

FEATURES & SPECIFICATIONS

INTENDED USE — The Avante 2x2 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.](#)

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 (SBL) 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. 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.

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.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions

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

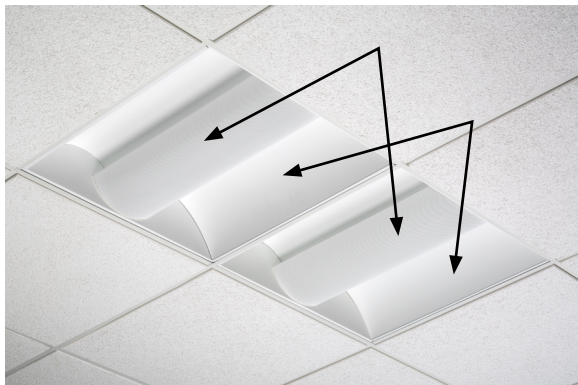
All values are design or typical values, measured under laboratory conditions at 25 °C.

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.

(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

2AVL2



2' X 2'
LED



eldoLED®

Specifications

Length:	24 (61.0)
Width:	24 (61.0)
Diffuser width:	8 (20.3)
Depth:	5-1/2 (14.0) 5-7/8 (14.9) for air fixture
Weight:	20 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

2AVL 2x2 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: 2AVL2 20LSE MDR EZ1 LP835

2AVL2					
Series	Trim type	Air function	Lumens ¹	Diffuser	Voltage
2AVL2 AV LED	(blank) Grid trim ST Screw slot	(blank) Static (no air function) A Air return/Supply	Standard Efficiency 20LSE 2000 lumens 30LSE 3000 lumens 40LSE 4000 lumens High Efficiency 20LHE 2000 lumens 30LHE 3000 lumens 40LHE 4000 lumens	MDR Metal diffuser, round holes SBL Straight louver, round holes ADP Acrylic diffuser, linear prismatic lens	(blank) MVOLT (120 - 277V) 347 347V ²

Driver	Color temperature	Controls	Options
EZ1 eldoLED dims to 1% (0-10 volt dimming)	LP830 3000 K LP835 3500 K	(blank) No controls	JP20 Palletized job pack, qty. 20
GZ1 Dims to 1% (0-10V dimming) ³	LP840 4000 K LP850 5000 K	N80 nLight® with 80% lumen management	EL7L 700 lumen battery pack (non-CEC compliant) ¹
GZ10 Dims to 10% (0-10V dimming) ³		N80EMG nLight® with 80% lumen management. For use with generator supply EM power	EL14L 1400 lumen battery pack (non-CEC compliant) ¹
		N100 nLight® without lumen management	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant
		N100EMG nLight® without lumen management. For use with generator supply EM power	CP Chicago plenum
		NLTAIR2 RIO nLight AIR radio module without sensors ⁴	

Accessories: Order as separate catalog number.

DGA22 Drywall ceiling adapter, unit installation. Use G trim plus DGA accessory for fixture trim flange and fixture support in plaster or plasterboard ceilings.

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.

2AVL 2x2 Direct/Indirect Lighting

Performance Data			
Lumen Package	Lumens	Input Watts	LPW
2AVL2 20LSE MDR LP830	2028	22	92
2AVL2 20LSE MDR LP835	2063	22	94
2AVL2 20LSE MDR LP840	2098	22	95
2AVL2 20LSE MDR LP850	2098	22	95
2AVL2 20LHE MDR LP830	2052	20	101
2AVL2 20LHE MDR LP835	2087	20	102
2AVL2 20LHE MDR LP840	2122	20	104
2AVL2 20LHE MDR LP850	2122	20	104
2AVL2 30LSE MDR LP830	3055	34	89
2AVL2 30LSE MDR LP835	3108	34	91
2AVL2 30LSE MDR LP840	3160	34	92
2AVL2 30LSE MDR LP850	3160	34	92
2AVL2 30LHE MDR LP830	3035	31	99
2AVL2 30LHE MDR LP835	3087	31	100
2AVL2 30LHE MDR LP840	3140	31	102
2AVL2 30LHE MDR LP850	3140	31	102
2AVL2 40LSE MDR LP830	4062	48	84
2AVL2 40LSE MDR LP835	4132	48	85
2AVL2 40LSE MDR LP840	4202	48	87
2AVL2 40LSE MDR LP850	4202	48	87
2AVL2 40LHE MDR LP830	4069	41	99
2AVL2 40LHE MDR LP835	4139	41	101
2AVL2 40LHE MDR LP840	4209	41	103
2AVL2 40LHE MDR LP850	4209	41	103

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.

