

ACL3ST

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

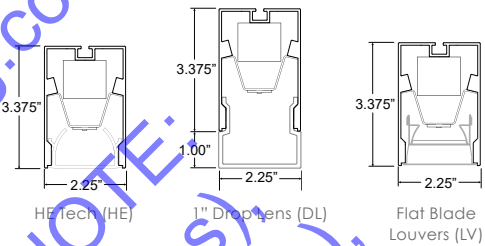


Performance

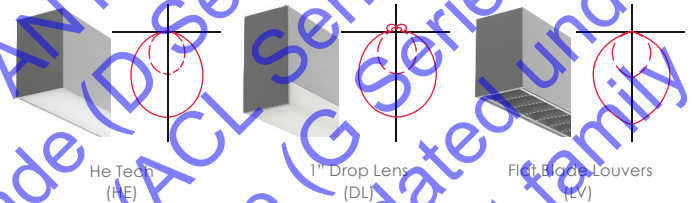
OUTPUT	DIRECT OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	HE Tech™	1229 lm/ft	13.5 W/ft	91 lm/W
	1" Drop Lens	1148 lm/ft	13.5 W/ft	85 lm/W
	Batwing Wide	1256 lm/ft	13.5 W/ft	93 lm/W
	Flat Blade Louver	810 lm/ft	13.5 W/ft	60 lm/W
	Wall Wash	1188 lm/ft	13.5 W/ft	88 lm/W
	Room Fill	1188 lm/ft	13.5 W/ft	88 lm/W

Based on static white 35K HE lens fixtures. For the complete photometric data of this fixture refer to pages 3 and 4.

Dimensions



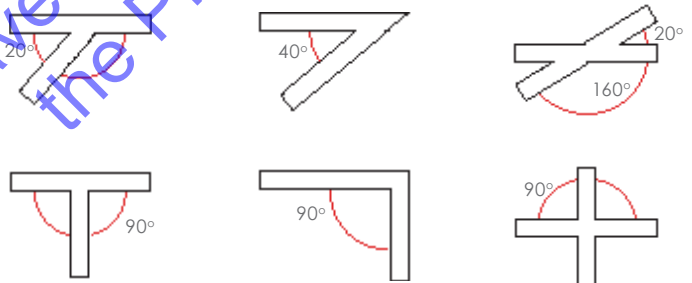
Downlight lens options



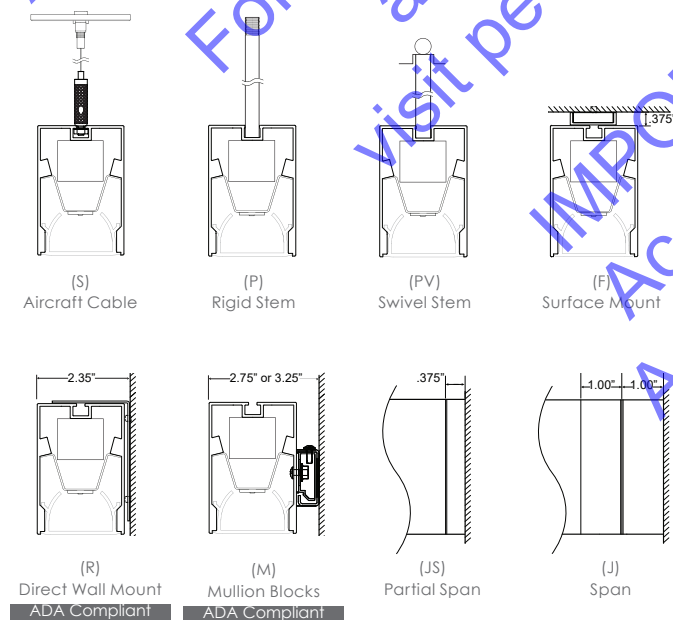
Other options



Multiple intersections and corners options



Mounting options



Project name _____ Type _____ Date _____ Quantities _____



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.

