Explosionproof

Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

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 IÍI

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

Applications

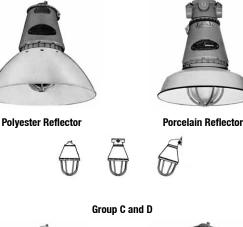
- A-51 Series Incandescent Class I, Groups A, B, C and D; and Class II, Groups E, F and G applications (see listings and area suitability chart).
- Ideal for use in chemical and petrochemical plants, and in other heavy process areas where ignitable vapors, dust, moisture and corrosive atmospheres may be present.
- Suitable for use in wet locations.
- Wide range of wattages 60 W through 300 W incandescent lamps.
- Choice of units with or without guard, as well as choice of porcelain, polyester or aluminum reflectors.
- Choice of mountings: pendant, ceiling, 25° stanchion, long bracket and 15° short bracket.
- Porcelain reflectors for standard applications and fiberglass reinforced polyester reflectors for installations where fixture is subject to exceptionally severe corrosive atmospheres. High bay reflector for installations where mounting height from work plane ranges from 762 mm (20 to 30 ft/508 in).
- 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 "standby" 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: porcelain-enameled steel, aluminum or fiberglass reinforced polyester.







Polyester Reflector

Porcelain Reflector



Standard Finishes

- Fixtures, guards and mounting hoods: two-coat epoxy-clad finish. Epoxy powder coat finish, electrostatically applied for complete, uniform surface protection.
- Steel reflectors: white porcelain enamel.
- Polyester and aluminum reflectors: 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

NCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

Group A and B

Explosionproof

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

strated Features	Weights	re Units
asket seal etween fixture int and	Wt. kg (lbs)	Catalog Number
iounting fixture is threaded onto mounting	3.4 (7.6)	AAU-1N
hood, wireless collector ring and pin enter terminal recesses	3.4 (7.6)	AAU-15N
of connection block, making electrical contact.	4.9 (10.7)	AAU-2NS
Interlocking concentric rings.	9.2 (20.3)	AAU-5NS
Porcelain Phenolic Assure controlled flame dissi- pation as well as heat and	6.8 (15.0)	AAUA-15
prolongs	8.2 (18.0)	AAUA-2
Design pre-		
rom Entire lower edge of hood serves as louver	Mounti	ng Hoods
loosening. to aid in even heat dissipation.	Туре	Wt. kg (lbs)
Alzak inner	Pendant	0.6 (1.3)
reflector provides in-	Ceiling	2.2 (4.8)
creased light output.	Stanchion	0.7 (1.6)
Reflector.	Long Bracket	4.0 (8.9)
Porcelain enamel steel or fiberalese	Short Bracket	2.2 (4.8)
or fiberglass reinforced polyester.		
pulyester.		ards
	Wt. kg (lbs)	Catalog Number
	0.2 (0.4)	AAGU-1
	0.4 (0.8)	AAGU-2
	0.9 (1.9)	AAGU-5
Globe ring has pry notches.	0.2 (0.5)	AAGUA-15
Permits easy removal of globe ring	Standard	Reflectors
Izak [®] is a proprietary term of the Aluminum Company of America.	Wt. kg (lbs)	Catalog Number
	1.3 (2.8)	AARP-2ST
	1.0 (2.1)	AARW-15ST
	1.3 (2.9)	AARW-2ST
	2.0 (4.3)	AARW-5ST
	1.0 (2.1)	AARW-15ST
	30° Angle	Reflectors
	Wt. kg (lbs)	Catalog Number
	1.5 (3.3)	AARP-2AN
	1.0 (2.1)	AARW-15AN
	1.1 (2.4)	AARW-2AN

	High Bay Reflectors
Wt. kg (lbs)	Catalog Number
1.3 (2.9)	AARE-2HB
1.8 (3.9)	AARE-5HB

3.2 (7.0)

1.0 (2.1)

AARW-5AN

AARW-15AN

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INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

Explosionproof

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

Fixture Unit	Lamp Watts	Without Reflectors	Standard Dome	30° Angle	High Bay	Supply Wire °C (°F)
Class I Division	1 and Division 2 Group	s C and D				
AAU1N	100 W A19	T5	Т5	Т5	_	125 (257)
	100 W A21	T5	Т5	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	тзс	T3C	T3C	_	110 (230)
	300 W PS25	T3C	T3C	T3C	_	110 (230)
	300 W PS30	T3C	T3C	T3C	_	110 (230)
	1 and Division 2 Group					
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	тзс	T3C	_	110 (230)
	300 W PS30	T3C	тзс	ТЗС	-	110 (230)
Class II Division	n 1 and Division 2 Group	s F F and G				
AAU1N	100 W A19	T3C	тзс	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	Т3	тз	тз	_	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)

NOTE: Ambient suitability of these incandescent fixtures: +40 °C (+104°F) 1) For Group A, use Pendant Mount only.

