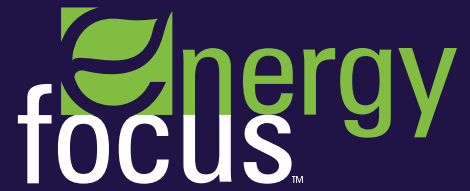


# LED BERTH FIXTURE



MIL-DTL-16377/17 for Navy Standard Symbol Number 229.1, 231.1 & 232.1



*The LED Company with a Brighter Vision*

# LED Berth Fixture

For Navy Standard Symbol #229.1, 231.1 & 232.1

**The Energy Focus brand LED Berth Fixture consumes 50% less power than of legacy Berth Lights and has a lifespan of 50,000 hours until it reaches 70% of its original lumen performance. After installation, there will be no need to revisit this fixture for maintenance for another ten years. Changing bulbs is not necessary, requiring even less maintenance and provides for more storage space.**

## LED TECHNOLOGY SURPASSES FLUORESCENT IN MULTIPLE AREAS:

- More reliable
- Lower power consumption
- Significantly longer lifespan
- Safer, containing no mercury
- No fluorescent buzzing or flickering
- Low maintenance costs
- Rapid return on investment



In the last half century, the Navy has made great strides in the development and implementation of the most modern technology. One aspect that has fallen behind is shipboard lighting. The majority of the US Navy's shipboard lighting is outdated fluorescent technology. Upgrading to modern sophisticated LED technology is pivotal as the US Navy moves forward.

## THE LED BERTH FIXTURE IS AVAILABLE IN THREE OUTLET OPTIONS:

- Traditional outlet (able to power a wide variety of items)
- USB outlet (able to power more specific items such as cellular telephones and tablets)
- No outlet (the fixture is used for illumination alone)

The Energy Focus brand LED Berth Fixture offers higher sophistication, reliability and variety, making this fixture a crucial replacement for outdated fluorescent technology.

Energy Focus solutions provide energy savings, aesthetics, safety and maintenance cost benefits over conventional lighting. Energy Focus' long-standing relationship with the U.S. Government includes numerous research and development projects for the DOE and DARPA, creating energy efficient LED lighting systems for the U.S. Navy fleet. This LED Berth Fixture is also "Buy American Act" and "Trade Agreements Act" compliant, as it is proudly made in the USA.



NSN#  
6210-01-603-8568

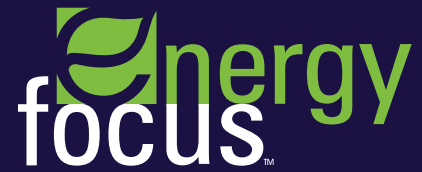
NSN #  
6210-01-617-1310  
with USB



**TOMORROW'S LIGHT IS HERE TODAY.**

# LED Berth Fixture

For Navy Standard Symbol #229.1, 231.1 & 232.1



**MIL-DTL-16377/17**

**For Navy Standard Symbol # 229.1, 231.1 & 232.1**

**NSN#:** 6210-01-603-8568; 6210-01-617-1310 (without receptacle)

**FUNCTION:** United States Navy

**APPLICATION:** Berth Light

## Features



The Energy Focus brand EFO-X003 fixture is a Form, Fit and Function replacement for SYM #'s 229.1, 231.1 & 232.1 applied to legacy MIL-DTL-16377/17 fixtures.

- Choice of traditional, USB or no outlet
- Does not require a starter
- No buzzing sounds

### US PATENTS

7,549,783 B2    7,374,313 B2    7,330,632 B1  
7,194,184 B2    6,526,213 B1

## Specifications

<b>LUMEN OUTPUT</b> .....	198
<b>WATTAGE</b> .....	5.5 W
<b>EFFICACY</b> .....	35.6 lp/W
<b>CRI</b> .....	80
<b>CCT</b> .....	3908 K
<b>PEAK FOOTCANDLES</b> .....	128
<b>LAMP LIFE</b> .....	50,000 hours to 70% Lumen Maintenance
<b>INPUT VOLTAGE</b> .....	120 Volts, 60 Hz
<b>CHASSIS</b> .....	Die cast aluminum for thermal management
<b>LENS</b> .....	No Lens
<b>WEIGHT</b> .....	3 lbs. 13 oz. (without cord)
<b>WIRING</b> .....	10' 16/5 power cord
<b>FASTENERS</b> .....	Stainless steel or steel
<b>FINISH</b> .....	TGIC thermoset polyester powder coat paint
<b>LED/BALLAST FIELD</b> .....	Replaceable
<b>LED ARRAY FIELD</b> .....	Replaceable
<b>DRIVER</b> .....	Constant current electronic driver
<b>OPERATING RANGE</b> .....	-40c to 50c
<b>OPTICAL SYSTEM</b> .....	Proprietary Optical
<b>MIL QUALIFICATION</b> .....	Passed

