiency) version pictured left



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

*Avante*  
Direct/Indirect Lighting

**2AVL4**



2' X 4'  
LED



### Specifications

|                 |                              |
|-----------------|------------------------------|
| Length:         | 47.75 (121.3)                |
| Width:          | 23.75 (60.3)                 |
| Diffuser width: | 8 (20.3)                     |
| Depth:          | 5.5 (14.0)                   |
|                 | 5.875 (14.9) for air fixture |
| Weight:         | 35 lbs                       |

All dimensions are inches (centimeters) unless otherwise indicated.

### A+ 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](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

# 2AVL 2x4 Direct/Indirect Lighting



A+ Capable options indicated by this color background.

## ORDERING INFORMATION

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

**Example:** 2AVL4 40LSE MDR EZ1 LP835

| 2AVL4        |   |   |  |  |   |
|--------------|---|---|--|--|---|
| Series       | Trim type                                 | Air function                            | Lumens <sup>1</sup>  | Diffuser   | Voltage   |
| 2AVL4 AV LED | <b>(blank)</b> Grid trim<br>ST Screw slot | <b>(blank)</b> Static (no air function) | <b>Standard Efficiency</b><br>30LSE 3000 lumens<br>40LSE 4000 lumens<br>50LSE 5000 lumens<br><br><b>High Efficiency</b><br>30LHE 3000 lumens<br>40LHE 4000 lumens<br>50LHE 5000 lumens | MDR Metal diffuser, round holes<br>ADP Acrylic diffuser, linear prismatic lens | <b>(blank)</b> MVOLT (120 - 277V)<br><b>347</b> 347V <sup>2</sup> |
|              |   | A Air return/Supply                     |  |  |   |

| Driver  | Color temperature | Controls  | Options   |
|---|-------------------|---|---|
| EZ1 eldoLED dims to 1% (0-10 volt dimming)    | LP830 3000 K      | <b>(blank)</b> No controls  | BDP Disconnect Plug   |
| GZ1 Dims to 1% (0-10V dimming) <sup>3</sup>   | LP835 3500 K      | N80 nLight <sup>®</sup> with 80% lumen management   | JP10 Palletized job pack, qty. 10   |
| GZ10 Dims to 10% (0-10V dimming) <sup>3</sup> | LP840 4000 K      | N80EMG nLight <sup>®</sup> with 80% lumen management. For use with generator supply EM power                                  | EL7L 700 lumen battery pack (non-CEC compliant) <sup>1</sup>  |
|   | LP850 5000 K      | N100 nLight <sup>®</sup> without lumen management   | EL14L 1400 lumen battery pack (non-CEC compliant) <sup>1</sup>  |
|   |                   | N100EMG nLight <sup>®</sup> without lumen management. For use with generator supply EM power                                  | E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant  |
|   |                   | NLTAIR2 RIO nLight AIR radio module without sensors <sup>4</sup>  | PWS1836 6' pre-wire 3/8" diameter, 18 gauge, 1 circuit  |
|   |                   | NLTAIR2 RIOEM nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection <sup>5</sup> | PWS1846 6' pre-wire 3/8" diameter, 18 gauge, 2 circuit  |
|   |                   |   | PWS1846 Two cables: one 6' prewire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge |
|   |                   |   | PWSLV   |
|   |                   |   | PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/ low voltage wires                                    |
|   |                   |   | CP Chicago plenum   |
|   |                   |   | BAA Buy America(n) Act and/or Build America Buy America Qualified   |

| Accessories: Order as separate catalog number. |  |
|--|--|
| DGA24  | Drywall ceiling adapter, unit installation. Use G trim plus DGA accessory for fixture trim flange and fixture support in plaster or plasterboard ceilings. |
| 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, EL7L, EL14L, or E10WLCP options.
- 3 GZ1, GZ10 not available with any Controls options.
- 4 NLTAIR2 RIO available with MDR diffuser only. See UL 924 Sequence of Operation chart on page 3. When combined with the EZ1 option, can be used as a normal power sensing device for nLight AIR devices and luminaires with EM emergency options.
- 5 See UL924 Sequence of Operation chart on page 3.
- 6 Not available with N80, N80EMG, N100, N100EMG, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV.

