

## SafeSite® LED Area Light

347-480V AC, 24-48V DC, 120-277V AC Battery Backup

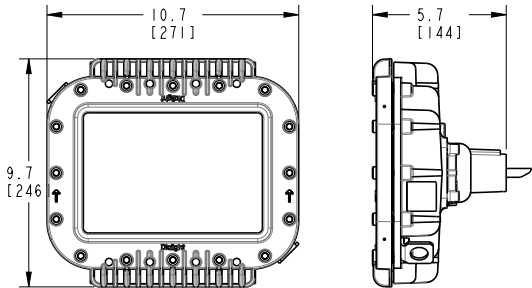


### Certifications & Ratings\*

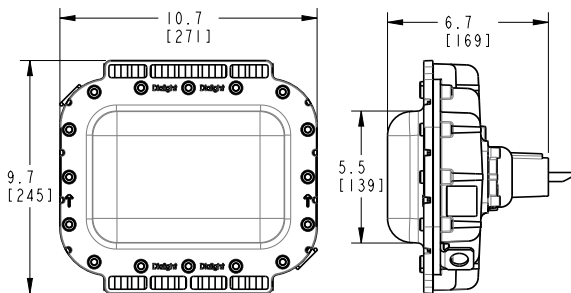
- 5 year warranty
- UL 844, UL 1598/A
- Class I, Div 1, Groups A, B, C, D
- Class I, Div 2, Groups A, B, C, D
- Class II, Div 1, Groups E, F, G
- Class II, Div 2, Groups F, G
- Class III, Div 1 & 2
- CSA 22.2 No. 137-M81
- CSA 22.2 No. 250.0
- IP66 / 67
- NEMA 4X
- Factory sealed

\*ETL listed

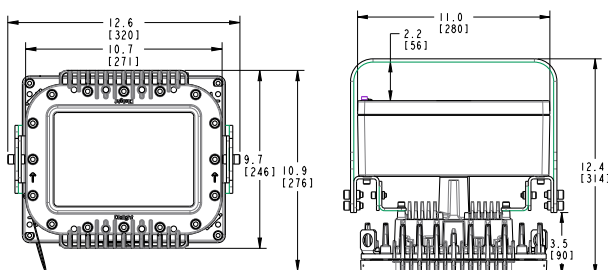
### Tempered Glass Lens



### Polycarbonate Lens



### Battery Backup



Dimensions in inches [mm]

### Mechanical Information:

<b>Fixture weight:</b>	4.5 lbs (5.5 kg) - Class I, Div. 1
	CID2, Class II, Class III
	10 lbs (4.5 kg) - Polycarbonate lens
	12 lbs (5.5 kg) - Glass lens
Wall mount models:	15 lbs (6.8 kg) - Polycarbonate lens
	18 lbs (8.2 kg) - Tempered glass lens
45° wall mount models:	14 lbs (6.4 kg) - Polycarbonate lens
	17 lbs (7.8 kg) - Tempered glass lens
45° stanchion mount:	15 lbs (6.7 kg) - Polycarbonate lens
	18 lbs (8.1 kg) - Tempered glass lens
34mm conveyor mount:	15 lbs (6.7 kg) - Polycarbonate lens
	18 lbs (8.1 kg) - Tempered glass lens

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

**Cabling:** 10' (3.5 m) 5 conductor SOOW  
14" (0.4 m) 5 conductor SOOW

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

**Vibration resistance:** Tested per IEC 60068-2-6

### Electrical Specifications:

**Operating voltage:** 347 - 480V  
24 - 28V  
120 - 277V AC battery backup

**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  
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  
- Chemical-resistant epoxy primer

**Corrosion resistance:** 3,000-hour salt spray per ASTM B117

**Lens:** Tempered glass

### Photometric Information:

**CRI:** 75

**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%)

<sup>1</sup>For information on chemical compatibility, please contact your local Dialight representative or follow this link to reference Dialight's Chemical Compatibility Guide:  
[www.dialight.com/pubs/MDTFCHEMRLX001.PDF](http://www.dialight.com/pubs/MDTFCHEMRLX001.PDF)

