400W LED SHOEBOX LIGHT

Features

- Lumileds LED, high luminous efficiency and long working life.
- High efficiency LED Driver, the wide range input voltage AC120-277V/AC277-480V.
- Die Cast aluminum cooling design,high quality and better cooling for LED Tj < 85℃
- Excellent Optics design greatly improve the light utilization and evenness.
- Photocell and Motion Sensor Control Available (Option).

Product Applications

WSD LED LED SHOEBOX LIGHT series can be widely used in outdoor lighting(Wet location) ,Excellent for Museums, Art Galleries, Underground parking lot, Buildings,The lawn, Industrial areas, Residential areas, Sidewalks, Parking lot, Schools and etc,and many more applications.

LUMILEDS The Brighter Choice

c UL us LISTED E354939

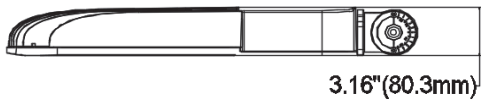
DLC PREMIUM

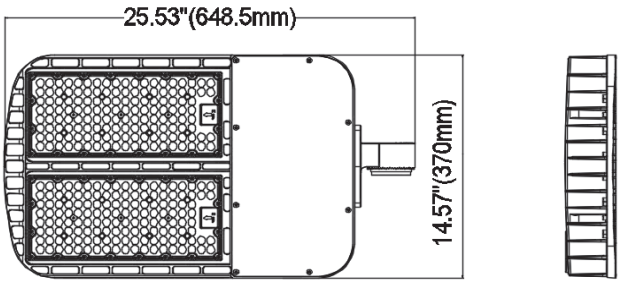
5 YEAR LIMITED WARRANTY

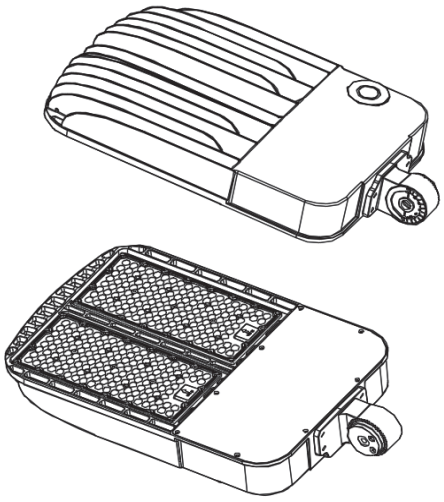
FC CE RoHS WET LOCATION

Specifications

Unit : inch(mm)







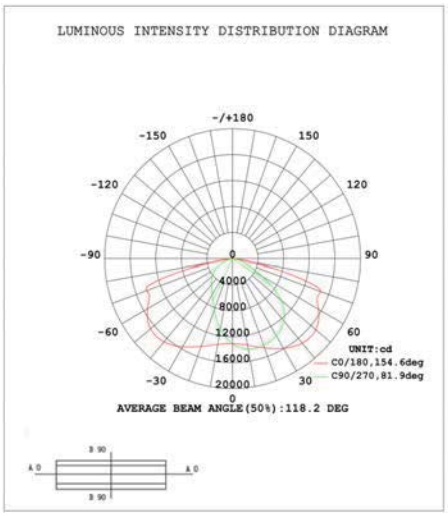
Structure Features

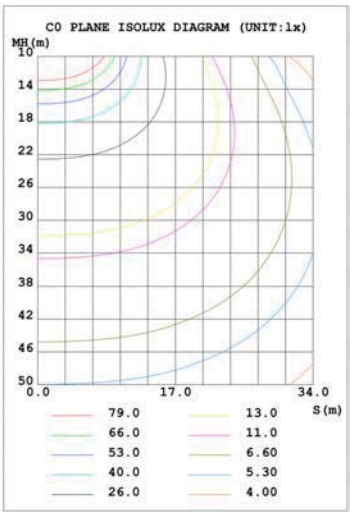
- Shell materials: Aluminum & PC.
- Finish: Dark Bronze/White
- Net weight : 9.72Kg (21.4 lbs)
- Product Size:648mm*370mm*80.3mm
- Carton Size:730mm*440mm*155mm