For Group C and D Locations. Explosionproof

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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

Туре		Hub Size (Inches)	Catalog Numbe
Pendant – One Hub, Rigid or Flexib	le Mounting		
		1/2	AAP-50
Contraction of the local division of the loc		3/4	AAP-75
		1	AAP-100
Ceiling — Four Hubs, Three Close-u	p Plugs		
		1/2	AAC-50
day the law		3/4	AAC-75
		1	AAC-100
25° Stanchion – Not UL Listed – O	ne Hub		
		1-1/2	AAN-150 (
COLO T			
Long Bracket – Four Hubs, Three C	lose-up Plugs		
E R		1/2	AALB-50
		3/4	AALB-75
		1	AALB-100
15° Short Bracket – Two Hubs, One	Close-up Plug		
4		1/2	AASB-50
		3/4	AASB-75
Туре			Catalog Numb
Fixture Units			
	60-100 W A-21		AAU-1N
and	150-300 W A-23 and PS-25		AAU-15N
	200-300 W PS-30		AAU-2NS
Prismatic Glass Globes			
	60-100 W (AAU-1N)		AAGL-1PF
	150-300 W (AAU-15N)		AAGL-1PF
and the second se	200-300 W (AAU-2NS)		AAGL-2PR
Aluminum Guards			
	60-100 W (AAU-1N)		AAGU-1
TT	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.

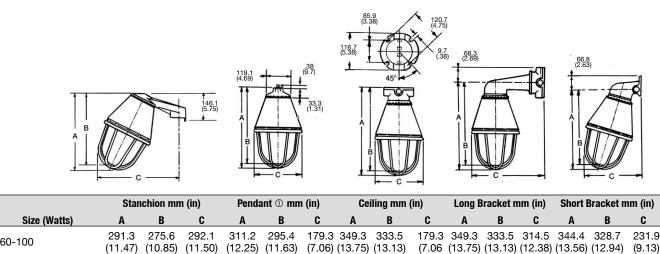
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For Group C and D Locations. Explosionproof

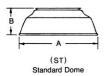
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NEC/CEC — For Group C and D: Class I, Division 1 and 2, Groups C, D Class II, Division 1 and 2, Groups E, F, G Class III

Dimensions in Millimeters (Inches)



60-100	(11.47) (10.85) (11	1.50) (12.25) (11.63)	(7.06) (13.75) (13.13)	(7.06 (13.75) (13.13) (12.38) (13.56) (12.94) (9.13)
150-300				179.3 349.3 333.5 314.5 344.4 328.7 231.9 (7.06) (13.75) (13.13) (12.38) (13.56) (12.94) (9.13)
200-300				223.8 392.2 374.7 336.6 385.8 363.8 257.3 (8.81) (15.44) (14.75) (13.25) (15.19) (14.50) (10.13)







Size (Watts)	A ②	B ②	Α	В	А	В
60-100	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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For Group C and D Locations. Explosionproof Photometric data shown here is based on a 200-watt type PS-30 lamp and is representative of the performance for all A-51 incandescent fixtures using 60-watt to 300-watt lamps. For candlepower values of fixtures with other lamps, use the following multipliers: 60 WA-19 - 0.23; 100 WA-19 - 0.47; 150 WA-21 - 0.75; 200 WA-23 - 1.07; 200 WA-25 - 1.02; 200 WPS-25 - 1.03; 300 WPS-25 - 1.70; W PS-30 - 1.63. To determine candlepower values of fixtures with a guard, multiply by value shown with each curve.

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

Photometric Data

	Effective Floor Cavity Reflectance (Rfc) is 20%																	
	A-51 Incandescent % Ceilin	ng Rcc		80			70			50			30			10		0
	Fixture without Reflector Spacing to Mtg. Ht. % Walls	s Rw	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
	Ratio 1.25:1 Guard .877	1	.735	.690	.651	.695	.655	.618	.622	.590	.561	.554	.530	.506	.493	.473	.454	.422
	$/\uparrow$	2	.621	.558	.503	.588	.530	.481	.525	.478	.437	.467	.430	.396	.413	.384	.357	.327
50	8	3	.540	.468	.411	.512	.446	.394	.457	.404	.359	.406	.363	.327	.360	.325	.294	.267
	SOILER SOILER	4	.474	.400	.342	.450	.381	.328	.402	.346	.301	.359	.312	.274	.318	.280	.248	.223
	(22.5cm)	5	.415	.341	.284	.394	.325	.272	.354	.295	.251	.316	.266	.229	.280	.240	.207	.184
240		6	.372	.297	.245	.352	.284	.233	.316	.258	.215	.283	.234	.197	.252	.210	.178	.157
	ROOR	7	.334	.262	.213	.317	.249	.203	.285	.227	.187	.255	.207	.170	.228	.187	.155	.136
129	a construction of the second se	8	.300	.231	.182	.285	.221	.175	.256	.202	.162	.231	.183	.148	.206	.165	.135	.117
480		9	.271	.204	.157	.258	.195	.152	.233	.178	.140	.209	.162	.128	.187	.146	.117	.100
Month Row X		10	.246	.181	.139	.234	.175	.135	.212	.160	.124	.191	.145	.113	.172	.132	.102	.087