ACLS3T						
SERIES	LENGTH OR PATTERN TYPE	INTERSECTION TYPE	OUTPUT	LED CCT	CRI	
ACLS3T	Nominal Length ¹ Exact Length ² "L" Shape ³ "U" Shape ³ Rectangle/Square ³ Custom Pattern ⁴	IT "I" Intersection ¹ IX "X" Intersection ¹ IY "Y" Intersection ²	LS Standard Output LH High Output LVH Very High Output C_ Custom Output ¹	27 2700k 30 3000k 35 3500k 40 4000k DW Dim-to-warm ¹ TW Tunable White ^{1,2} RW RGBW (full color + 3000k White) ^{2,3}	80+ CRI 90+ CRI ¹	
Indicate length of each section of pattern either nominal or exact. ¹ Specify in feet to the nearest foot (i.e. 12'). ² Specify in inches to the nearest 1/8" (i.e. 180/25'). ³ Specify in inches to the nearest 1/8". ⁴ Contact Design Assist			¹ Standard CCT range is 27-50K. Contact Design Assist for custom range. ² Photometric data pending for Tunable White and RGBW. ³ RGBW is UL pending and only available in DMX dimming. Contact Design Assist for white CCTs other than 3000K.			¹ Not available with (TW) Tunable White or (DW) Dim-to-Warm. Contact Design Assist to discuss RGBW possibilities.

VOLTAGE	DIRECT OPTICS	MOUNTING	FINISH	DIMMING
U 120V-277V 3 347V ¹	HE HE Tech DL 1" Drop Lens ¹ LV Flat blade louvers ² WW Direct Wall Wash BW Direct Bar/Wing Wide RF Room Fill	S Aircraft cable P_ Rigid stem ² PV Swivel stem ² R Direct wall mount M Mullion blocks ³ F Surface mount ⁴ JS Partial span ⁵ S Full span ⁵ Standard power cord exit point is 3" away from endcap. Contact Design Assist for custom location. Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. Standard 48" field adjustable cable, specify length to nearest inch if over 48". Indicate stem length to nearest inch, 6.00" minimum - 96" maximum. Coupler and multiple stems will be provided to requests longer than 96". Longer stems with coupler not recommended if fixture is exposed to winds/swivel pendant stem. ¹ Enter 1 for 1" depth. Enter 3 for 1/2" depth. ² Available for ceiling and wall surface mounting. ³ Not available with drop lens.	W White B Black T Titanium O Other ¹ CBP CBP SPN SPN SCV SCV SMN SMN SFH SFH SDW SDW LME LME	D Standard 0-10V dimming ¹ D2 Phase dimming ² D3 DMX 0.1% dim-to-dark D4 DALI dim-to-off (EldoLED) NAIR nLight @AIR (dim-to-off) ³ NWIR nLight @Wired (dim-to-off)
¹ Not available with LEDcode or EM.	¹ Not available in Wet Location. ² Aluminum Standard. Not available in Wet Location.		¹ Specify DALI# or other custom color	¹ 1% Dimming standard unless otherwise specified. ² Refer to 6EP-PHB driver for compatibility dimmers. ³ Lighting components completely integrated into fixture. Not available with 347V + LEDcode or EM. If 347V, only available 100-16V.

EMERGENCY	SENSORS	OPTIONS
EC Circuited ¹ E_ Battery ² Not available for 347V. See technical data for more information. Not available on fixtures < 4' length.	OF Occupancy Sensor - Fixture PF Photocell / Daylight Sensor - Fixture OPF Occupancy / daylight Sensor - Fixture Specify quantity of sensors per fixture. Sensors will be matched to dimming input. All sensors to be integral to fixture. Remote sensors are to be provided by others.	M Multi-Circuit ¹ R Right end cap feed L Left end cap feed K Natrium application ² Q Wet location ³ MRI MRI ⁴ ¹ Submit multi-circuiting requirements. ² Not available with aircraft cable. See guide and contact Design Assist. Not compatible with Drop Lens, Flat Blade Louvers. ³ Not available with aircraft cable. Wet location suitable in full coverage and 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. Not compatible with Drop Lens, Flat Blade Louvers optics. ⁴ Review MRI brochure for more information.
¹ Indicate length of separate EM circuit. If unknown, a 4' circuit will be provided by default. For full-length EM fixtures, no need to indicate EC. 4' fixtures will have a separate 2' EM circuit section. ² Factory-installed emergency battery pack. Specify desired quantity of batteries		

