*alum*LED™ SERIES

ALS600T | GRAZING/WALL WASHING

- **GRAZING/WALL WASHING**
  10˚, 15˚, 25˚, 30˚, 45˚, 60˚, 15˚ x 60˚, 30˚ x 60˚, 120˚ & Asymmetric Optics
- **FIXED OR ADJUSTABLE**
- **TEMPERED GLASS LENS**
- **LOUVERS**
- **MOUNTING ARMS**
- **DIM TO DARK**
  0-10V | DMX | DALI | JA8-10V
- **CRI**
  High Output (HO) > 90

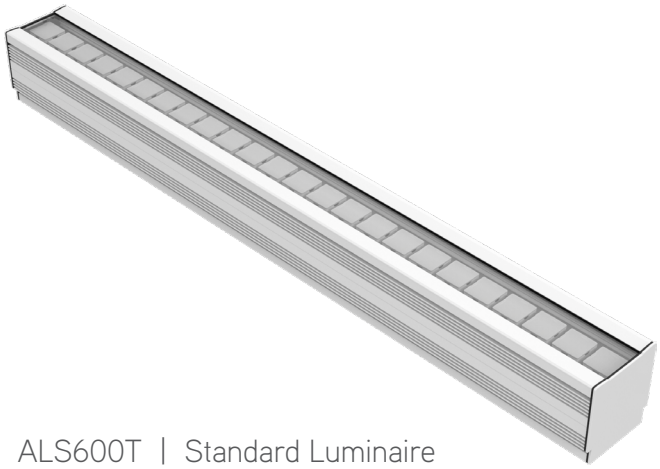
The ALS600T is a new versatile system strategically designed for indoor and outdoor grazing and wall wash applications. This luminaire is offered with a variety of optics, color temperatures, watts per foot, and finish options.

JA8 | SINGLE BIN +-30K | RoHS COMPLIANT | DRY/WET | IP65 | IP67 | TM-30 | LM-79 | LM-80 | MADE IN U.S.A.

CALI
CALIFORNIA ACCENT LIGHTING INC

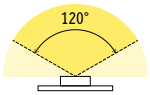
Lighting for the Professional Designer

ALS**600T PRODUCT FEATURES**

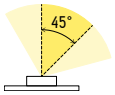


ALS600T | Standard Luminaire

ALS600T-AD | Adjustable Luminaire



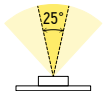
120° x 120° Beam Clear Lens **(GCL)**



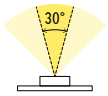
45° x 60° Beam Asymmetric Lens **(ASM)**

10° x 10° Beam Optic Lens **(10D)**

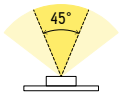
15° x 15° Beam Optic Lens **(15D)**



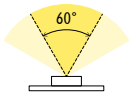
25° x 25° Beam Optic Lens **(25D)**



30° x 30° Beam Optic Lens **(30D)**

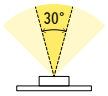


45° x 45° Beam Optic Lens **(45D)**

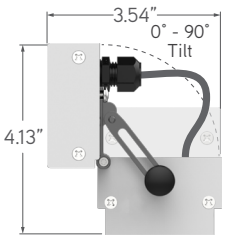


60° x 60° Beam Optic Lens **(60D)**

15° x 60° Beam Optic Lens **(15Dx60D)**



30° x 60° Beam Optic Lens **(30Dx60D)**



ALS600T-AD

Adjustable Variant

ALS600T-AD option offers a 0°-90° tilt range, with locking mechanism to adjust lighting to required angle for best illumination.

LOUVER

Shielded Lens

ALS600T offers a louver accessory that helps reduce glare in a variety of applications.

FEATURES	
APPLICATIONS	Grazing/Wall Wash Lighting
LAMP TYPE	High Output LEDs (No Mercury)
CRI	> 90
LENS	Tempered Clear Glass Lens
OPTICS AND ASYMMETRIC	10° - 60° and Asymmetric Optics
ALS600T LENGTH	Built to Order (2', 3', or 4' Increments)
ALS600T-AD LENGTH	Built to Order (2', 3', or 4' Increments)
CONSTRUCTION	Aluminum Extrusion
ALS600T WEIGHT	2.3lbs (1'), 5.6lbs (2'), 7.9lbs (3'), 11.2lbs (4')
ALS600T-AD WEIGHT	4.92lbs (2'), 6.95lbs (3'), 8.98lbs (4')
MOUNTING	Mounting Clips
LISTING	Dry or Wet (IP65 or IP67) Location UL1598, CSA C22.2#250.0 UL8750, CSA250 UL2108, CSA C22.2 #9

ELECTRICAL	
DIMMING	0-10V, DMX, DALI
MAXIMUM RUN (LINE VOLTAGE INTEGRAL DRIVERS)	40' (3W, 6W), 35' (9W), 26' (12W), 21' (15W), 17' (18W)
PRIMARY VOLTAGE	120V or 277V (UNV)
SECONDARY VOLTAGE	24VDC
TEMPERATURE RATINGS	**Operating / Startup:** -20° to 48°C (-4° to 120°F)
	Storage: -40° to 76°C (-40° to 170°F)

