AccessFixtures
High-Performance Lighting Solutions

AFFO LED FLANKING LIGHTS

High-Performance Marine-Grade Lighting



AFFO flanking light in operation at sea.

AFFO LED flanking lights are engineered for commercial fishing vessels, workboats, and maritime operations. They light riverbanks and shorelines during navigation, reveal submerged objects alongside the hull, and illuminate work areas on the working side of the ship — at outputs from 40W to 1,440W, up to 160 lm/W.

APPLICATIONS

Light the Water's Edge in the Hardest Conditions at Sea

Flanking lights put usable light exactly where a working vessel needs it — over the water, along the hull, and across the deck. Three jobs drive the specification: safe navigation, hazard detection, and work-area illumination.

1

NAVIGATION

Illuminate riverbanks and shorelines while the vessel is under way.

2

HAZARD DETECTION

Find or avoid submerged objects in the water alongside the ship.

3

WORK AREA

Light a work zone on the side of the vessel during fishing or deck operations.

MOUNTING OPTIONS

Three mounts place light precisely where the vessel needs it — secure and directed.



U Mount

Bracket mount. 40W through 1,440W, 0° to 90° tilt.



L Mount

Slipfitter mount. Listed through 960W, 0° to 90° tilt.



T Mount

Fixed arm mount. Listed through 960W, EPA 0.32 to 0.69 sq ft.

Engineered to Outlast the Ocean

Every figure below is a published specification of the AFFO LED flanking light. Data over claims.

WATTAGE

40W – 1,440W

Output range to serve any marine application.

EFFICIENCY

Up to 160 lm/W

Typical efficiency of 128–156 lm/W across the model range.

INGRESS PROTECTION

IP66 rated

Air-tightness tested at 30KPa at every module, frame, and junction box.

IMPACT RESISTANT

IK10, no glass

Modules run independently — if one is damaged, the rest stay lit.

CORROSION PREVENTION

5,000-hr salt spray

Endurance tested to ASTM B117 elevated ambient salt fog.

VIBRATION

3G rated

Certified to ANSI C136.31-2010 bridge and overpass standards.

EXTREME-LIFE

200,000 hrs L70

Superior thermal management and a rugged heat-sink design.

POWER-GRID PROTECTION

10KA or 20KA surge

Tested per IEEE/ANSI C62.41.2 across 100-277V and 277-480V.

OPTICS

T2S – T90D

Thirteen distributions, rotatable left or right at 90°.

OPERATING TEMP

-40°C to +50°C

(-40°F to +122°F) service range.

LOW EPA

0.32 sq ft and up

Aerodynamic profile lowers drag and cuts fuel use.

WARRANTY

5 yr / 10 yr option

Advanced fail-safe electrical design prevents total fixture failure.

