

SafeSite® LED Area Light

100-277 VAC, 120-250 VDC



Certifications & Ratings*

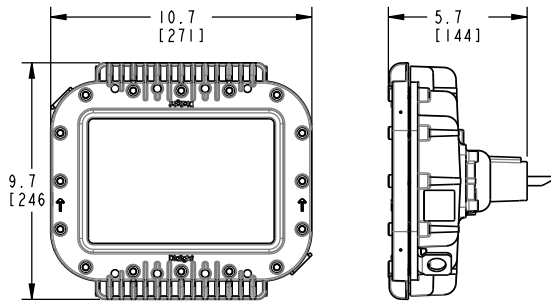
- 10 year warranty
- L70 > 150,000 hours @ 65°C
- UL 844, UL 1598/A
- CSA C22.2 No. 250
- CSA C22.2 No. 137-M81
- IP66 / 67 / 69
- NEMA 4X
- Factory sealed

ALD/ALF:

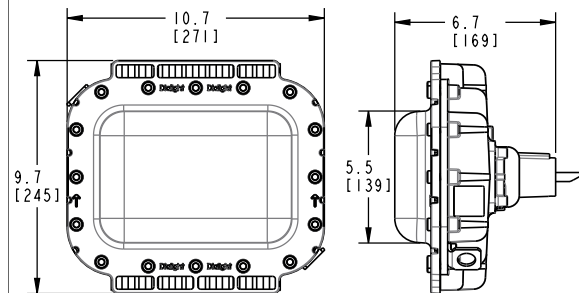
- Class I, Div. 2, Groups A, B, C, D
- Class I, Zone 2, Group IIC
- Class II, Div. 1, Groups E, F, G
- Zone 20 and 21
- Class II, Div. 2 Groups F, G
- Zone 22
- Class III, Div. 1 & 2

*ETL listed

Tempered Glass Lens



Polycarbonate Lens



Dimensions in inches [mm]

Additional dimensional drawings on pages 30-35

Mechanical Information:

Fixture weight: 10 lb (4.5 kg) - Polycarbonate lens
12 lb (5.5 kg) - Tempered glass lens
with stainless steel bracket: 13 lb (5.9 kg) - Polycarbonate lens
15 lb (6.8 kg) - Tempered glass lens

Shipping weight: Add 2 lb (0.91 kg) to weights above

Impact rating: IK10 - Polycarbonate lens
IK07 - Tempered glass lens

Cabling: 10' STOOW 1.02mm 18 AWG

Electrical Specifications:

Operating voltage: 100-277 VAC 50/60Hz, 120-250 VDC

Total system power consumption: See table

Operating temperature: -40°F to +149°F (-40°C to +65°C)

EMC: FCC Title 47, Subpart B, Section 15, Class A device
CISPR-15
RF Immunity 20V/m 80MHz-1GHz.

Transient protection: 6 kV, 2 Ohm line-line and line-ground

Harmonics: IEC 61000-3-2, Class C

THD: < 20%

Power factor: > 0.9

Construction:

Housing: Copper-free aluminum

Finish: Superior dual coat finish
- Sealed polyester topcoat
- Epoxy primer

Lens: Hard-coated polycarbonate
Tempered glass

Photometric Information:

CRI: 80

CCT: 5000K (cool white)
4000K (neutral white)

Optics: 360°
180° forward throw for 45° mounting
Wide for 0° mounting

All values typical unless otherwise stated (tolerance +/- 10%)

Temperature Ratings

Ambient Temperature Range T4A

Ambient Temperature Range T5

-40°F to +149°F (-40°C to +65°C)

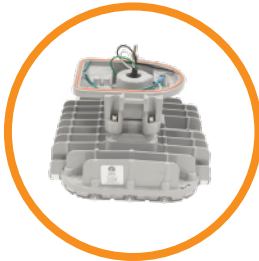
-40°F to +113°F (-40°C to +45°C)