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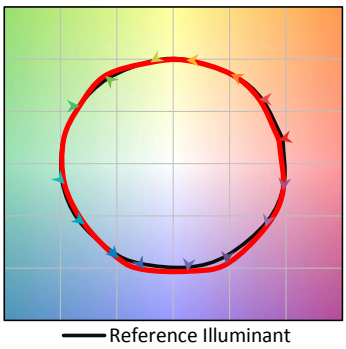
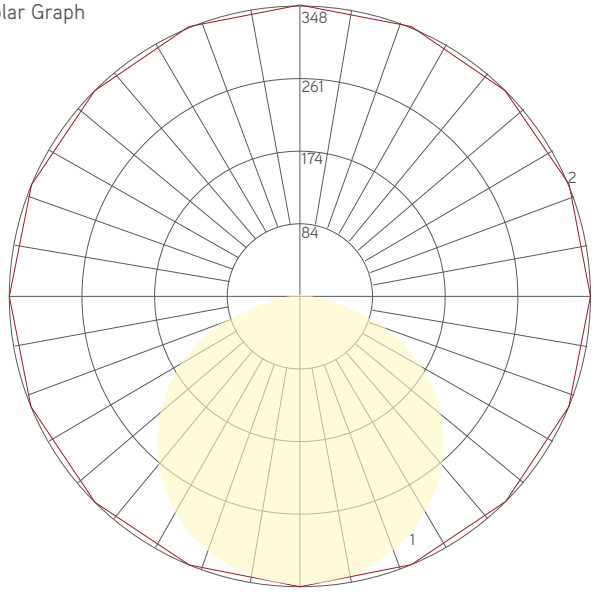
PERFORMANCE

Color Vector Graphic

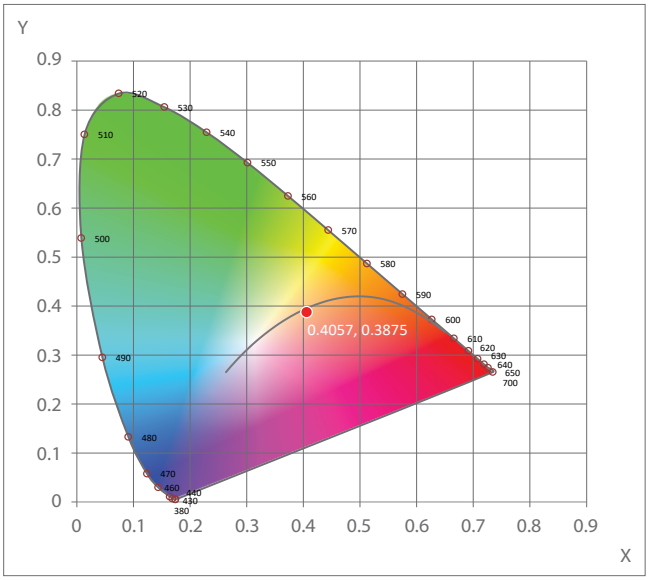


Polar Graph



Maximum Candela = 348.24 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Chromaticity Diagram



DIMMING

ALS600T has a unique 0-10V dimming capability. This luminaire is one of the newest versatile additions to the *alum*LEDs™ family. ALS600T has a 100-0% dim to dark feature that shuts off and re-starts at the designated dimming level.

OUTPUT

Performing at a very high output, the ALS600T is unique in its performance. ALS600T has an impressive Color Rendering Index greater than 90 and has tested along the black locus line using the 3-step binning process.

TM-30

METRIC	RESULT	NOTES
R_f	90	IES TM-30-15 Fidelity Index
R_g	101	IES TM-30-15 Gamut Index
CIE R_a	95	CIE Test Color Method General Index
R_9	72	CIE Test Color Method Sample Nine Score
$R_{f,\ skin}$	96	Average of CES15 and CES18 (skin)
CCT	3465	Correlated Color Temperature
D_{uv}	-0.0015	Distance from the blackbody locus
x	0.4057	CIE 1931 chromaticity coordinate
y	0.3875	CIE 1931 chromaticity coordinate
u	0.2373	CIE 1960 chromaticity coordinate
v	0.3400	CIE 1960 chromaticity coordinate
u'	0.2373	CIE 1976 chromaticity coordinate
v'	0.5100	CIE 1976 chromaticity coordinate

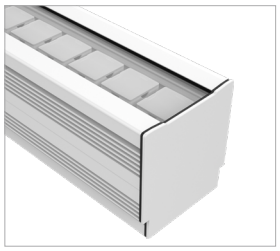
LAMP SPECIFICATIONS

LAMP NUMBER	CORRELATED COLOR TEMPERATURE	LUMENS PER WATT	L70 LED LIFE
2.4K	2400K Incandescent White	120	60,000 hrs.
2.7K	2700K Warm White	120	60,000 hrs.
3.0K	3000K Warm White	120	60,000 hrs.
3.5K	3500K Neutral White	120	60,000 hrs.
4.0K	4000K Neutral White	120	60,000 hrs.
4.5K	4500K Neutral White	120	60,000 hrs.
5.0K	5000K Cool White	130	60,000 hrs.
5.7K	5700K Cool White	130	60,000 hrs.
R*[4]	Red (620nm)	97	60,000 hrs.
G*[4]	Green (525nm)	118	60,000 hrs.
B*[4]	Blue (450nm)	16.5	60,000 hrs.
A*[4]	Amber (590nm)	115	60,000 hrs.

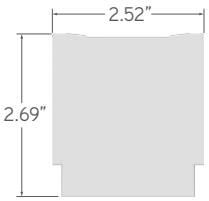
Consult factory for cooler white color temperatures.

LENS

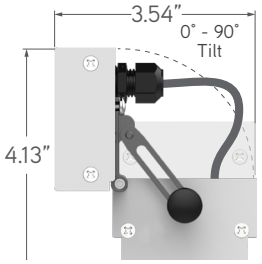
ALS600T is built with a tempered clear glass lens that is weather resistant and prevents discoloration. The lens is built to sustain harsh weather environments in heat and cold conditions.