DESCRIPTION	EFO SKU	NSN#	TO ORDER
Rail Mount	EFO-X003-229.1-01		
Spring Mount	EFO-X003-231.1-01		
Pan, Bulkhead or Bar Mount	EFO-X003-232.1-01	6210-01-603-8568	440.715.1300 navy@efoi.com
Pan (wired for remote fan, without power cord)	EFO-X003-232.1-F		
Pan (without power cord)	EFO-X003-232.1-NC		
Pan Mount with USB Outlet, 3 Wire - No Cable	EFO-X003-232.1-USB3	6210-01-617-1310	
Pan Mount with USB Outlet, 5 Wire - No Cable	EFO-X003-232.1-USB5		

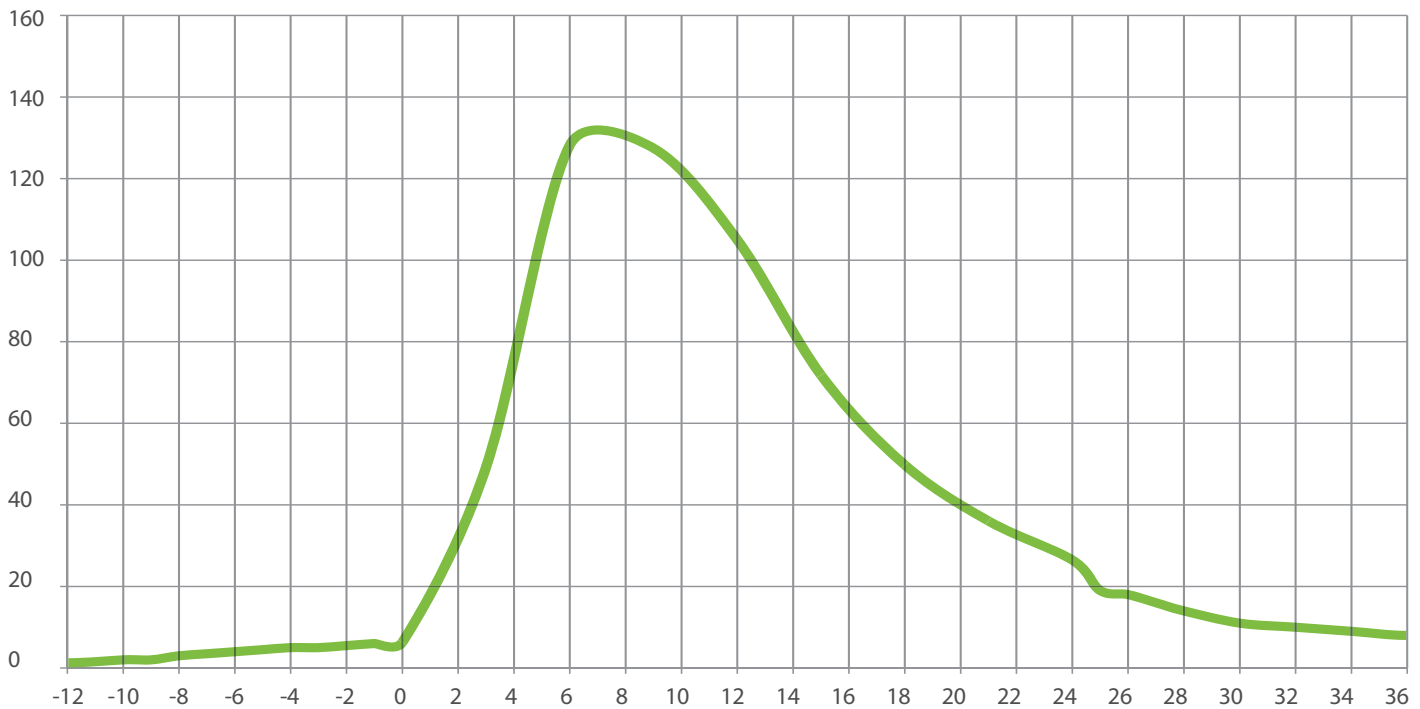


# LED Berth Fixture, 5.5 Watt Reference/Replacement Guide

EFO-X003 • Replaceable for the following part #'s, SYM #'s & NSN's:

SYM	DESCRIPTION
229.1-01	Rail Mount
231.1-01	Spring Mount
232.1-01	Pan, Bulkhead or Bar Mount
232.1-F	Pan Mount (no power cord – wired for remote fan)
232.1-NC	Pan Mount (no power cord)
232.1-USB3	Pan Mount with USB Outlet, 3 Wire - No Cable
232.1-USB5	Pan Mount with USB Outlet, 5 Wire - No Cable

## EFO-X003-231.1-01 (Berth Light) EFOI Data



## LTL Report #19624

CURRENT	WATTS	LUMENS	LPW	CCT	X	Y	U	V
0.0471A	5.569W	198	35.6	3908	0.3858	0.3841	0.2257	0.337