

# ALD2ST

ALD2ST combines clean lines with high performance direct and indirect distribution, for a functional and aesthetically pleasing slim profile.



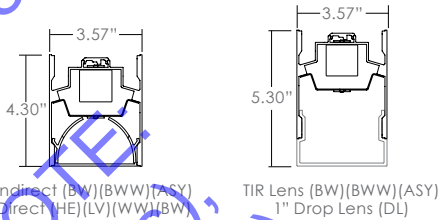
Performance

| OUTPUT             | DIRECT OPTICS | DELIVERED    |             |          |
|--------------------|---------------|--------------|-------------|----------|
|                    |               | LUMEN OUTPUT | INPUT WATTS | EFFICACY |
| LVH<br>(Very high) | HE Tech™      | 1242 lm/ft   | 13.5 W/ft   | 92 lm/W  |

| OUTPUT             | INDIRECT OPTICS    | DELIVERED    |             |          |
|--------------------|--------------------|--------------|-------------|----------|
|                    |                    | LUMEN OUTPUT | INPUT WATTS | EFFICACY |
| LVH<br>(Very high) | Asymmetric         | 1573 lm/ft   | 13 W/ft     | 121 lm/W |
|                    | Batwing Wide       | 1647 lm/ft   | 13.5 W/ft   | 122 lm/W |
|                    | Batwing Extra Wide | 1607 lm/ft   | 13.5 W/ft   | 119 lm/W |
|                    | Dust cover         | 1311 lm/ft   | 13.5 W/ft   | 117 lm/W |

Based on static white 35K HE lens fixtures. The data shown represents the highest output configuration. For complete photometric data, refer to page 3 and 4.

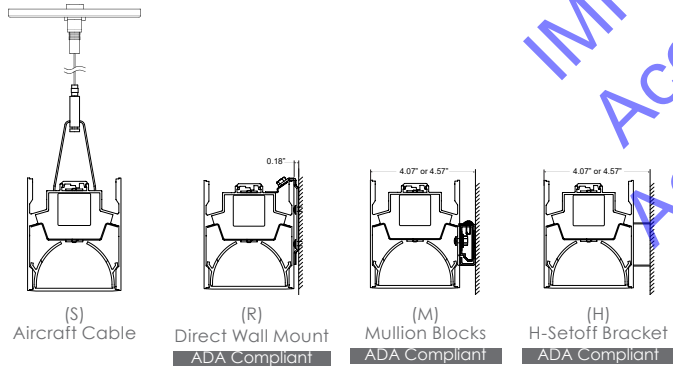
Dimensions

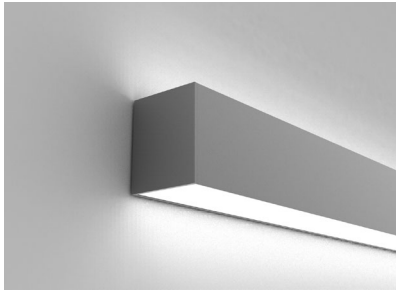


Distribution options



Mounting 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](mailto:designassist@alights.com))  
is here to make the process move smoothly.

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

| ALD2ST                                                     |                             |                                                                                                                                                                                         |                                  |                                                                                                                                         |            |                                                                                                                                                                                              |
|------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERIES                                                     | LENGTH                      | OUTPUT                                                                                                                                                                                  | LED CCT                          | CRI                                                                                                                                     | VOLTAGE    | DISTRIBUTION                                                                                                                                                                                 |
| ALD2ST                                                     | Nominal Length <sup>1</sup> | ILS Indirect LED Standard<br>ILH Indirect LED High<br>IC_ Indirect LED Custom <sup>1</sup><br>+<br>DLS Direct LED Standard<br>DLH Direct LED High<br>DC_ Direct LED Custom <sup>1</sup> | 30 3000k<br>35 3500k<br>40 4000k | 80+ CRI                                                                                                                                 | U 120-277V | D Indirect Lambertian Dust Cover <sup>1</sup><br>BW Indirect Batwing Wide <sup>2</sup><br>BWW Indirect Batwing Extra-Wide <sup>2</sup><br>ASY Indirect Asymmetric<br>+<br>HE Direct HE Tech™ |
| <sup>1</sup> Specify in feet to the nearest foot (i.e. 12) |                             | <sup>1</sup> Contact Design Assist for custom tuning or non-standard light outputs.                                                                                                     |                                  | <sup>1</sup> Not available with Direct wall mount. Must be specified with Wet Location.<br><sup>2</sup> Not recommended for wall mount. |            |                                                                                                                                                                                              |