### Temperature Ratings

Ambient Temperature Range T4A

Ambient Temperature Range T5

-40°F to +113°F (-40°C to +45°C)

-40°F to +149°F (-40°C to +65°C)



# SafeSite® LED Area Light

347-480V AC, 24-48V DC, 100-277V AC Battery Backup

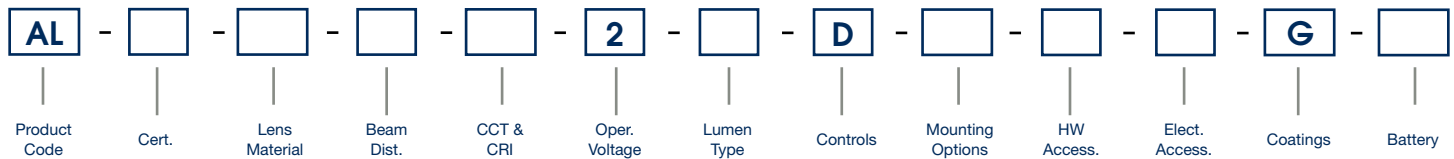


Project Information	
Part Number:	
Project:	
Fixture Type:	Date:

Notes

Specifications

## Ordering Information



**Product Code**

AL	Area Light
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**Certification**

C	UL 844 Class I Div. 1
D	UL 844 Class I Div. 2 CSA 22.2 No. 137 - M81
F	UL 844 Class II Div. 1 CSA 22.2 No. 137 - M81
P	UL 844 Class I Div. 1 Group B (Hydrogen)

**Lens Material**

5	Polycarbonate - Diffused
7	Glass - Clear

**Beam Distribution**

A	180°
B	360°
W	Wide

**CCT & CRI**

A	Amber
B	Cool White 5000K - 70 CRI
L	Neutral White 4000K - 70 CRI

**Operating Voltage**

2	100 - 277 VAC - Battery Backup
5	347 - 480 VAC
6	24 - 48 VDC

**Lumen Type**

480V AC	24-48V DC	120V Battery Backup
4	3.1-4K	2 0.1-2K
5	4.1-5K	5 4.1-5K
6	5.1-6K	
7	6.1-7K	7 6.1-7K   7 6.1-7K

**Controls**

N	No Options
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**Mounting Options**

<input type="checkbox"/>	Retro-fit Adapter
<input type="checkbox"/>	*Universal Mounting Adapter (UMA)

A	Appleton Mercmaster III
B	Swivel Bracket, Locking 0°- 90° 316 Stainless Steel
C	Crouse-Hinds - Champ
G	GE Filtr-Gard
H	Thomas & Betts Hazlux
K	Killark Certilite & Certilite V
M	Appleton Mercmaster II
N	3/4" NPT
S	45° Stanchion Mount
U	UMA - Mounting Hub
V	0° Wall Mount
W	45° Wall Mount
Y	34mm Conveyor Mount

**Hardware Accessories**

7	14 in (0.35 meter) Leads
N	No Option
T	1.5 ft (0.5 meter) Power Cable
U	3 ft (1 meter) Power Cable
V	6 ft (1.8 meter) Power Cable
W	10 ft (3 meter) Power Cable

**Electrical Accessories**

A	Armoured Cable with Cable Gland
M	Cable Glands
N	No Option
T	IECEx 5 Position Terminal Block
U	5 Position Terminal Block - screw down
V	5 Position Terminal Block - push down

**Coatings**

G	Gray (RAL 7040)
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**Battery**

F	180 min.
N	No Option

**Notes**

- When using "UMA" or "Retro-fit" mounting options, Hardware Accessories = N.
- \*Terminal block options only available when using "UMA" mounting options.
- Not all lumen options available for all voltage options, consult table.

**Notes - When Ordering Battery Backup Models Use...**

- Certification = D UL 844 Class I, Division 2
- Beam Distribution = A 180° or B 360°
- Operating Voltage = 2 120 - 277 VAC
- Mounting Options = N (stainless steel bracket included)
- Hardware Accessories = N (junction box included)
- Electrical Accessories = N (wiring via 3 positions push down terminal block)
- Battery = F 180 min.

