

A-51™ Incandescent Factory Sealed Luminaires

Explosionproof. For use with threaded metal conduit.

Hazardous Location. Suitable for use in Wet Locations

NEC/CEC — For Group A and B: Class I, Division 1 and 2, Groups A, B, C, D | Class II, Division 1 and 2, Groups E, F, G | Class III

NEC/CEC — For Group C and D: Class I, Division 1 and 2, Groups C, D | Class II, Division 1 and 2, Groups E, F, G | Class III

Applications

- A-51 Series Incandescent Class I, Groups A, B, C and D; and Class II, Groups E, F and G applications (see listings and area suitability chart).
- Ideal for use in chemical and petrochemical plants, and in other heavy process areas where ignitable vapors, dust, moisture and corrosive atmospheres may be present.
- Suitable for use in wet locations.
- Wide range of wattages – 100 W through 300 W incandescent lamps.
- Choice of units with or without guard, as well as choice of polyester reflectors.
- Choice of mountings: pendant, ceiling, 25° stanchion, long bracket and 15° short bracket.
- Fiberglass reinforced polyester reflectors for installations where fixture is subject to exceptionally severe corrosive atmospheres.
- Class I, Groups A and B fixtures have special UL-approved sintered metal flame arrester.

Features

- All A-51 fixtures are factory-sealed; no external sealing fittings required.
- New high temperature phenolic connection block in mounting hood has rugged leaf spring contacts – loosen two screws, rotate and remove for quick wiring.
- Safe, easy servicing or relamping without disconnecting any wiring. “Wireless” fixture unit easily threads off mounting hood for convenient servicing or for immediate exchange with “stand-by” unit.
- All joints are flame-tight.
- Specially formulated two-coat baked epoxy enamel provides superior protective finish to resist corrosion. Applied to all mounting hoods, fixture units and guards.
- New high temperature glass-reinforced phenolic socket block in fixture unit has collector ring and pin that automatically make electrical contact as fixture unit is threaded onto mounting hood.
- Globes in A-51 fixtures are explosionproof and heat- and impact-resistant glass. Prismatic configuration on globe interior provides light control while allowing smooth exterior surface for cleaning.
- A-51 fixture units have standardized threads to fit all A-51 and mounting hoods.
- All fixtures have aluminum inner reflector for increased lumen efficiency.
- A-51 fixture guards to protect globe are of rugged copperfree aluminum construction and double epoxy coated. Easily mount to globe ring with 3 screws.

Standard 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: fiberglass reinforced polyester.

Standard Finishes

- Fixtures, guards and mounting hoods: two-coat epoxy-clad finish. Epoxy powder coat finish, electrostatically applied for complete, uniform surface protection.
- Polyester: natural finish.

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428

Group A and B



Polyester Reflector



Mounting Options

Group C and D



Polyester Reflector



Mounting Options

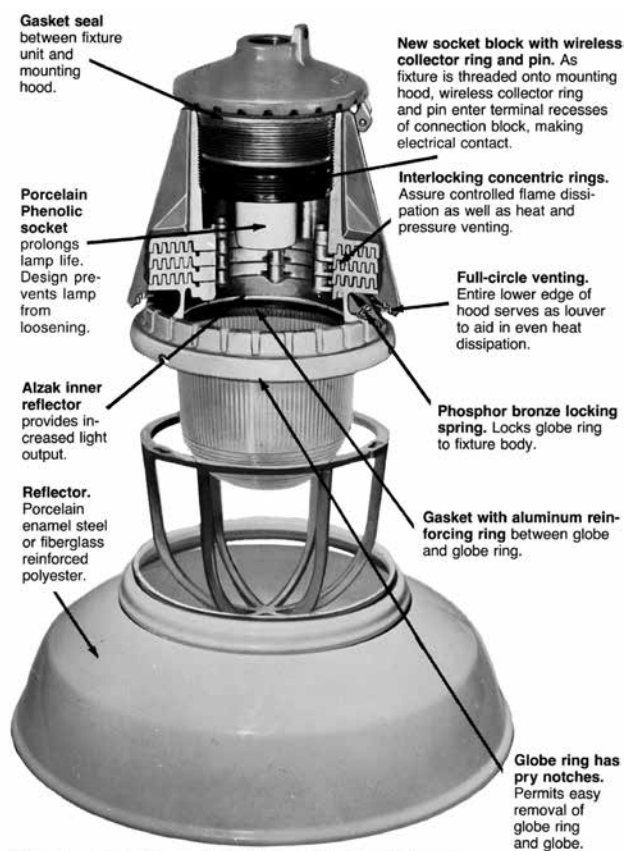
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Illustrated Features



Alzak® is a proprietary term of the Aluminum Company of America.