Tempered Clear Glass Lens



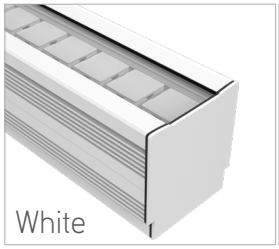
ALS600T
Standard

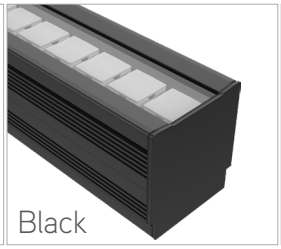


ALS600T-AD
Adjustable

CUSTOM COLOR FINISHES

Available in a variety of color options to fit your design.


White


Black


Satin

HOW TO ORDER OR SPECIFY

SERIES	OPTICS	FINISH	CCT LED	WATTS PER FOOT	DIMMING	FEED POINT	LISTING	LUMINAIRE VOLTAGE	FIXTURE LENGTH
ALS600T	Clear Glass Lens*1 **(CGL)**	White **(WH)**	2700K **(2.7K)**	3 Watts: 360 Lumens/ft **(3W)**	0-10V: 100% - 1% **(10V)**	End Feed **(EF)**	Indoor **(DRY)**	120V-277V*5 **(UNV)**	Specify Length in 1' Increments*6 **Example**: 22'
ALS600T-AD	Asymmetric Lens **(ASM)**		3000K **(3.0K)**	5 Watts: 600 Lumens/ft **(5W)**					
	10° x 10° **(10D)**	Black **(BK)**	3500K **(3.5K)**	6 Watts: 720 Lumens/ft **(6W)**	0-10V: 100% - .1% **(10V-.1%)**	Bottom Feed **(BF)**	Outdoor IP65 **(WET)**		
	15° x 15° **(15D)**		4000K **(4.0K)**	8 Watts: 960 Lumens/ft **(8W)**					
	25° x 25° **(25D)**	Satin **(SA)**	4500K **(4.5K)**	9 Watts: 1080 Lumens/ft **(9W)**	0-10V: 100% - 1% Title 24 JA8 **(JA8-10V)**	Side Feed **(SF)**	Outdoor IP67 **(WET-IP67)**		
	30° x 30° **(30D)**		5000K **(5.0K)**	12 Watts: 1440 Lumens/ft **(12W)**					
	45° x 45° **(45D)**		5700K **(5.7K)**	15 Watts: 1800 Lumens/ft **(15W)**	DMX-512*3 **(DMX)**				
	60° x 60° **(60D)**		Red*2 **(R)**	18 Watts: 2160 Lumens/ft **(18W)**	DALI*4 **(DALI)**				
	15° x 60° **(15Dx60D)**		Green*2 **(G)**		Leave Blank for Non-Dimming				
	30° x 60° **(30Dx60D)**		Blue*2 **(B)**						
			Amber*2 **(A)**						

Note: Maximum length for line voltage (Integral Driver) Is 320 watts per run.
Example: 320 watts ÷ 8 watts per foot = 40 feet max run.

*1 Clear Glass Lens (120°)

*2 Only available in up to 12 Watts

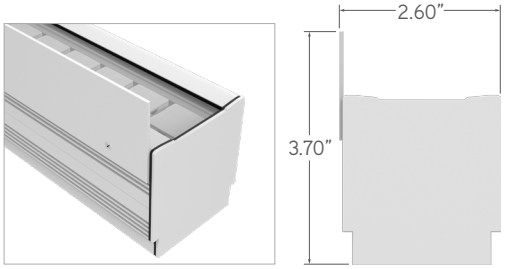
*3 Default DMX address of each fixture is 001. Consult third party DMX commissioner to modify at time of installation. Minimum fixture length: 2'

*4 DALI commissioning to be performed by a third party at time of installation. CALI does not provide DALI commissioning. Minimum fixture length: 2'

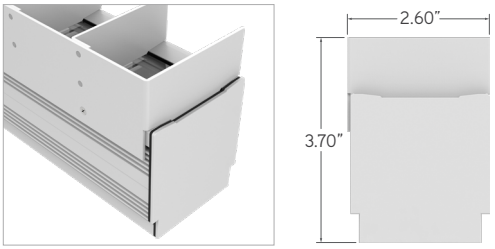
*5 Integral drivers wattage sized based on length of run. **Example**: 5' run x 3 watts per foot = 15 watts. Driver will be sized to 15 watts maximum.

*6 Lengths that deviate from the 1' increment will be sized to the nearest smaller increment.

ALS**600T ACCESSORIES**

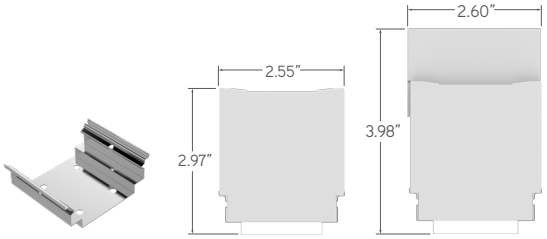


ALS600T-RE1 | Reflector

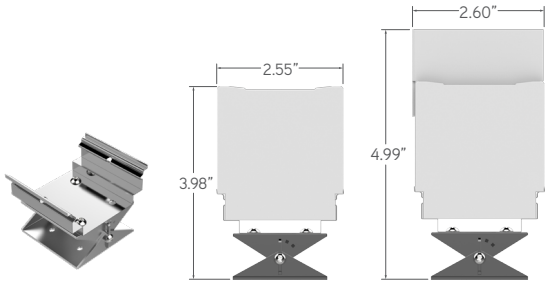


ALS600T-LVR | Louver

MOUNTING OPTIONS

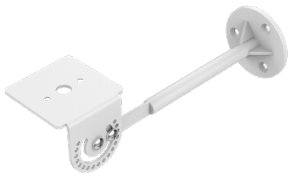


Mounting Clip
(ALS600T-MC)

