

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

- 5 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

NEC/CEC LISTINGS

- Class I, Division 1, Groups A ①, 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.

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
1.800.621.1506


EMERSON™

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Project Information

Part Number: _____ Date: _____
 Project: _____
 Fixture Type: _____

Specifications

CATALOG NUMBERING GUIDE

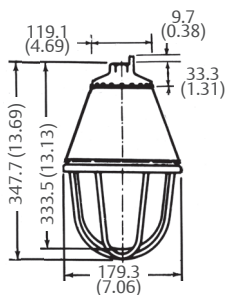
Series Prefix	Mounting	Lumen (nominal)	Hub Size	Color Temperature	Voltage	Options
AAL					BU	
SERIES PREFIX:		MOUNTING: ①		HUB SIZE:		VOLTAGE:
AAL A-51™ LED (Groups A, B, C, D)		A Pendant C Ceiling SB 15° Short Bracket Blank No mounting hood		1 1/2" NPT 2 3/4" NPT Blank No hub size needed if no mounting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

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

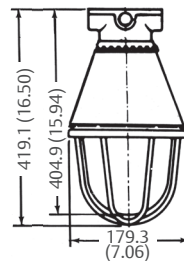
DIMENSIONAL DRAWINGS ① | MILLIMETERS (INCHES)

AAL *L1 to AAL *L2

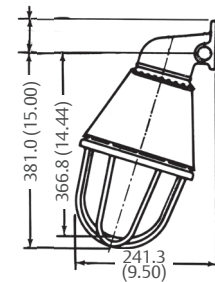
Pendant Mount



Ceiling Mount



25° Stanchion Mount



① Refer to catalog pages for additional dimensional information; available on www.masteringled.com

APPLETON™

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