Weights

Mounting Hoods	Wt. kg (lbs)
Pendant	0.6 (1.3)
Ceiling	2.2 (4.8)
Stanchion	0.7 (1.6)
Long Bracket	4.0 (8.9)
Short Bracket	2.2 (4.8)

Catalog Number	Wt. kg (lbs)
Fixture Units	
AAU-1N	3.4 (7.6)
AAU-15N	3.4 (7.6)
AAU-2NS	4.9 (10.7)
AAU-5NS	9.2 (20.3)
AAUA-15	6.8 (15.0)
AAUA-2	8.2 (18.0)

Guards	
AAGU-1	0.2 (0.4)
AAGU-2	0.4 (0.8)
AAGU-5	0.9 (1.9)
AAGUA-15	0.2 (0.5)

Standard Reflectors	
AARP-2ST	1.3 (2.8)
AARW-15ST	1.0 (2.1)
AARW-2ST	1.3 (2.9)
AARW-5ST	2.0 (4.3)
AARW-15ST	1.0 (2.1)

30° Angle Reflectors	
AARP-2AN	1.5 (3.3)
AARW-15AN	1.0 (2.1)
AARW-2AN	1.1 (2.4)
AARW-5AN	3.2 (7.0)
AARW-15AN	1.0 (2.1)

High Bay Reflectors	
AARE-2HB	1.3 (2.9)
AARE-5HB	1.8 (3.9)

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Fixture Unit	Lamp Watts	Without Reflectors	Standard Dome	30°+ Angle	High Bay	Supply Wire °C (°F)
Class I Division 1 and Division 2 Groups C and D						
AAU1N	100 W A19	T5	T5	T5	—	125 (257)
	100 W A21	T5	T5	T5	—	125 (257)
AAU15N	150 W A23	T3C	T3C	T3C	—	125 (257)
	200 W A25	T3C	T3C	T3C	—	125 (257)
	200 W PS25	T3C	T3C	T3C	—	125 (257)
	300 W PS25	T3C	T3A	T3A (D)	—	125 (257)
AAU2NS	200 W PS25	T3C	T3C	T3C	—	110 (230)
	200 W PS30	T3C	T3C	T3C	—	110 (230)
	300 W PS25	T3C	T3C	T3C	—	110 (230)
	300 W PS30	T3C	T3C	T3C	—	110 (230)
Class I Division 1 and Division 2 Groups A ①, B, C and D						
AAUA15	150 W A23	T3C	T3C	T3C	—	110 (230)
	150 W A25	T3C	T3C	T3C	—	110 (230)
	200 W A25	T3C	T3C	T3C	—	110 (230)
	200 W PS25	T3C	T3C	T3C	—	110 (230)
AAUA2	200 W PS25	T3C	T3C	T3C	—	110 (230)
	200 W PS30	T3C	T3C	T3C	—	110 (230)
	300 W PS25	T3C	T3C	T3C	—	110 (230)
	300 W PS30	T3C	T3C	T3C	—	110 (230)
Class II Division 1 and Division 2 Groups E, F and G						
AAU1N	100 W A19	T3C	T3C	T3C	—	125 (257)
	100 W A21	T3C	T3C	T3C	—	125 (257)
AAU15N	150 W A23	T3C	T3C	T3C	—	125 (257)
	200 W A25	T3C	T3C	T3C	—	125 (257)
	200 W PS25	T3	T3	T3	—	125 (257)
	300 W PS25	T3	—	—	—	125 (257)
AAU2NS	200 W PS25	T3C	T3C	T3C	—	110 (230)
	200 W PS30	T3C	T3C	T3C	—	110 (230)
	300 W PS25	T3C	T3C	T3A (EF)	—	110 (230)
	300 W PS30	T3C	T3C	T3A (EF)	—	110 (230)

“T” Numbers Represent the Maximum External Temperature for Class I, Division 1 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temperature Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temperature Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

NOTE: Ambient suitability of these incandescent fixtures: +40 °C (+104°F)

① For Group A, use Pendant Mount only.

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Mounting Hoods		
Type	Hub Size (Inches)	Catalog Number
Pendant — One Hub, Rigid or Flexible Mounting		
	1/2	AAP-50
	3/4	AAP-75
	1	AAP-100
Ceiling — Four Hubs, Three Close-up Plugs		
	1/2	AAC-50
	3/4	AAC-75
	1	AAC-100
25° Stanchion — Not UL Listed — One Hub		
	1-1/2	AAN-150 ①
Long Bracket — Four Hubs, Three Close-up Plugs		
	1/2	AALB-50
	3/4	AALB-75
	1	AALB-100
15° Short Bracket — Two Hubs, One Close-up Plug		
	1/2	AASB-50
	3/4	AASB-75
Type	Catalog Number	
Fixture Units		
	100 W A-21	AAU-1N
	150-300 W A-23 and PS-25	AAU-15N
	200-300 W PS-30	AAU-2NS
Prismatic Glass Globes		
	100 W (AAU-1N)	AAGL-1PR
	150-300 W (AAU-15N)	AAGL-1PR
	200-300 W (AAU-2NS)	AAGL-2PR
Aluminum Guards		
	100 W (AAU-1N)	AAGU-1
	150-300 W (AAU-15N)	AAGU-1
	200-300 W (AAU-2NS)	AAGU-2

① 1-1/2" tapped hub furnished with a 1-1/2" to 1-1/4" reducer.

