

**DayOne**  
LIGHTING

Xeleum



LED Wall Mounted Stairwell Fixtures  
*Athena Series*



The **Athena Series (XASW02) LED Wall Mounted Stairwell fixture** is specifically designed for use in stairwells where the space is often unoccupied for long periods of time. It reduces energy usage by up to 80% by automatically providing fully ON light levels only when the space is occupied and returns to power saving dim levels when the space is unoccupied. An intelligent wireless RF system links multiple fixtures and, together with a built-in occupancy sensor, automatically tracks occupancy so that the lights are at full brightness at the floors above, below and directly at the occupied location, irrespective of the occupant's direction of travel. These fixtures function equally well in hallways, bathrooms, laundry rooms, or any area that is frequently unoccupied.

## SPECIFICATIONS

### MODEL: XASW02

- Input Power: 7 W (Un-occupied), 29 W (Occupied)
- Output Lumens: 500 lm (Un-occupied), 3,017 lm (Occupied)
- Power Factor: > 0.92 (worst case at 277V)
- CCT: 4960° K
- CRI: > 82
- Efficacy: > 103 LPW
- AC Input: 100 - 277 Vac (50 - 60Hz)
- Bi-Color Red/Green LEDs for Reporting of System Status and Self Diagnostic Test Results
- Microprocessor Based battery Management (AC Fault Detection/Battery Charging)
- Built-in Circuitry Monitors Battery Level and Automatically Recharges Battery as Needed
- UL 924 Rated - EMERGENCY LIGHTING AND POWER EQUIPMENT
- NFPA 101 Compliant for New and Existing (retrofit) Stairwells
- FCC Certified (RF Transmitter & EMC)



Stairwell Number



Floor Number

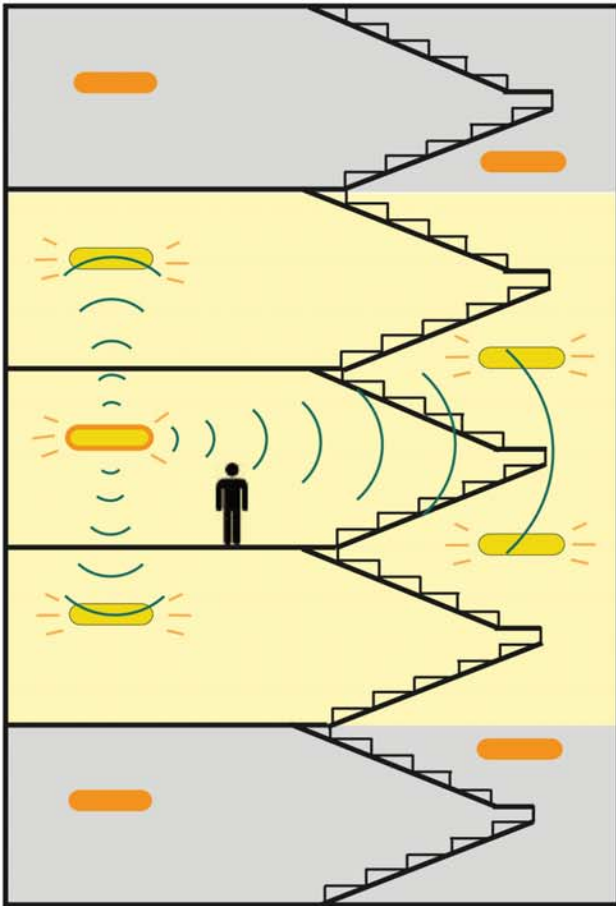
Each fixture is equipped with three screw driver-set rotary switches for simple, on-site set-up of light groups that are wirelessly connected via RF transmission

The Department of Energy has ruled that in order to be compliant with ASHRAE 90.1-2010 Section 9.4.1.6(g), effective October 10, 2013, lighting in stairwells must have one or more controls to automatically reduce lighting power by a minimum of 50% within 30 minutes of all occupants having left a controlled area.

MODEL	XASW02
FIXTURE LENGTH	2' (26 1/4")
FIXTURE WEIGHT	3.9 lbs.
PACKAGED DIMENSIONS	32 1/2" X 5 3/4" X 5 1/2"
PACKAGED WEIGHTS	4.2 lbs.







## FEATURES

- Up to 80% savings of lighting energy cost over conventional fixtures without LEDs and occupancy sensors
- LEDs provide years of maintenance-free operation without ever having to change a bulb
- Intelligent wireless RF system that links multiple fixtures to track occupancy eliminates the need for remote sensors and their associated wiring
- Occupancy tracking provides maximum security because each occupant is always surrounded by three floors of full power illumination
- Faster turn-on because occupancy sensor is integrated into each fixture rather than being remotely mounted
- Optional built-in battery backup operates for 90 minutes
- Vandal-resistant
- Utility rebates available in many areas.
- Also Available in a Ceiling Mount Version
- Complies with NYC LOCAL LAW 47 & ASHRAE 90.1-2010
- Charges Photoluminescent tape
- Optional wireless occupancy sensor available for spaces with complex or unusual shapes
- Fail Safe in accordance with NFPA 101 for new and existing stairwells when installed properly
- 10 Year Limited Warranty

## HOW IT OPERATES

When the stairwell is unoccupied, the XASW02 fixtures runs at a low pre-set level of 7 watts input power and 500 Lumens illumination. As soon as occupancy is sensed by any of the installed XASW02 fixtures, an RF signal is transmitted to the fixtures on the floors immediately above and below the floor on which the motion is sensed, as well as to fixtures on intermediate landings. These fixtures then all switch to full input power mode of 29 watts and 4,960 Lumens illumination. This same sequence takes place for occupants on multiple levels and thus assures that occupants will never be walking towards dark spaces. As occupants walks up or down the stairwell, the integral fixture sensors detect their motion and automatically send RF signals to the fixtures in each occupants' direction of travel, causing those fixtures to illuminate at full power. In this way all occupants are enveloped in curtains of full power illumination as they transit the stairwell. Once there are no longer occupants in the stairwell, the fixtures return to low power after a specified amount of time, which is configurable on-site from 15 seconds to 15 minutes.

## Part Numbering Information

Part Number	RF Comms	Motion Sensor	Battery Back-Up	Description
XASW02-M50KUE	X	X	X	Premier Fixture with all the Options.
XASW02-M50KUN	X	X		Premier Fixture without Battery Back-Up.
XBSW02-M50KUE		X	X	Basic Fixture with Motion and Battery Back-Up. No RF.
XBSW02-M50KUN		X		Basic Fixture with Motion. No RF.





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