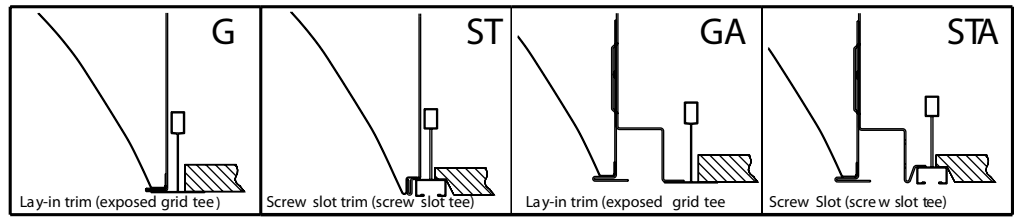
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

2AVL 2x2 Direct/Indirect Lighting

MOUNTING DATA

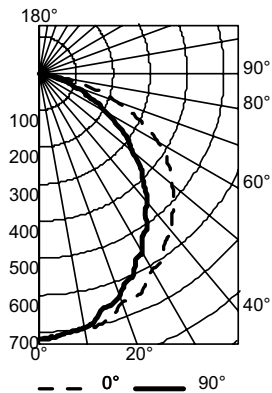
Ceiling Type	Appropriate Trim Type
Exposed grid tee (1" and 9/16")	G
Concealed grid tee	G
Screw slot	ST
Plaster or plasterboard	G*



*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

2AVL2 20LHE MDR LP835, 2087 delivered lumens



CP Summary

	0°	90°
0°	718	718
5°	708	709
15°	695	661
25°	654	602
35°	585	507
45°	516	395
55°	423	280
65°	300	142
75°	141	51
85°	1	1
90°	1	1

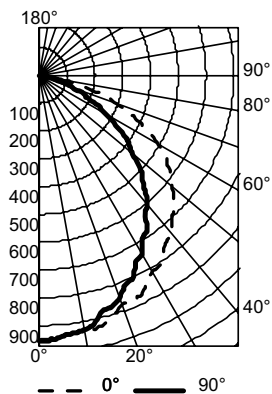
Coefficients of Utilization

ROR	pw	80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	60	60	60	58	58	58	56	56	56	56
1	54	52	50	51	49	47	49	47	46	46
2	49	45	42	44	41	39	43	40	38	38
3	45	40	36	39	35	32	37	34	32	32
4	41	35	31	35	30	27	33	30	27	27
5	38	31	27	31	27	23	30	26	23	23
6	35	28	24	28	24	20	27	23	20	20
7	32	26	21	25	21	18	24	21	18	18
8	30	23	19	23	19	16	22	19	16	16
9	28	21	17	21	17	14	21	17	14	14
10	26	20	16	20	16	13	19	15	13	13

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	555	13.7	27.3
0° - 40°	907	22.3	44.6
0° - 60°	1607	39.5	79.0
0° - 90°	2034	50.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	2034	50.0	100.0

2AVL2 30LHE MDR LP835, 3087 delivered lumens



CP Summary

	0°	90°
0°	955	955
5°	942	942
15°	924	879
25°	869	801
35°	777	674
45°	685	525
55°	563	373
65°	399	189
75°	188	68
85°	2	2
90°	1	1

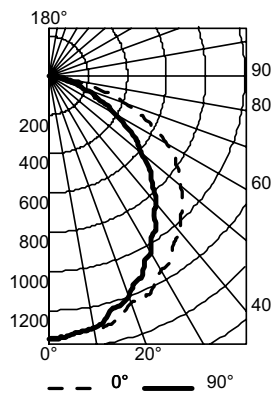
Coefficients of Utilization

ROR	pw	80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	60	60	60	58	58	58	56	56	56	56
1	54	52	50	51	49	47	49	47	46	46
2	49	45	42	44	41	39	43	40	38	38
3	45	40	36	39	35	32	37	34	32	32
4	41	35	31	35	30	27	33	30	27	27
5	38	31	27	31	27	23	30	26	23	23
6	35	28	24	28	24	20	27	23	20	20
7	32	26	21	25	21	18	24	21	18	18
8	30	23	19	23	19	16	22	19	16	16
9	28	21	17	21	17	14	21	17	14	14
10	26	20	16	20	16	13	19	15	13	13

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	738	13.7	27.3
0° - 40°	1207	22.3	44.6
0° - 60°	2137	39.5	79.0
0° - 90°	2705	50.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	2705	50.0	100.0

2AVL2 40LHE MDR LP835, 4139 delivered lumens



CP Summary

	0°	90°
0°	1344	1344
5°	1326	1326
15°	1300	1237
25°	1223	1127
35°	1094	949
45°	965	738
55°	792	525
65°	561	266
75°	264	95
85°	2	2
90°	1	1

Coefficients of Utilization

ROR	pw	80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	60	60	60	58	58	58	56	56	56	56
1	54	52	50	51	49	47	49	47	46	46
2	49	45	42	44	41	39	43	40	38	38
3	45	40	36	39	35	32	37	34	32	32
4	41	35	31	35	30	27	33	30	27	27
5	38	31	27	31	27	23	30	26	23	23
6	35	28	24	28	24	20	27	23	20	20
7	32	26	21	25	21	18	24	21	18	18
8	30	23	19	23	19	16	22	19	16	16
9	28	21	17	21	17	14	21	17	14	14
10	26	20	16	20	16	13	19	15	13	13

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1039	13.7	27.3
0° - 40°	1698	22.3	44.6
0° - 60°	3007	39.5	79.0
0° - 90°	3806	50.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	3806	50.0	100.0