# Lumen Tables

100-277V AC, 120-250V DC									
Output Family	Beam Distribution	Lens	Wattage	Lumens 5000 CCT	5000 CCT lm/W	Lumens 4000 CCT	4000 CCT lm/W	Lumens 2700 CCT	2700 CCT lm/W
9,000	360°	1/4" AR Glass	66	9000	136	8800	134	8200	124
		Class I, Div 1 Glass		8600	131	8400	128	7900	120
		Polycarbonate		8300	127	8100	123	7600	115
	180°	1/4" AR Glass		8800	134	8600	131	8000	121
		Class I, Div 1 Glass		8400	128	8200	125	7700	117
		Polycarbonate		8100	124	7900	120	7400	112
7,300	360°	1/4" AR Glass	52	7300	140	7100	138	6700	129
		Class I, Div 1 Glass		7000	135	6800	132	6400	123
		Polycarbonate		6700	131	6500	126	6100	117
	180°	1/4" AR Glass		7100	138	6900	134	6500	125
		Class I, Div 1 Glass		6800	132	6600	128	6200	119
		Polycarbonate		6600	128	6400	124	6000	115
	Wide	1/4" AR Glass		7300	114	7100	112	6700	105
		Class I, Div 1 Glass		7000	110	6800	107	6400	100
		Polycarbonate		6700	106	6500	103	6100	95
5,700	360°	1/4" AR Glass	40	5700	143	5500	140	5200	130
		Class I, Div 1 Glass		5400	137	5200	132	4900	123
		Polycarbonate		5300	133	5100	130	4800	120
	180°	1/4" AR Glass		5500	140	5300	135	5000	125
		Class I, Div 1 Glass		5300	134	5100	130	4800	120
		Polycarbonate		5100	130	4900	125	4600	115
4,200	360°	1/4" AR Glass	30	4200	140	4100	137	3800	127
		Class I, Div 1 Glass		4000	134	3900	131	3600	120
		Polycarbonate		3900	130	3800	127	3900	130
	180°	1/4" AR Glass		4100	137	4000	134	4100	137
		Class I, Div 1 Glass		3900	132	3800	127	3900	130
		Polycarbonate		3800	127	3700	124	3400	113
3,100	360°	1/4" AR Glass	24	3100	129	3000	127	2800	117
		Class I, Div 1 Glass		2900	124	2900	121	2600	108
		Polycarbonate		2800	120	2700	114	2500	104
	180°	1/4" AR Glass		3000	127	2900	123	2700	113
		Class I, Div 1 Glass		2900	121	2800	118	2600	108
		Polycarbonate		2800	118	2700	114	2500	104

24-48V DC							
Output Family	Beam Distribution	Lens	Wattage	Lumens 5000 CCT	5000 CCT lm/W	Lumens 4000 CCT	4000 CCT lm/W
7,000	360°	1/4" AR Glass	71	7000	99	6800	97
		Class I, Div 1 Glass		6700	95	6500	93
		Polycarbonate		6700	95	6500	93
	180°	1/4" AR Glass		7000	99	6800	97
		Class I, Div 1 Glass		6700	95	6500	93
		Polycarbonate		6700	95	6500	93
5,000	360°	1/4" AR Glass	49	5000	102	4900	100
		Class I, Div 1 Glass		4800	98	4700	96
		Polycarbonate		4800	98	4700	96
	180°	1/4" AR Glass		5000	102	4900	100
		Class I, Div 1 Glass		4800	98	4700	96
		Polycarbonate		4800	98	4700	96
3,000	360°	1/4" AR Glass	27	3000	111	2900	109
		Class I, Div 1 Glass		2800	107	2800	105
		Polycarbonate		2800	107	2800	105
	180°	1/4" AR Glass		3000	111	2900	109
		Class I, Div 1 Glass		2800	111	2800	105
		Polycarbonate		2800	107	2800	105

All values typical unless otherwise stated (tolerance +/- 10%)  
 For lighting layouts, please find IES files at [www.dialight.com](http://www.dialight.com)

