

LED FLANKING LIGHTS

High-Performance Marine-Grade Lighting



Access Fixtures flanking light in operation at sea.

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.

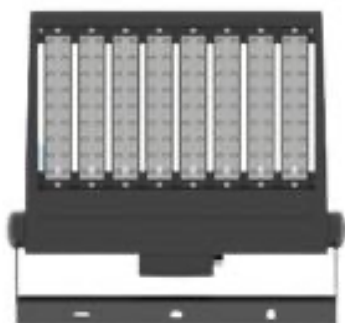
3

WORK AREA

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

MOUNTING OPTIONS

Every mount to place light precisely where the vessel needs it — secure and directed.



U Mounting
Bracket Mount



L Mounting
Slipfitter Mount



J Mounting
Mast Mount

KEY FEATURES & TECHNICAL DETAILS

Engineered to Outlast the Ocean

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

10-YEAR WARRANTY

5 yr standard / 10 yr option

Advanced electrical design prevents total fixture failure.

WATTAGE

10W – 2,400W

Output range to serve any marine application.

INGRESS PROTECTION

IP66 rated

IP68 air-tightness verified 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.

MOUNTING

U / L / J

Bracket, slipfitter, or mast — secure, directed light.

LOW EPA

Reduced drag

Aerodynamic open architecture lowers surface area and cuts fuel use.

CORROSION PREVENTION

5,000-hr salt spray

Akzo Nobel powder coat endures ASTM B117-2018 for coastal service.

VIBRATION

3G rated

Meets ANSI C136.31-2018 for high-vibration environments.

EXTREME-LIFE

200,000 hrs L70

Projected to hold at least 70% of initial brightness at 200,000 hours.

OPTICS

T1S – T90D

A large optic set to place light precisely; rotatable left or right.

OPERATING TEMP

-40°C to +50°C

(-40°F to +122°F) service range.

POWER-GRID PROTECTION

10KA surge

Operates across 100–277VAC on unstable grids.

CERTIFICATIONS

Proven by Test, Not by Claim

The flanking light is qualified against recognized standards. The conditions and results below are the published test record.

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.

FEATURES & OPTIONS

Configured to Your Application and Vessel

Specify color temperature, optics, mounting, and controls to match the deck, the duty, and the environment.

- **CCT:** 2200K, 3000K, 4000K, 5000K, 5700K, 590nm Amber, Red
- **Mounting:** Bracket, Slipfitter, or Mast mount
- **Dimming:** 1-10V
- **Optics:** T1S, T2S, T3S, T3M, T4S, T4M, T5M, T5W, T10D, T20D, T40D, T60D, T90D and more
- **Voltage:** 120-277V or 347-480V
- **Controls:** Photocell; optics rotated left/right; remote driver
- **Power:** Emergency Power Supply
- **Security:** Vandal-resistant screws; bird spikes
- **CRI:** Ra70+, Ra80+, or Ra90+



Flanking light installed on a working vessel.

OCTA

OCTA — Low-Profile Flood



Performance Summary

Input Voltage	100-277VAC or 277-480VAC, 50/60Hz
Nominal Power	40W–960W
Efficiency	Up to 160 lm/W
CRI	Ra>70 (Default) / Ra>80 / Ra>90
Power Factor	>0.9 at full load
Total Harmonic Distortion	<20% at full load
Surge Protection Device	Imax 10KA
Optic (IESNA)	Type I, Type V
Operating Temperature	-40°C to +50°C (high ambient up to 80°C is customizable)
Accessories & Options	0-10V Dimming, 1-10V Dimming, DALI, DMX, Motion Sensor, Emergency Power Supply, Photocell MINI, Back Light Shield, ECR
Color Options	Black, Gray
L70B10 / L90B10	>200,000H / >60,000H
Warranty	10 years

Ordering Information

MODEL	INPUT VOLTAGE	MOUNTING	OPTIC	CCT	COLOR	OPTIONS
AFF88XBAD10	L (100-277VAC)	U	T1S	30K / 3000K	BK (Black-RAL9011)	DIMO (0-10V Dimming)
AFF88XBAD20	H (277-480VAC)	J	T5M	40K / 4000K	GY (Gray-RAL7004)	DIM1 (1-10V Dimming)
AFF88XBAD30		L	T5W	50K / 5000K		DALI (DALI Control)
AFF88XBAD40			T10D	57K / 5700K		DMX (DMX Control)
AFF88XBAD60			T20D			MMS (Motion Sensor)
AFF88XBAD80			T40D			EPS (Emergency Power Supply)
AFF88XBAD120			T40DH			PCM (Photocell MINI)
AFF88XBAD160			T60D			
AFF88XBAD180			T60DH			
AFF88XBAD240			T90D			
AFF88XBAD300						
AFF88XBAD320						
AFF88XBAD360						
AFF88XBAD480						
AFF88XBBD720						
AFF88XBBD960						



AFFO — Marine Grade Area/Flood Light

Performance Summary

Input Voltage	100-277VAC or 277-480VAC, 50/60Hz
Nominal Power	80W–1400W
Efficiency	Up to 160 lm/W
CRI	Ra>70 (Default) / Ra>80 / Ra>90
Power Factor	>0.9 at full load
Total Harmonic Distortion	<20% at full load
Surge Protection Device	I _{max} 10KA
Optic (IESNA)	Type II, Type III, Type IV, Type V
Operating Temperature	-40°C to +50°C (high ambient up to 80°C is customizable)
Accessories & Options	0-10V Dimming, 1-10V Dimming, WDS, DALI, DMX, Motion Sensor, Nema, Zhaga, Back Light Shield, Spill Control, Bird Spike, ECR
Color Options	Black, Gray
L70B10 / L90B10	>200,000H / >60,000H
Warranty	10 years

Ordering Information

MODEL	INPUT VOLTAGE	MOUNTING	OPTIC	CCT	COLOR	OPTIONS
AFF88XPAD40	L (100-277VAC)	U	T2S	27K / 2700K	BK (Black-RAL9011)	SP (Surge Protection)
AFF88XPAD80	H (277-480VAC)	J	T3S	30K / 3000K	GY (Gray-RAL7004)	DIM1 (1-10V Dimming)
AFF88XPAD120		L	T3M	40K / 4000K	BZ (Bronze-RAL8019)	DALI (DALI Control)
AFF88XPAD160			T4VS	50K / 5000K	WH (White-RAL)	DMX (DMX Control)
AFF88XPAD200			T4VVS	57K / 5700K		BSP (Bird Spikes)
AFF88XPAD240			T4S			EPS (Emergency Power Supply)
AFF88XPAD300			T4M			PCM (Photocell MINI)
AFF88XPAD320			T5M			
AFF88XPAD360			T5W			
AFF88XPAD480			T10D			
AFF88XPBD720			T20D			
AFF88XPBD960			T40D			
AFF88XPBE1440			T60D			
AFF88XPBE1920			T40DH			
AFF88XPBE2400			T60DH			
			T90D			

CASE STUDY | 8-MONTH OCEAN TEST

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 Akzo Nobel powder coat anti-corrosion 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

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 flanking light, optics, and mounting to your deck and duty.

Replacing Failing Fixtures

- IP66 rated, with IP68 air-tightness verified at 30KPa.
- Akzo Nobel finish tested beyond 5,000 hours of salt spray.
- EXTREME-LIFE 200,000-hour L70 and a 10-year warranty option.

Specifying a New Build

- Choose CCT, optics, and mounting to the deck and duty.
- Low-EPA design lowers drag and cuts fuel use.
- 10KA surge protection across 100–277VAC on unstable grids.

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

