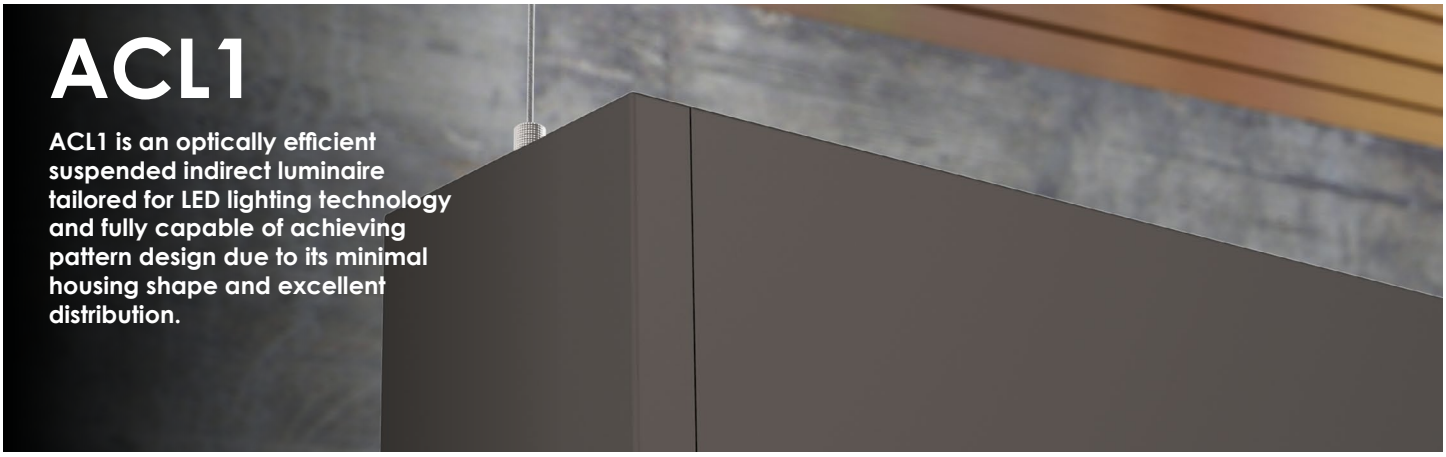
ACL1

ACL1 is an optically efficient suspended indirect luminaire tailored for LED lighting technology and fully capable of achieving pattern design due to its minimal housing shape and excellent distribution.



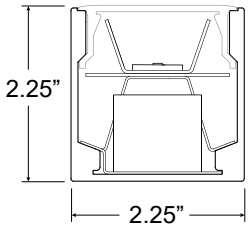
DAMP Location | nLight Controls | eldoLED Drivers | 5Y Warranty | cULus Certified | RGBW | BAA Buy American | Build America Buy America BABA | White tuning | Dim. to warm

Performance

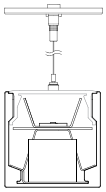
OUTPUT	INDIRECT OPTICS	DELIVERED		
		LUMEN OUTPUT	INPUT WATTS	EFFICACY
LVH (Very high)	Symmetric Wide	1440 lm/ft	20 W/ft	72 lm/W
	Symmetric Narrow	1235 lm/ft	13 W/ft	95 lm/W
	Asymmetric	775 lm/ft	12.5 W/ft	62 lm/W

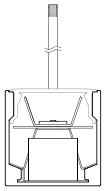
Based on static white 35K fixtures. For the complete photometric data of this fixture refer to page 3 and 4.

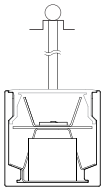
Dimensions

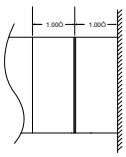


Mounting options


Aircraft Cable (S)

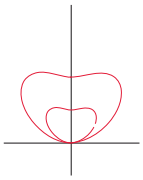

Rigid Stem (P)

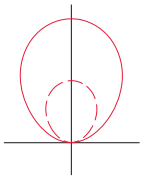

Swivel Stem (PV)

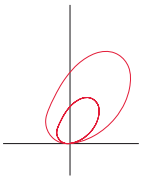

Span (J)

Partial Span (JS)

Distribution options


Symmetric Wide (M)


Symmetric Narrow (G)


Asymmetric (N)

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.

