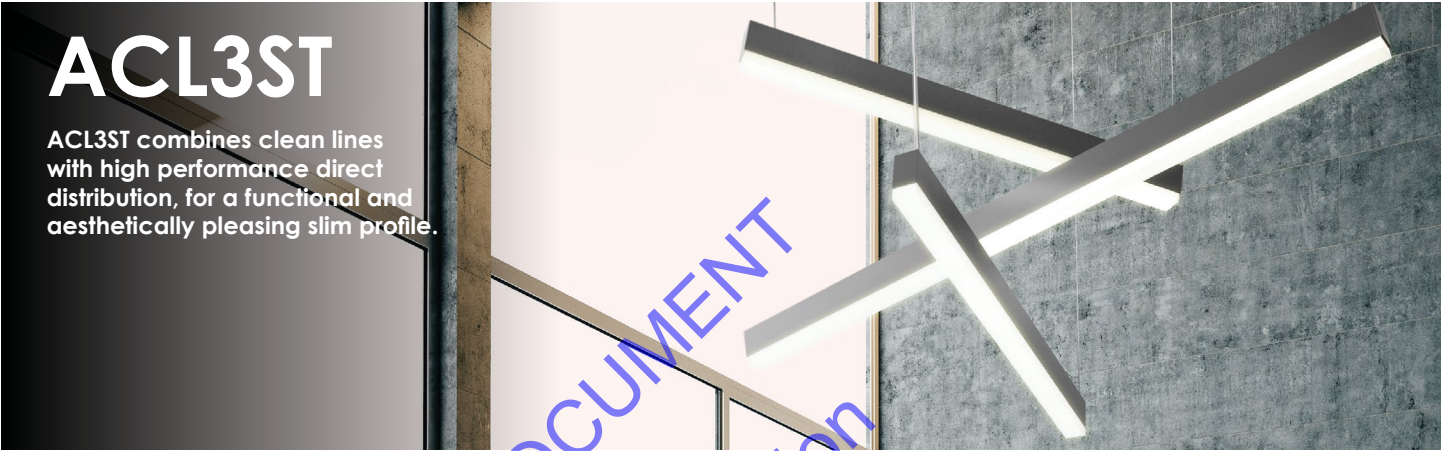




ACL3ST

ACL3ST combines clean lines with high performance direct distribution, for a functional and aesthetically pleasing slim profile.

nLIGHT

Controls

eldoLED

Drivers

WET

Location

ADA

Compliant

HE

Tech lens

Buy American

5Y

Warranty

Buy America

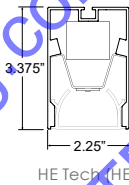
Certified

Performance

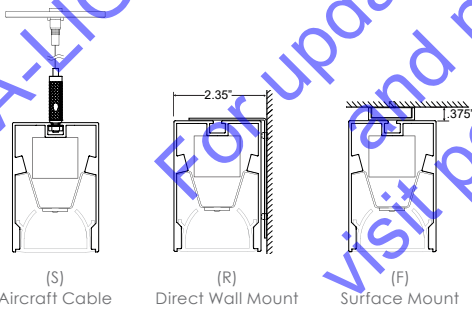
OUTPUT	DIRECT OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	HE Tech™	1229 lm/ft	13.5 W/ft	91 lm/W

Based on static white 35K HE lens fixtures. For the complete photometric data of this fixture refer to pages 2 and 3.

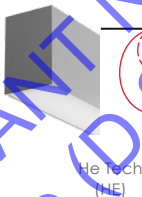
Dimensions



Mounting options



Downlight 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.

Fast track nomenclature only. For complete nomenclature see "standard" specsheet.

ACL3ST							
SERIES	LENGTH		OUTPUT		LED CCT	CRI	VOLTAGE
ACL3ST	—	Nominal Length ¹	LS LH LVH C—	Standard Output High Output Very high Output Custom Output ¹	30 35 40 3000k 3500k 4000k	80+ CRI	U 120V-277V
¹ Specify in feet to the nearest foot (i.e. 12)			¹ Contact Design Assist for custom tuning or non-standard light outputs.				