| MOUNTING                                                                                                                                                                                                                                                                                                                                                                                                    | FINISH                           | CIRCUITING                                                                                                                             | DIMMING                                                                             | SENSORS                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| S Aircraft cable <sup>1</sup><br>R Direct wall mount <sup>2</sup>                                                                                                                                                                                                                                                                                                                                           | W White<br>B Black<br>T Titanium | 1 One circuit                                                                                                                          | D Standard 0-10V dimming <sup>1</sup><br>NAIR nLight @AIR (dim-to-off) <sup>2</sup> | OF Occupancy Sensor - Fixture<br>PF Photocell / Daylight Sensor - Fixture<br>OPF Occupancy / daylight Sensor - Fixture                      |
| Black power cord provided for black and titanium finish. White power cord provided for all other fixture finishes, unless otherwise specified.<br><sup>1</sup> Standard 48" field adjustable cable, specify length to nearest inch if over 48".<br><sup>2</sup> Adjustable mounting unavailable with wet location, Indirect Lambertian dust cover distribution or Indirect batwing extra-wide distribution. |                                  | <sup>1</sup> 1% dimming standard unless otherwise specified.<br><sup>2</sup> nLight AIR components completely integrated into fixture. |                                                                                     | <sup>1</sup> Sensor will be matched to dimming input. All sensors to be integrated to fixture. Remote sensors are to be provided by others. |

| OPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OTHER                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| R Right end cap feed<br>L Left end cap feed<br>Q Wet location <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                | FT Fast track <sup>1</sup> |
| <sup>1</sup> Not available with aircraft cable, adjustable direct wall mount nor horizontal shelf 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. Not compatible with Indirect Batwing extra-wide.<br><sup>2</sup> Option must be in part number in order to be considered fast track. |                            |

## Light distribution

## DISTRIBUTION

Direct Lambertian HE Tech™

Indirect Lambertian Dust Cover

Indirect Batwing wide

Indirect Batwing extra-wide

Indirect Asymmetric

## OUTPUT (DC)

ILVH: Uplight very high - 13 W/ft

ILH: Uplight high output - 10.5 W/ft

ILS: Uplight standard output - 5 W/ft

C: Custom tuned output - Contact Design Assist

DLVH: Downlight very high output - 13 W/ft

DLH: Downlight high output - 10.5 W/ft

DLS: Downlight standard output - 5 W/ft

C: Custom tuned output - Contact Design Assist

## Light loss factors (LLF) - Direct Data

| OUTPUT             | CCT   | LLF RATIO |      | HE TECH™ |         |
|--------------------|-------|-----------|------|----------|---------|
|                    |       |           |      | CRI 80   | CRI 90  |
| LVH<br>(very high) | 4000K | 1.02      | 0.84 | 94 lm/W  | 77 lm/W |
|                    | 3500K | 1         | 0.83 | 92 lm/W  | 76 lm/W |
|                    | 3000K | 0.97      | 0.81 | 89 lm/W  | 75 lm/W |
|                    | 2700K | 0.94      | 0.79 | 86 lm/W  | 73 lm/W |
| LH<br>(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<br>(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 |      | HE TECH™   |            |
|--------------------|-------|-----------|------|------------|------------|
|                    |       |           |      | CRI 80     | CRI 90     |
| LVH<br>(very high) | 4000K | 1.02      | 0.84 | 1267 lm/ft | 1043 lm/ft |
|                    | 3500K | 1         | 0.83 | 1242 lm/ft | 1031 lm/ft |
|                    | 3000K | 0.97      | 0.81 | 1205 lm/ft | 1006 lm/ft |
|                    | 2700K | 0.94      | 0.79 | 1167 lm/ft | 981 lm/ft  |
| LH<br>(high)       | 4000K | 1.02      | 0.84 | 1028 lm/ft | 847 lm/ft  |
|                    | 3500K | 1         | 0.83 | 1008 lm/ft | 837 lm/ft  |
|                    | 3000K | 0.97      | 0.81 | 978 lm/ft  | 816 lm/ft  |
|                    | 2700K | 0.94      | 0.79 | 948 lm/ft  | 796 lm/ft  |
| LS<br>(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  |