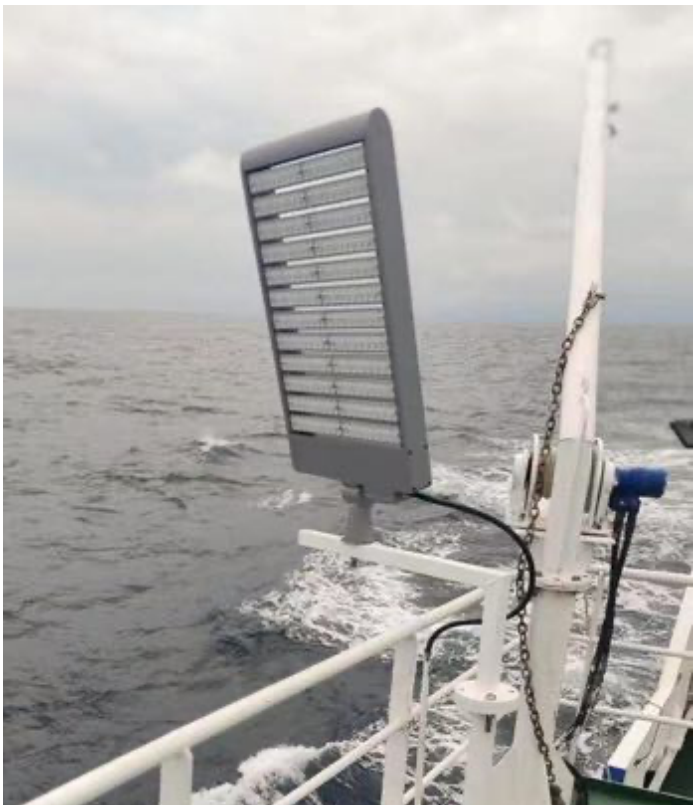
CERTIFICATIONS ON FILE

cULus Listed · CE-LVD / CE-EMC / CB · SAA · DLC Premium qualified versions available · RoHS compliant · ASTM B117 5,000-hour salt fog · IEEE/ANSI C62.41.2 surge suppression · ANSI C136.31-2010 3G vibration.

Two Lights Crossed Two Oceans. One Came Back Intact.



Another manufacturer — corroding



Access Fixtures — no issues

In 2022, two flanking lights were installed on a commercial fishing vessel bound from Spain across the Atlantic to Panama, then on into the Pacific. The voyage was a head-to-head test: one Access Fixtures flanking light and one from another company, both lighting the working side of the ship.

The Access Fixtures fixture is rated IP66 for a safety margin and built to IP68 air-tightness, verified at 30KPa with test points at each light module, the supporting frame, and the junction box. Its anti-corrosion powder-coat finish is tested beyond 5,000 hours of salt spray (ASTM B117-2018). It is built to pass a 3G vibration test and an IK10 impact test.

After eight months across the Atlantic and Pacific, the Access Fixtures flanking light had no issues. The other manufacturer's fixture was rusting away.

8 months
AT SEA, ATLANTIC AND PACIFIC

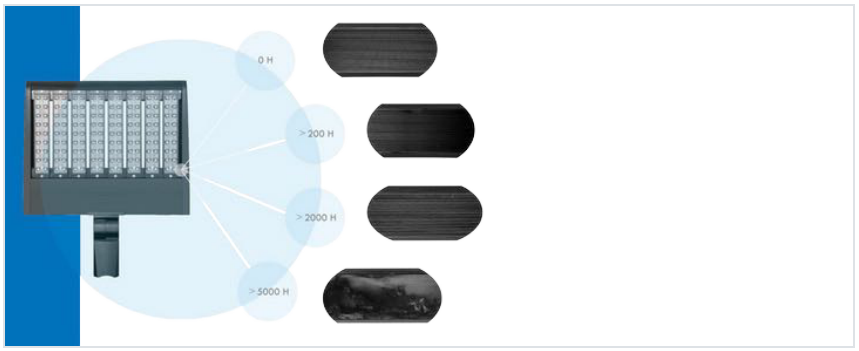
Zero
FIXTURE FAILURES

Built for Relentless Ocean Duty

Three design decisions carry the fixture through salt, vibration, and heat: a corrosion-resistant powder-paint finish tested to ASTM B117, a rugged open heat-sink architecture, and a screwless lens with no glass to break.



Fixed arm mount over the rail — the mount and optic are selected together so the beam lands where the crew works.



Anti-corrosion test standard ASTM B117 — finish condition at 0 H, 200 H, 2,000 H, and 5,000 H of salt spray.



Upgraded heat sink — open architecture moves heat off the driver and LED modules.

SCREWLESS LENS

No screw on the lens and no glass — an IK10 impact-resistant optical face.

AIR-TIGHT TEST AT 30KPa

100% tested via test points on each LED module, the supporting frame, and the junction box.

FAIL-SAFE MODULES

Modules run independently, so critical side lighting stays operational if one is damaged.