DIRECT OPTICS		MOUNTING		FINISH		DIMMING		OPTIONS		OTHER			
HE	HE Tech	S R F	Aircraft cable ¹ Direct wall mount Surface Mount ²	W B T	White Black Titanium	D NAIR	Standard 0-10V dimming ¹ nLight @AIR (dim-to-off) ²	R L Q	Right end cap feed Left end cap feed Wet location ¹	FT	Fast Track ¹		
Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. Standard power cord exit point is 3" away from endcap. Contact Design Assist for custom location. ¹Standard 48" field adjustable cable, specify length to nearest inch if over 48". ²Available for ceiling and wall surface mounting.				¹1% Dimming standard unless otherwise specified. ²nLight AIR components completely integrated into fixture.				¹Not available with aircraft cable. Wet location suitable in full coverage and/or mullion mounted applications [direct to sky not recommended]; not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information.				¹Option must be in part number in order to be considered fast track.	

Light distribution

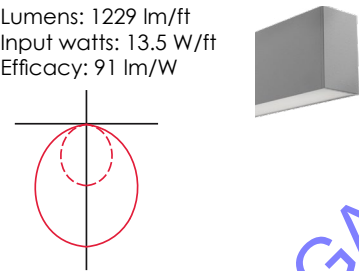
OUTPUT (DC)

LVH: Very high output - 13 W/ft
LH: High output - 10 W/ft
LS: Standard output - 5 W/ft
C: Custom tuned output - Contact Design Assist

Photometric data

HE TECH™

LVH- 4FT- 3500K

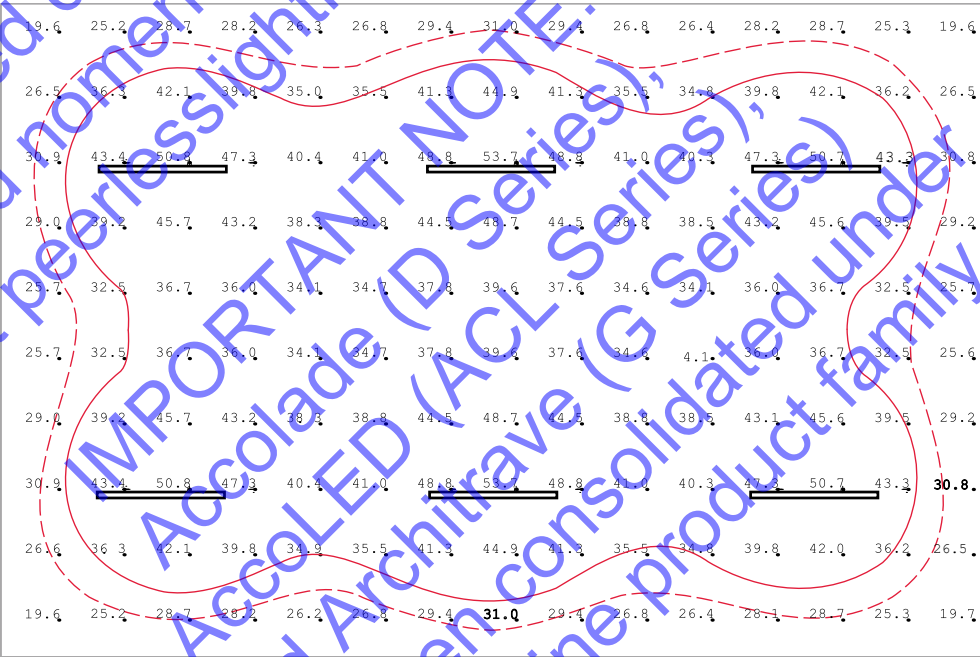


Sample installation - Workspace

LH DOWN - 3500K

Room dimensions: 30'L x 20'W x 12'H
Reflectance: 80% / 50% / 20%
Mounting height: 9 ft A.F.F.
Fixture length: 4 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): 2.5 ft A.F.F.
Average Illuminance: 36 fc
Fixture spacing: 10 ft x 10 ft
Uniformity: 1.9:1 (avg/min)