Light distribution

OUTPUT (DC)

LVH: Very high output - 13 W/ft

LH: High output - 10 W/ft

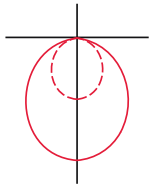
LS: Standard output - 5 W/ft

C: Custom tuned output - Contact Design Assist

Photometric data

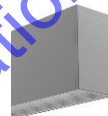
HE TECH™

LVH- 4FT- 3500K

Lumens: 1229 lm/ft
Input watts: 13.5 W/ft
Efficacy: 91 lm/W

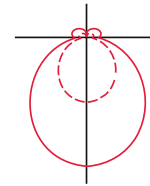
DIRECT FLAT BLADE LOUVERS

LVH- 4FT- 3500K

Lumens: 810 lm/ft
Input watts: 13.5 W/ft
Efficacy: 60 lm/W

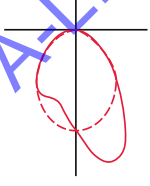
DIRECT 1" DROP-LENS

LVH- 4FT- 3500K

Lumens: 1148 lm/ft
Input watts: 13.5 W/ft
Efficacy: 85 lm/W

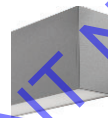
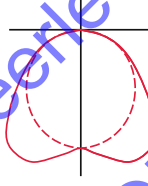
DIRECT WALL WASH

LVH- 4FT- 3500K

Lumens: 1188 lm/ft
Input watts: 13.5 W/ft
Efficacy: 88 lm/W

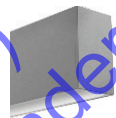
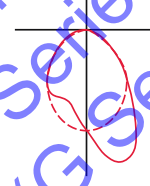
DIRECT BATWING

LVH- 4FT- 3500K

Lumens: 1256 lm/ft
Input watts: 13.5 W/ft
Efficacy: 93 lm/W

DIRECT ROOM FILL

LVH- 4FT- 3500K

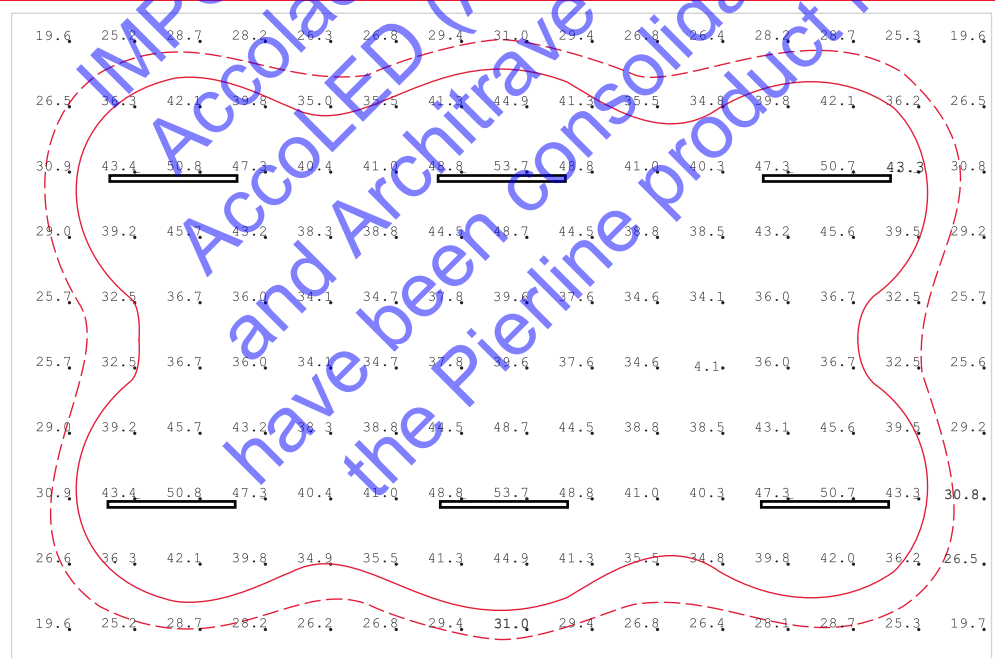
Lumens: 1188 lm/ft
Input watts: 13.5 W/ft
Efficacy: 88 lm/W