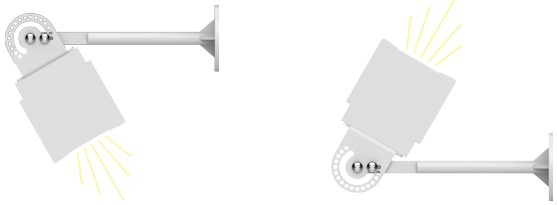


Mounting Clip (Adjustable with Locking Mechanism)
(ALS600T-MC-3)

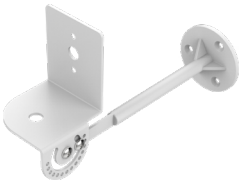
Stake Mounting Clip
(ALS600T-MC-STK)



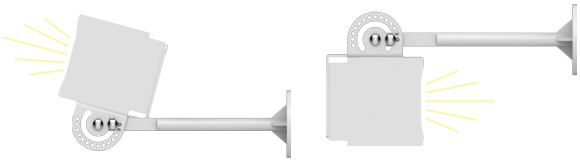
Bottom Mounting Arm (Adjustable)
(ALS600T-AA-BM-X)
(X = Specify Length. 4" Min, 18" Max)



Tilt either direction in 15˚ increments.
Minimum Tilt: -30˚ downward, towards mounting surface
Maximum Tilt: 210˚ upward, towards mounting surface

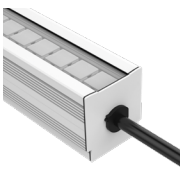


Side Mounting Arm (Adjustable)
(ALS600T-AA-SM-X)
(X = Specify Length. 4" Min, 18" Max)



Tilt either direction in 15˚ increments.
Minimum Tilt: -105˚ outward, away from mounting surface
Maximum Tilt: 90˚ inward, toward mounting surface

FEED POINTS



End Feed
(EF)

Bottom Feed
(BF)

Side Feed
(SF)

Add the following measurement to the overall length of fixture:

- 0.15" for DRY End Feed cord grip
- 0.55" for Side Feed/Bottom Feed cord grip
- 0.80" for WET End Feed cord grip
- 1.25" for WET Side Feed-Bottom Feed cord grip

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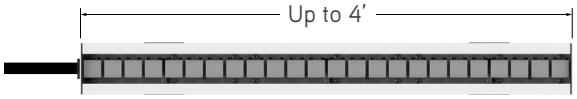
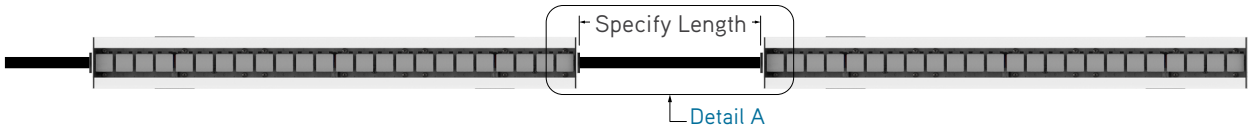
DESIGN GUIDELINES - ALS600T STANDARD

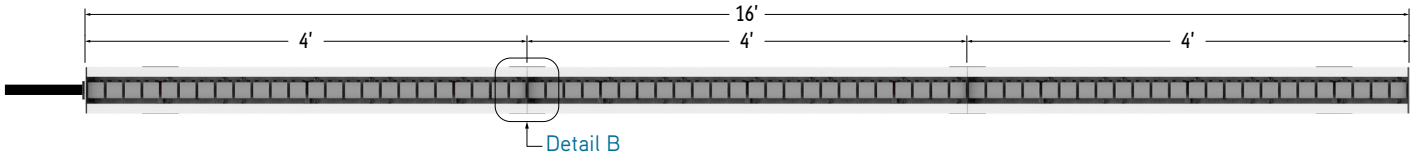
DRY or WET LOCATION | Individual Fixture



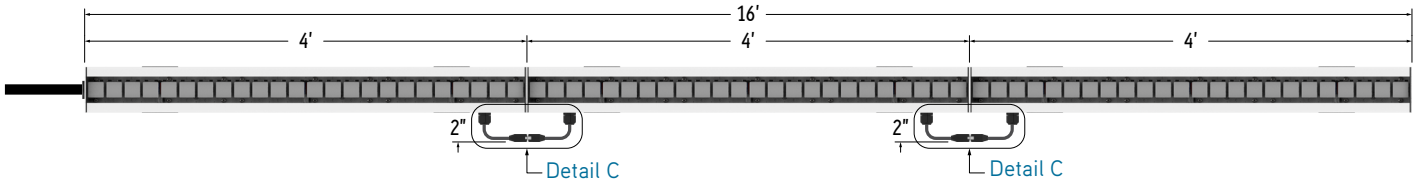
DRY or WET LOCATION | Fixture with Jumper Cables

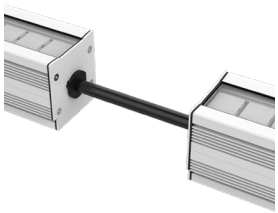


DRY LOCATION | Continuous Run



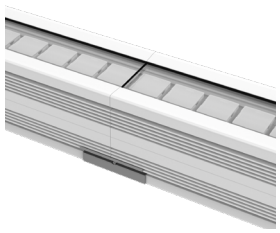
WET LOCATION | Continuous Run





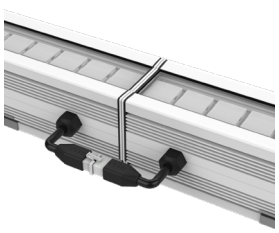
Detail A

Jumper Cable
Dry Location
ALS600T-JC-X



Detail B

Dry Connection
(Wiring enclosed)



