

ALD8ST

ALD8ST combines clean lines with high performance direct asymmetric distribution, for a functional and aesthetically pleasing slim profile.

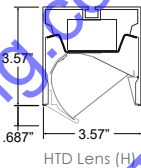


Performance

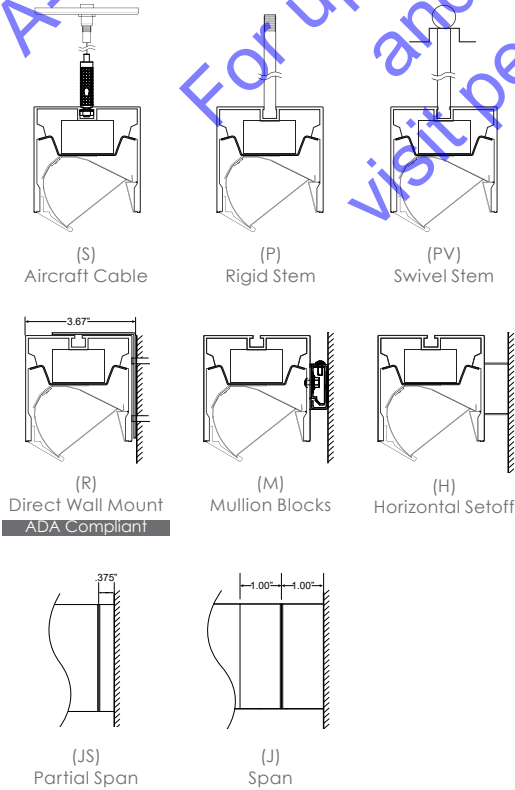
OUTPUT	DELIVERED		
	LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	897 lm/ft	13 W/ft	69 lm/W

Based on static white 3500K LED lens fixtures. The data shown represents the highest output configuration. For complete photometric data, refer to page 5.

Dimensions



Mounting options



Lens options





Need help?
Don't see what you need?
We know that having so many options can be overwhelming. Please reach out to our factory for any specific request or questions you have.

Our Design Assist team
(designassist@alights.com)
is here to make the process move smoothly.

ALD8ST						
SERIES	LENGTH	OUTPUT	LED CCT	CRI	VOLTAGE	DIRECT OPTICS
ALD8ST	_ M_ Nominal Length ¹ Exact Length ²	LS Standard Output LH High Output C_ Custom Output ¹	27 2700k 30 3000k 35 3500k 40 4000k DW Dim-to-warm ¹ TW Tunable white ¹	80+ CRI 90+ CRI ¹	U 120-277V 3 347V ¹	H HTD Lens TM
¹ Specify in feet to the nearest foot (i.e. 12) ² Specify in 6" increments (i.e. M198.00)		¹ Contact Design Assist for custom tuning or non-standard light outputs.		¹ Not available with Tunable White or Dim-to-Warm LED CCT.		¹ For wall mountings beam direction points away from wall. Contact Design Assist for different beam optic direction.

MOUNTING	FINISH	DIMMING	EMERGENCY	OPTIONS
S Aircraft cable ¹ P_ Rigid stem ² PV_ Swivel stem ² R Direct wall mount M_ Mullion Blocks ³ H_ Horizontal Setoff Bracket ⁴ JS Partial span S Full span F Surface Mount ⁵	W White B Black T Titanium O_ Other 	D Standard 0-10V dimming D2 Phase dimming ¹ D3 DMX 0.1% dim-to-dark D4 DALI dim-to-off	EC Circuited ¹ E_ Battery ² Not available for 347V. See technical data for more information. Not available on fixtures < 4' length.	M Multi-Circuit ¹ R Right Endcap Feed L Left Endcap Feed
¹ Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. ² Standard 48" field adjustable cable, specify length to nearest inch if over 48". ³ Indicate stem length to nearest inch. 6.00" minimum - 98" maximum. Coupler and multiple stems will be provided to requests longer than 98". ⁴ Direct stems with coupler not recommended if fixture is exposed to winds/swivel pendant stem. ⁵ Adjustable mounting. Enter 1 for 1" depth. Enter 5 for 1/2" depth. ⁶ Enter 1 for 1" depth. Enter 5 for 1/2" depth. ⁷ Available for ceiling and wall surface mounting.				
¹ Specify RAL# or other custom color.		¹ 1% dimming standard unless otherwise specified. ² Reference ERP-PHB driver for compatible dimmers.		¹ Submit multi-circuiting requirements