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 ft: ———
25 ft: - - - - -

Project name

Type

Date

Quantities

Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		DIRECT EFFICACY											
				HETECH		FLAT BLADE LOUVER		1" DROP LENS		WALL WASH		BATWING		ROOM FILL	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	93 lm/W	76 lm/W	61 lm/W	50 lm/W	87 lm/W	71 lm/W	90 lm/W	74 lm/W	95 lm/W	78 lm/W	90 lm/W	74 lm/W
	3500K	1	0.83	91 lm/W	76 lm/W	60 lm/W	50 lm/W	85 lm/W	71 lm/W	88 lm/W	73 lm/W	93 lm/W	77 lm/W	88 lm/W	73 lm/W
	3000K	0.97	0.81	88 lm/W	74 lm/W	58 lm/W	49 lm/W	82 lm/W	69 lm/W	85 lm/W	71 lm/W	90 lm/W	75 lm/W	85 lm/W	71 lm/W
	2700K	0.94	0.79	86 lm/W	72 lm/W	56 lm/W	47 lm/W	80 lm/W	67 lm/W	83 lm/W	70 lm/W	87 lm/W	73 lm/W	83 lm/W	70 lm/W
LH (high)	4000K	1.02	0.84	98 lm/W	81 lm/W	62 lm/W	51 lm/W	92 lm/W	76 lm/W	90 lm/W	74 lm/W	99 lm/W	81 lm/W	90 lm/W	74 lm/W
	3500K	1	0.83	96 lm/W	80 lm/W	61 lm/W	51 lm/W	90 lm/W	75 lm/W	88 lm/W	73 lm/W	97 lm/W	81 lm/W	88 lm/W	73 lm/W
	3000K	0.97	0.81	93 lm/W	78 lm/W	59 lm/W	49 lm/W	87 lm/W	73 lm/W	85 lm/W	71 lm/W	94 lm/W	79 lm/W	85 lm/W	71 lm/W
	2700K	0.94	0.79	90 lm/W	76 lm/W	57 lm/W	48 lm/W	85 lm/W	71 lm/W	83 lm/W	70 lm/W	91 lm/W	77 lm/W	83 lm/W	70 lm/W
LS (standard)	4000K	1.02	0.84	106 lm/W	87 lm/W	67 lm/W	55 lm/W	99 lm/W	81 lm/W	98 lm/W	81 lm/W	108 lm/W	89 lm/W	98 lm/W	81 lm/W
	3500K	1	0.83	104 lm/W	86 lm/W	66 lm/W	55 lm/W	97 lm/W	81 lm/W	96 lm/W	80 lm/W	106 lm/W	88 lm/W	96 lm/W	80 lm/W
	3000K	0.97	0.81	101 lm/W	84 lm/W	64 lm/W	53 lm/W	94 lm/W	79 lm/W	93 lm/W	78 lm/W	103 lm/W	86 lm/W	93 lm/W	78 lm/W
	2700K	0.94	0.79	98 lm/W	82 lm/W	62 lm/W	52 lm/W	91 lm/W	77 lm/W	90 lm/W	76 lm/W	100 lm/W	84 lm/W	90 lm/W	76 lm/W