ACL1					
SERIES	**LENGTH OR PATTERN TYPE**	**INTERSECTION TYPE**	**OUTPUT**	**LED CCT**	**CRI**
ACL1	**_** Nominal Length[1] **M_** Exact Length[2] **PL_** "L" Shape[3] **PU_** "U" Shape[3] **PR_** Rectangle/Square[3] **CP** Custom Pattern[4] 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. M180.125) [3] Specify length of each side of the pattern to the nearest 1/8 (See Pattern Guide) [4] Contact Design Assist	**IT** "T" Intersection **IX** "X" Intersection **IY** "Y" Intersection	**LS** Standard Output **LH** High Output **LVH** Very High Output[1] **C_** Custom Output[2] [1] Available on "M" symmetric wide distribution only [2] Contact Design Assist for available custom tuned output range	**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] [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.	**_** 80+ CRI **CRI** 90+ CRI[1] [1] Not available with (TW) Tunable White or (DW) Dim-to-Warm. Contact Design Assist to discuss RGBW possibilities.

VOLTAGE	**INDIRECT DISTRIBUTION**	**INDIRECT OPTICS**	**MOUNTING**	**FINISH**	**DIMMING**
U 120-277V **3** 347V	**M** Symmetric Wide **G** Symmetric Narrow **N** Asymmetric	**D** Rigid Diffuse Dust Cover	**S** Aircraft Cable[1] **P_** Rigid Stem[2] **PV_** Swivel Stem[2] **JS** Partial Span **J** Full Span Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. [1] Standard 48" field adjustable cable, specify length to nearest inch if over 48". [2] Indicate stem length to nearest inch. 6.00" minimum - 98" maximum. Coupler and multiple stems will be provided to requests longer than 98". Longer stems with coupler are not recommended when using swivel pendant mounts or when exposed to wind.	**W** White **B** Black **T** Titanium **O_** Other[1] CBD SFH SPN SDW SCY LME SMN [1] Specify RAL# or other custom color.	**D** Standard 0-10V dimming[1] **D2** Phase dimming[2] **D3** DMX 0.1% dim-to-dark **D4** DALI dim-to-off [1] 1% dimming standard unless otherwise specified. [2] Reference ERP-PHB driver for compatible dimmers.

EMERGENCY	**OPTIONS**
EC Circuited[1] **E_** Battery[2] Not available for 347V. See technical data for more information. Not available on fixtures < 4' length. [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	**M** Multi-Circuit[1] **R** Right end cap feed **L** Left end cap feed **K** Natatorium application[2] **Q** Wet location[3] [1] Submit multi-circuiting requirements [2] Not available with aircraft cable and horizontal setoff bracket. See guide and contact Design Assist. Special hardware is utilized for this rating. [3] Not available with aircraft cable and horizontal setoff bracket. 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.

Project name | Type | Date | Quantities

Light distribution

DISTRIBUTION

Indirect Symmetric Wide
Indirect Symmetric Narrow
Indirect Asymmetric

OUTPUT (DC)

LVH: Very high output - 13 W/ft
LH: High output - 12.5 W/ft
LS: Standard output - 5 W/ft
C: Custom tuned output - Specify Wattage