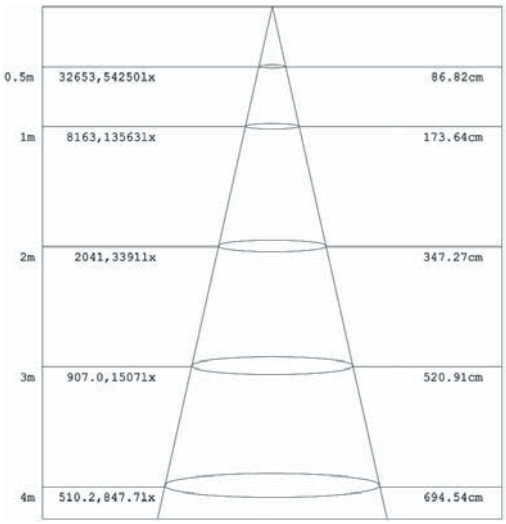
Technical Parameters

WSD-SB40W27-XXK-Z-TN-U-Y-E			
Power	400W	Lighting Angle	Type II, III, IV,V
Input Voltage	AC120-277V/AC277-480V	LED Brightness Decay	<5%/6000 hrs
PF	>0.95	Working Life	>50000 hrs
Driver Efficiency	>90%	Working Temperature	-30 - +45℃
Luminous Flux	56783 Lm	Storage Temperature	-40 -+80℃
Color Temperature	4000K/5000K	Protection Level	Wet Location/IP66
CRI	Ra>70	Cable	3 core , 18AWG 0.5m
Optional dimming function	1-10Vdc	EPA	3.1FT^2

PHOTOMETRY





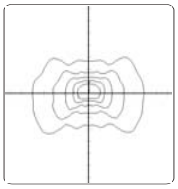


Example: WSD-SB40W27-XXK-Z[D,W,B,S]-TN[T2,T3,T4,T5]-U[S,A,T]-Y[Blank,P]-E[Blank,M]

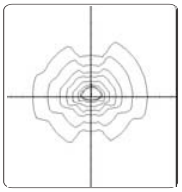
WSD	SB	40W	27	XXK	Z	TN	U	Y	E
Company	Product	Power	Voltage	Color Temp	Finish	Light Angle	Mounting Mean	Control	Control
	SB	40W(400W)	27	40K(4000K)	D(Dark Bronze)	T2(Type II)	S(slip fitter)	P	M
WSD LED INC	SHOEBOX		AC120-277V	50K(5000K)	W(White)	T3(Type III)	A(Arm)	Photocell	Motion sensor
			48	±500K	B(Black)	T4(Type IV)	T(Trunnion)		
			AC277-480V		S(Silvery)	T5(Type V)			

PHOTOMETRICS

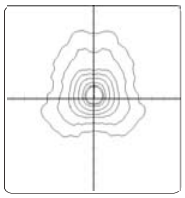
Type 2:
Type 2 optics produce a symmetrical pattern that evenly shines light on both sides of the lamp. In a back-to-back configuration, it creates a rectangular pattern.



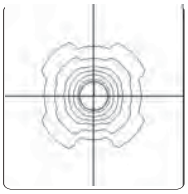
Type 3:
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern.



Type 4:
Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.



Type 5:
Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires are universal for most area lighting applications.



PHOTOCELL & MOTION SENSORS

Photocell
No. LC-10DT
Finish: Blue
USE: Used for indoor or outdoor LED lamps, working with light sensing principle , the LC-10DT sensor (LC-10DT for 120-277V) is used for Light sensor.

SPECIFICATIONS AND CHARACTERISTICS:
- UL Listed. Reference No.: E178670 Volts & Cover Color
- Blue standard for 120-277VAC
- Turn-ON Light Level: 10-16 Lux
- Turn ON/OFF Ratio: 1:3 to 4
- Time Delay: 3-15 sec
- Operating Temperature: -40℃ to +70℃
- Relay: 15A
- MOV Surge Protection: 90J, 160J, 320J, 360J (4 options)
- Energy Consumption: Less than 1Watt (120V<0.5W)
- Electrical Life: >5000 cycles
- Sensor Type: Silicon Photocell
- Housing: UV stabilized PC
- Failure Mode: Fail ON (standard), Fail OFF (for your option)

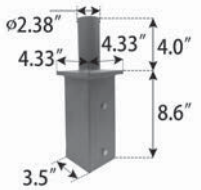
Motion Sensor
No. BRI816-B-D
Finish: White
USE: The BRI816-B-D mounts in an outdoor lighting fixture and provides multi-level control based on motion. The sensor also includes a photocell to measure the ambient light level. It controls 0-10 VDC LED drivers, is rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.