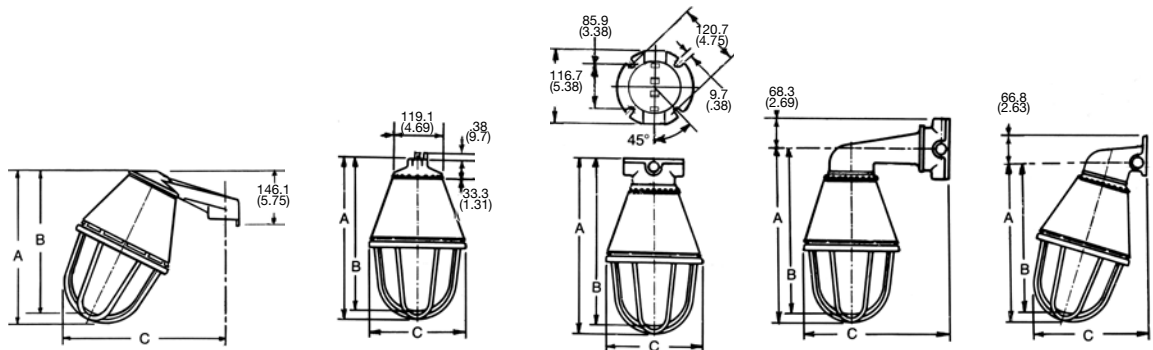
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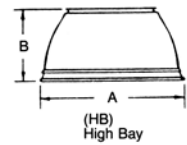
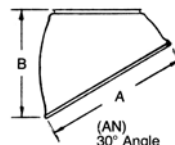
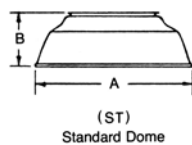
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Dimensions in Millimeters (Inches)



Size (Watts)	Stanchion mm (in)			Pendant ① mm (in)			Ceiling mm (in)			Long Bracket mm (in)			Short Bracket mm (in)		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
100	291.3 (11.47)	275.6 (10.85)	292.1 (11.50)	311.2 (12.25)	295.4 (11.63)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	314.5 (12.38)	344.4 (13.56)	328.7 (12.94)	231.9 (9.13)
150-300	291.3 (11.47)	275.6 (10.85)	292.1 (11.50)	311.2 (12.25)	295.4 (11.63)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	179.3 (7.06)	349.3 (13.75)	333.5 (13.13)	314.5 (12.38)	344.4 (13.56)	328.7 (12.94)	231.9 (9.13)
200-300	332.0 (13.07)	314.5 (12.38)	322.8 (12.71)	354.1 (13.94)	336.6 (13.25)	223.8 (8.81)	392.2 (15.44)	374.7 (14.75)	223.8 (8.81)	392.2 (15.44)	374.7 (14.75)	336.6 (13.25)	385.8 (15.19)	363.8 (14.50)	257.3 (10.13)



Size (Watts)	A ②	B ②	A	B	A	B
100	304.8 (12.00)	114.3 (4.50)	254.0 (10.00)	193.8 (7.63)	-	-
150-200	355.6 (14.00)	111.3 (4.38)	254.0 (10.00)	193.8 (7.63)	-	-
200-300	406.4 (16.00)	131.8 (5.19)	304.8 (12.00)	200.2 (7.88)	304.8 (12.00)	153.9 (6.06)

① For dimensions of fixture unit only, subtract pendant hood dimension 3.3 cm (1.31") from dimensions A and B as listed.

② Dimensions illustrated are for porcelain steel (dome and angle) and etched aluminum (high bay).

Overall dimensions for fiberglass reinforced polyester reflectors are: standard dome – 419.1 mm (16-1/2") dia., (6") (152.4") high; 30° Angle – 374.7 mm (14-3/8") dia., 254 mm (10") high.

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Mounting Hoods			
	Type	Hub Size (Inches)	Catalog Number
Pendant		One Hub, Rigid or Flexible Mounting	1/2 3/4
			AAP-50 ① AAP-75 ①
Ceiling		Four Hubs, Three Close-up Plugs	1/2 3/4
			AAC-50 AAC-75
15° Short Bracket		Two Hubs, One Close-up Plug	1/2 3/4
			AASB-50 AASB-75
	Description		Catalog Number
Fixture Units		100-200 W PS-25	AAUA-15
		200-300 W PS-30	AAUA-2
Globe and Ring Assembly		100-200 W (AAUA-15) 200-300 W (AAUA-2)	AAGLA-15 AAGLA-2
Aluminum Guards		100-200 W (AAUA-15) 200-300 W (AAUA-2)	AAGUA-15 AAGU-2
Medium Base Lamp Socket		100-200 W (AAUA-15) 200-300 W (AAUA-2)	AASPA-15 AASPA-22
Connection Block		Fits all A-51 and AA-51 mounting hoods 100-300 W	VPT-7

① Group A pendant mount only.