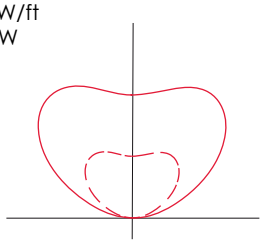
Photometric data

INDIRECT SYMMETRIC WIDE

LVH- 3500K - DUST COVER

Lumens: 1440 lm/ft
Input watts: 20 W/ft
Efficacy: 72 lm/W

ILH: ——————
ILS: — — — — —

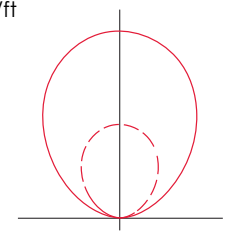


INDIRECT SYMMETRIC NARROW

LVH- 3500K - DUST COVER

Lumens: 1235 lm/ft
Input watts: 13 W/ft
Efficacy: 95 lm/W

ILH: ——————
ILS: — — — — —

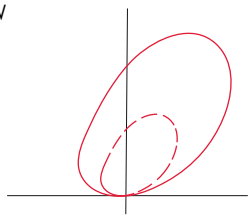


INDIRECT ASYMMETRIC

LVH- 3500K - DUST COVER

Lumens: 775 lm/ft
Input watts: 12.5 W/ft
Efficacy: 62 lm/W

ILH: ——————
ILS: — — — — —

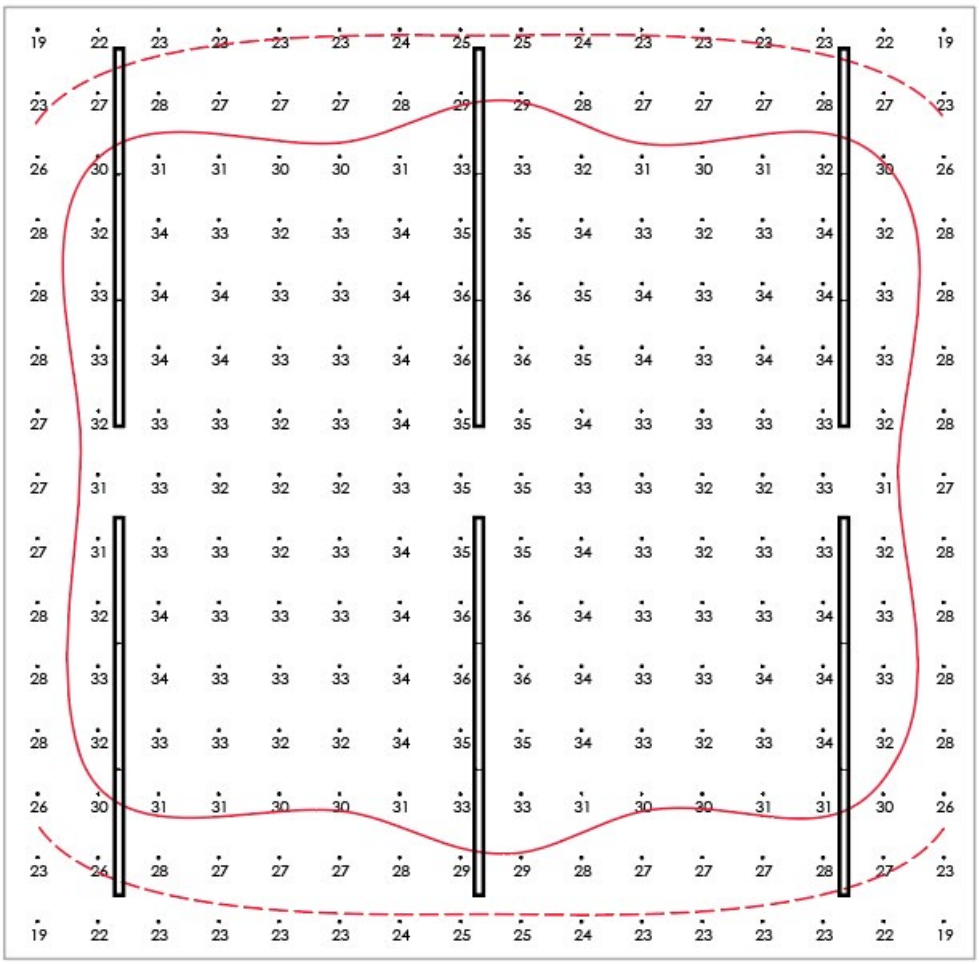


Sample installation - Workspace

SYM. WIDE - ILH / 4000K

Room dimensions: 30 ft x 32 ft x 10 ft
Reflectance: 80% / 50% / 20%
Mounting height: 8 ft A.F.F.
Fixture length: 12 ft
Calculation grid: 2 ft x 2 ft
Calculation plane (horizontal): 2.5 ft A.F.F.
Average Illuminance: 30 fc
Fixture spacing: 12 ft x 15 ft O.C.
Uniformity: 1.6:1 (avg/min)

TOP VIEW
30 fc: ——————
25 fc: — — — — —



Project name | Type | Date | Quantities

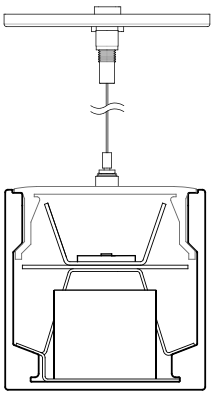
Light loss factors (LLF)