## Light loss factors (LLF) - Indirect Data

| OUTPUT             | CCT   | LLF RATIO |        | INDIRECT EFFICACY     |          |              |          |                    |          |            |          |
|--------------------|-------|-----------|--------|-----------------------|----------|--------------|----------|--------------------|----------|------------|----------|
|                    |       |           |        | LAMBERTIAN DUST COVER |          | BATWING WIDE |          | BATWING EXTRA WIDE |          | ASYMMETRIC |          |
|                    |       | CRI 80    | CRI 90 | CRI 80                | CRI 90   | CRI 80       | CRI 90   | CRI 80             | CRI 90   | CRI 80     | CRI 90   |
| LVH<br>(very high) | 4000K | 1.02      | 0.84   | 119 lm/W              | 98 lm/W  | 124 lm/W     | 102 lm/W | 121 lm/W           | 100 lm/W | 123 lm/W   | 102 lm/W |
|                    | 3500K | 1         | 0.83   | 117 lm/W              | 97 lm/W  | 122 lm/W     | 101 lm/W | 119 lm/W           | 99 lm/W  | 121 lm/W   | 100 lm/W |
|                    | 3000K | 0.97      | 0.81   | 113 lm/W              | 95 lm/W  | 118 lm/W     | 99 lm/W  | 115 lm/W           | 96 lm/W  | 117 lm/W   | 98 lm/W  |
|                    | 2700K | 0.94      | 0.79   | 110 lm/W              | 92 lm/W  | 115 lm/W     | 96 lm/W  | 112 lm/W           | 94 lm/W  | 114 lm/W   | 96 lm/W  |
| LH<br>(high)       | 4000K | 1.02      | 0.84   | 124 lm/W              | 102 lm/W | 131 lm/W     | 108 lm/W | 128 lm/W           | 105 lm/W | 124 lm/W   | 102 lm/W |
|                    | 3500K | 1         | 0.83   | 122 lm/W              | 101 lm/W | 128 lm/W     | 106 lm/W | 125 lm/W           | 104 lm/W | 122 lm/W   | 101 lm/W |
|                    | 3000K | 0.97      | 0.81   | 118 lm/W              | 99 lm/W  | 124 lm/W     | 104 lm/W | 121 lm/W           | 101 lm/W | 118 lm/W   | 99 lm/W  |
|                    | 2700K | 0.94      | 0.79   | 115 lm/W              | 96 lm/W  | 120 lm/W     | 101 lm/W | 118 lm/W           | 99 lm/W  | 115 lm/W   | 96 lm/W  |
| LS<br>(standard)   | 4000K | 1.02      | 0.84   | 135 lm/W              | 111 lm/W | 142 lm/W     | 117 lm/W | 139 lm/W           | 114 lm/W | 135 lm/W   | 111 lm/W |
|                    | 3500K | 1         | 0.83   | 132 lm/W              | 110 lm/W | 139 lm/W     | 115 lm/W | 136 lm/W           | 113 lm/W | 132 lm/W   | 110 lm/W |
|                    | 3000K | 0.97      | 0.81   | 128 lm/W              | 107 lm/W | 135 lm/W     | 113 lm/W | 132 lm/W           | 110 lm/W | 128 lm/W   | 107 lm/W |
|                    | 2700K | 0.94      | 0.79   | 124 lm/W              | 104 lm/W | 131 lm/W     | 110 lm/W | 128 lm/W           | 107 lm/W | 124 lm/W   | 104 lm/W |