Detail C

Wet Connection
(Included)

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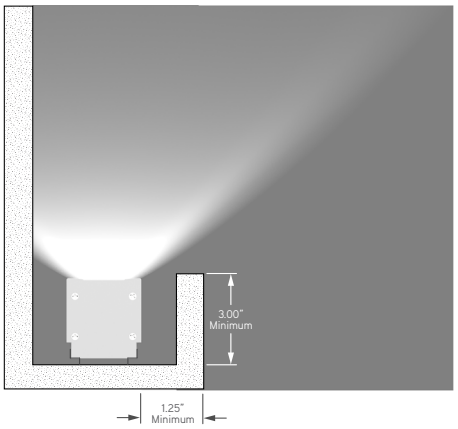
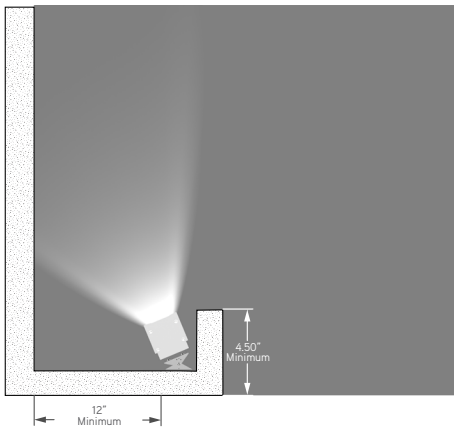
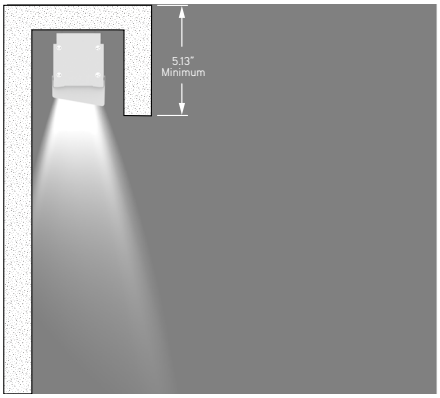
ALS**600T GRAZING/WALL WASH LIGHTING DESIGN GUIDELINES**



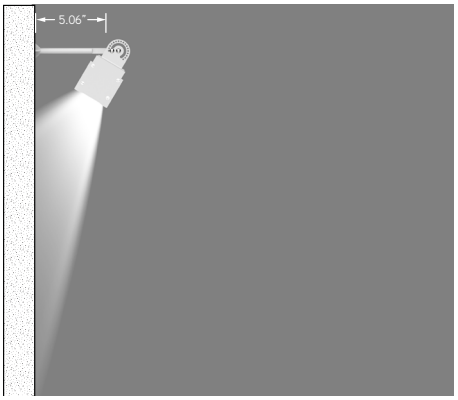
ALS600T-MC



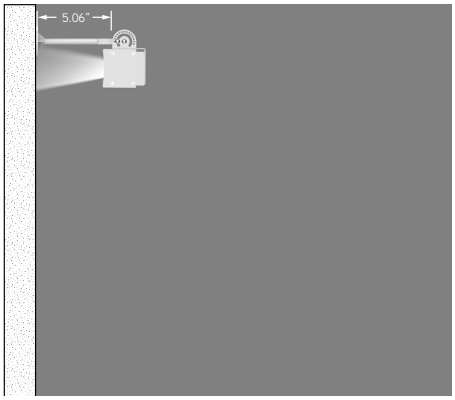
ALS600T-MC-3 | Adjustable



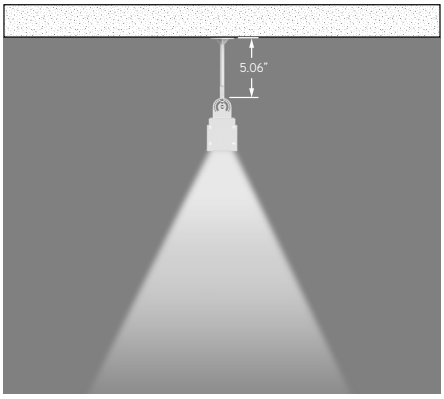
ALS600T-MC | Louver Accessory



ALS600T-AA-BM-X (X = Specify Length)
Bottom Mounting Arm | Adjustable

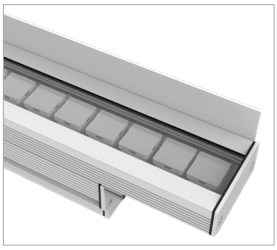


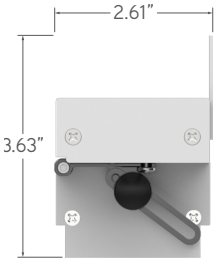
ALS600T-AA-SM-X (X = Specify Length)
Side Mounting Arm | Adjustable



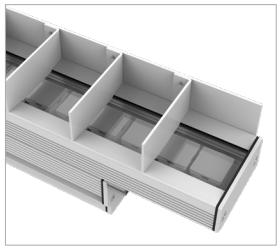
ALS600T-AA-BM-X (X = Specify Length)
Bottom Mounting Arm | Adjustable