# Lumen Tables

340-480V AC							
Output Family	Beam Distribution	Lens	Wattage	Lumens 5000 CCT	5000 CCT lm/W	Lumens 4000 CCT	4000 CCT lm/W
7,250	360°	1/4" AR Glass	68	7200	107	7100	104
		Class I, Div 1 Glass		6900	102	6800	100
		Polycarbonate		6900	102	6800	100
	180°	1/4" AR Glass		7200	107	7100	104
		Class I, Div 1 Glass		6900	102	6800	100
		Polycarbonate		6900	102	6800	100
6,000	360°	1/4" AR Glass	58	6000	103	5800	101
		Class I, Div 1 Glass		5700	99	5600	97
		Polycarbonate		5700	99	5600	97
	180°	1/4" AR Glass		6000	103	5800	101
		Class I, Div 1 Glass		5700	99	5600	97
		Polycarbonate		5700	99	5600	97
5,000	360°	1/4" AR Glass	47	5000	106	4900	104
		Class I, Div 1 Glass		4800	102	4700	100
		Polycarbonate		4800	102	4700	100
	180°	1/4" AR Glass		5000	106	4900	104
		Class I, Div 1 Glass		4800	106	4700	100
		Polycarbonate		4800	102	4700	100
4,100	Wide	Polycarbonate	55	4100	75	4000	73
4,000	360°	1/4" AR Glass	38	4000	105	3900	103
		Class I, Div 1 Glass		3800	101	3700	99
		Polycarbonate		3800	101	3700	99
	180°	1/4" AR Glass		4000	105	3900	103
		Class I, Div 1 Glass		3800	101	3700	99
		Polycarbonate		3800	101	3700	99
2,200	360°	1/4" AR Glass	21	2200	105	2200	105
		Class I, Div 1 Glass		2200	105	2200	105
		Polycarbonate		2200	105	2200	105
	180°	1/4" AR Glass		2200	105	2200	105
		Class I, Div 1 Glass		2200	105	2200	105
		Polycarbonate		2200	105	2200	105

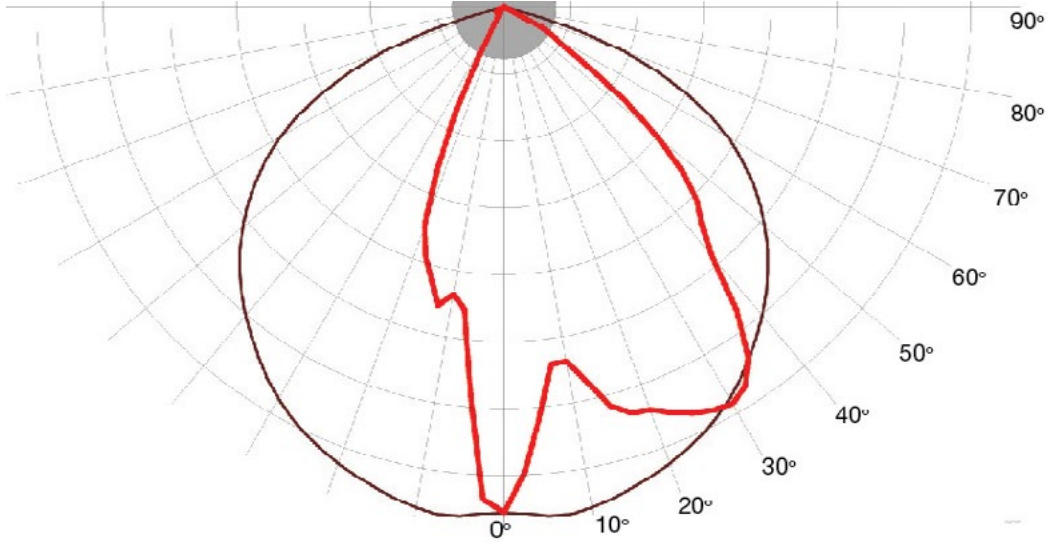
100-277V AC Battery Backup							
Output Family	Beam Distribution	Lens	Wattage	Lumens 5000 CCT	5000 CCT lm/W	Lumens 4000 CCT	4000 CCT lm/W
7,500	360°	1/4" AR Glass	85	7500	88	7300	86
		Polycarbonate		7200	85	7000	83
	180°	1/4" AR Glass		7500	88	7300	86
		Polycarbonate		7200	85	7000	83

All values typical unless otherwise stated (tolerance +/- 10%)  
 For lighting layouts, please find IES files at [www.dialight.com](http://www.dialight.com)

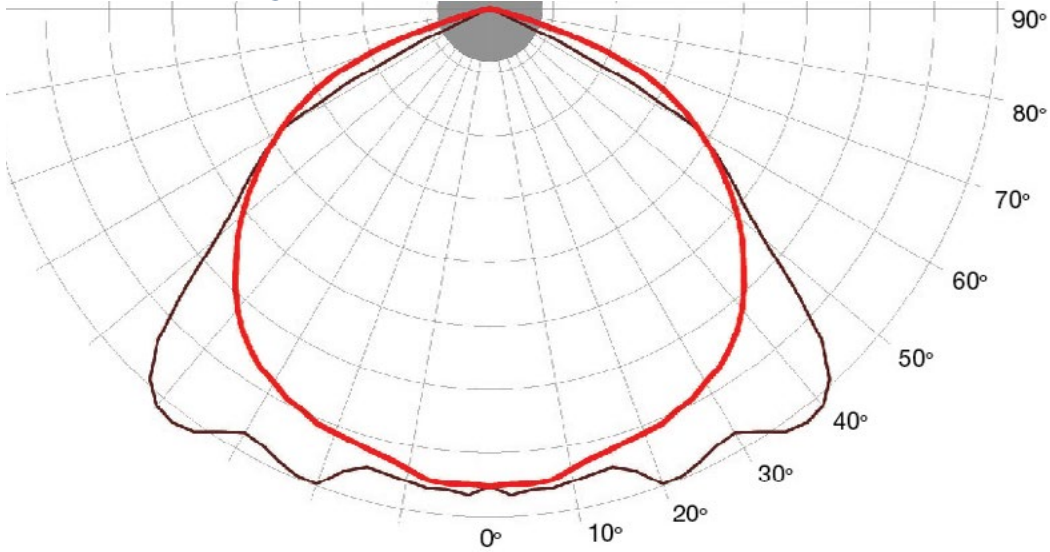
# Beam Distribution

347-480V AC, 24-48V DC, 120-277V AC Battery Backup

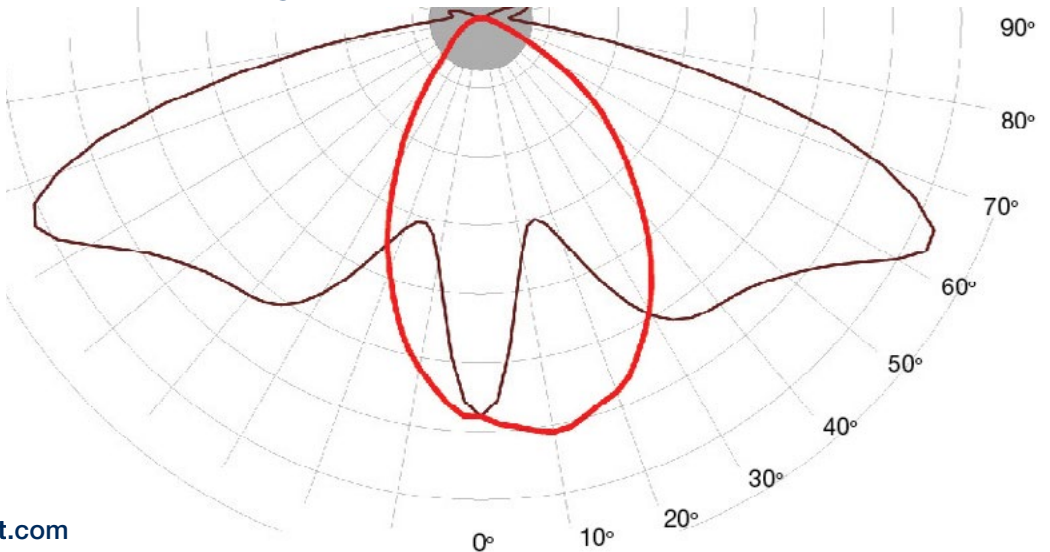
180° Beam Angle



360° Beam Angle



Wide Beam Angle



Black = 0°  
Red = 90°