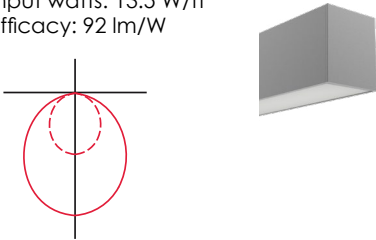
| OUTPUT             | CCT   | LLF RATIO |        | INDIRECT LUMEN OUTPUT |           |              |           |                    |            |            |            |
|--------------------|-------|-----------|--------|-----------------------|-----------|--------------|-----------|--------------------|------------|------------|------------|
|                    |       |           |        | LAMBERTIAN DUST COVER |           | BATWING WIDE |           | BATWING EXTRA WIDE |            | ASYMMETRIC |            |
|                    |       | CRI 80    | CRI 90 | CRI 80                | CRI 90    | CRI 80       | CRI 90    | CRI 80             | CRI 90     | CRI 80     | CRI 90     |
| LVH<br>(very high) | 4000K | 1.02      | 0.84   | 1140 lm/ft            | 939 lm/ft | 1140 lm/ft   | 939 lm/ft | 1267 lm/ft         | 1043 lm/ft | 1233 lm/ft | 1016 lm/ft |
|                    | 3500K | 1         | 0.83   | 1118 lm/ft            | 928 lm/ft | 1118 lm/ft   | 928 lm/ft | 1242 lm/ft         | 1031 lm/ft | 1209 lm/ft | 1003 lm/ft |
|                    | 3000K | 0.97      | 0.81   | 1084 lm/ft            | 906 lm/ft | 1084 lm/ft   | 906 lm/ft | 1205 lm/ft         | 1006 lm/ft | 1173 lm/ft | 979 lm/ft  |
|                    | 2700K | 0.94      | 0.79   | 1051 lm/ft            | 883 lm/ft | 1051 lm/ft   | 883 lm/ft | 1167 lm/ft         | 981 lm/ft  | 1136 lm/ft | 955 lm/ft  |
| LH<br>(high)       | 4000K | 1.02      | 0.84   | 932 lm/ft             | 767 lm/ft | 964 lm/ft    | 794 lm/ft | 1028 lm/ft         | 847 lm/ft  | 1050 lm/ft | 1070 lm/ft |
|                    | 3500K | 1         | 0.83   | 914 lm/ft             | 758 lm/ft | 945 lm/ft    | 784 lm/ft | 1008 lm/ft         | 837 lm/ft  | 1029 lm/ft | 1057 lm/ft |
|                    | 3000K | 0.97      | 0.81   | 886 lm/ft             | 740 lm/ft | 917 lm/ft    | 765 lm/ft | 978 lm/ft          | 816 lm/ft  | 998 lm/ft  | 1032 lm/ft |
|                    | 2700K | 0.94      | 0.79   | 859 lm/ft             | 722 lm/ft | 888 lm/ft    | 747 lm/ft | 948 lm/ft          | 796 lm/ft  | 967 lm/ft  | 1006 lm/ft |
| LS<br>(standard)   | 4000K | 1.02      | 0.84   | 479 lm/ft             | 395 lm/ft | 500 lm/ft    | 412 lm/ft | 530 lm/ft          | 437 lm/ft  | 541 lm/ft  | 435 lm/ft  |
|                    | 3500K | 1         | 0.83   | 470 lm/ft             | 390 lm/ft | 490 lm/ft    | 407 lm/ft | 520 lm/ft          | 432 lm/ft  | 530 lm/ft  | 424 lm/ft  |
|                    | 3000K | 0.97      | 0.81   | 456 lm/ft             | 381 lm/ft | 475 lm/ft    | 397 lm/ft | 504 lm/ft          | 421 lm/ft  | 514 lm/ft  | 402 lm/ft  |
|                    | 2700K | 0.94      | 0.79   | 442 lm/ft             | 371 lm/ft | 461 lm/ft    | 387 lm/ft | 489 lm/ft          | 411 lm/ft  | 498 lm/ft  | 389 lm/ft  |

Photometric data

HE TECH™

LVH- 4FT- 3500K

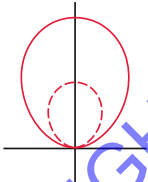
Lumens: 1242 lm/ft  
Input watts: 13.5 W/ft  
Efficacy: 92 lm/W