# 2AVL 2x4 Direct/Indirect Lighting

| Performance Data      |        |             |     |
|-----------------------|--------|-------------|-----|
| Lumen Package         | Lumens | Input Watts | LPW |
| 2AVL4 30LSE MDR LP830 | 2802   | 36          | 78  |
| 2AVL4 30LSE MDR LP835 | 2906   | 36          | 81  |
| 2AVL4 30LSE MDR LP840 | 3009   | 36          | 84  |
| 2AVL4 30LSE MDR LP850 | 3009   | 36          | 84  |
| 2AVL4 30LHE MDR LP830 | 2984   | 30          | 98  |
| 2AVL4 30LHE MDR LP835 | 3094   | 30          | 102 |
| 2AVL4 30LHE MDR LP840 | 3205   | 30          | 105 |
| 2AVL4 30LHE MDR LP850 | 3205   | 30          | 105 |
| 2AVL4 40LSE MDR LP830 | 3870   | 47          | 81  |
| 2AVL4 40LSE MDR LP835 | 4014   | 47          | 85  |
| 2AVL4 40LSE MDR LP840 | 4157   | 47          | 88  |
| 2AVL4 40LSE MDR LP850 | 4157   | 47          | 88  |
| 2AVL4 40LHE MDR LP830 | 3935   | 41          | 96  |
| 2AVL4 40LHE MDR LP835 | 4080   | 41          | 100 |
| 2AVL4 40LHE MDR LP840 | 4226   | 41          | 103 |
| 2AVL4 40LHE MDR LP850 | 4226   | 41          | 103 |
| 2AVL4 50LSE MDR LP830 | 4771   | 62          | 78  |
| 2AVL4 50LSE MDR LP835 | 4948   | 62          | 80  |
| 2AVL4 50LSE MDR LP840 | 5125   | 62          | 83  |
| 2AVL4 50LSE MDR LP850 | 5125   | 62          | 83  |
| 2AVL4 50LHE MDR LP830 | 4870   | 50          | 97  |
| 2AVL4 50LHE MDR LP835 | 5051   | 50          | 100 |
| 2AVL4 50LHE MDR LP840 | 5231   | 50          | 104 |
| 2AVL4 50LHE MDR LP850 | 5231   | 50          | 104 |

### How to Estimate Delivered Lumens in Emergency Mode

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

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output 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.

### UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

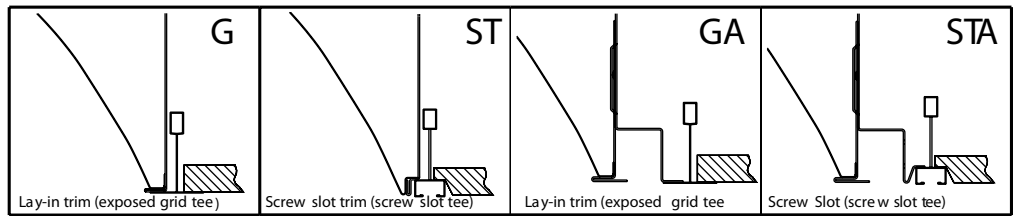
| Lumen Package | UGR Values of AVL 2x4 @ 80CRI and 3500K<br>(70% 50% 20% reflectance using a 4H x 8H room size) |         |           |         |
|---------------|--|---------|-----------|---------|
|               | ADP  |         | MDR       |         |
|               | Crosswise  | Endwise | Crosswise | Endwise |
| 3000LSE       | 18   | 19.9    | 16        | 17.4    |
| 3000LHE       | 19.1   | 21.2    | 16.4      | 19.1    |
| 4000LSE       | 19.1   | 21.1    | 17.1      | 18.5    |
| 4000LHE       | 20.1   | 22.2    | 17.4      | 20.1    |
| 5000LSE       | 19.9   | 21.8    | 17.8      | 19.2    |
| 5000LHE       | 20.8   | 22.9    | 18.1      | 20.8    |

