LITHONIA LIGHTING®

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.**

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.

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.

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® Direct/Indirect Lighting

2AVL

2' X 4'
LED

Specifications

Length:	48 (121.9)
Width:	24 (61.0)
Diffuser width:	8 (20.3)
Depth:	5-1/2 (14.0)
	5-7/8 (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*

*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

2AVL4

Series	Trim type	Air function	Lumens[1]	Diffuser	Voltage
2AVL4 AV LED	**(blank)** Grid trim	**(blank)** Static (no air function)	30L 3000 lumens	MDR Metal diffuser, round holes	**(blank)** MVOLT (120 - 277V)
	ST Screw slot	A Air return/Supply	**40L 4000 lumens**	SBL Straight louver, round holes	
			50L 5000 lumens	**ADP Acrylic diffuser, linear prismatic lens**	

Driver	Color temperature	Controls		Options	
EZ1 eldoLED dims to 1% (0-10 volt dimming)	LP830 3000 K	**(blank)**	No controls	JP10	Palletized job pack, qty. 10
GZ1 Dims to 1% (0-10V dimming)[2]	LP835 3500 K	N80	nLight® with 80% lumen management	EL7L	700 lumen battery pack (non-CEC compliant) [1]
GZ10 Dims to 10% (0-10V dimming)[2]	**LP840 4000 K**	N80EMG	nLight® with 80% lumen management. For use with generator supply EM power	EL14L	1400 lumen battery pack (non-CEC compliant) [1]
	LP850 5000 K	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.*

DGA24	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 GZ1, GZ10 not available with any Controls options.
3 NLTAIR2 RIO available with MDR diffuser only.

Performance Data			
Lumen Package	Lumens	Input Watts	LPW
30L MDR LP830	3295	38	87
30L MDR LP835	3456	38	91
30L MDR LP840	3380	38	89
30L MDR LP850	3522	38	93
40L MDR LP830	4056	48	84
40L MDR LP835	4254	48	89
40L MDR LP840	**4161**	**48**	**87**
40L MDR LP850	4336	48	90
50L MDR LP830	4857	61	80
50L MDR LP835	5095	61	84
50L MDR LP840	4983	61	82
50L MDR LP850	5193	61	85

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
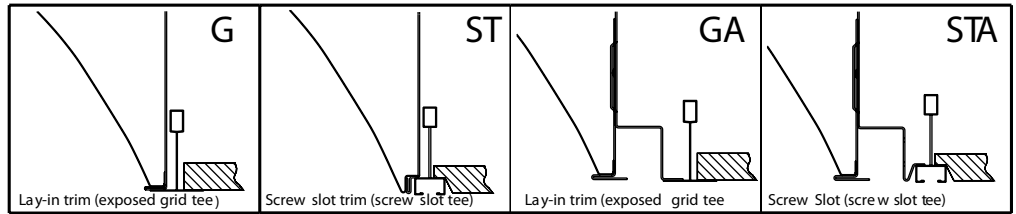P = Ouput power of emergency driver. P = 10W for E10WLCP option.
LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.
LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.
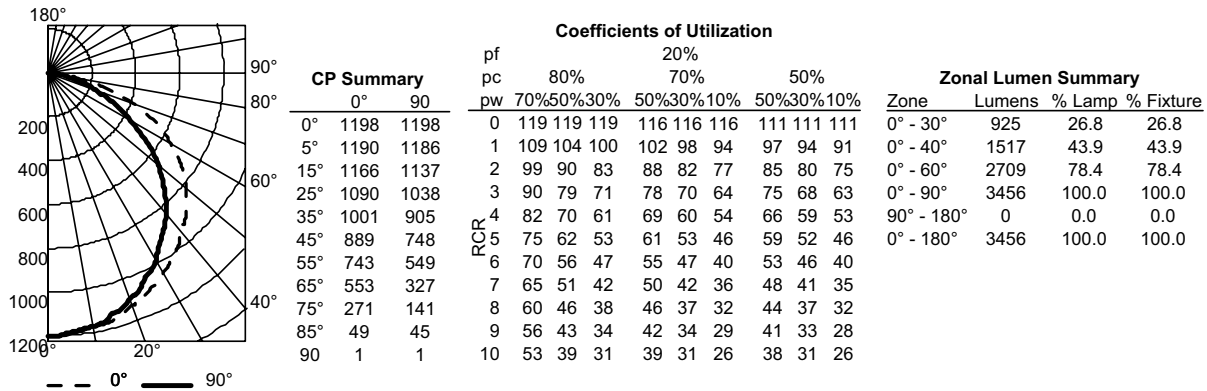
MOUNTING DATA

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

G — Lay-in trim (exposed grid tee)

ST — Screw slot trim (screw slot tee)

