LED Modular Area Light

Premium Series

The ASD Modular Area Light is designed to adapt to your needs. Our innovative modular technology and multiple mounting configurations make this fixture ideal for any outdoor application. The LMAL puts you in control of your lighting project. Although the fixture combinations are limitless, some common applications include parking lots, sports complexes, wharfs, stadiums, ports, agriculture, mines, outdoor music venues, parks, train stations, truck stops and so on!

Catalog number	
Notes	
Type	

FEATURES AND BENEFITS:

▶ Lighting Modules are individually adjustable, removable to rotate (±30°)
▶ Lighting Modules beam spread is 120° standard or 60°/30° by changing lens
▶ 500 – 1,000W available, 135 lumens per watt
▶ UL/DLC listed PREMIUM
▶ IP 66 all weather condition
▶ L70 lifetime > 150,000 hours
▶ 5 year warranty

PRODUCT LEGEND:

Family	Watts	Dimmable	CCT	Series
ASD-LMAL	**XX**	**D**	**50**	**PRM**
LED Modular	**500** = 500 W	Dimmable	5,000 K	Premium
Area Light	**750** = 750 W			
	1,000 = 1,000 W			

LED MODULAR AREA LIGHT:

Model	Watts	Dimming	CCT	Lumens	Dimensions (LxWxH)
ASD-LMAL-500D50-PRM	500	Yes	5,000 K	68,472 lm	22 1/4" x 20" x 5 3/8"
ASD-LMAL-750D50-PRM	750	Yes	5,000 K	101,719 lm	30 1/8" x 20" x 5 3/8"
ASD-LMAL-1000D50-PRM	1,000	Yes	5,000 K	137,063 lm	38" x 20" x 5 3/8"

PRODUCT SPECIFICATIONS:

Construction & Materials		
Lens	PC	
Housing	Aluminum	
Installation kit, mounting bracket	Iron	
Reflector	Iron	
Finish	Black	
Weight	500 W	41.22 lbs (18.7 kg)
	750 W	56 lbs (25.4 kg)
	1,000 W	70.55 lbs (32 kg)

Environmental System	
Work Environment	Suitable for Wet Locations, IP66
Operating Temperature	-40°F to 122°F (-40℃ to 50℃)
L-70 Life	> 150,000 hrs

Electrical System		Regular Voltage models
Input Voltage		100-277V AC 50/60 Hz
Max input current	500 W	5.55 A
	750 W	8.33 A
	1,000 W	11.11 A
Inrush current		75 A
Action time (Inrush current)		0.57 S
AC input range		min 90 V max 305 V
Off State Power		0 W
Power Consumption		500 W / 750 W / 1,000 W

Optical System		Regular Voltage models
Luminous Flux	500 W	68,472 lm
	750 W	101,719 lm
	1,000 W	137,063 lm
Color Temperature		5,000 K
CRI		>70

Effective projected area (EPA)	Standard U mounting		SFK mounting		LTM BRACKET	
	500 W	2.5ft²	500 W	2.5ft²	2* 250 W	4.8ft²
	750 W	3.86ft²	750 W	3.86ft²	3* 250 W	5.9ft²
	1,000 W	5.2ft²	-	-	4* 250 W	7ft²

Warranty & Certifications	
5-year limited warranty	cULus certified E473804

DesignLights Consortium (DLC) listed (Classification: Premium)
· Main: Outdoor Luminaires; · General Application: Very High Output; · Primary Use: Architectural Flood and Spot Luminaires

Electrical System		Regular Voltage models
Power Factor		≥ 0.99
Output voltage		24-48V DC
Max output current	500 W	9.65 A
	750 W	14.5 A
	1,000 W	19.5 A
LED Driver Class		Class I

The LED Modular Area Light is designed to install as a surface mounted luminaire.

For most up-to-date spec sheets please refer to asd-lighting.com

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INSTALLATION GUIDE

IMPORTANT SAFETY INFORMATION:

Please read all the instructions below before installation.

▶ Make sure that the supply voltage corresponds to the rated product voltage.

▶ The product must be installed by a qualified electrician in accordance with the National Electrical Code and corresponding local codes.

