



# FW4-LED41

## LED Vapourproof



### IDEAL APPLICATIONS

- Livestock Barns
- Agricultural Applications
- Underground Parking Garages
- Food Processing & Storage

### DESCRIPTION:

4' linear vapourproof fixture with NEMA 4X, NSF, IK10 ratings ideal for harsh environments including food processing and storage facilities, livestock barns, agricultural environments, underground parking garages, and more.

### FEATURES:

- 2 versions: Selectable units (120-347V, CCT Select 3000K, 4000K, 5000K) and dedicated units (120-277V, 4000K).
- Ruggedly designed with NEMA 4X, NSF, IK10 ratings. Refer to page 7 for a quick reference on these ratings.
- Polycarbonate housing with frosted lens.
- 5 polycarbonate clips on either side.
- Surface or pendant mount option.
- IP66 rated with complete gasketing to protect against dust and dirt and comes with wet location connector.
- Toolless entry for easy wiring and access to CCT select switch.
- Optional factory-installed smart lighting control available: Lutron Athena Wireless smart control allows zone and control changes digitally and wirelessly.

### 2 DIFFERENT VERSIONS:



#### Selectable Fixture

120-347V RANGE  
3K, 4K, 5K COLOUR SELECTABLE



#### Dedicated Fixture

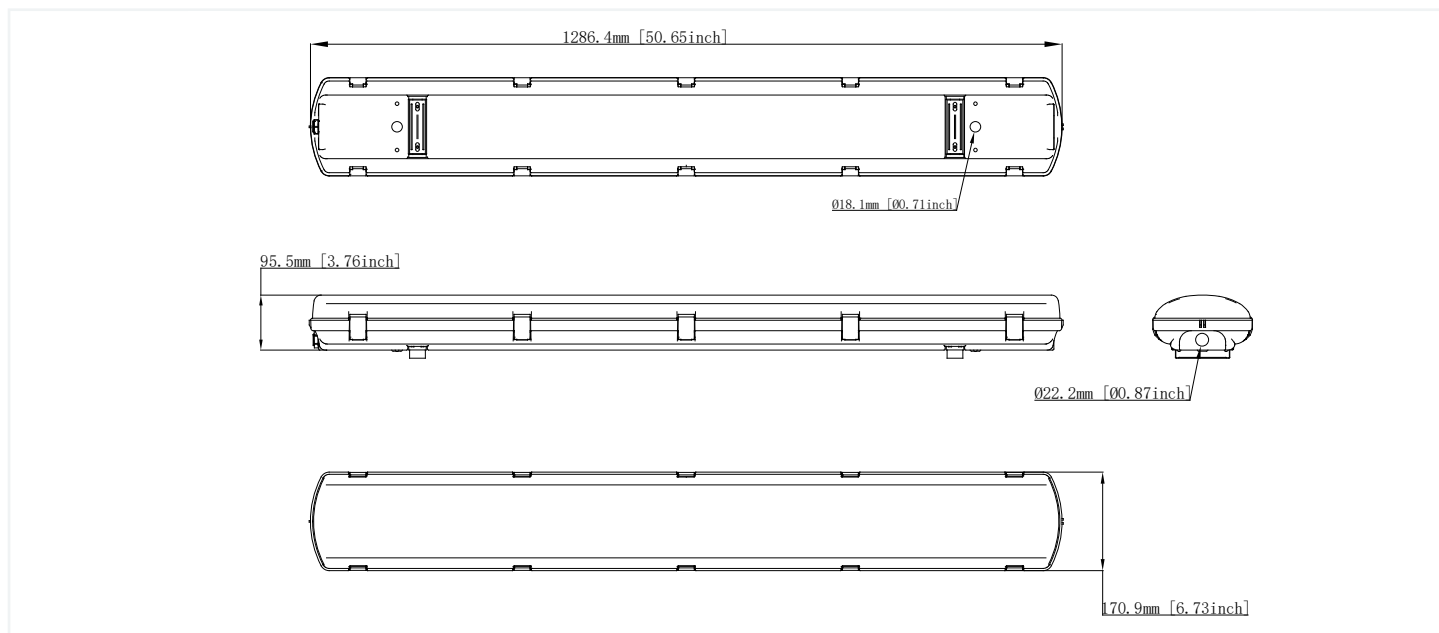
120-277V  
4K ONLY

SPECIFICATIONS*	FW4-LED41
Watts	41.9W
Lumens	5556 Lm
Efficacy	132.62 Lm/W
Replaces Up To	2 Lamp T8
Dimming	0-10V (Continuous dimming to 10% or below)
Colour Temp	Selectable Fixture: VK (3000K/4000K/5000K) Dedicated Fixture: 4000K
PF	0.97
THD	4.6%
CRI	83
Operating Temp	-40°C to +40°C With Battery Back Up: 10°C to +40°C
Voltage	Selectable Fixture: 120-347V Dedicated Fixture: 120-277V
LED Life (L73)	100,000 Hours
Housing Material	Polycarbonate Grey
Lens	Frosted Polycarbonate
Mounting	Surface or Pendant mounting
Certifications	cULus, Wet locations, IP66, NSF, NEMA4X, IK10, DLC Premium

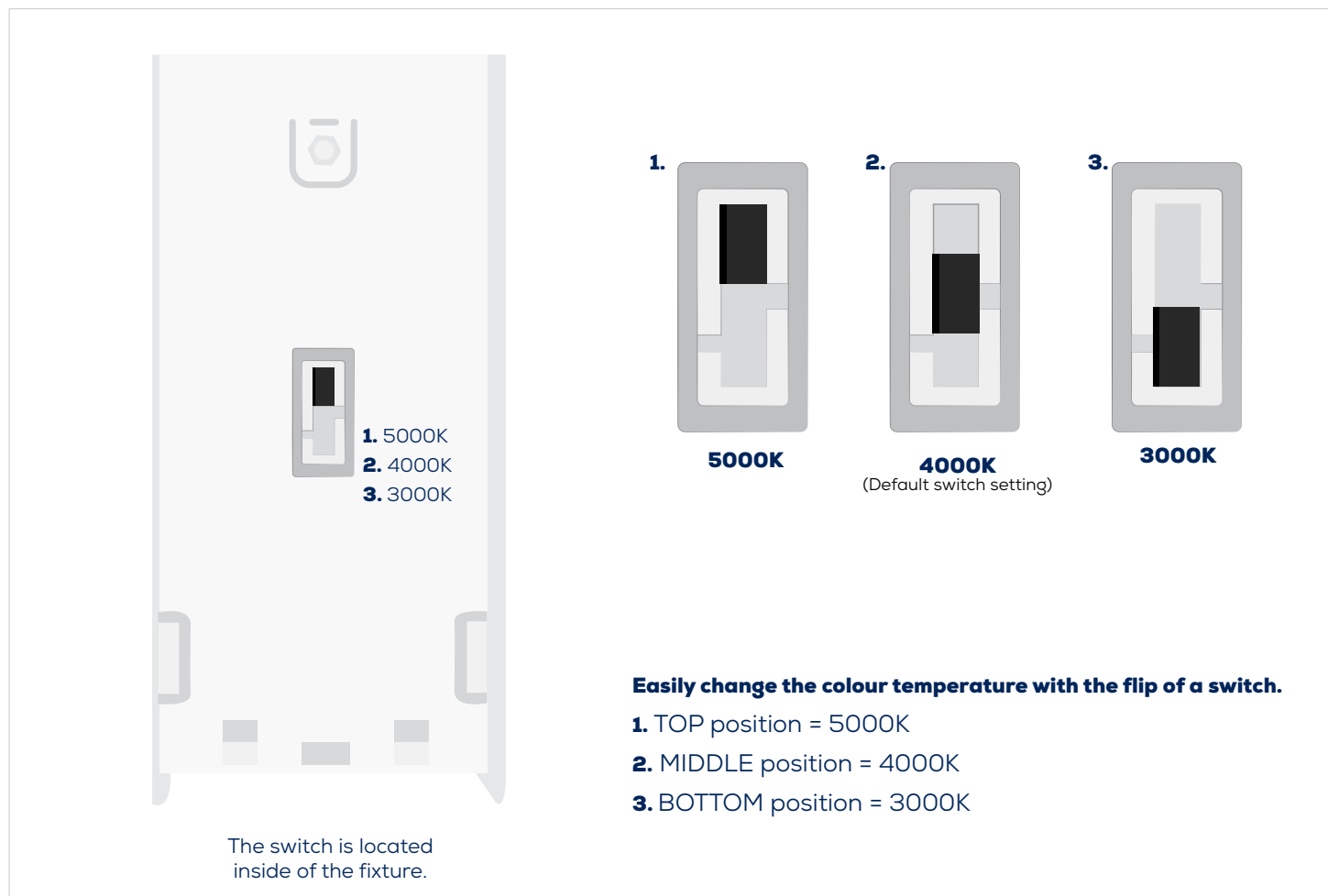
\* Specs shown are for 120V/ 4000K CCT setting