WARNING - INSTALLATION & SECONDARY RETENTION. Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

SafeSite® LED Area Light

100-277 VAC, 120-250 VDC with Universal Mounting Adapter

Universal Mounting Adapter



For use with HZXW01, HZXW45, HZXS45 or HZXFM brackets sold separately



HZXW01



HZXS45



HZXS90 / HZXT90



HZXCV34

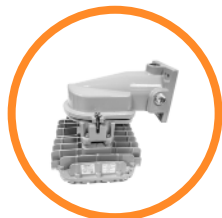


HZXW45

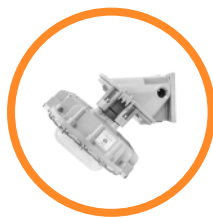


HZXFM

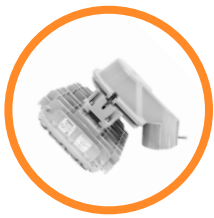
Wall & Ceiling Mount



45° Wall Mount



45° Stanchion Mount



Ceiling Mount



Conveyor Mount



90° Stanchion Mount



Certifications & Ratings*

- 10 year warranty
- L70 > 150,000 hours @ 65°C
- UL 844, UL 1598/A
- CSA C22.2 No. 250
- CSA C22.2 No. 137-M81
- IP66 / 67
- NEMA 4X
- Factory sealed

ALD/ALF:

- Class I, Div. 2, Groups A, B, C, D
- Class I, Zone 2, Group IIC
- Class II, Div. 1, Groups E, F, G
- Zone 20 and 21
- Class II, Div. 2 Groups F, G
- Zone 22
- Class III, Div. 1 & 2

*ETL listed

Additional dimensional drawings on pages 30-35

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Mechanical Information:

Fixture weight:

UMA models:	12 lb (5.5 kg) - Polycarbonate lens
	15 lb (6.8 kg) - Tempered glass lens
Wall mount models:	15 lb (6.8 kg) - Polycarbonate lens
	18 lb (8.2 kg) - Tempered glass lens
45° wall mount models:	14 lb (6.4 kg) - Polycarbonate lens
	17 lb (7.7 kg) - Tempered glass lens
45° stanchion mount:	15 lb (6.8 kg) - Polycarbonate lens
	18 lb (8.2 kg) - Tempered glass lens
Ceiling mount:	14 lb (6.4 kg) - Polycarbonate lens
	7 lb (7.7 kg) - Tempered glass lens
90° stanchion mount:	16 lb (7.2 kg) - Polycarbonate lens
	19 lb (8.6 kg) - Tempered glass lens

Shipping weight:

Add 2 lb (0.91 kg) to weights above

Cabling:

14" leads 1.02 mm 18 AWG

Impact rating:

IK10 - Polycarbonate lens
IK07 - Tempered glass lens

Electrical Specifications:

Operating voltage:	100-277 VAC 50/60Hz, 120-250 VDC
Operating temperature:	-40°F to +149°F (-40°C to +65°C)
EMC:	FCC Title 47, Subpart B, Section 15, Class A device CISPR-15 RF Immunity 20V/m 80MHz-1GHz.
Transient protection:	6 kV, 2 Ohm line-line and line-ground
Harmonics:	IEC 61000-3-2, Class C
THD:	< 20%
Power factor:	> 0.9

Construction:

Housing:	Copper-free aluminum
Finish:	Superior dual coat finish - Sealed polyester topcoat - Epoxy primer
Lens:	Hard-coated polycarbonate Tempered glass

Photometric Information:

CRI:	80
CCT:	5000K (cool white) 4000K (neutral white)
Optics:	360° 180° forward throw for 45° mounting Wide for 0° mounting

All values typical unless otherwise stated (tolerance +/- 10%)

Temperature Ratings

Ambient Temperature Range T4A

Ambient Temperature Range T5

-40°F to +149°F (-40°C to +65°C)

-40°F to +113°F (-40°C to +45°C)

SafeSite® LED Area Light

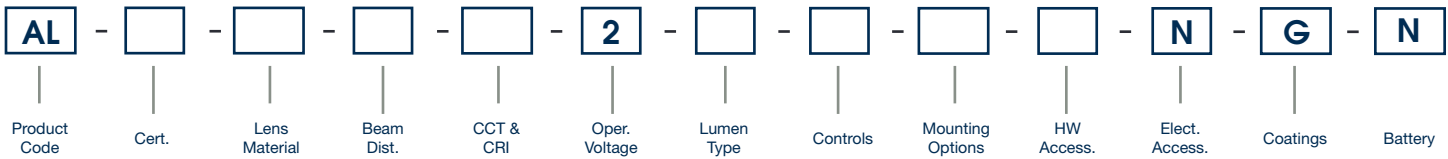
100-277 VAC, 120-250 VDC



Project Information	
Part Number:	
Project:	
Fixture Type:	Date:

Specifications

Ordering Information



Product Code

AL Area Light

Certification

D UL 844 Class I, Div. 2
Class II, Div. 1, 2, Class III, Div. 1, 2
Class I, Zone 2, Group IIC,
CSA C22.2 No. 137-M81

F UL 844 Class II Div. 1, 2
Class I Div. 2, Class III, Div. 1,2
CSA C22.2 No. 137- M81

Lens Material

5 Polycarbonate - Diffused

7 Tempered Glass - Clear

Beam Distribution

A 180°

B 360°

W Wide

CCT & CRI

C Cool White 5000K - 80 CRI

N Neutral White 4000K - 80 CRI

Operating Voltage

2 100-277 VAC, 120-250 VDC

Lumen Type

3 3,100 Lumens

4 4,200 Lumens

6 5,700 Lumens

7 7,300 Lumens

9 9,000 Lumens

*For lumen output see page 21

Controls

D Dimming (0-10V)

N No Option

Mounting Options

Retro-fit Adapter

Universal Mounting Adapter (UMA)

B Swivel Bracket, Locking 0°- 90°
316 Stainless Steel

N 3/4" NPT Pendant

A Appleton Mercmaster III

C Crouse-Hinds - Champ

G GE Filtr-Gard

H Thomas & Betts Hazlux

K Killark Certilite & Certilite V

M Appleton Mercmaster II

P Holophane Petrolux II and III

F Ceiling Mount

S 45° Stanchion Mount

T 90° Stanchion Mount (NPT)

U UMA - Mounting Hub

V 0° Wall Mount

W 45° Wall Mount

Y 34mm Conveyor Mount

Hardware Accessories

N For Mounting Options -
A, C, F, G, H, K, M, S, U, V, W, Y
(individual wire leads are terminated
in adapter housing)

W 10 ft (3 meter) Power Cable for
Mounting Options - B, N

Electrical Accessories

N No Option

Coatings

G Gray (RAL 7040)

Battery

N No Option

Notes

1) For DLC approved model, dimming option is required.

2) When ordering Beam Distribution W - Wide: Lumen Type = 7.

3) When ordering Mounting Options "UMA" or "Retro-fit": Hardware Accessories = N.

4) When ordering Mounting Option U - UMA Mounting Hub HZXW01, HZXW45, HZXS45, HZXT90, HZXF01 or HZXC34 are required. See page 28 for details.

5) Lumen outputs shown are for Tempered Glass lens, 360° optic. For additional options please see page 21.