SPECIFICATION FEATURES

The Published Specification, Line by Line

WATTAGES	40W, 60W, 80W, 120W, 160W, 180W, 200W, 240W, 300W, 320W, 360W, 480W, 720W, 960W, 1440W
EFFICIENCY	Up to 160 lm/W
KELVIN TEMPERATURES	2200K, 3000K, 4000K, 5000K, 5700K
MOUNTING	T Mount (arm), L Mount (slipfitter), U Mount (bracket)
HOUSING COLORS	Black, bronze, gray, white, green, custom RAL
HOUSING FINISH	Super durable, corrosion-resistant polyester powder paint
CONSTRUCTION	Premium die-cast aluminum
OPTICS	T2S, T3S, T3M, T4VVSB, T4VS, T4S, T4M, T5M, T10D, T20D, T40D, T60D, T90D
CRI	Ra70+, Ra80+, Ra90+
VOLTAGE	100-277V, 277-480V
OPERATING TEMPERATURE	-40°C to +50°C (-40°F to +122°F)
SURGE PROTECTION	10KA, 20KA
CONTROLS AND ADD-ONS	0-10V dimming, 1-10V dimming, vandal-resistant screws, power cords, safety cables, microwave motion sensor, photocell, backlight shield, bird spikes, emergency power supply
CERTIFICATIONS	cULus Listed; CE-LVD / CE-EMC / CB; SAA; DLC Premium qualified versions available; RoHS compliant; endurance tested to withstand 5,000 hours of elevated ambient salt fog per ASTM B117; 10KA surge suppression tested per IEEE/ANSI C62.41.2; certified to ANSI C136.31-2010, 3G bridge and overpass vibration standards
WARRANTY	5-year standard; 10-year option

Proven by Test, Not by Claim

The conditions and results below are the published test record for the AFFO flanking light.

Max 5,000-Hour Salt Spray Test

Test Condition	ASTM B117-2018
Test Standard	1. Neutral salt spray test 2. Solution concentration: 50 g ± 5 g/L 3. Chamber temperature: 35°C 4. Pressure barrel temperature: 47°C 5. pH value of solution: 6.5–7.2 6. Salt spray deposition (80cm²): 1.0–2.0 7. Spray duration: 5,000 hours 8. Spray model: continued Samples are carefully removed, washed gently or immersed in a clean flow of water not exceeding 38°C, then dried immediately.
Test Result	After visual inspection, the sample shows slight corrosion and slight loss of light.