Light distribution

DISTRIBUTION

Direct Asymmetric

OUTPUT (DC)

LVH : Very high output - 13 W/ft
LH: High output - 10.5 W/ft
LS: Standard output - 5 W/ft
C: Custom tuned output - Contact Design Assist

Photometric Data

DIRECT ASYMMETRIC

LVH - 4FT - 3500K - HTD LENS

Lumens: 897 lm/ft
Input watts: 13 W/ft
Efficacy: 69 lm/W

LH: ———
LS: - - - - -

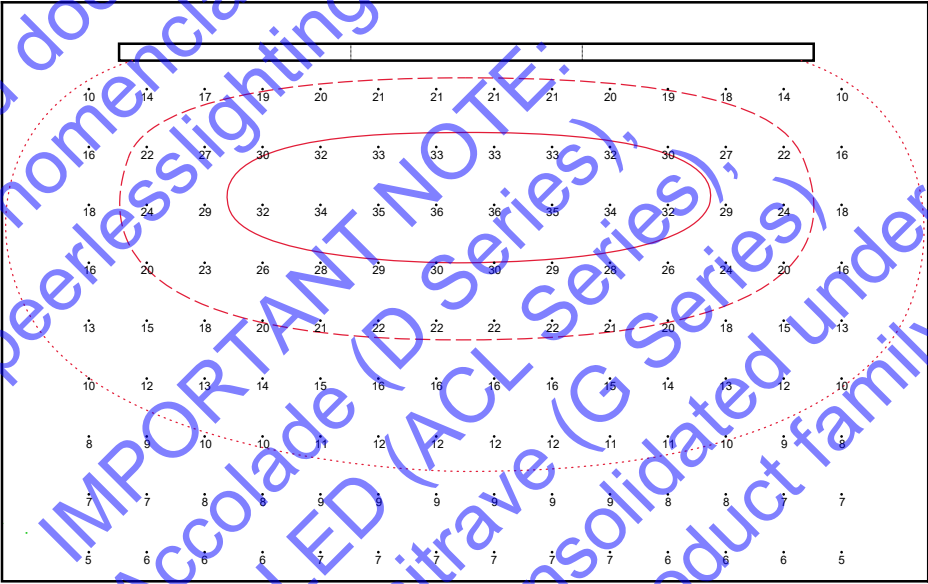


Sample Installation - Accent wall

LH DOWN - 4000K

Wall height: 10' ft
Reflectance: 80% / 50% / 20%
Mounting height: 9 ft A.F.F.
Distance from wall: 3 ft
Fixture length: 12 ft
Calculation grid: 1 ft x 1 ft
Calculation plane (Vertical): On wall
Average Illuminance (Ev): 17 fc
Uniformity: 7.2:1 (max/min)

FRONT VIEW
30 fc: ———
20 fc: - - - - -
10 fc: - - - - -



Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY	
				ASYMMETRIC	
		CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000k	1.02	0.84	70 lm/W	58 lm/W
	3500k	1	0.83	69 lm/W	57 lm/W
	3000k	0.97	0.81	67 lm/W	56 lm/W
	2700k	0.94	0.79	65 lm/W	55 lm/W
LH (high)	4000k	1.02	0.84	71 lm/W	59 lm/W
	3500k	1	0.83	70 lm/W	58 lm/W
	3000k	0.97	0.81	68 lm/W	57 lm/W
	2700k	0.94	0.79	66 lm/W	55 lm/W
LS (standard)	4000k	1.02	0.84	78 lm/W	64 lm/W
	3500k	1	0.83	76 lm/W	63 lm/W
	3000k	0.97	0.81	74 lm/W	62 lm/W
	2700k	0.94	0.79	71 lm/W	60 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT	
				ASYMMETRIC	
		CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000k	1.02	0.84	915 lm/ft	753 lm/ft
	3500k	1	0.83	897 lm/ft	745 lm/ft
	3000k	0.97	0.81	870 lm/ft	727 lm/ft
	2700k	0.94	0.79	843 lm/ft	709 lm/ft
LH (high)	4000k	1.02	0.84	750 lm/ft	617 lm/ft
	3500k	1	0.83	735 lm/ft	610 lm/ft
	3000k	0.97	0.81	713 lm/ft	595 lm/ft
	2700k	0.94	0.79	691 lm/ft	581 lm/ft
LS (standard)	4000k	1.02	0.84	388 lm/ft	319 lm/ft
	3500k	1	0.83	380 lm/ft	315 lm/ft
	3000k	0.97	0.81	369 lm/ft	308 lm/ft
	2700k	0.94	0.79	357 lm/ft	300 lm/ft