TOP VIEW
30 fc: ———
25 fc: - - - - -



Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY	
				HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	93 lm/W	76 lm/W
	3500K	1	0.83	91 lm/W	76 lm/W
	3000K	0.97	0.81	88 lm/W	74 lm/W
	2700K	0.94	0.79	86 lm/W	72 lm/W
LH (high)	4000K	1.02	0.84	98 lm/W	81 lm/W
	3500K	1	0.83	96 lm/W	80 lm/W
	3000K	0.97	0.81	93 lm/W	78 lm/W
	2700K	0.94	0.79	90 lm/W	76 lm/W
LS (standard)	4000K	1.02	0.84	106 lm/W	87 lm/W
	3500K	1	0.83	104 lm/W	86 lm/W
	3000K	0.97	0.81	101 lm/W	84 lm/W
	2700K	0.94	0.79	98 lm/W	82 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT	
				HE TECH	
		CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	1253 lm/ft	1032 lm/ft
	3500K	1	0.83	1229 lm/ft	1020 lm/ft
	3000K	0.97	0.81	1192 lm/ft	995 lm/ft
	2700K	0.94	0.79	1155 lm/ft	971 lm/ft
LH (high)	4000K	1.02	0.84	979 lm/ft	806 lm/ft
	3500K	1	0.83	960 lm/ft	797 lm/ft
	3000K	0.97	0.81	931 lm/ft	778 lm/ft
	2700K	0.94	0.79	902 lm/ft	758 lm/ft
LS (standard)	4000K	1.02	0.84	530 lm/ft	437 lm/ft
	3500K	1	0.83	520 lm/ft	432 lm/ft
	3000K	0.97	0.81	504 lm/ft	421 lm/ft
	2700K	0.94	0.79	489 lm/ft	411 lm/ft

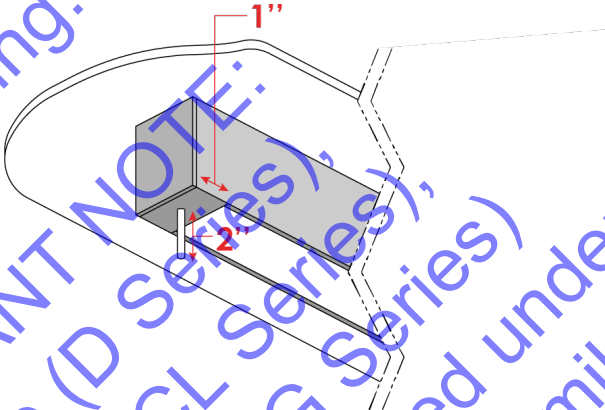
nLight dimensions

AIR : r10

AIR : r10 Surface

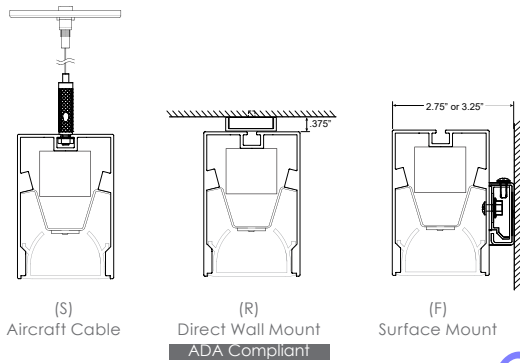


*Module for nLight AIR only.



*Fixture mounted sensors and filler panel for nLightAIR only.

Mounting



Mounting lengths



Standard dimensions shown for suspension points, all aircraft cable mounting lengths are adjustable on site.

LINEAR DIMENSIONS

Nominal lengths available as individual fixtures or joined to create continuous row lengths.

OPTICS

The high-efficiency extruded diffuse acrylic lens technology, patented HE Tech™, features an integrated opaque white reflector. It delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

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; 90+ CRI available. 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.

CONTROLS

Integrated nLight ® for system networking wireless:

NLIGHT ® AIR WIRELESS

The rIO model IS available for integration.

MOUNTING

Aircraft cable set includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length and adjustable suspension points to accommodate existing architecture, comes factory pre-installed in fixture. 4-1/2" x 4-1/2" square white canopies, unless otherwise noted. Cord strain also included for power canopies. 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.

Specify if another suspension length is required. Canopies provided as required for the quantity of power feed and non-power feed locations (crossbar included for power feed only). Specify if another 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.

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.

FINISH

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black.

LISTING

UL/CUL rated for damp locations. Tested under UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

UL Wet location label available. Complies with UL definition of wet locations to prevent the accumulation of water on live parts, electrical components, other conductor not identified for use in contact with water through the provision of weep holes. Waterproof connector to be provided by others. Installing contractor responsible for properly sealing and waterproofing all mounting and power feed locations.

The ACL3ST is assembled in the U.S.A. and complies with the Buy America(n) Act (BAA), Build America, Buy America (BABA) government procurement requirements under FAR, DFARS, and DOT.

WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for five (5) year. LED products (LED boards and drivers) will be covered for five (5) years. Please refer to the full terms and conditions on our website: www.alights.com/downloads/warranty/