ALS**600T-AD ACCESSORIES**

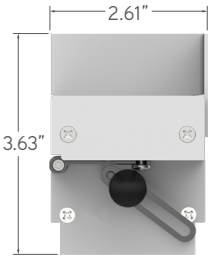




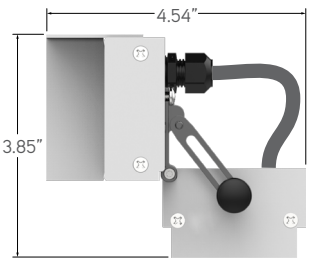
ALS600T-AD RE1 | Reflector



ALS600T-AD-LVR

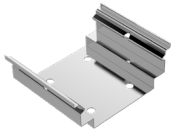


0˚ Tilt (Minimum)

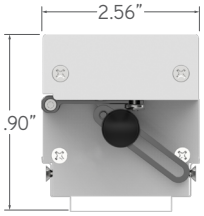


90˚ Tilt (Maximum)

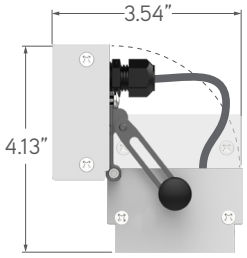
Mounting Options



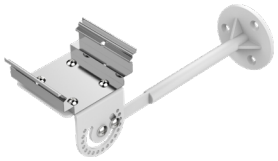
Mounting Clip
(ALS600T-AD-MC)



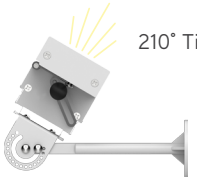
0˚ Tilt (Minimum)

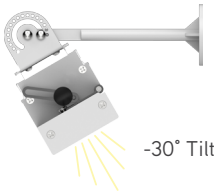


90˚ Tilt (Maximum)

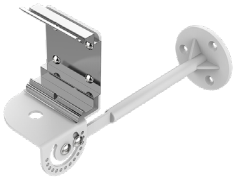


Bottom Mounting Arm (Adjustable)
(ALS600T-AD-AA-BM-X)
(X = Specify Length. Min: 4", Max: 18')

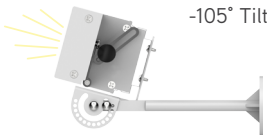


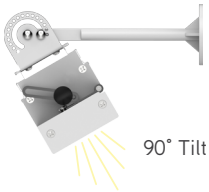


Tilt either direction in 15˚ increments.
Minimum Tilt: -30˚ downward, towards mounting surface
Maximum Tilt: 210˚ upward, towards mounting surface



Side Mounting Arm (Adjustable)
(ALS600T-AD-AA-SM-X)
(X = Specify Length. Min: 4", Max: 4')





Tilt either direction in 15˚ increments.
Minimum Tilt: -105˚ outward, away from mounting surface
Maximum Tilt: 90˚ inward, towards mounting surface

Stake Mounting Clip
(ALS600T-AD-MC-STK)

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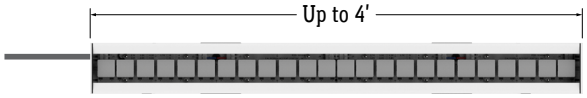
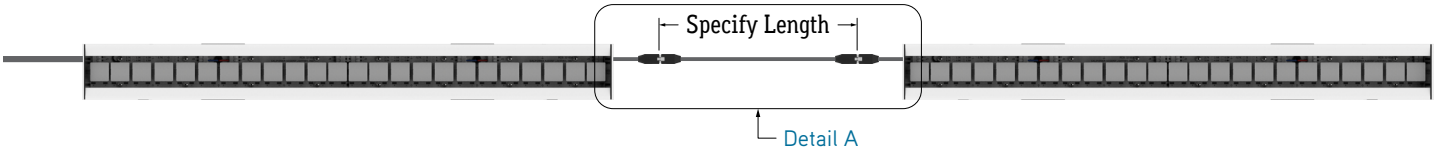
DESIGN GUIDELINES - ALS600T-AD ADJUSTABLE VARIANT

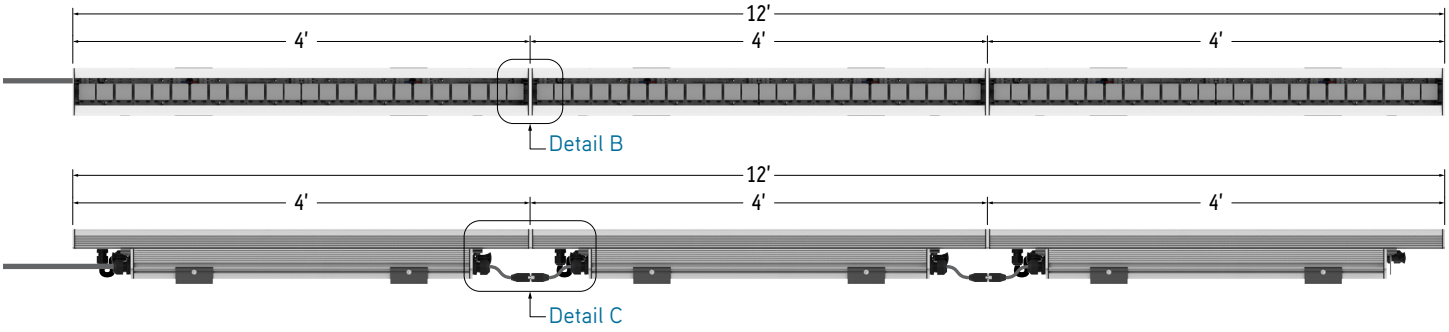
DRY or WET LOCATION | Individual Fixture



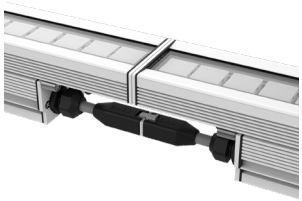
DRY or WET LOCATION | Fixtures with Jumper Cable



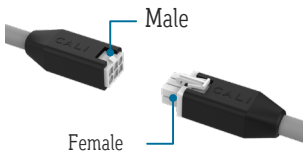
DRY or WET LOCATION | Continuous Run | **Note**: Lengths exceeding max run will be split.