OUTPUT	CCT	LLF RATIO		INDIRECT EFFICACY					
				SYMMETRIC NARROW (G)		SYMMETRIC WIDE (M)		ASYMMETRIC (N)	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	97 lm/W	80 lm/W	73 lm/W	60 lm/W	63 lm/W	52 lm/W
	3500K	1	0.83	95 lm/W	79 lm/W	72 lm/W	60 lm/W	62 lm/W	51 lm/W
	3000K	0.97	0.81	92 lm/W	77 lm/W	70 lm/W	58 lm/W	60 lm/W	50 lm/W
	2700K	0.94	0.79	89 lm/W	75 lm/W	68 lm/W	57 lm/W	58 lm/W	49 lm/W
LH (high)	4000K	1.02	0.84	103 lm/W	85 lm/W	78 lm/W	64 lm/W	64 lm/W	53 lm/W
	3500K	1	0.83	101 lm/W	84 lm/W	76 lm/W	63 lm/W	63 lm/W	52 lm/W
	3000K	0.97	0.81	98 lm/W	82 lm/W	74 lm/W	62 lm/W	61 lm/W	51 lm/W
	2700K	0.94	0.79	95 lm/W	80 lm/W	71 lm/W	60 lm/W	59 lm/W	50 lm/W
LS (standard)	4000K	1.02	0.84	118 lm/W	97 lm/W	86 lm/W	71 lm/W	73 lm/W	60 lm/W
	3500K	1	0.83	116 lm/W	96 lm/W	84 lm/W	70 lm/W	72 lm/W	60 lm/W
	3000K	0.97	0.81	113 lm/W	94 lm/W	81 lm/W	68 lm/W	70 lm/W	58 lm/W
	2700K	0.94	0.79	109 lm/W	92 lm/W	79 lm/W	66 lm/W	68 lm/W	57 lm/W

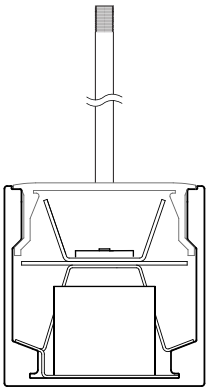
OUTPUT	CCT	LLF RATIO		INDIRECT LUMEN OUTPUT					
				SYMMETRIC NARROW (G)		SYMMETRIC WIDE (M)		ASYMMETRIC (N)	
		CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90	CRI 80	CRI 90
LVH (very high)	4000K	1.02	0.84	1260 lm/ft	1037 lm/ft	1469 lm/ft	1210 lm/ft	791 lm/ft	651 lm/ft
	3500K	1	0.83	1235 lm/ft	1025 lm/ft	1440 lm/ft	1195 lm/ft	775 lm/ft	643 lm/ft
	3000K	0.97	0.81	1198 lm/ft	1000 lm/ft	1397 lm/ft	1166 lm/ft	752 lm/ft	628 lm/ft
	2700K	0.94	0.79	1161 lm/ft	976 lm/ft	1354 lm/ft	1138 lm/ft	729 lm/ft	612 lm/ft
LH (high)	4000K	1.02	0.84	1030 lm/ft	848 lm/ft	1085 lm/ft	894 lm/ft	643 lm/ft	529 lm/ft
	3500K	1	0.83	1010 lm/ft	838 lm/ft	1064 lm/ft	883 lm/ft	630 lm/ft	523 lm/ft
	3000K	0.97	0.81	980 lm/ft	818 lm/ft	1032 lm/ft	862 lm/ft	611 lm/ft	510 lm/ft
	2700K	0.94	0.79	949 lm/ft	798 lm/ft	1000 lm/ft	841 lm/ft	592 lm/ft	498 lm/ft
LS (standard)	4000K	1.02	0.84	532 lm/ft	438 lm/ft	557 lm/ft	459 lm/ft	330 lm/ft	272 lm/ft
	3500K	1	0.83	522 lm/ft	433 lm/ft	546 lm/ft	453 lm/ft	324 lm/ft	269 lm/ft
	3000K	0.97	0.81	506 lm/ft	423 lm/ft	530 lm/ft	442 lm/ft	314 lm/ft	262 lm/ft
	2700K	0.94	0.79	491 lm/ft	412 lm/ft	513 lm/ft	431 lm/ft	305 lm/ft	256 lm/ft

Project name | Type | Date | Quantities

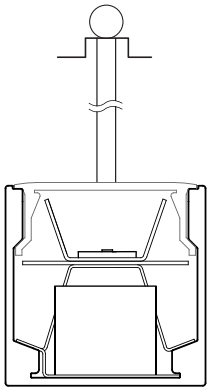
Mounting



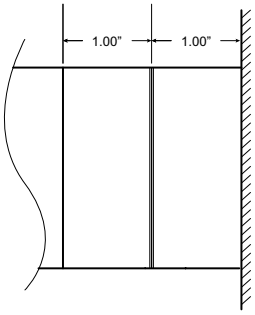
Aircraft Cable
(S)