Motion Sensor
No. BRI816-B-D
Finish: White
The BRI816-B-D mounts in an outdoor lighting fixture and provides multi-level control based onmotion and/or daylight contribution. It controls
O-10 VDC LED drivers or dimming ballasts,and is rated for wet and cold locations.

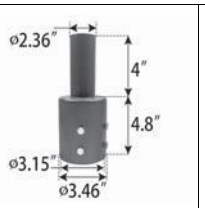
Lamp Controller
- Standard Nema Socket: Plug and Play
- Comprehensive crictical electrical parameters monitoring, A, V, Wh, W, Hz
- Water Proof IP65 protection grade

LoRa Gateway
- High capacity: up to 1000 street lights by one gateway
- Beaconing: periodically synchronizes the GPS time of all end devices,facilitating scheduled access and flawless operation of the LoRaWAN™
- Robust weather-proof design: IP67 protection grade

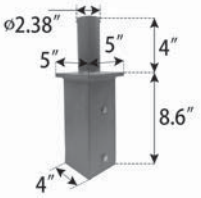
POLE BRACKET • For mounting one fixture on an existing pole



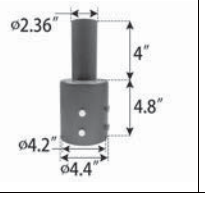
4" Square Pole Mount with 2-3/8" O.D. Tenon
NO. WSD-VTS4-D
Finish: Dark Bronze
MAX EPA: 0.3
USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.



3" Round Pole Mount with 2-3/8" O.D. Tenon
NO. WSD-VT3-D
Finish: Dark Bronze
MAX EPA: 0.3
USE:For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.



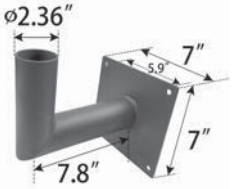
5" Square Pole Mount with 2-3/8" O.D. Tenon
NO. WSD-VTS5-D
Finish: Dark Bronze
MAX EPA: 0.3
USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.



4" Round Pole Mount with 2-3/8" O.D. Tenon
NO. WSD-VT4-D
Finish: Dark Bronze
MAX EPA: 0.3
USE:For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.

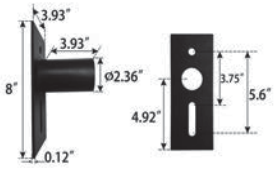
WALL BRACKET

- Attaches to any flat surface
- Provides wiring access



90° Wall Mount Bracket with 2-3/8" O.D. Tenon
NO. WSD-ADP2.5-90-D
Finish: Dark Bronze
MAX EPA: 0.6
USE: The 90˚ wall mount bracket with 2-3/8" tenon attaches flood and area fixtures to almost any surface: wall, roof, or wood pole. Provides wiring access and a built-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slip-fitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.

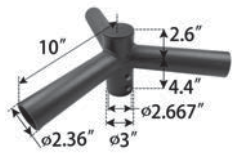
MID-POLE TENON BRACKET



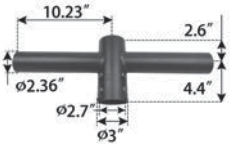
2-3/8" OD Horizontal Tenon Mid-Pole Bracket
NO. WSD-ADP2.5-D
Finish: Dark Bronze
MAX EPA: 0.3
USE: 2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slip-fitter onto a 2-3/8" OD horizontal tenon.

ROUND EXTERNAL MOUNT HORIZONTAL TENON · To mount 2/3/4 fixtures on an existing pole

Double 90° Horizontal Tenon Adaptor
NO. WSD-SB2.5TW90-D
Finish: Dark Bronze
MAX EPA: 0.6
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.



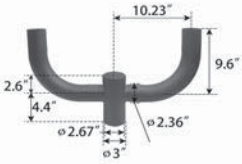
Triple 120° Horizontal Tenon Adaptor
NO. WSD-SB2.5TR120-D
Finish: Dark Bronze
MAX EPA: 0.7
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.



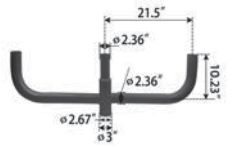
Double 180° Horizontal Tenon Adaptor
NO. WSD-SB2.5TW180-D
Finish: Dark Bronze
MAX EPA: 0.4
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

Quad 90° Horizontal Tenon Adaptor
NO. WSD-SB2.5QD90-D
Finish: Dark Bronze
MAX EPA: 1.0
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

Single Spoke Bracket Tenon Adaptor
NO. WSD-SB2.5S-D
Finish: Dark Bronze
MAX EPA: 0.4
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. One fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.



