

Mercmaster™ LED Series Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:

Class I, Division 2, Groups A, B, C, D
 Class I, Zone 2, AEx nA IIC
 Class II, Division 1, Group E, F, G
 Class II, Division 2, Group F, G
 Class III

NEC/CEC:

Type 3R, 4, 4X
 IP66/67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 Marine Outside Type (Salt Water)

ATEX/IECEX:

Zone 2 and 22
 II 2 GD
 IP66/67

Mounting Hoods ①

	Description	Hub Size	Catalog Number NEC/CEC and ATEX/IEC
Pendant			
	One Hub, Rigid Mounting	3/4 1 M20	KPA-75 KPA-100 KPA-M20
Pendant Cone			
	One Hub, Rigid Mounting	3/4 1 M20	KPCH-75 KPCH-100 KPCH-M20
Ceiling			
	Five Hubs, Four Close-Up Plugs	3/4 1 M20	KPC-75 KPC-100 KPC-M20
Wall			
	Five Hubs, Four Close-Up Plugs	3/4 1 M20	KPWB-75 KPWB-100 KPWB-M20
25° Stanchion			
	One Hub	1-1/4 1-1/2	KPS-125 KPS-150
90° Stanchion			
	One Hub	1-1/4 1-1/2	KPST-125 KPST-150

Mercmaster LED Ballast and Mounting Hood Weights

Description	Weight kg (lb)
Fixture Unit (Ballast Housing)	8.8 (19.4)
Pendant Mounting Hood	1.0 (2.25)
Pendant Cone Mounting Hood	1.1 (2.50)
Ceiling Mounting Hood	1.4 (3.00)
Wall Mounting Hood	1.8 (4.00)
25° Stanchion Mounting Hood	1.5 (3.25)
90° Stanchion Mounting Hood	1.7 (3.75)

① For ATEX/IECEX rated fixtures, ballast bodies and mounting hoods must be purchased separately.

A-51™ Incandescent Factory Sealed Luminaires

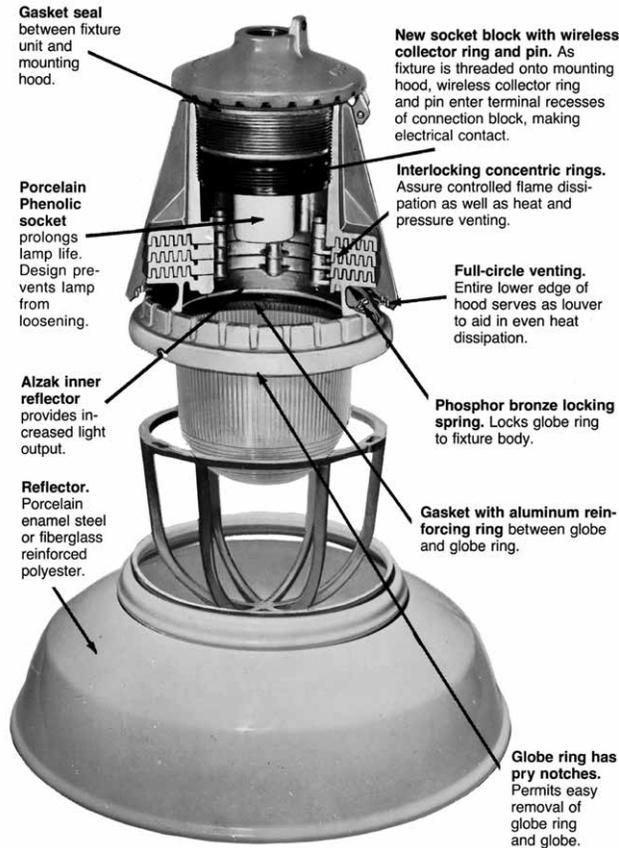
Explosionproof

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

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

Illustrated Features



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

Weights

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

Mounting Hoods		
Type		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)

Guards		
Wt. kg (lbs)		Catalog Number
0.2 (0.4)		AAGU-1
0.4 (0.8)		AAGU-2
0.9 (1.9)		AAGU-5
0.2 (0.5)		AAGUA-15

Standard Reflectors		
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
3.2 (7.0)		AARW-5AN
1.0 (2.1)		AARW-15AN

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

Appleton®

INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

A-51™ Incandescent Factory Sealed Luminaires

For Group C and D Locations. Explosionproof

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

Class I, Division 1 and 2, Groups C, D
Class II, Division 1 and 2, Groups E, F, G
Class III