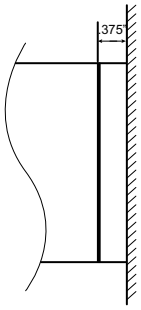
Rigid Stem
(P)



Swivel Stem
(PV)

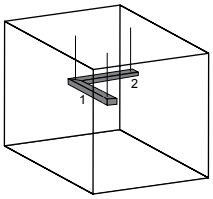


Span
(J)

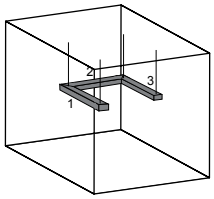


Partial Span
(JS)

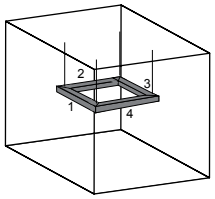
Standard patterns



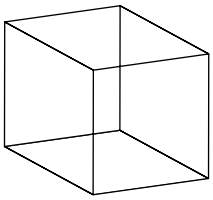
(PL) Ceiling only



(PU) Ceiling only

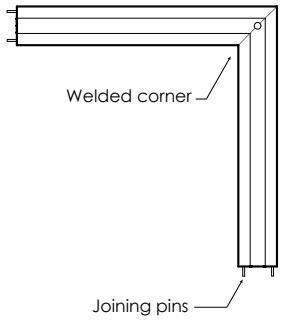


(PR) Ceiling only

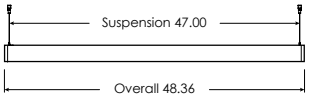


(CP) Custom pattern

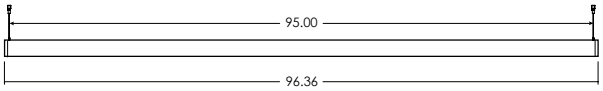
Corner detail



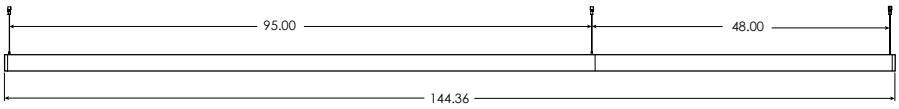
Mounting lengths



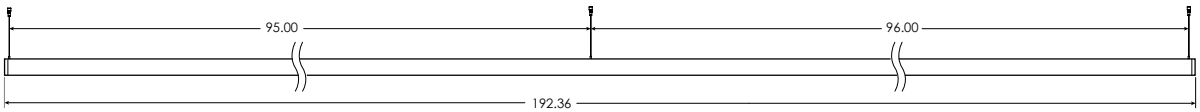
Nominal 4'



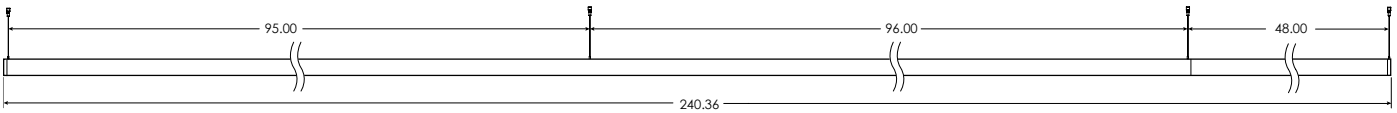
Nominal 8'



Nominal 12'



Nominal 16'



Nominal 20'

Project name | Type | Date | Quantities

LINEAR DIMENSIONS

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, with fully illuminated corners, provide a multitude of geometric options and architectural transitions.

Custom - Contact Design Assist for modifications to product not detailed within specsheets.

OPTICS

A rigid partially diffuse extruded dust cover lens optimized for indirect LED performance delivers 92% transmittance.

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>60,0000hr; 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 -30°C to 50°C, maximum case temperature of 75°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 (if applicable).

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 36" 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 36" 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 with powerfeed canopy only). Specify if other shape, size, or color is required.

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. Max 12' length for full span, additional cable support required for lengths over 12'.

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 ACL1 is assembled in the U.S.A. and complies with the Buy Ameria(n) Act(BAA), Build American, Buy America (BABA), government procurement requirements under FAR, DFARS, and DOTS.

WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for a period of one (1) year. LED products (LED boards and drivers) will be covered for a period of five (5) years. Please refer to full terms and conditions on our website: www.alights.com/downloads/warranty/