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Ordering Information

SafeSite® LED Area Light - 100-277 VAC, 120-250 VDC



100-277 VAC, 120-250 VDC Model								
Part Number	Initial Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Controls Option	Mounting
ALD-7AC2-9NNW-NGN	8,800	66	133	CW	Tempered Glass	180°	No Option	3/4" NPT
ALD-5AC2-9NNW-NGN	8,100	66	123	CW	Polycarbonate Diffused	180°	No Option	3/4" NPT
ALD-7BC2-9NNW-NGN	9,000	66	136	CW	Tempered Glass	360°	No Option	3/4" NPT
ALD-5BC2-9NNW-NGN	8,300	66	126	CW	Polycarbonate Diffused	360°	No Option	3/4" NPT
ALD-7AC2-7NNW-NGN	7,100	52	137	CW	Tempered Glass	180°	No Option	3/4" NPT
ALD-5AC2-7NNW-NGN	6,600	52	127	CW	Polycarbonate Diffused	180°	No Option	3/4" NPT
ALD-7BC2-7NNW-NGN	7,300	52	140	CW	Tempered Glass	360°	No Option	3/4" NPT
ALD-5BC2-7NNW-NGN	6,700	52	129	CW	Polycarbonate Diffused	360°	No Option	3/4" NPT
ALD-7WC2-7NNW-NGN	7,300	64	114	CW	Tempered Glass	Wide	No Option	3/4" NPT
ALD-5WC2-7NNW-NGN	6,700	64	105	CW	Polycarbonate Diffused	Wide	No Option	3/4" NPT
ALD-7AC2-6NNW-NGN	5,500	40	138	CW	Tempered Glass	180°	No Option	3/4" NPT
ALD-5AC2-6NNW-NGN	5,100	40	128	CW	Polycarbonate Diffused	180°	No Option	3/4" NPT
ALD-7BC2-6NNW-NGN	5,700	40	143	CW	Tempered Glass	360°	No Option	3/4" NPT
ALD-5BC2-6NNW-NGN	5,300	40	133	CW	Polycarbonate Diffused	360°	No Option	3/4" NPT
ALD-7AC2-4NNW-NGN	4,100	30	137	CW	Tempered Glass	180°	No Option	3/4" NPT
ALD-5AC2-4NNW-NGN	3,800	30	127	CW	Polycarbonate Diffused	180°	No Option	3/4" NPT
ALD-7BC2-4NNW-NGN	4,200	30	140	CW	Tempered Glass	360°	No Option	3/4" NPT
ALD-5BC2-4NNW-NGN	3,900	30	130	CW	Polycarbonate Diffused	360°	No Option	3/4" NPT
ALD-7AC2-3NNW-NGN	3,000	24	125	CW	Tempered Glass	180°	No Option	3/4" NPT
ALD-5AC2-3NNW-NGN	2,800	24	117	CW	Polycarbonate Diffused	180°	No Option	3/4" NPT
ALD-7BC2-3NNW-NGN	3,100	24	129	CW	Tempered Glass	360°	No Option	3/4" NPT
ALD-5BC2-3NNW-NGN	2,800	24	117	CW	Polycarbonate Diffused	360°	No Option	3/4" NPT
100-277 VAC, 120-250 VDC Model with Retro-fit Adapters - Crouse Hinds								
ALD-7BC2-7NCN-NGN	7,300	52	140	CW	Tempered Glass	360°	No Option	Retro-fit: Crouse Hinds
ALD-5BC2-7NCN-NGN	6,700	52	129	CW	Polycarbonate Diffused	360°	No Option	Retro-fit: Crouse Hinds
ALD-7BC2-6NCN-NGN	5,700	40	143	CW	Tempered Glass	360°	No Option	Retro-fit: Crouse Hinds
ALD-5BC2-6NCN-NGN	5,300	40	133	CW	Polycarbonate Diffused	360°	No Option	Retro-fit: Crouse Hinds
100-277 VAC, 120-250 VDC Model with Retro-fit Adapters - GE								
ALD-7BC2-7NGN-NGN	7,300	52	140	CW	Tempered Glass	360°	No Option	Retro-fit: GE
ALD-5BC2-7NGN-NGN	6,700	52	129	CW	Polycarbonate Diffused	360°	No Option	Retro-fit: GE
ALD-7BC2-6NGN-NGN	5,700	40	143	CW	Tempered Glass	360°	No Option	Retro-fit: GE
ALD-5BC2-6NGN-NGN	5,300	40	133	CW	Polycarbonate Diffused	360°	No Option	Retro-fit: GE

See ordering chart for additional options.

For DLC-approved products that require 0-10V dimming, replace the 9th character "N" with "D". ALU-7BC2-9NNW-NGN becomes ALU-7BC2-9DNW-NGN. 0-10V dimming products are supplied with a 5 conductor cable.