OUTPUT	CCT	LLF RATIO		DIRECT LUMEN OUTPUT											
				HETECH		FLAT BLADE LOUVER		1" DROP LENS		WALL WASH		BATWING		ROOM FILL	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	1253 lm/ft	1032 lm/ft	826 lm/ft	680 lm/ft	1170 lm/ft	964 lm/ft	1212 lm/ft	998 lm/ft	1281 lm/ft	1055 lm/ft	1212 lm/ft	998 lm/ft
	3500K	1	0.83	1229 lm/ft	1020 lm/ft	810 lm/ft	672 lm/ft	1148 lm/ft	952 lm/ft	1188 lm/ft	986 lm/ft	1256 lm/ft	1042 lm/ft	1188 lm/ft	986 lm/ft
	3000K	0.97	0.81	1192 lm/ft	995 lm/ft	786 lm/ft	656 lm/ft	1113 lm/ft	929 lm/ft	1152 lm/ft	962 lm/ft	1218 lm/ft	1017 lm/ft	1152 lm/ft	962 lm/ft
	2700K	0.94	0.79	1155 lm/ft	971 lm/ft	761 lm/ft	640 lm/ft	1079 lm/ft	907 lm/ft	1117 lm/ft	939 lm/ft	1180 lm/ft	992 lm/ft	1117 lm/ft	939 lm/ft
LH (high)	4000K	1.02	0.84	979 lm/ft	806 lm/ft	622 lm/ft	512 lm/ft	918 lm/ft	756 lm/ft	898 lm/ft	739 lm/ft	989 lm/ft	815 lm/ft	898 lm/ft	739 lm/ft
	3500K	1	0.83	960 lm/ft	797 lm/ft	610 lm/ft	506 lm/ft	900 lm/ft	747 lm/ft	880 lm/ft	730 lm/ft	970 lm/ft	805 lm/ft	880 lm/ft	730 lm/ft
	3000K	0.97	0.81	931 lm/ft	778 lm/ft	592 lm/ft	494 lm/ft	873 lm/ft	729 lm/ft	854 lm/ft	713 lm/ft	941 lm/ft	786 lm/ft	854 lm/ft	713 lm/ft
	2700K	0.94	0.79	902 lm/ft	758 lm/ft	573 lm/ft	482 lm/ft	846 lm/ft	711 lm/ft	827 lm/ft	695 lm/ft	912 lm/ft	766 lm/ft	827 lm/ft	695 lm/ft
LS (standard)	4000K	1.02	0.84	530 lm/ft	437 lm/ft	337 lm/ft	277 lm/ft	495 lm/ft	407 lm/ft	490 lm/ft	403 lm/ft	541 lm/ft	445 lm/ft	490 lm/ft	403 lm/ft
	3500K	1	0.83	520 lm/ft	432 lm/ft	330 lm/ft	274 lm/ft	485 lm/ft	403 lm/ft	480 lm/ft	398 lm/ft	530 lm/ft	440 lm/ft	480 lm/ft	398 lm/ft
	3000K	0.97	0.81	504 lm/ft	421 lm/ft	320 lm/ft	267 lm/ft	470 lm/ft	393 lm/ft	466 lm/ft	389 lm/ft	514 lm/ft	429 lm/ft	466 lm/ft	389 lm/ft
	2700K	0.94	0.79	489 lm/ft	411 lm/ft	310 lm/ft	261 lm/ft	456 lm/ft	383 lm/ft	451 lm/ft	379 lm/ft	498 lm/ft	419 lm/ft	451 lm/ft	379 lm/ft