▶ If the product is damaged, do not use it.

⚠ WARNING

RISK OF PERSONAL INJURY – READ and follow all WARNINGS and installation instructions.
Keep or give to the owner for future reference.

Risk of cuts: Wear gloves to prevent cuts or abrasions when removing from carton, handling, installing, and maintaining this product.

Risk of electric shock: This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

Risk of Fire: Minimum 194°F supply conductors. Consult a qualified electrician to ensure correct branch circuit conductor.

ASD® assumes no responsibility for claims arising out of improper or careless Installation or handling of this product.

ELECTRICAL SCHEMATIC DIAGRAM

Power connector 100-277V 50/60 Hz
L (live/hot) connect black
N (neutral) connect white
Ground connect green
L N G
DRIVER
L N G
Dim + (Blue)
Dim - (White)
FIXTURE
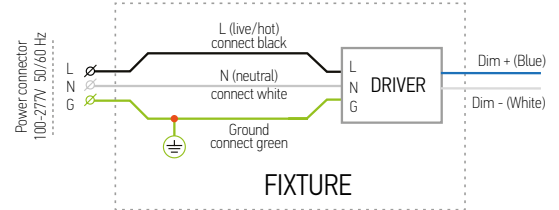
DIMMING WIRES

1. Remove the 4 Philips head screws in the blue end covers on either side of the driver housing.
2. Using a hex key remove the 2 bolts holding the driver housing to the body of the fixture (hex key is customer supplied). Take the dimming wires out.
3. Complete low voltage wiring following electrical diagram on page 3.
4. Reattach the driver with the 2 hex bolts and secure blue end covers with Philips head screws.
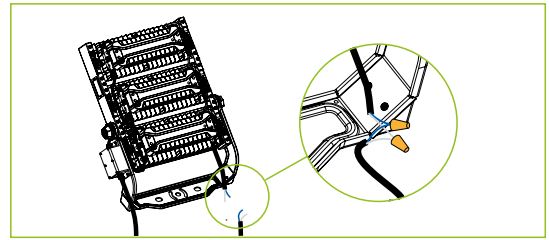
INSTALLATION 250 W MODULE

1. Remove the circular brackets from either side of the unit.
2. Attach the U-mount lock into place at desired angle.
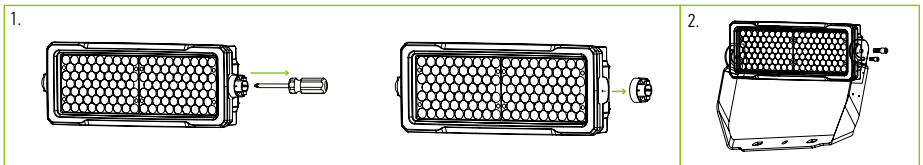
## FIXTURE ASSEMBLY

1. Remove wing-nut and spring assembly from each side of the bracket.
2. Install module(s). Secure at desired angle with wing-nut and spring.
3. Plug female leads from module(s) into male lead from the bracket junction box.
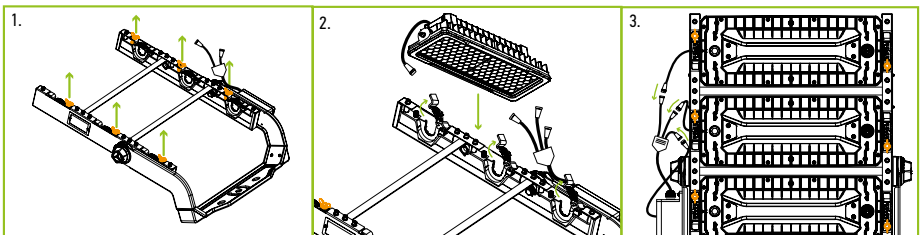
INSTALLATION WITH THE DEFAULT MOUNTING BRACKET

1. Drill holes on the mounting surface corresponding to the holes on the bracket; Fix the fixture with screws (2 M12 screws for 250W fixture, 3 M20 screws for higher wattages, (customer supplied).
2. To adjust mounting angle, remove rubber caps from adjustable knuckles on each side of the bracket, adjust knuckles to desired angle with a 14mm hex key (customer supplied). Tighten hex bolts and reinsert rubber caps.
3. Complete wiring following electrical diagram (can be found at the beginning of installation guide).
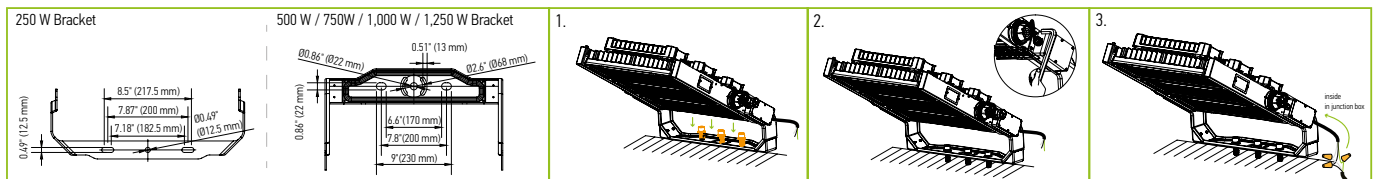
For most up-to-date spec sheets please refer to asd-lighting.com

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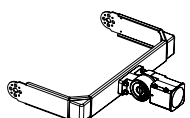
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OPTIONAL ACCESSORIES
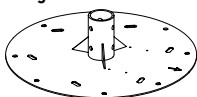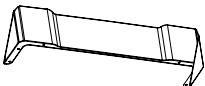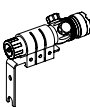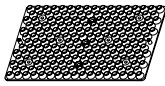
Knuckle Mount Slip-Fitter kit	Multiple Fixtures Pole Mounting Kit	Visor	Laser	Lens

KNUCKLE MOUNT SLIP FITTER KIT (SOLD SEPERATELY) ASD-LMAL-SFK
Compatible with 500-750W models only

1. Remove rubber caps from adjustable knuckles on each side of the bracket, remove hex bolts securing outer bracket to inner bracket assembly.
2. Replace stock outer bracket with slip fitter/trunnion kit. Adjust knuckles to desired angle, tighten. Pass wires from j-box through hole in trunnion bracket and through slip fitter. Attach slip fitter to trunnion with 4 bolts (included).
3. Complete wiring following electrical diagram (can be found at the beginning of installation guide).
4. Mount fixture on pole, adjust module/-s to desired angle and secure it with wing-nut and spring.
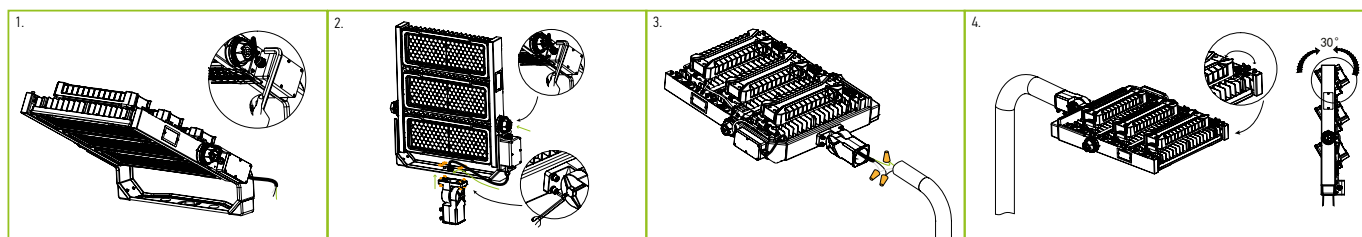
MULTIPLE FIXTURES POLE MOUNTING KIT (SOLD SEPARATELY) ASD-LMAL-LTM
Compatible with 1-4 250W fixtures only