## DIMENSIONS:



## COLOUR SELECTABLE SWITCH



<b>AMPERAGE DRAW &amp; SURGE PROTECTION</b>								
	CURRENT (A)					INTERNAL SURGE PROTECTION (kV)		
	120V	208V	240V	277V	347V	120-277V	120-347V	
FW4-LED41	0.376	0.217	0.188	0.163	0.130	2kV	4kV	
<b>TM-21 ESTIMATED LUMEN MAINTENANCE</b>								
	50,000 Hours			75,000 Hours			100,000 Hours	
FW4-LED41	85.8%			79.0%			72.7%	
<b>WEIGHTS (lbs)</b>								
FW4-LED41	7.7							
<b>SPECIFICATIONS</b>								
Model Number	Voltage (V)	Power (W)	Light Output (lm)	Efficacy (lm/W)	THD (%)	PF	CCT (K)	CRI
FW4-LED41-H-VK-DIM(3000K)	120-347	41.5	4844	116.68	5.6	0.95	3000	83

**LEGEND**

H - 120-347V  
 VK - Colour Selectable  
 DIM - 0-10V Dimming

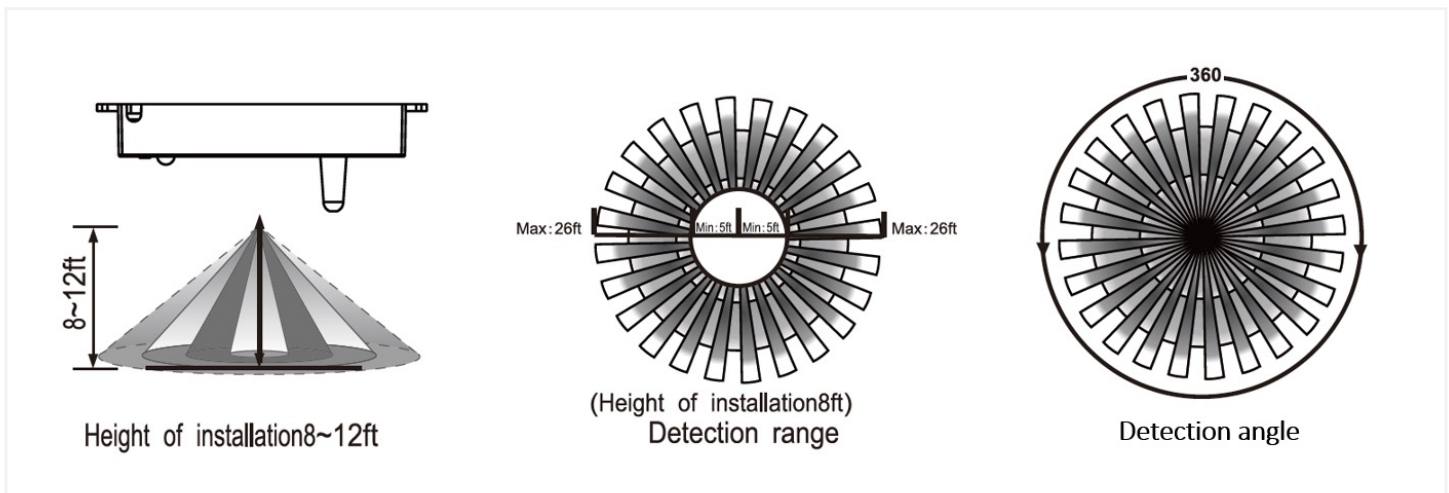
MOTION SENSOR SPECIFICATIONS	
<b>POWER SUPPLY</b>	12V-24VDC*
<b>HIGH FREQUENCY SYSTEM</b>	5.8GHZ +/-75MHZ (HIGH FREQUENCY MICROWAVE OUTPUT)
<b>DIM CONTROL OUTPUT</b>	0-10V, MAX. 25MA SINKING CURRENT
<b>DETECTION RADIUS/ANGLE</b>	MAX 8M (26FT) AT 360°
<b>MOUNTING HEIGHT</b>	MAX 3.6M (12FT)
<b>REMOTE CONTROL RANGE</b>	MAX 15M (50FT)
<b>HUMIDITY</b>	MAX 95% RELATIVE HUMIDITY
<b>OPERATING TEMP.</b>	-40°C TO 70°C (MOTION SENSOR) 0°C TO 50°C (REMOTE CONTROL)
<b>INSTALLATION</b>	FACTORY INSTALLED
<b>PROGRAMMING</b>	USING DIP SWITCHES ON SENSOR OR USING RC-100 REMOTE (SOLD SEPARATELY)