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

# 2AVL 2x4 Direct/Indirect Lighting

## MOUNTING DATA

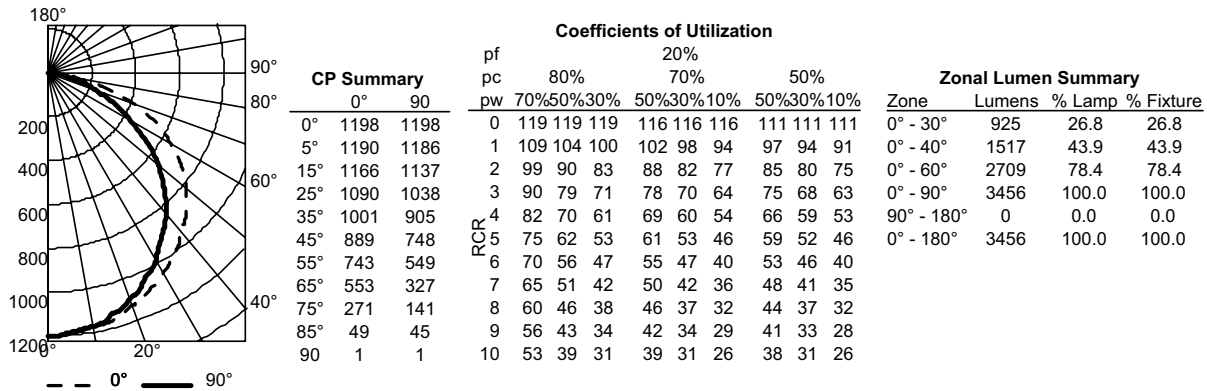
| Ceiling Type                    | Appropriate Trim Type |
|---------------------------------|-----------------------|
| Exposed grid tee (1" and 9/16") | G                     |
| Concealed grid tee              | G                     |
| Screw slot                      | ST                    |
| Plaster or plasterboard         | G*                    |



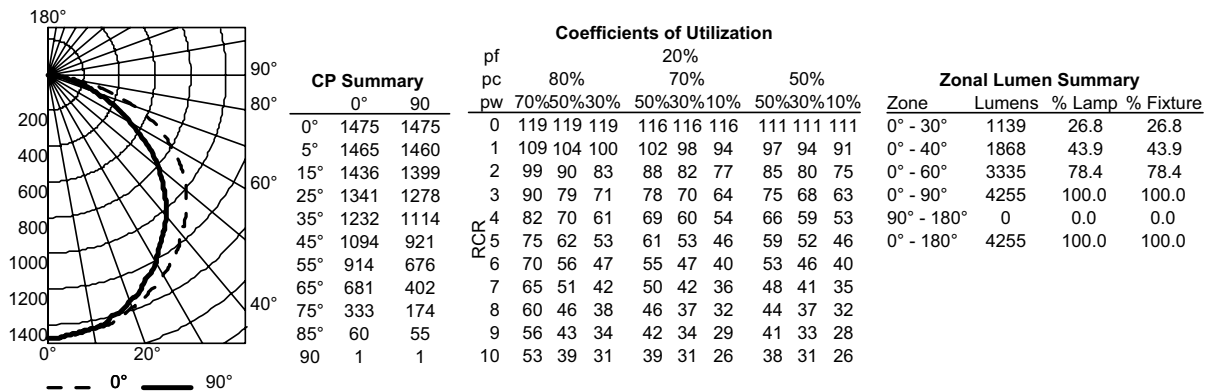
\*DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 24-3/4" x 48-3/4" (Tolerance is +1/8", -0").

## PHOTOMETRICS

### 2AVL4 30LHE MDR LP835, 3094 delivered lumens



### 2AVL4 40LHE MDR LP835, 4006 delivered lumens



### 2AVL4 50LHE MDR LP835, 5050 delivered lumens

