

FEATURES & SPECIFICATIONS

INTENDED USE — The Avante 1x4 is a general lighting luminaire. Row or unit mount to provide ambient lighting for large spaces. Makes for excellent corridor lighting. Use AVL 1x4 in conjunction with 2x4's to fill difficult areas of lighting layout. **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.

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 (SBL) sides of perforated metal with staggered round holes and solid blade louvered center. Sides and louver 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 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 AVL 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.

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 U.S. 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.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. 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.

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

Specifications subject to change without notice.

Catalog Number
Notes
Type

Avante[®]
Direct/Indirect Lighting

AVL4



1' X 4'
LED



eldoLED[®]

Specifications

Length:	47.75 (121.3)
Width:	11.75 (29.8)
Depth:	5-1/2 (14.0)
Weight:	22 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.

*See ordering tree for details

AVL 1x4 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: AVL4 18L MDR EZ1 LP835

AVL4					
Series	Trim type	Air function	Lumens ¹	Diffuser	Voltage
AVL4 AV LED	(blank) Grid trim ST Screw slot	(blank) Static (no air function)	18L 1800 lumens 25L 2500 lumens	MDR Metal diffuser, round holes	(blank) MVOLT (120 - 277V) 347 347V

Driver	Color temperature	Controls	Options
EZ1 eldoLED dims to 1% (0-10 volt dimming)	LP830 3000 K	(blank) No controls	CP Chicago plenum ³
GZ1 Dims to 1% (0-10V dimming) ²	LP835 3500 K	N80 nLight® with 80% lumen management	BAA Buy America(n) Act Compliant
GZ10 Dims to 10% (0-10V dimming) ²	LP840 4000 K	N80EMG nLight® with 80% lumen management. For use with generator supply EM power	BDP Disconnect Plug
	LP850 5000 K	N100 nLight® without lumen management	
		N100EMG nLight® without lumen management. For use with generator supply EM power	
		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	

Accessories: Order as separate catalog number.	
DGA14	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

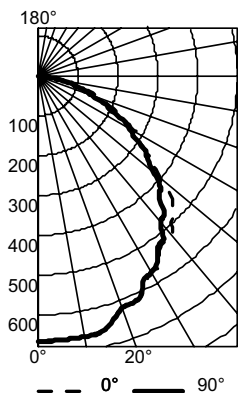
- 1 Approximate lumen output.
- 2 GZ1, GZ10 drivers not available with any Controls options.
- 3 Not available with N80, N80EMG, N100, N100EMG, PWS1836, PWS1846, PWS1846 PWSLV or PWS1856LV.

Performance Data			
Lumen Package	Lumens	Input Watts	LPW
AVL4 18L MDR LP830	1757	20	90
AVL4 18L MDR LP835	1788	20	91
AVL4 18L MDR LP840	1818	20	93
AVL4 18L MDR LP850	1818	20	93
AVL4 25L MDR LP830	2400	27	90
AVL4 25L MDR LP835	2441	27	92
AVL4 25L MDR LP840	2483	27	93
AVL4 25L MDR LP850	2483	27	93

AVL 1x4 Direct/Indirect Lighting

PHOTOMETRICS

AVL4 18L MDR LP835, 1788 delivered lumens



CP Summary

	0°	90°
0°	666	666
5°	665	665
15°	658	658
25°	611	608
35°	532	523
45°	475	429
55°	332	329
65°	224	198
75°	111	96
85°	35	20
90°	1	1

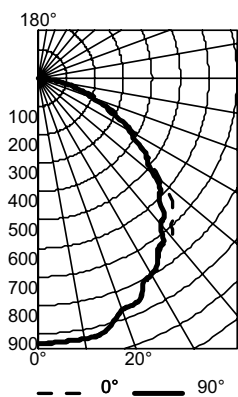
Coefficients of Utilization

pc	20%								
	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	105	100	102	99	95	98	95	92
2	100	91	85	90	83	78	86	81	76
3	91	81	72	79	72	66	76	70	64
4	83	71	63	70	62	56	68	61	55
5	77	64	55	63	54	48	61	53	48
6	71	57	49	57	48	42	55	47	42
7	66	52	43	51	43	37	50	42	37
8	61	48	39	47	39	33	46	38	33
9	57	44	35	43	35	30	42	35	30
10	53	40	32	40	32	27	39	32	27

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	526	28.2	28.2
0° - 40°	863	46.3	46.3
0° - 60°	1519	81.4	81.4
0° - 90°	1866	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	1866	100.0	100.0

AVL4 25L MDR LP835, 2441 delivered lumens



CP Summary

	0°	90°
0°	934	934
5°	932	933
15°	922	922
25°	857	853
35°	747	733
45°	667	601
55°	466	461
65°	315	277
75°	156	134
85°	49	27
90°	1	1

Coefficients of Utilization

pc	20%								
	80%			70%			50%		
pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	105	100	102	99	95	98	95	92
2	100	91	85	90	83	78	86	81	76
3	91	81	72	79	72	66	76	70	64
4	83	71	63	70	62	56	68	61	55
5	77	64	55	63	54	48	61	53	48
6	71	57	49	57	48	42	55	47	42
7	66	52	43	51	43	37	50	42	37
8	61	48	39	47	39	33	46	38	33
9	57	44	35	43	35	30	42	35	30
10	53	40	32	40	32	27	39	32	27

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	738	28.2	28.2
0° - 40°	1210	46.3	46.3
0° - 60°	2129	81.4	81.4
0° - 90°	2616	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	2616	100.0	100.0

Lumen Package	UGR Values of AVL 1x4 @ 80CRI and 3500K UGR (70% 50% 20% reflectance using a 4H x 8H room size)			
	MDR		SBL	
	Crosswise	Endwise	Crosswise	Endwise
1800LM	17.7	16.5	18.3	17.5
2500LM	18.7	17.6	19.4	18.5

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