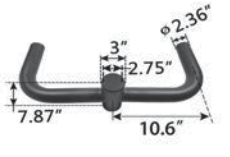
Double 180° Horizontal Tenon Adaptor
NO. WSD-RB2.5D180-D
Finish: Dark Bronze
MAX EPA: 0.9
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.



Triple 180° Horizontal Tenon Adaptor
NO. WSD-RB2.5TR180-D
Finish: Dark Bronze
MAX EPA: 1.4
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

Quad 90° Horizontal Tenon Adaptor
NO. WSD-RB2.5QD90-D
Finish: Dark Bronze
MAX EPA: 1.5
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

90° Wall Mount Bracket with 2-3/8" O.D. Tenon
NO. WSD-ADP2.5-90H-D
Finish: Dark Bronze
MAX EPA: 0.7
USE: The 90˚ wall mount bracket with 2-3/8" tenon attaches flood and area fixtures to almost any surface: wall, roof, or wood pole. Provides wiring access and abuilt-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slip-fitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.

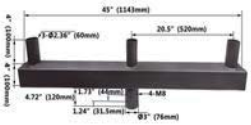
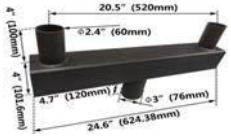


Double 180° Horizontal Tenon Adaptor
NO. WSD-RB2.5TR180H-D
Finish: Dark Bronze
MAX EPA: 1.0
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

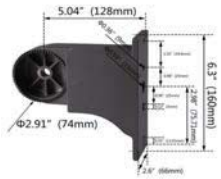
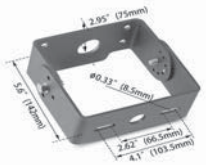
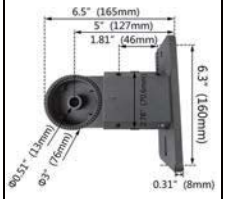
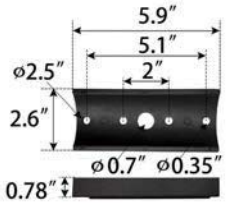
Triple 120° Horizontal Tenon Adaptor
NO. WSD-SB2.5TR120V-D
Finish: Dark Bronze
MAX EPA: 1.5
USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

Double 180° Wall Mount Bracket with 2-3/8" O.D. Tenon
NO. WSD-ADP2.5-180H-D
Finish: Dark Bronze
MAX EPA: 1.4
USE: The 180˚ wall mount bracket with 2-3/8" tenon attaches flood and area fixtures to almost any surface: wall, roof, or wood pole. Provides wiring access and abuilt-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slip-fitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.

SQUARE EXTERNAL MOUNT HORIZONTAL TENON · To mount 2/3/4 fixtures on an existing pole

	**Low Profile Bullhom with 3 Tenons** NO. WSD-VTS4R-3T-D MAX EPA: 1.6 Finish: Dark Bronze USE:The Bracket is designed to mount over 2-3/8" O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.		**Low Profile Bullhom with 2 Tenons** NO. WSD-VTS4R-2T-D MAX EPA: 1.0 Finish: Dark Bronze USE:The Bracket is designed to mount over 2-3/8" O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.
	**Triple 120° Horizontal Tenon Adaptor** NO. WSD-QT120-3T-D MAX EPA: 1.4 Finish: Dark Bronze USE:The Bracket is designed to mount over 2-3/8" O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.		**Quad 90° Horizontal Tenon Adaptor** NO. WSD-QT90-4T-D MAX EPA: 1.8 Finish: Dark Bronze USE:The Bracket is designed to mount over 2-3/8" O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally.

MOUNTING OPTIONS:

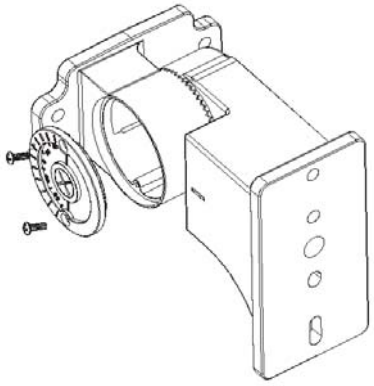
	NO. **WSD-NEWSBARM2-D** Finish: Dark Bronze Arm Mount 4" and 5" Square and Round poles. