

# A-51™ LED FACTORY SEALED LUMINAIRES

## FOR GROUP A, B, C, D LOCATIONS | EXPLOSIONPROOF | HAZARDOUS LOCATIONS

### FEATURES

- All A-51™ LED fixtures are factory sealed; no external sealing fittings required
- LED lighting for Group A applications when using the pendant mounting hood
- Fixture unit easily threads off mounting hood for convenient servicing or for immediate exchange with new fixture
- Specially formulated two coat baked epoxy enamel provides superior protective finish to resist corrosion. Applied to all mounting hoods, fixture units and guards
- Light outputs up to 3,200 lumens
- Silicone optic provides a smooth light distribution with a uniform light coverage
- Globes in A-51™ fixtures are explosionproof, heat- and impact-resistant glass
- Guards to protect globe are easily mounted to globe ring with 3 screws
- Fixture units have standardized threads to fit all A-51™ LED mounting hoods
- Ambient Temperature: -25 °C to +55 °C (-13 °F to +131 °F)
- 6 kV Surge Protection
- Reported L70 is > 55k hours
- Choice of mountings:
  - Group A, B, C, D:
    - Pendant
  - Group B, C, D:
    - Ceiling and 15° short bracket

### WARRANTY

- 10 year standard warranty

### TYPICAL APPLICATIONS

- Ideal for use in:
  - Chemical and petrochemical plants
  - Hydrogen and Biofuels plants
  - LNG (Liquid Natural Gas) plants
  - Other heavy process areas where ignitable vapors, dust, moisture and corrosive atmospheres may be present

- Suitable for use in wet locations
- Model for Class I, Division 1 applications where acetylene is always present

### LUMINAIRE MATERIALS

- Fixtures and guards: copperfree (4/10 of 1% max.) aluminum
- Pendant mounting hoods: copperfree (4/10 of 1% max.) aluminum
- Ceiling and bracket mounting hoods: malleable iron with aluminum adapters
- Reflectors: powder coated aluminum
- Fixtures, guards and mounting hoods: electrostatically
- Steel reflectors: white porcelain enamel

### ACCESSORIES (PURCHASE SEPARATELY)

- Aluminum guards: AAGUA15
  - Standard Dome Reflector: AARW15STA
  - 30° Angled Reflector: AARW15ANA
- Class I, Division 1, Groups A, B, C, D | Class II, Division 1, Groups F, G | Class III | Suitable for use in Wet Locations

### NOTABLE LISTINGS

- DLC listed

### RELATED PRODUCTS

- A-51™ LED Factory Sealed Luminaires for Group C, D Locations
- Code•Master™ LED Factory Sealed Luminaires
- Code•Master™ Jr. LED Factory Sealed Luminaires



AAL



AAL + AARW15STA



AAL + AARW15ANA

① For Group A applications, Pendant mounting hood must be used.  
 ⚙ For warranty details go to [www.appleton.emerson.com](http://www.appleton.emerson.com).

### PRODUCT SPECIFICATIONS

Series * Lumen Output	AAL *L1	AAL *L2
Nominal Wattage (W, @120 V)	12.7	26.3
Equivalencies (W, HID)	100-150	200-300
Nominal Lumens ①	1700	3200
Efficacy (up to, lm/W) ①	131	122
Color Temperature (CCT) (K)	5000 / 3000	
Color Rendering index (CRI)	≥ 80 CRI	
Voltage	120-277 Vac, 50/60 Hz; 100-300 Vdc	
Surge Protection	6 kV/5 kA	
L70 Lifetime (hrs, reported)	> 55,000 hours	
Ambient Temperature ②	-40 °C to +55 °C (-40 °F to +131 °F)	
Temperature Code ②	T6	
Fixture Weight - kg (lbs)	6.1 (13.4)	
Replaceable Parts	Globe Assembly, Guard, Reflectors	

① Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Refer to catalog pages for detailed performance.

② Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/certification.

**APPLETON™**

For product information:  
[www.masteringled.com](http://www.masteringled.com)  
 1.800.621.1506

  
**EMERSON™**

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### Project Information

Part Number: \_\_\_\_\_ Date: \_\_\_\_\_  
 Project: \_\_\_\_\_  
 Fixture Type: \_\_\_\_\_

### Specifications

### CATALOG NUMBERING GUIDE

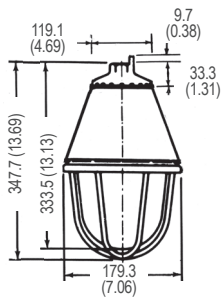
Series Prefix	Mounting	Lumen (nominal)	Hub Size	Color Temperature	Voltage	Options
AAL					BU	
<b>SERIES PREFIX:</b>		<b>MOUNTING: ①</b>		<b>HUB SIZE:</b>		<b>VOLTAGE:</b>
<b>AAL</b> A-51™ LED (Groups A, B, C, D)		<b>A</b> Pendant <b>C</b> Ceiling <b>SB</b> 15° Short Bracket <b>Blank</b> No mounting hood		<b>1</b> 1/2" NPT <b>2</b> 3/4" NPT <b>Blank</b> No hub size needed if no mounting hood		<b>BU</b> 120-277 Vac, 50/60 Hz; 100-300 Vdc
		<b>LUMEN (NOMINAL @ 5000K):</b>		<b>COLOR TEMPERATURE (CCT):</b>		<b>OPTIONS:</b>
		<b>L1</b> 1700 <b>L2</b> 3200		<b>C</b> Cool, 5000K <b>W</b> Warm, 3000K		<b>G</b> Guard <b>Blank</b> No Guard

① For Group A applications, Pendant mounting hood must be used.

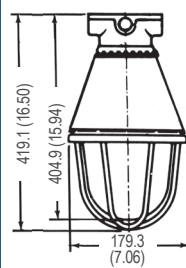
### DIMENSIONAL DRAWINGS ① | MILLIMETERS (INCHES)

#### AAL\*L1 to AAL\*L2

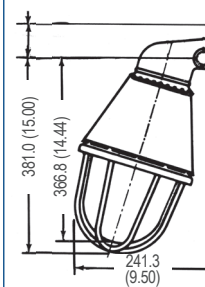
##### Pendant Mount



##### Ceiling Mount



##### 25° Stanchion Mount



① Refer to catalog pages for additional dimensional information; available on [www.masteringled.com](http://www.masteringled.com)

**APPLETON™**

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[www.masteringled.com](http://www.masteringled.com)

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