1. Attach up to (4) 250W fixtures to the mounting kit with M12 screws (included).
2. Tighten each bracket to mounting plate
3. Tighten plate slip fitter to pole with 6 screws M12 (customer supplied).
4. Complete wiring following electrical diagram (can be found at the beginning of installation guide).
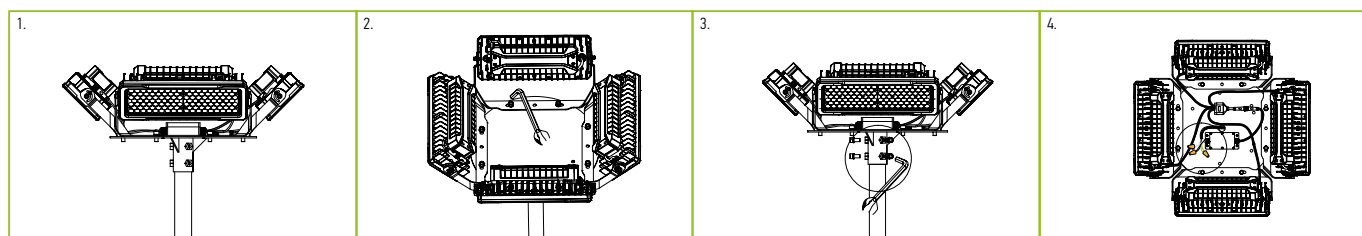
LASER INSTALLATION
1. Insert the laser into the round laser holder with 3 screws, locate the holder in the middle of the laser handle and tighten the screws.
2. Insert the L-shape flat mounting bracket into the corresponding hole at the bottom of the round holder till it fits securely.
3. Screw the second end of the L-shape flat mounting bracket to the top of the first module.

LENS INSTALLATION
1. Get to the back of the module and remove 12 screws holding front frame.
2. Remove the module front frame, tempered glass, waterproof rubber ring and 2 original lenses.
3. Attach 2 new lenses, screw them with 6 screws, put back the waterproof rubber ring, tempered glass and the module front frame, make sure they are aligned.
4. Tighten 12 screws on the back of the module to complete the install.

VISOR INSTALLATION
1. Get to the back of the module and remove 12 screws holding front frame.
2. Replace the module front frame with the one coming as part of visor kit (has 6 screw holes in it).
3. Screw the new front frame to the module with 12 screws.
4. Attach the visor to the front of the module with 6 screws (included).

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500W

20 1/16" (510 mm)   22 3/16" (563.8 mm)   5 3/8" (136.2 mm)

Regular Voltage

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
V 0.00EG PLAN,114.6
H 0.00EG PLAN,107.5

AVERAGE BEAM ANGLE(50%):111.1 DEG

1,000W

20 1/16" (510 mm)   36 1/32" (915.5 mm)   5 3/8" (136.2 mm)

Regular Voltage

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
V 0.00EG PLAN,114.6
H 0.00EG PLAN,107.5

AVERAGE BEAM ANGLE(50%):111.1 DEG

750W

20 1/16" (510 mm)   30 1/8" (764.8 mm)   5 3/8" (136.2 mm)

Regular Voltage
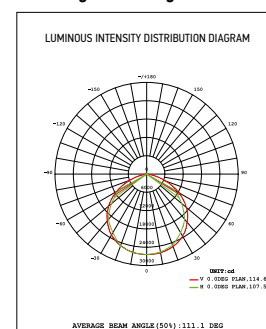
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
V 0.00EG PLAN,114.6
H 0.00EG PLAN,107.5

AVERAGE BEAM ANGLE(50%):111.1 DEG
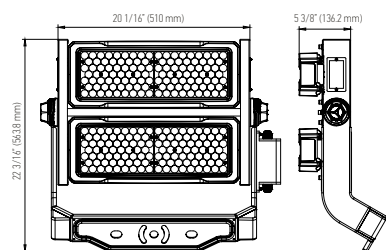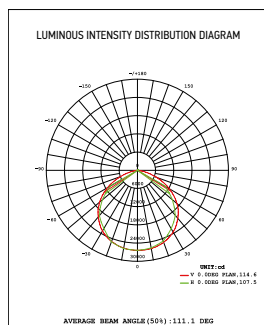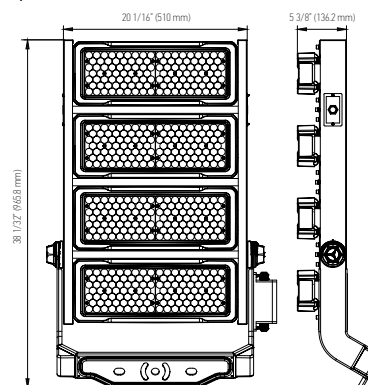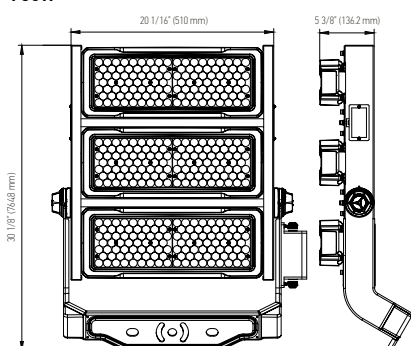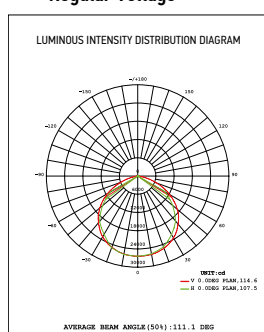
ORDERING INFORMATION

Model	UPC	Description	Components	Pcs	UPC	Carton Size	Carton Weight
ASD-LMAL-500D50-PRM	819201024162	Bracket	ASD-IK500-LMAL	1	819201024063	24.49" x 24.29" x 8.31"	18.74 lbs
		Module	ASD-MODULE-LMAL-250D50-PRM	2	819201024032	20.2" x 8.9" x 7.5"	13.67 lbs
ASD-LMAL-750D50-PRM	819201024179	Bracket	ASD-IK750-LMAL	1	819201024070	32.36" x 24.29" x 8.31"	22.49 lbs
		Module	ASD-MODULE-LMAL-250D50-PRM	3	819201024032	20.2" x 8.9" x 7.5"	13.67 lbs
ASD-LMAL-1000D50-PRM	819201024186	Bracket	ASD-IK1000-LMAL	1	819201024087	40.24" x 24.29" x 8.31"	25.13 lbs
		Module	ASD-MODULE-LMAL-250D50-PRM	4	819201024032	20.2" x 8.9" x 7.5"	13.67 lbs

OPTIONS:

Model	Name	Weight	Dimensions
ASD-SFK-LMAL	ASD Knuckle mount Slip-fitter kit	12.72 lb	18 13/16" x 21 1/2" x 3 1/16"
ASD-LTM-LMAL	ASD Multiple Fixtures Pole Mounting Kit	13.23 lb	20 1/2" x 20 1/2" x 4 13/16"
ASD-LS-LMAL	ASD Laser for Modular Area Light	1.10 lb	6" x 1 1/32" x 3 1/8"
ASD-VS-LMAL	ASD Visor for Modular Area Light	0.66 lb	3 11/16" x 17 5/8" x 3 11/16"
ASD-L30-LMAL	ASD Clear Lens for LED modular light 30° (kit for one module)	0.88 lb	7 5/8" x 4 3/4" x 1/32"
ASD-L60-LMAL	ASD Clear Lens for LED modular light 60° (kit for one module)	0.88 lb	7 5/8" x 4 3/4" x 1/32"
ASD-L120-LMAL	ASD Clear Lens for LED modular light 120° (kit for one module)	0.88 lb	7 5/8" x 4 3/4" x 1/32"

Model	UPC	GTIN 14	Pcs in one Carton	Carton Size	Carton Weight
ASD-SFK-LMAL	819201024124	-	1	26.26" x 13.66" x 4.53"	15.21 lbs
ASD-LTM-LMAL	819201024209	-	1	24.72" x 24.72" x 5.43"	15.43 lbs
ASD-LS-LMAL	819201024100	10819201024107	10	12.20" x 12.20" x 7.48"	13.67 lbs
ASD-VS-LMAL	819201024117	10819201024114	10	19.69" x 19.69" x 7.87"	11.02 lbs
ASD-L30-LMAL	819201024131	10819201024138	10	12.20" x 12.20" x 7.48"	10.14 lbs
ASD-L60-LMAL	819201024148	10819201024145	10	12.20" x 12.20" x 7.48"	10.14 lbs
ASD-L120-LMAL	819201025398	10819201025395	10	12.20" x 12.20" x 7.48"	10.14 lbs

For most up-to-date spec sheets please refer to asd-lighting.com