\*12VDC AUX AVAILABLE FROM THE LED DRIVER- CAN BE USED FOR MOTION SENSOR AND OTHER LIGHTING CONTROLS.

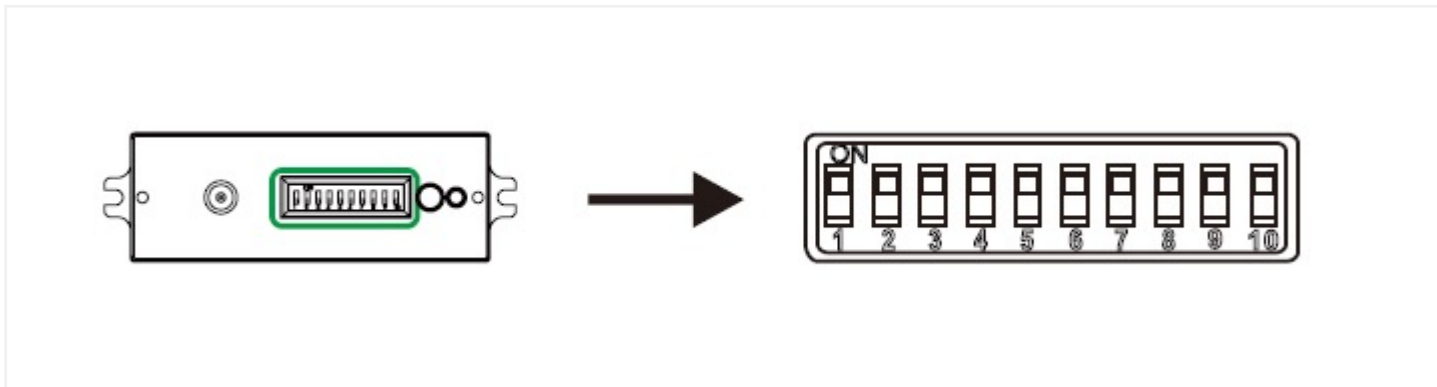
DEFAULT MOTION SENSOR SETTINGS					
BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT SENSOR	STAND-BY DIM	STAND-BY TIME
100%	100%	10 seconds	Disabled	DIM: 30%	60 minutes

ONCE POWERING THE LIGHT FIXTURE, THE MOTION SENSOR WILL USE THE FOLLOWING DEFAULT PARAMETERS TO OPERATE.

### MOTION SENSOR COVERAGE



## ADJUSTING MOTION SENSOR SETTINGS USING DIP SWITCHES



## ADJUSTING MOTION SENSOR SETTINGS USING RC-100 REMOTE

TECHNICAL SPECIFICATIONS	
	<p><b>BRIGHTNESS:</b> Sets the highest light fixture brightness when motion is detected.</p>
	<p><b>SENSITIVITY:</b> Sets the sensitivity to which the sensor will detect motion. It describes the radii of the circular detection zone.</p>
	<p><b>HOLD TIME:</b> The time the light fixture will remain at the brightness setting after it detects motion.</p>
	<p><b>DAYLIGHT SENSOR:</b> The lux setting that the light fixture will turn on/off. If the ambient lux is more than the defined lux setting, the fixture &amp; sensor function will turn off and remain off until the ambient lux is below the setting. To disable the lux sensor, select the SUN icon. To set the lux to match current room conditions, select the EYE icon.</p>
	<p><b>STAND-BY DIM:</b> The Dim level that the light fixture will dim down after the Hold Time has expired.</p> <p>To disable dimming and only have ON/OFF, select the 0% icon.</p>
	<p><b>STAND-BY TIME:</b> The time the light fixture will remain in the dim down state before it shuts off.</p> <p>To disable the light from shutting off, select the INFINITY icon.</p>
	<p><b>BRIGHTNESS:</b> 70% 80% 90% 100%</p>
	<p><b>SENSITIVITY:</b> 20% 50% 75% 100%</p>
	<p><b>HOLD TIME:</b> 10s 1m 5m 10m 15m 20m 30m 60m</p>
	<p><b>DAYLIGHT SENSOR:</b> SUN EYE 10 30 50 100 300 500</p>
<p><b>STAND-BY DIM:</b> 0% 10% 30% 50% +∞ 1m 30m 60m</p>	
<p>ON/OFF DISP ▲ SEND AUTO ◀ OK ▶ RESET TEST 2s ▼ ∞ MODE1 MODE2 MODE3 MODE4</p>	