Detail A
Jumper Cable
(ALS600T-AD-JC-X)
(X=Specify Length)



Detail B
Continuous Connection
(5 Pole)



Detail C
Quick Disconnects
(Included)

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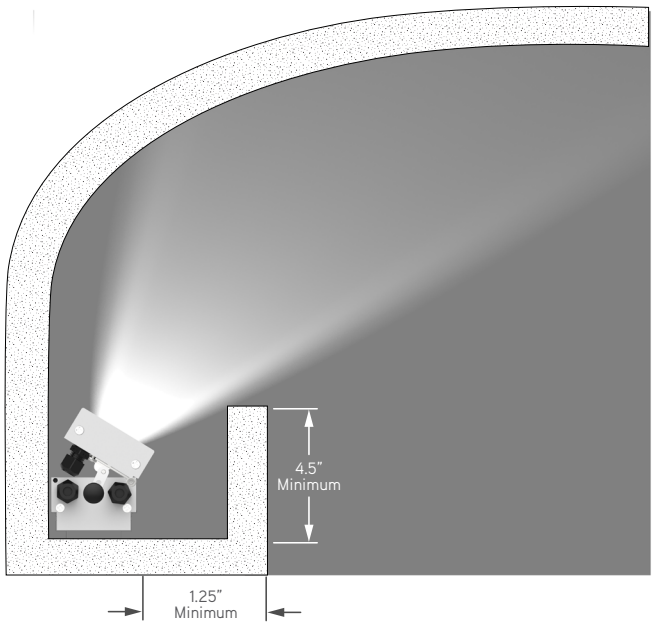
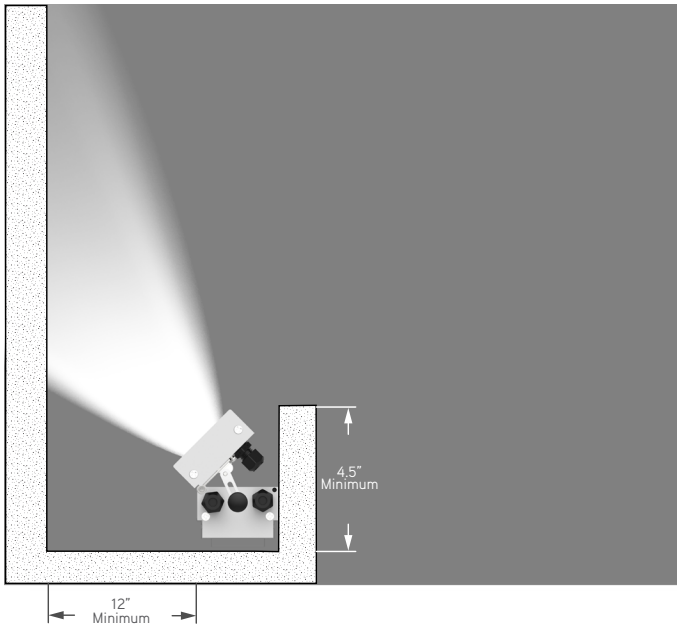
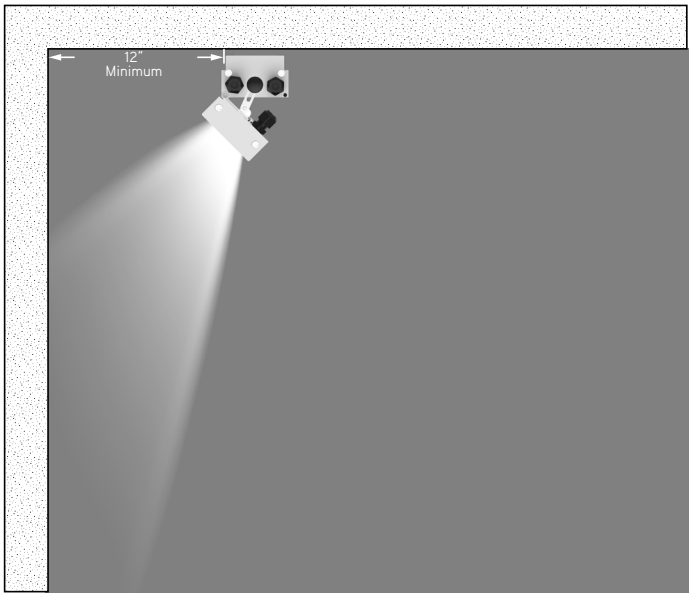
ALS600T-AD GRAZING/WALL WASH LIGHTING DESIGN GUIDELINES



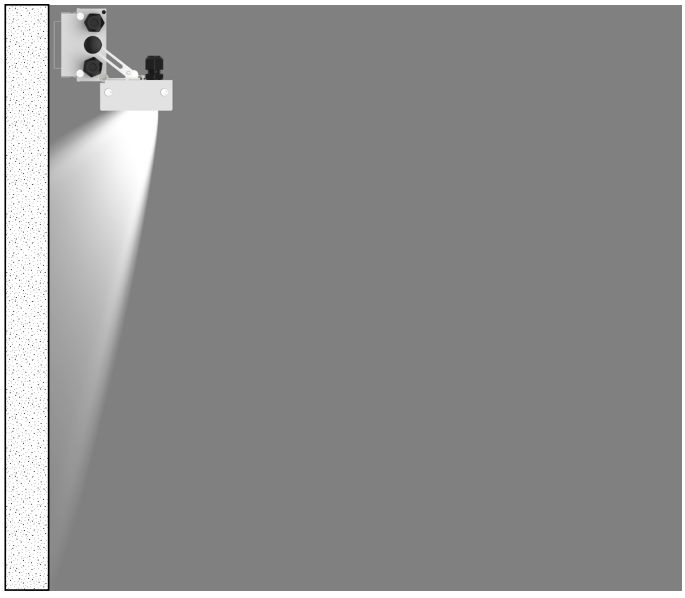
ALS600T-AD-MC



ALS600T-AD-MC | Adjustable



ALS600T-AD-MC | Adjustable



ALS600T-AD-MC | Adjustable

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DIMMING PROTOCOL (0-10V: 1% DIMMING)