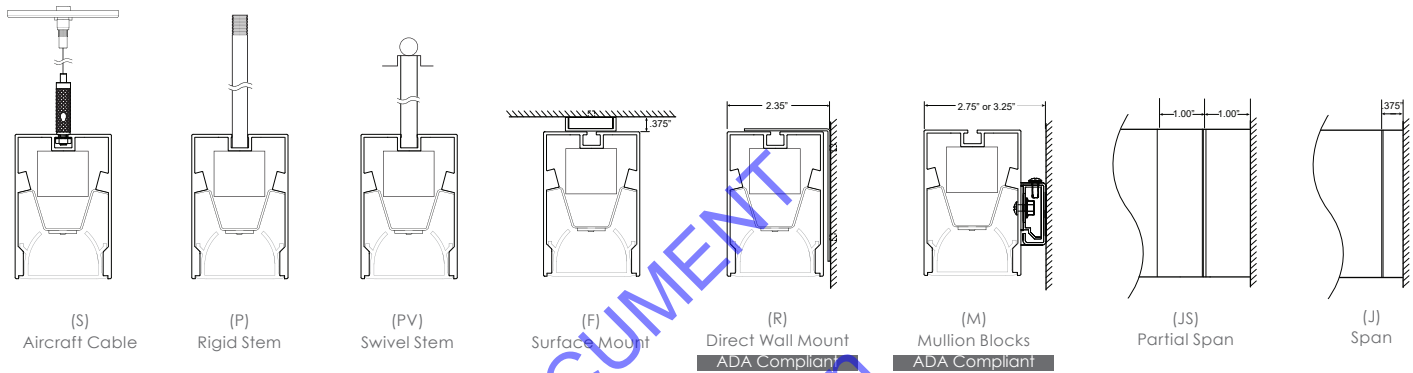
Project name

Type

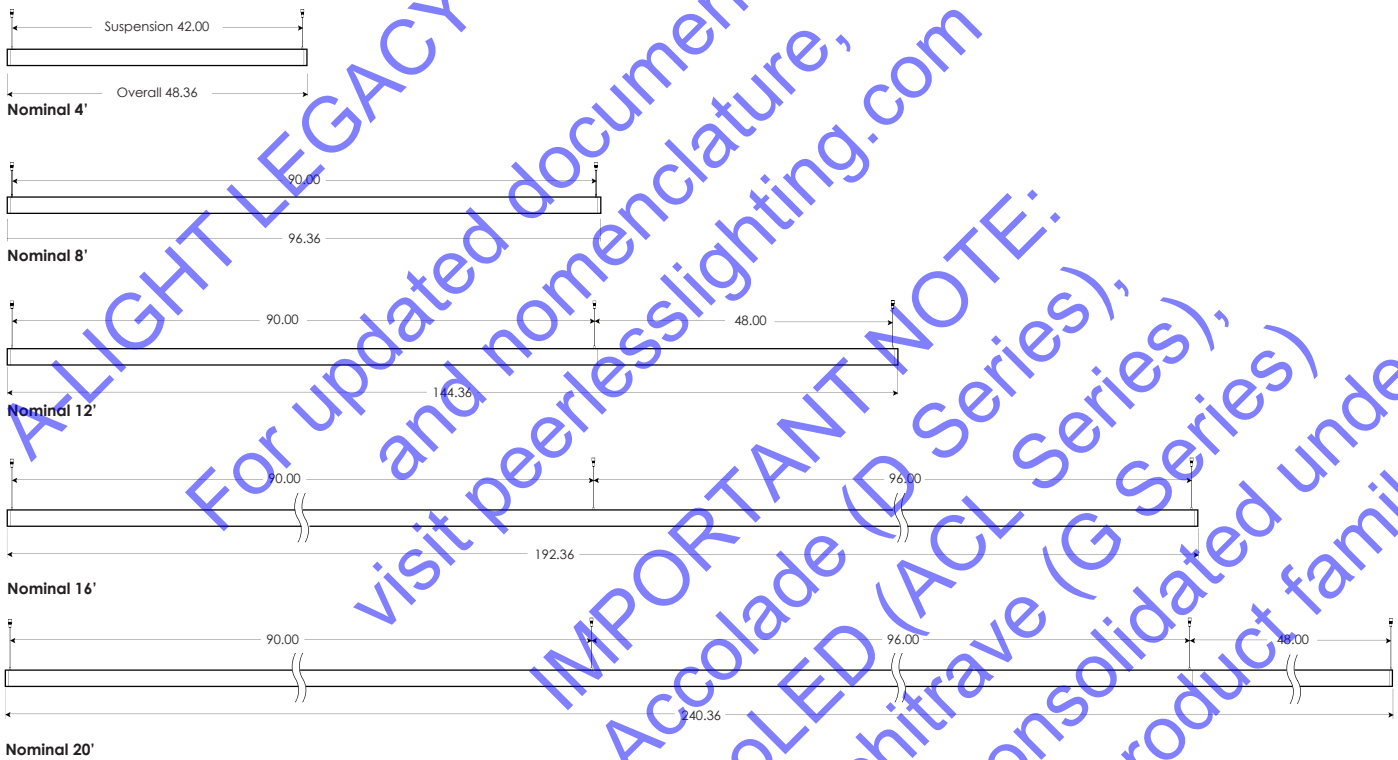
Date

Quantities

Mounting

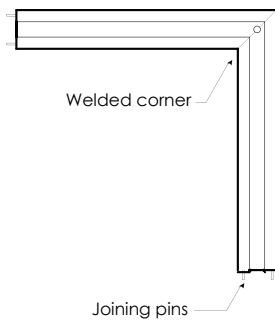


Mounting lengths

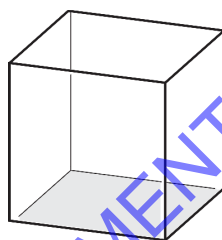


Standard dimensions shown for suspension points, all aircraft cable mounting lengths are adjustable on site.
*For nLight AIR applications: gripper needs to be at least 3.5" from the antenna. Refer to nLight dimensions section for more details.

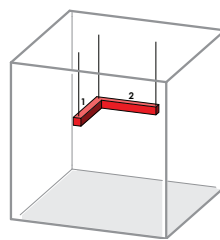
Corner detail



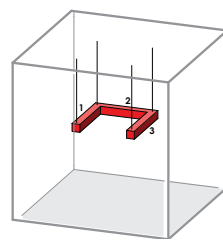
Standard patterns



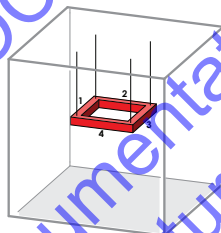
Custom Pattern*



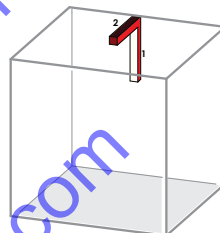
PL



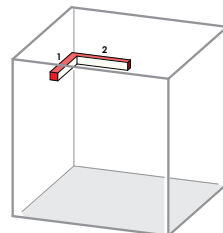