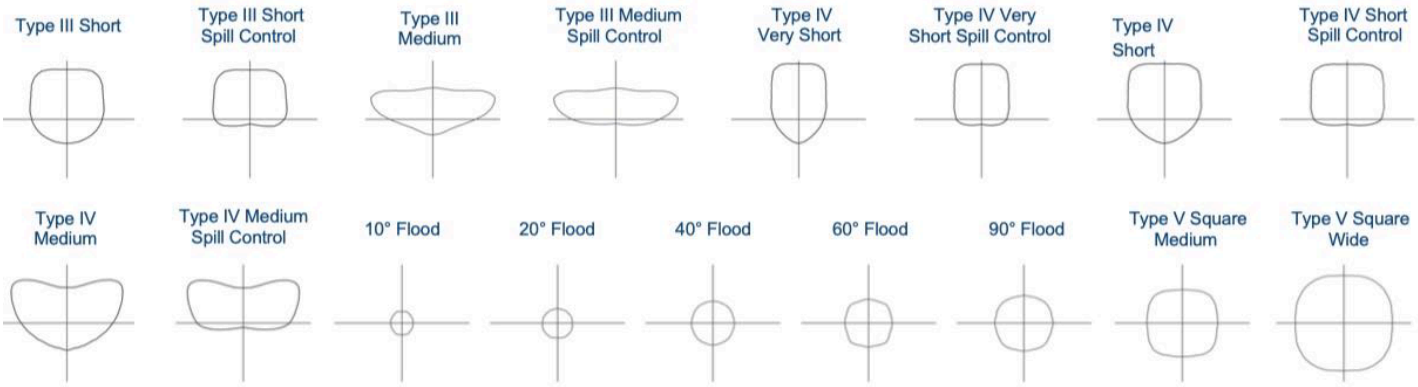
3G Vibration Test

Test Standard	ANSI C136.31-2018
Test Parameters	1. Frequency/Hz: 2–30 2. Acceleration/(g): 0.2 3. Sweep rate/(oct/min): 1 4. Times of frequency sweep: 1 5. Test axial: X, Y, Z 6. Test mode: power off
Fixed Vibration	1. Frequency/Hz: 13.5(X), 18.6(Y), 12(Z) 2. Acceleration/(g): 3 3. Test axial: X, Y, Z 4. Test cycle/(times): 100,000 5. Test mode: power off
Test Result	Sample appearance and structure are normal during and after testing.

OPTICAL DISTRIBUTION

Place the Light, Not Just the Fixture

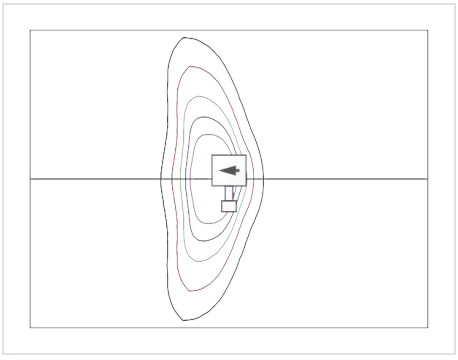
Thirteen distributions cover the water, the hull, and the deck — from a 10° flood for distance to a Type V square wide for work areas. Spill-control variants hold light off the wheelhouse and the neighboring water.



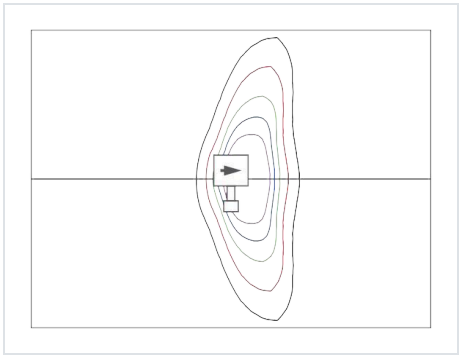
Available distributions — Type III Short through Type V Square Wide, with 10°, 20°, 40°, 60°, and 90° floods.

OPTIC ORIENTATION

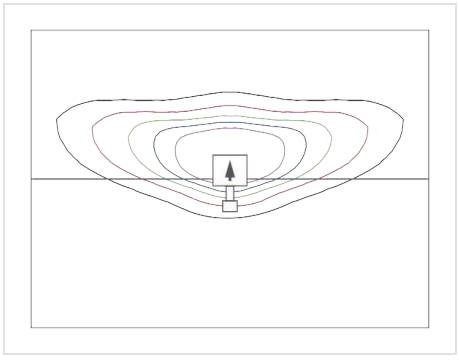
Optics rotate left or right at 90°, so a fixture mounted on either side of the vessel throws light where the duty requires.



Optics rotated left @ 90°



Optics rotated right @ 90°



Standard orientation

A lighting engineer will run a photometric study for your vessel or platform and confirm the optic before you order. Call 800-468-9925.

ORDERING INFORMATION

Configured to the Deck and the Duty

Specify one selection from each column. A lighting specialist will confirm the build before the order is released.

MODEL	VOLTAGE	MOUNTING	OPTIC	CCT	COLOR FINISH	OPTIONS
AF88XPAC40	100-277V	L Mount (slipfitter)	T2S	2200K	Black	1-10V dimming
AF88XPAC80	277-480V	T Mount (fixed arm)	T3S	3000K	Bronze	Vandal-resistant screws
AF88XPAC120		U Mount (bracket)	T3M	4000K	Gray	Power cords
AF88XPAC160			T5M	5000K	White	Safety cables
AF88XPAC200			T4M	5700K	Green	Microwave motion sensor
AF88XPAC240			T4S		Custom RAL	Photocell
AF88XPAC320			T4VS			Backlight shield
AF88XPAD60			T4VVSB			Bird spikes
AF88XPAD120			T10D			Emergency power supply
AF88XPAD180			T20D			
AF88XPAD240			T40D			
AF88XPAD300			T60D			
AF88XPAD360			T90D			
AF88XPAD480						
AF88XPBD720						
AF88XPBD960						
AF88XPBE960						
AF88XPBE1440						

Example: AF88XPAD240 · 100-277V · U Mount · T4S · 5000K · Black · 1-10V dimming.

1. SPECIFY THE BUILD

One selection from each of the seven columns above.

2. CONFIRM THE OPTIC

A lighting engineer runs the photometric study for the vessel or platform.

3. RELEASE THE ORDER

A lighting specialist verifies model, mount, and finish before production.

Model Data

Figures below apply to both the 100-277V and 277-480V builds. Metric dimensions, packing sizes, and gross weights are on the full data sheet.

Model	Nominal power	LED current	Modules	Module power	Product size L×W×H (in)	Net weight	Typical flux (lm)	Typical efficiency (lm/W)
AF88XPAC40L	40W	700mA	1	40W	17.91 × 13.15 × 2.95	5.2 kg	6,080	152
AF88XPAC80L	80W	700mA	2	40W	20.35 × 13.15 × 2.95	6.1 kg	12,160	152
AF88XPAC120L	120W	700mA	3	40W	22.83 × 13.15 × 2.95	7.0 kg	18,360	153
AF88XPAC160L	160W	700mA	4	40W	25.28 × 13.15 × 2.95	7.6 kg	24,960	156
AF88XPAC200L	200W	700mA	5	40W	27.76 × 13.15 × 2.95	8.5 kg	30,800	154
AF88XPAC240L	240W	700mA	6	40W	30.20 × 13.15 × 2.95	9.2 kg	36,960	154
AF88XPAC320L	320W	700mA	8	40W	35.12 × 13.15 × 2.95	11.1 kg	49,920	156
AF88XPAD60L	60W	1050mA	1	60W	17.91 × 13.15 × 2.95	5.3 kg	8,340	139
AF88XPAD120L	120W	1050mA	2	60W	20.35 × 13.15 × 2.95	6.2 kg	16,560	138
AF88XPAD180L	180W	1050mA	3	60W	22.83 × 13.15 × 2.95	7.2 kg	25,200	140
AF88XPAD240L	240W	1050mA	4	60W	25.38 × 13.15 × 2.95	7.8 kg	34,080	142
AF88XPAD300L	300W	1050mA	5	60W	27.76 × 13.15 × 2.95	9.2 kg	42,600	142
AF88XPAD360L	360W	1050mA	6	60W	30.20 × 13.15 × 2.95	9.9 kg	50,040	139
AF88XPAD480L	480W	1050mA	8	60W	35.12 × 13.15 × 2.95	11.4 kg	67,200	140
AF88XPBD720L	720W	1050mA	6	120W	30.20 × 23.94 × 2.95	15.7 kg	100,080	139
AF88XPBD960L	960W	1050mA	8	120W	35.12 × 23.94 × 2.95	17.7 kg	133,440	139
AF88XPBE960L	960W	1400mA	6	160W	27.76 × 23.94 × 2.95	14.5 kg	122,880	128
AF88XPBE1440	1440W	1400mA	9	160W	37.60 × 23.94 × 2.95	19.7 kg	184,320	128

Packing dimensions and gross weights are on the full data sheet. Call 800-468-9925 for model data on any configuration.

Effective Projected Area by Mount and Tilt

EPA in square feet, by wattage band and tilt angle. Low EPA reduces drag on the vessel and structural load on the mount.

SLIPFITTER MOUNT (L)



	0° Tilt	10° Tilt	20° Tilt	30° Tilt	45° Tilt	60° Tilt	70° Tilt	80° Tilt	90° Tilt
40-60W	0.36	0.44	0.50	0.58	0.66	0.73	0.81	0.87	0.95
80-120W	0.41	0.51	0.60	0.70	0.80	0.89	0.99	1.08	1.18
120-180W	0.46	0.58	0.70	0.82	0.94	1.05	1.17	1.29	1.41
160-240W	0.51	0.65	0.79	0.93	1.07	1.21	1.35	1.49	1.63
200-300W	0.56	0.72	0.89	1.05	1.21	1.37	1.54	1.70	1.86
240-360W	0.60	0.79	0.97	1.16	1.34	1.53	1.71	1.90	2.08
320-480W	0.70	0.93	1.16	1.39	1.62	1.84	2.07	2.30	2.53
720W	0.65	1.03	1.41	1.79	2.17	2.54	2.92	3.30	3.68
960W	0.74	1.22	1.70	2.17	2.65	3.13	3.61	4.08	4.56

ARM MOUNT (T)



40-60W	80-120W	120-180W	160-240W	200-300W	240-360W	320-480W	720W	960W
0.32	0.36	0.41	0.45	0.50	0.55	0.65	0.60	0.69

U-Bracket Mount

The U-bracket carries the full wattage range, from 40W to 1,440W, at tilt angles from 0° to 90°.

U-BRACKET MOUNT (U)



	0° Tilt	10° Tilt	20° Tilt	30° Tilt	45° Tilt	60° Tilt	70° Tilt	80° Tilt	90° Tilt
40-60W	0.36	0.44	0.50	0.58	0.66	0.73	0.81	0.87	0.95
80-120W	0.42	0.51	0.60	0.68	0.77	0.86	0.95	1.03	1.12
120-180W	0.46	0.57	0.68	0.79	0.91	1.02	1.13	1.24	1.35
160-240W	0.50	0.63	0.77	0.90	1.04	1.17	1.30	1.44	1.57
200-300W	0.55	0.71	0.86	1.02	1.18	1.33	1.49	1.64	1.80
240-360W	0.59	0.77	0.95	1.13	1.31	1.48	1.66	1.84	2.02
320-480W	0.68	0.90	1.13	1.35	1.58	1.80	2.02	2.25	2.47
720-960W	0.74	1.11	1.48	1.85	2.22	2.59	2.96	3.33	3.70
960W	0.82	1.28	1.75	2.21	2.67	3.13	3.60	4.06	4.52
1440W	0.86	1.32	1.79	2.36	2.82	3.38	3.86	4.46	4.80
1920W	0.96	1.52	2.20	3.48	4.11	4.70	5.34	5.34	6.02
2400W	1.04	1.65	2.38	3.77	4.45	5.10	5.78	5.78	6.52

READING THE TABLES

Values are effective projected area in square feet for a single luminaire. Use the tilt angle the mount will actually be set to, and confirm the total EPA of the installation with a lighting specialist before ordering mounts or brackets.

U Mount

Bracket mount. Carries 40W through 1,440W at 0° to 90° tilt.

L Mount

Slipfitter mount. Listed through 960W at 0° to 90° tilt.

T Mount

Fixed arm mount. Listed through 960W, EPA 0.32 to 0.69 sq ft.

Specify Marine-Grade Lighting That Comes Home Intact

Whether you are replacing failing fixtures or specifying a new vessel or platform, a lighting specialist will match the AFFO flanking light, optics, and mounting to your deck and duty.

Replacing Failing Fixtures

- IP66 rated, with air-tightness tested at 30KPa.
- Corrosion-resistant finish endurance tested to 5,000 hours of ASTM B117 salt fog.
- EXTREME-LIFE 200,000-hour L70 with a 10-year warranty option.

Specifying a New Build

- Choose CCT, optic, and mount to the deck and the duty.
- Low-EPA aerodynamic profile lowers drag and cuts fuel use.
- 10KA or 20KA surge protection across 100-277V and 277-480V.

1,440W
MAXIMUM OUTPUT

160 lm/W
UP TO, TYPICAL EFFICIENCY

200,000 h
L70 PROJECTED LIFE

Call a lighting specialist at 800-468-9925 to match the AFFO flanking light, optics, and mounting to your vessel.