NOTE: DETAILED PROGRAMMING INSTRUCTIONS AVAILABLE FOR DIP SWITCHES AND RC-100 REMOTE IN MOTION SENSOR & REMOTE CONTROL MANUAL.

## BATTERY BACK UP DETAILS

TECHNICAL SPECIFICATIONS	
<b>RATED INPUT VOLTAGE</b>	100-347 VAC, 50/60HZ
<b>INPUT CURRENT</b>	20-100mA
<b>INPUT POWER</b>	8W
<b>POWER FACTOR</b>	0.6 @ 100VAC, 0.5 @347 VAC
<b>OUTPUT POWER (EMERGENCY MODE)</b>	9W±10%, CONSTANT POWER
<b>OUTPUT WIRE L-out-N-out (LED LOAD INPUT)</b>	AC 6A MAX
<b>RECHARGE CURRENT</b>	0-200mA
<b>RECHARGE TIME</b>	24 HOURS
<b>DISCHARGE TIME</b>	90 MINUTES
<b>MAXIMUM CASE TEMPERATURE T<sub>c</sub></b>	70°C
<b>AMBIENT OPERATING TEMPERATURE T<sub>a</sub></b>	10-60°C

Note: Lumen output with emergency battery backup can be calculated by multiplying battery power output with efficacy of fixture.

## ORDERING GUIDE:

FW4	LED41	DIM						
Fixture	Wattage	Voltage	Colour Temp.	Dimming	Controls	Hardware Options	Battery Back Up	Misc.
	LED41	H - 120-347V	VK - Colour Selectable (3000K/4000K/5000K)	DIM - 0-10V Dimming	BLANK*	BLANK*	BLANK*	BLANK*
		B - 120-277V	4K - 4000K		DHFS - Dimming High Frequency Motion Sensor	SSC - Stainless Steel Clips	BBK8 - 8W Battery Back Up	SP10 - 10kV Surge Protector
					AWN - Lutron Smart Control**			

\* Standard Configuration

\*\*Factory installed Lutron Athena Wireless Node with RF only (A-WN-D01-RF-WH). Gateway and controller not included.

### ORDERING GUIDE FOR ACCESSORIES

#### Options Sold Separately

Check the items that you wish to order:

087016 - RC-100 MOTION SENSOR REMOTE CONTROL

### 2 DIFFERENT VERSIONS:



**Selectable Fixture**  
120-347V RANGE  
3K, 4K, 5K COLOUR SELECTABLE  
**ORDER CODE:** FW4-LED41-H-VK-DIM  
**STOCK CODE:** 099586

1



**Dedicated Fixture**  
120-277V  
4K ONLY  
**ORDER CODE:** FW4-LED41-B-4K-DIM  
**STOCK CODE:** 099592

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### RATINGS TABLE:

	NEMA 4X fixtures are for Indoor or outdoor use, including offshore applications. Offers protection against windblown dust and rain. Offers protection from splashing water and hose-directed water. Corrosion-resistant.
	NSF-approved lighting products must deliver light output (footcandle) levels that are adequate for food preparation and food storage areas. These products must be shatterproof to ensure that no broken glass splinters over food or other equipment. Fixtures must be easily accessible, resistant to the intrusion of dust, water and other hazards, and designed for easy cleaning to minimize the breeding of bacteria or mold.
	IK10 - IK Ratings are a measure of impact resistance. IK10 implies fixture is protected against the impact of 5kg dropped from 400mm (20 joules).