Appleton®

INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF

Type	Hub Size (Inches)	Catalog Number ②		
Long Bracket — Four Hubs, Three Close-up Plugs				
	60-100 W (AAU-1N) A-21	1/2 3/4 1	ALB1050 ALB1075 ALB10100	
	150-300 W (AAU-15N) A-23 PS-25	1/2 3/4 1	ALB1550 ALB1575 ALB15100	
	200-300 W (AAU-2NS) PS-30	1/2 3/4 1	ALB2050 ALB2075 ALB20100	
	15° Short Bracket — Two Hubs, One Close-up Plug			
		60-100 W (AAU-1N) A-21	1/2 3/4	ASB1050 ASB1075
		150-300 W (AAU-15N) A-23 PS-25	1/2 3/4	ASB1550 ASB1575
		200-300 W (AAU-2NS) PS-30	1/2 3/4	ASB2050 ASB2075
		Three-Way Exit Sign		
			Epoxy enameled steel – 152.4 mm (6 in)-high red lettering 60-200 W (Mounts to AAU-1N or AAU-15N fixture units in place of guard)	CJEXRN
Single-Sided Exit Sign				
	Epoxy enameled steel – 152.4 mm (6 in)-high red lettering 60-200 W (Mounts to AAU-1N or AAU-15N fixture units in place of guard) (See page G2-24 for dimensions)	AEXR-15R		
Guard — Add suffix to fixture catalog number				
	Guard	-G		

① See A-51™ Incandescent Factory Sealed Luminaire Classified Area Suitability page for suitability of specific fixtures.

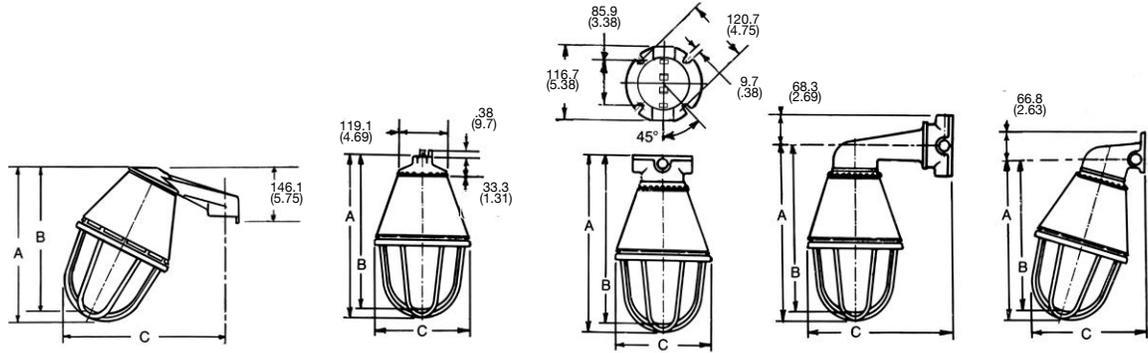
A-51™ Incandescent Factory Sealed Luminaires

For Group C and D Locations. Explosionproof

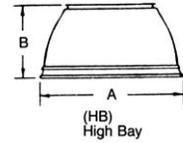
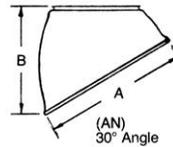
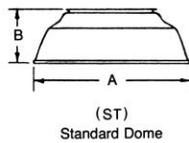
Suitable for use in Wet Locations. UNILETS® for use with Threaded Metal Conduit.

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)



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
60-100	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
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.

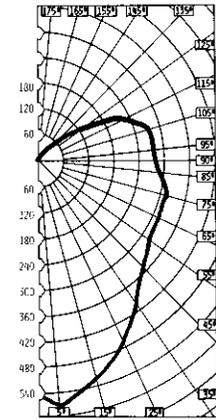
A-51™ Incandescent Factory Sealed Luminaires

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 W A-19 - 0.23; 100 W A-19 - 0.47; 150 W A-21 - 0.75; 200 W A-23 - 1.07; 200 W A-25 - 1.02; 200 W PS-25 - 1.03; 300 W PS-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