LINEAR DIMENSIONS

Nominal or exact lengths in 6" increments available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 feet.

Custom - Contact [Design Assist](#) for modifications to product not detailed within specification sheets.

OPTICS

HTD™ lens is a high performance polycarbonate opal lens. An optimized surface texture plus advanced diffusing additives produce an impressive 93% transmission while eliminating LED hotspots.

LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard, High and Very High outputs. Refer to photometry for delivered lumens.

LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -20°C to 50°C, maximum case temperature of 80°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency.

EMERGENCY

This luminaire is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains long-life Ni-Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, by others in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2 foot end in the direct portion of the fixture.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

CONTROLS

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

MOUNTING

Suspension with aircraft cables or pendant stems, and full or partial span mounting available.

Aircraft cable set includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length, comes factory installed in fixture. 4-1/2" x 4-1/2" square white canopies. Cord strain also included. Power cord options available for aircraft cable. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

Rigid pendant stem set includes 1/4" hollow white threaded rod for suspension and power feed, standard specification length, 6" minimum and up to 98" maximum. Anything longer will be made up of multiple stems with couplers, provided by factory. 5" square mono point white canopies.

Swivel stem set includes 1/4" hollow white threaded rod for suspension and power feed, standard specification length, 6" minimum and up to 98" maximum. Anything longer will be made up of multiple stems with couplers, provided by factory; longer stems that require couplers are not recommended to be installed in direct contact with wind that will create a swivel. 5" square mono point white 45 degree angle swivel stem.

Specify if other suspension length is required. Canopies provided as required for quantity of power feed and non power feed locations (crossbar included for power feed only). Specify if other shape, size, or color is required.

Direct wall mounting is ADA compliant. Factory pre-drilled holes can be tapped for 1/2" chase nipple, submit dimension requirements when ordering. The top groove of the fixture is used to mount the fixture and provides a firm and flexible mounting option. Factory pre-drilled hole for power feed can be drilled, submit dimension requirements when ordering.

Surface ceiling and wall mounting is offered with die-cast mounting blocks with sheet metal brackets used to provide a firm flexible mounting option in any orientation the system might be installed in. Submit whip length if required.

Mullion blocks are used to mount fixture to a horizontal or vertical window mullion and can also be used to offset fixture from wall. 0.5", 1" or 1.5" sheet metal mullion blocks are standard available. (2) blocks provided for extrusions 8ft or less, fixtures larger than 8ft additional blocks are provided as required. Quantity of power feed and non power feed blocks provided as required. Fixture mounting requires field drilled mounting and power feed holes. Factory pre-drilled holes can be drilled and tapped for 1/2" chase nipple, submit dimension requirements when ordering.

Horizontal Set-off brackets are used to offset fixture from a wall by 1" or 1/2". Wall side bracket attaches to horizontal single gang box on wall. Outside horizontal box is factory-installed to fixture side. Fixture side box hinges over wall bracket and two brackets are fastened together with set screw to secure fixture to wall. (2) brackets per fixture up to 12', on center spacing varies depending on overall fixture length.

Partial /Full span mounting conditions utilize special expansion joint end caps to mount fixture to wall (blocking required) and feed power through the end cap, specify end feed location. Additional attachment hardware provided as required depending on partial span condition. Provide architectural details at time of ordering for inclusion in factory shop drawings; field verified dimensions required for full span mounting.

FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

LISTING

UL/CUL rated for Damp Locations. Tested in accordance with UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

The ALD8ST is assembled in the U.S.A. and complies with the Buy America(n) Act (BAA) government procurement requirements under FAR, DFARS, and DOT.

WARRANTY

Please refer to the full terms and conditions on our website:
www.alights.com/downloads/warranty/