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Ordering Information

SafeSite® LED Area Light - 100-277 VAC, 120-250 VDC

with Universal Mounting Adapter



100-277 VAC, 120-250 VDC with Universal Mounting Adapter

Part Number	Initial Fixture Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Controls Option	Mounting
ALD-7AC2-7NUN-NGN	7,100	52	137	CW	Tempered Glass	180°	No Option	UMA Hub
ALD-5AC2-7NUN-NGN	6,600	52	127	CW	Polycarbonate Diffused	180°	No Option	UMA Hub
ALD-7BC2-7NUN-NGN	7,300	52	140	CW	Tempered Glass	360°	No Option	UMA Hub
ALD-5BC2-7NUN-NGN	6,700	52	129	CW	Polycarbonate Diffused	360°	No Option	UMA Hub
ALD-7AC2-6NUN-NGN	5,500	40	138	CW	Tempered Glass	180°	No Option	UMA Hub
ALD-5AC2-6NUN-NGN	5,100	40	128	CW	Polycarbonate Diffused	180°	No Option	UMA Hub
ALD-7BC2-6NUN-NGN	5,700	40	143	CW	Tempered Glass	360°	No Option	UMA Hub
ALD-5BC2-6NUN-NGN	5,300	40	133	CW	Polycarbonate Diffused	360°	No Option	UMA Hub
ALD-7AC2-7NSN-NGN	7,100	52	137	CW	Tempered Glass	180°	No Option	45° Stanchion
ALD-5AC2-7NSN-NGN	6,600	52	127	CW	Polycarbonate Diffused	180°	No Option	45° Stanchion
ALD-7AC2-6NSN-NGN	5,500	40	138	CW	Tempered Glass	180°	No Option	45° Stanchion
ALD-5AC2-6NSN-NGN	5,100	40	128	CW	Polycarbonate Diffused	180°	No Option	45° Stanchion
ALD-7AC2-4NSN-NGN	4,100	30	137	CW	Tempered Glass	180°	No Option	45° Stanchion
ALD-5AC2-4NSN-NGN	3,800	30	127	CW	Polycarbonate Diffused	180°	No Option	45° Stanchion
ALD-7AC2-7NWN-NGN	7,100	52	137	CW	Tempered Glass	180°	No Option	45° Wall
ALD-5AC2-7NWN-NGN	6,600	52	127	CW	Polycarbonate Diffused	180°	No Option	45° Wall
ALD-7AC2-6NWN-NGN	5,500	40	138	CW	Tempered Glass	180°	No Option	45° Wall
ALD-5AC2-6NWN-NGN	5,100	40	128	CW	Polycarbonate Diffused	180°	No Option	45° Wall
ALD-7AC2-4NWN-NGN	4,100	30	137	CW	Tempered Glass	180°	No Option	45° Wall
ALD-5AC2-4NWN-NGN	3,800	30	127	CW	Polycarbonate Diffused	180°	No Option	45° Wall
ALD-7AC2-7NVN-NGN	7,100	52	137	CW	Tempered Glass	180°	No Option	0° Wall
ALD-5AC2-7NVN-NGN	6,600	52	127	CW	Polycarbonate Diffused	180°	No Option	0° Wall
ALD-7AC2-6NVN-NGN	5,500	40	138	CW	Tempered Glass	180°	No Option	0° Wall
ALD-5AC2-6NVN-NGN	5,100	40	128	CW	Polycarbonate Diffused	180°	No Option	0° Wall
ALD-7AC2-4NVN-NGN	4,100	30	137	CW	Tempered Glass	180°	No Option	0° Wall
ALD-5AC2-4NVN-NGN	3,800	30	127	CW	Polycarbonate Diffused	180°	No Option	0° Wall
ALD-7BC2-7NFN-NGN	7,100	52	137	CW	Tempered Glass	360°	No Option	Ceiling Mount
ALD-5BC2-7NFN-NGN	6,600	52	127	CW	Polycarbonate Diffused	360°	No Option	Ceiling Mount
ALD-7BC2-6NFN-NGN	5,500	40	138	CW	Tempered Glass	360°	No Option	Ceiling Mount
ALD-5BC2-6NFN-NGN	5,100	40	128	CW	Polycarbonate Diffused	360°	No Option	Ceiling Mount
ALD-7BC2-4NFN-NGN	4,100	30	137	CW	Tempered Glass	360°	No Option	Ceiling Mount
ALD-5BC2-4NFN-NGN	3,800	30	127	CW	Polycarbonate Diffused	360°	No Option	Ceiling Mount

See ordering chart for additional options.

For DLC-approved products that require 0-10V dimming, replace the 9th character "N" with "D". ALU-7BC2-9NNW-NGN becomes ALU-7BC2-9DNW-NGN. 0-10V dimming products are supplied with a 5 conductor cable.

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