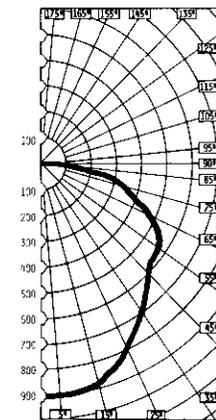


A-51 Incandescent Fixture without Reflector
 Spacing to Mtg. Ht.
 Ratio 1.25:1
 Guard .877

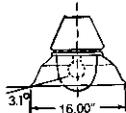


Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	% Walls	Rw	80			70			50			30			10			0
			50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	1		.735	.690	.651	.695	.655	.618	.622	.590	.561	.554	.530	.506	.493	.473	.454	.422
	2		.621	.558	.503	.588	.530	.481	.525	.478	.437	.467	.430	.396	.413	.384	.357	.327
	3		.540	.468	.411	.512	.446	.394	.457	.404	.359	.406	.363	.327	.360	.325	.294	.267
	4		.474	.400	.342	.450	.381	.328	.402	.346	.301	.359	.312	.274	.318	.280	.248	.223
	5		.415	.341	.284	.394	.325	.272	.354	.295	.251	.316	.266	.229	.280	.240	.207	.184
	6		.372	.297	.245	.352	.284	.233	.316	.258	.215	.283	.234	.197	.252	.210	.178	.157
	7		.334	.262	.213	.317	.249	.203	.285	.227	.187	.255	.207	.170	.228	.187	.155	.136
	8		.300	.231	.182	.285	.221	.175	.256	.202	.162	.231	.183	.148	.206	.165	.135	.117
	9		.271	.204	.157	.258	.195	.152	.233	.178	.140	.209	.162	.128	.187	.146	.117	.100
	10		.246	.181	.139	.234	.175	.135	.212	.160	.124	.191	.145	.113	.172	.132	.102	.087



A-51 Incandescent Fixture with Standard Dome Reflector
 Spacing to Mtg. Ht.
 Ratio 1.25:1
 Guard .890



Effective Floor Cavity Reflectance (Rfc) is 20%

% Ceiling Rcc	% Walls	Rw	80			70			50			30			10			0
			50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	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
	3		.580	.524	.478	.570	.516	.475	.549	.504	.466	.529	.490	.458	.511	.478	.449	.434
	4		.514	.452	.403	.504	.446	.400	.486	.436	.395	.469	.425	.390	.454	.415	.384	.368
	5		.451	.385	.336	.442	.380	.334	.427	.372	.332	.413	.364	.327	.399	.357	.323	.308
	6		.402	.336	.291	.394	.333	.286	.381	.326	.285	.369	.319	.282	.358	.313	.279	.264
	7		.361	.296	.254	.355	.293	.250	.343	.286	.247	.332	.282	.245	.323	.278	.243	.229
	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

A-51™ Incandescent Factory Sealed Luminaires

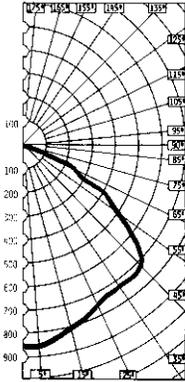
For Group C and D Locations. Explosionproof

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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

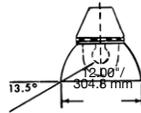
Photometric Data

Effective Floor Cavity Reflectance (Rfc) is 20%

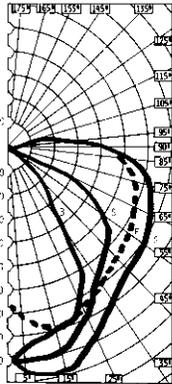


A-51 Incandescent Fixture with High Bay Reflector

Spacing to Mtg.
 Ht. Ratio 1.40:1
 Guard .865



% Ceiling Rcc	Effective Floor Cavity Reflectance (Rfc) is 20%																
	80		70			50			30			10			0		
% Walls	Rw	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
ROOM CAVITY RATIOS	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
	3	.550	.508	.473	.542	.501	.470	.524	.490	.461	.507	.478	.454	.492	.467	.446	.434
	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
	6	.393	.340	.304	.387	.338	.300	.376	.331	.298	.366	.326	.296	.356	.320	.293	.281
	7	.352	.299	.264	.347	.296	.261	.337	.290	.258	.327	.287	.256	.320	.283	.254	.242
	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



B—
 Back
 S—Side
 F—Front
 G—Front W.Guard

Appleton

INCANDESCENT/AREA: NEC/CEC EXPLOSIONPROOF