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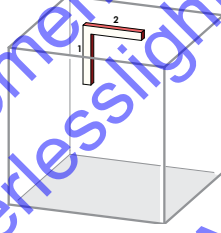
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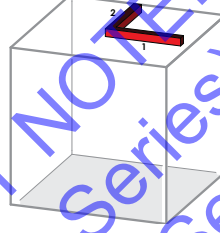
PLCW | Wall to Ceiling



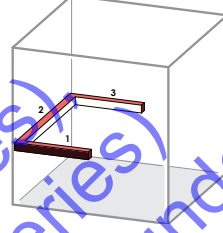
PLWW | Wall to Wall



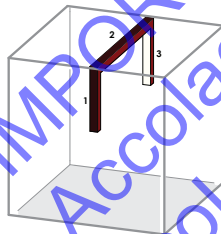
PLW | Wall Only



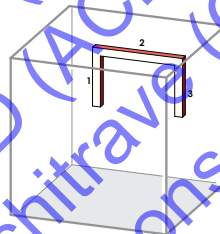
PLC | Ceiling Only



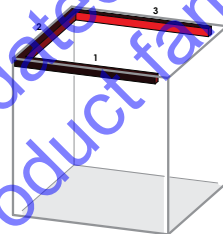
PUWW | Wall to Wall



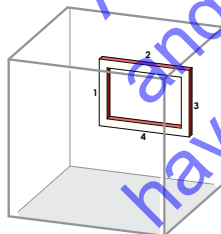
PUCW | Wall to Ceiling to Wall



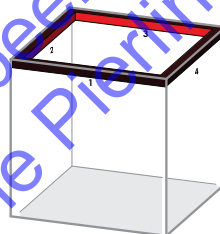
PUW | Wall Only



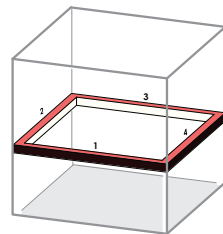
PUC | Ceiling Only



PRW | Wall Only



PRC | Ceiling Only



PRWW | Rectangle Wall to Wall

*Contact Design Assist for custom patterns.