A–51	Inca	andesc	ent	Fixture	with
Stand	ard	Dome	Ref	ector	

Spacing to Mtg. Ht. Ratio 1.25:1



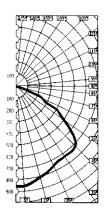
% Ceiling Rcc 80		70			50			30			10			0			
% Walls	Rw	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
	1	.757	.727	.700	.740	.713	.689	.709	.686	.667	.681	.663	.646	.656	.641	.627	.612
	2	.660	.613	.572	.647	.603	.567	.621	.585	.552	.598	.568	.540	.577	.551	.528	.512
so	3	.580	.524	.478	.570	.516	.475	.549	.504	.466	.529	.490	.458	.511	.478	.449	.434
CAVITY RATIOS	4	.514	.452	.403	.504	.446	.400	.486	.436	.395	.469	.425	.390	.454	.415	.384	.368
Σ	5	.451	.385	.336	.442	.380	.334	.427	.372	.332	.413	.364	.327	.399	.357	.323	.308
CAV	6	.402	.336	.291	.394	.333	.286	.381	.326	.285	.369	.319	.282	.358	.313	.279	.264
ROOM	7	.361	.296	.254	.355	.293	.250	.343	.286	.247	.332	.282	.245	.323	.278	.243	.229
BC	8	.323	.261	.216	.318	.258	.216	.308	.254	.215	.299	.249	.213	.290	.245	.211	.197
	9	.291	.230	.187	.287	.227	.187	.278	.223	.186	.269	.219	.184	.262	.216	.182	.169
	10	.264	.204	.166	.259	.204	.166	.253	.200	.164	.245	.197	.162	.240	.194	.161	.149

Effective Floor Cavity Reflectance (Rfc) is 20%

For Group C and D Locations. Explosionproof Photometric data shown here is based on a 200-watt type PS-30 lamp and is representative of the performance for all A-51 incandescent fixtures using 60-watt to 300-watt lamps. For candlepower values of fixtures with other lamps, use the following multipliers: 60 WA-19 - 0.23; 100 WA-19 - 0.47; 150 WA-21 - 0.75; 200 WA-23 - 1.07; 200 WA-25 - 1.02; 200 WPS-25 - 1.03; 300 WPS-25 - 1.70; 300 WPS-30 - 1.63. To determine candlepower values of fixtures with a guard, multiply by value shown with each curve.

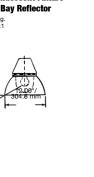
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Photometric Data

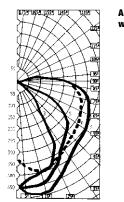


A–51 Incandescent Fixture with High Bay Reflector Spacing to Mtg. Ht. Ratio 1.40:1 Guard .865

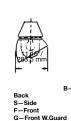
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				E	ffectiv	e Floo	r Cavi	ty Ref	lectar	ice (R	ic) is 2	20%					
% Ceiling) Rcc	80			70			50			30			10			0
% Walls	Rw	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
	1	.686	.644	.645	.671	.651	.634	.644	.628	.614	.620	.607	.595	.598	.588	.577	.566
	2	.614	.580	.549	.603	.571	.545	.581	.555	.531	.562	.540	.520	.544	.525	.508	.496
so	3	.550	.508	.473	.542	.501	.470	.524	.490	.461	.507	.478	.454	.492	.467	.446	.434
RATIOS	4	.493	.445	.408	.486	.441	.404	.470	.431	.400	.456	.422	.395	.443	.413	.389	.377
	5	.439	.387	.349	.432	.383	.347	.420	.376	.344	.407	.369	.340	.396	.383	.336	.324
ROOM CAVITY	6	.393	.340	.304	.387	.338	.300	.376	.331	.298	.366	.326	.296	.356	.320	.293	.281
Mo	7	.352	.299	.264	.347	.296	.261	.337	.290	.258	.327	.287	.256	.320	.283	.254	.242
RO	8	.313	.261	.224	.309	.259	.223	.300	.255	.222	.293	.251	.220	.285	.247	.219	.207
	9	.280	.228	.191	.276	.225	.191	.268	.222	.190	.261	.219	.189	.254	.216	.187	.176
	10	.252	.201	.168	.248	.201	.168	.242	.197	.167	.236	.195	.165	.231	.192	.164	.153



A–51 Incandescent Fixture with 30° Reflector



INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

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