ALS600T is available in 120 or 277 volts with a dimmable remote driver. The remote driver is available with 0-10V dimming capabilities. Consult factory for other dimming protocols available. The following applies to 0-10V dimming interfaces. A 0-10v fluorescent dimmer will not dim the LEDs.

Technical Requirements For Control Equipment

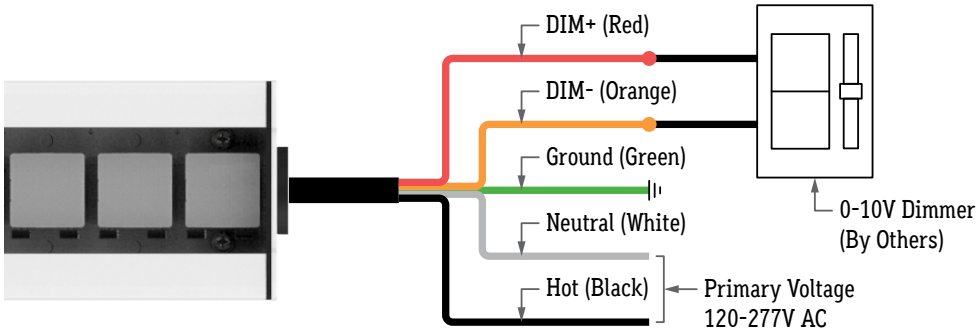
- The light output of the LEDs operated by the controllable LED driver is controlled by DC voltage applied to the control input leads (grey and violet). The actual response curve of LED driver current versus control voltage.
- The control device must be capable of accepting, or sinking, the DC current flow from the driver. The DC current from the driver that must be sinked by the control circuit is 150uA (+/50% for isolated dim interfaces, up to 1.5mA for non-isolated dim interfaces).
- If the control bus is opened, or if the control device internally opens the control bus under some conditions, the voltage on the control bus will then be a function of the drivers, which is 10-15V. Maximum light output will be delivered under this condition.
- If the control bus is shorted either by a mechanical switch in the control or by the circuitry of the control device, or inadvertently in the wiring, the current on the control bus will be less than 1.5mA.
- As can be determined from the two items, simple two-level operation of the drivers can be achieved by proper usage and application of a simple open/closed switch on the control bus with maximum light being achieved when the switch is open and minimum light with the
- switch is closed.
- The driver is intended to be used with control voltages between 0-10VDC volts peak maximum on the driver control leads.
- Control equipment intended to control more than one driver must be capable of sinking the current supplied to the control bus by the maximum number of drivers specified for the control device. At any given level setting it must maintain control bus voltage constant within a range of ±5% as the number of drivers connected to the control bus varies from a minimum of one driver up to the maximum number specified for the control device.
- Driver of various ratings may be mixed on the same control system.

DIMMING PROTOCOL (0-10V: 0% DIMMING)

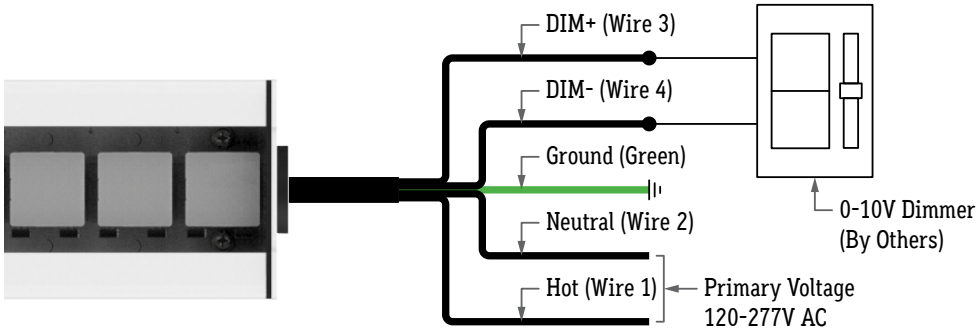
Technical Requirements For Control Equipment

- The light output of the LEDs operated by the controllable LED driver is controlled by DC voltage applied to the control input leads (grey and violet). The actual response curve of LED driver current versus control voltage.
- The control device must be capable of accepting or sinking the DC current flow from the driver. The DC current from the driver that must be sinked by the control circuit is 150uA (+/50% for isolated dim interfaces, up to 1.5mA for non-isolated dim interfaces).
- If the control bus is shorted either by a mechanical switch in the control or by the circuitry of the control device, or inadvertently in the wiring, the current on the control bus will be less than 1.5mA.
- As can be determined from the two items, simple two-level operation of the drivers can be achieved by proper usage and application of a simple open/closed switch on the control bus with maximum light being achieved when the switch is open and minimum light with the switch is closed.
- The driver is intended to be used with control voltages between 0-10VDC volts peak maximum on the driver control leads.

0-10V WIRING DIAGRAM
(Dry Location Only)



0-10V WIRING DIAGRAM
(Dry or Wet Location)



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CALI

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MADE IN U.S.A.

REV. 8.25.2020