Project name

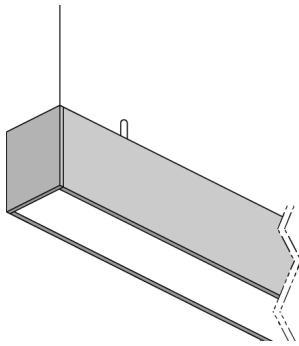
Type

Date

Quantities

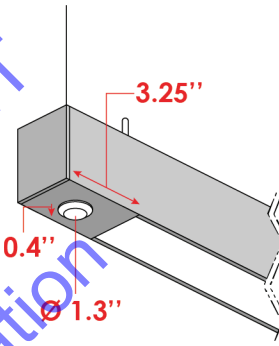
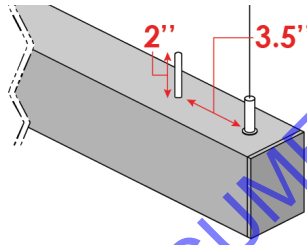
NLight dimensions

AIR : r10



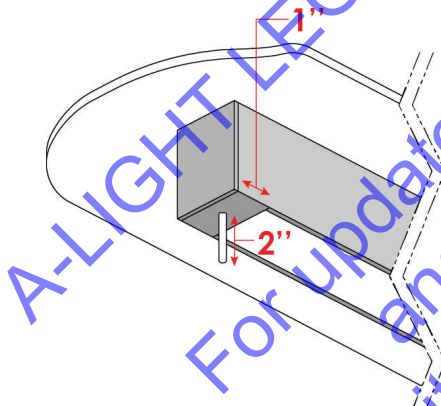
*Fixture mounted module for nLight AIR only.

AIR : res7



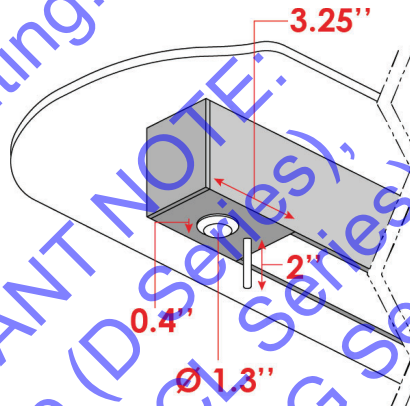
*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : r10 Surface



*Fixture mounted module filler panel for nLight AIR only.

AIR : res7 Surface



*Fixture mounted sensors and filler panel for nLight AIR only.

Project name

Type

Date

Quantities

LINEAR DIMENSIONS

Nominal length individual fixtures can be joined to create continuous row lengths.

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 foot. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions. Custom angled corners and intersections also available upon request.

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

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.

Flat Blade Louvers are used to cut down on glare and better control the light source on ACL3ST. This option includes a linear film diffuser (inserted between the louvers and the LEDs), that enhances glare control. The louvers standard finish is aluminum. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

Drop Lens is a light diffuser option for ACL3ST that turns the luminaire into a decorative graphical statement. The diffuser drops down from the luminaire's main body of 1" and sits flush with the metal end caps. Once lit, the drop lens glows vividly and offers a wider diffusion pattern.

Perimeter fill - Wall wash and Batwing wide for direct distributions are film optics that refract light along with an HE Tech™ extruded diffuse acrylic lens with integrated opaque white reflector.

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, 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. Not available in fixtures <4ft'.

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

CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight® for system networking wired and wireless:

nLIGHT® AIR WIRELESS

The integrated API smart sensor is part of each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR sensors for compatibility with an nLight Air wireless system. The rIO, rES7, rMSOD, and rCMS models are available for integration.

CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The rIO EZ PH, rIO EZDL CCT, nES7 and nCM are available for integration.

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 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.

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 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.

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.

Partial /Full span mounting conditions utilize special expansion joint end caps to mount fixture to the 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. Not available with drop lens.

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 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, DEARS, 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/