INDIRECT LAMBERTIAN DUST COVER

LVH- 4FT- 3500K

Lumens: 1118 lm/ft  
Input watts: 13 W/ft  
Efficacy: 86 lm/W



INDIRECT BATWING WIDE

LVH- 4FT- 3500K

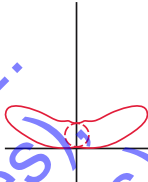
Lumens: 1118 lm/ft  
Input watts: 13 W/ft  
Efficacy: 86 lm/W



INDIRECT BATWING EXTRA-WIDE

LVH- 4FT- 3500K

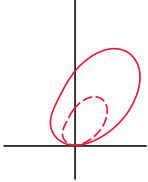
Lumens: 1242 lm/ft  
Input watts: 13 W/ft  
Efficacy: 95 lm/W



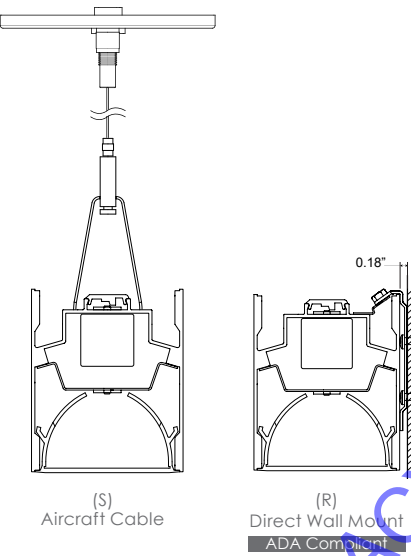
INDIRECT ASYMMETRIC

LVH- 4FT- 3500K

Lumens: 1209 lm/ft  
Input watts: 13 W/ft  
Efficacy: 93 lm/W



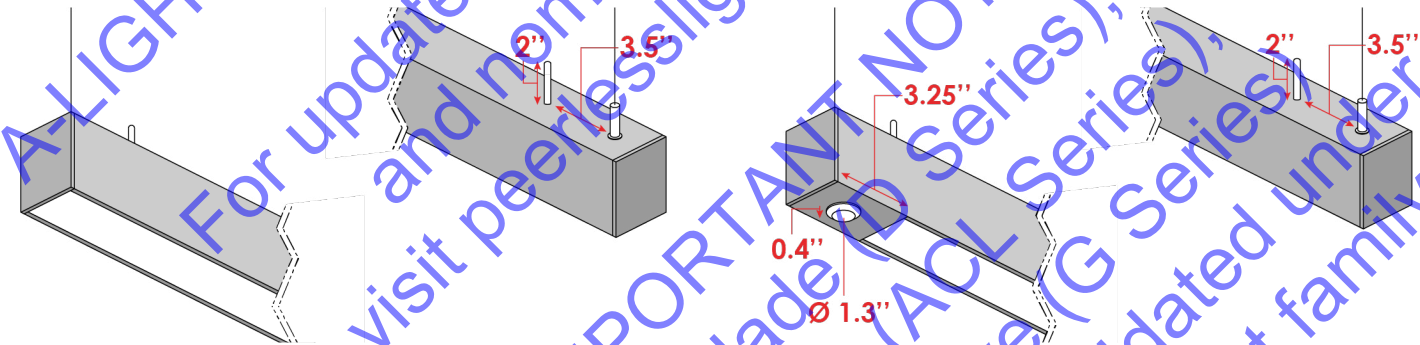
Mounting



NLight dimensions

AIR : r10

AIR : res7



\*Module for nLight AIR only

\*Sensor and filler panel for sensed nLight AIR only

## 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.

## 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.

Indirect distributions are offered with high efficiency TIR lenses are used to provide high quality precision optics. The output option offered are Batwing wide, Batwing Extra-Wide, Asymmetric in (to orient light inside the profile) and Asymmetric out (to orient light outside the profile).

## 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 upon request. 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, 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.

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. Fixture mounts directly to wall surface requiring 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.

## 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.

## WARRANTY

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for five (5) years. 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.qlights.com/downloads/warranty/](http://www.qlights.com/downloads/warranty/)

## 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 ALD2ST 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.