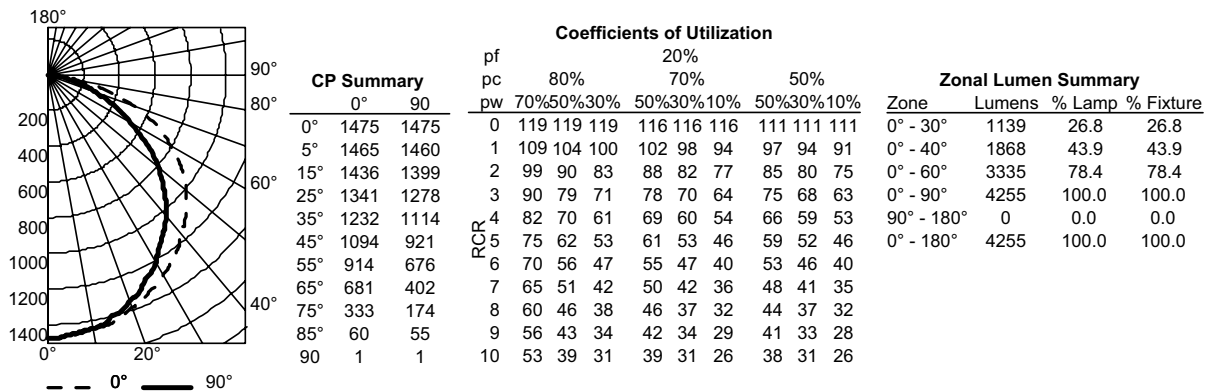**GA** — Lay-in trim (exposed grid tee)

STA — Screw Slot (screw slot tee)

*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 30L MDR LP835, 3456 delivered lumens, test no. 69071P0, tested in accordance to IESNA-LM79.

CP Summary

	0°	90
0°	1198	1198
5°	1190	1186
15°	1166	1137
25°	1090	1038
35°	1001	905
45°	889	748
55°	743	549
65°	553	327
75°	271	141
85°	49	45
90	1	1

Coefficients of Utilization

pf									
pc		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	104	100	102	98	94	97	94	91
2	99	90	83	88	82	77	85	80	75
3	90	79	71	78	70	64	75	68	63
4	82	70	61	69	60	54	66	59	53
5	75	62	53	61	53	46	59	52	46
6	70	56	47	55	47	40	53	46	40
7	65	51	42	50	42	36	48	41	35
8	60	46	38	46	37	32	44	37	32
9	56	43	34	42	34	29	41	33	28
10	53	39	31	39	31	26	38	31	26

(20% pf across top; RCR rows)

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	925	26.8	26.8
0° - 40°	1517	43.9	43.9
0° - 60°	2709	78.4	78.4
0° - 90°	3456	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	3456	100.0	100.0

2AVL4 40L MDR LP835, 4255 delivered lumens, test no. 69071P5, tested in accordance to IESNA-LM79.

CP Summary

	0°	90
0°	1475	1475
5°	1465	1460
15°	1436	1399
25°	1341	1278
35°	1232	1114
45°	1094	921
55°	914	676
65°	681	402
75°	333	174
85°	60	55
90	1	1

Coefficients of Utilization

pf									
pc		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	104	100	102	98	94	97	94	91
2	99	90	83	88	82	77	85	80	75
3	90	79	71	78	70	64	75	68	63
4	82	70	61	69	60	54	66	59	53
5	75	62	53	61	53	46	59	52	46
6	70	56	47	55	47	40	53	46	40
7	65	51	42	50	42	36	48	41	35
8	60	46	38	46	37	32	44	37	32
9	56	43	34	42	34	29	41	33	28
10	53	39	31	39	31	26	38	31	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1139	26.8	26.8
0° - 40°	1868	43.9	43.9
0° - 60°	3335	78.4	78.4
0° - 90°	4255	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	4255	100.0	100.0

2AVL4 50L MDR LP835, 5095 delivered lumens, test no. 69071P9, tested in accordance to IESNA-LM79.

CP Summary

	0°	90
0°	1766	1766
5°	1755	1749
15°	1720	1676
25°	1606	1531
35°	1476	1334
45°	1310	1103
55°	1095	809
65°	815	482
75°	399	208
85°	72	66
90	1	1

Coefficients of Utilization

pf									
pc		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	104	100	102	98	94	97	94	91
2	99	90	83	88	82	77	85	80	75
3	90	79	71	78	70	64	75	68	63
4	82	70	61	69	60	54	66	59	53
5	75	62	53	61	53	46	59	52	46
6	70	56	47	55	47	40	53	46	40
7	65	51	42	50	42	36	48	41	35
8	60	46	38	46	37	32	44	37	32
9	56	43	34	42	34	29	41	33	28
10	53	39	31	39	31	26	38	31	26

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1364	26.8	26.8
0° - 40°	2237	43.9	43.9
0° - 60°	3993	78.4	78.4
0° - 90°	5096	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	5096	100.0	100.0

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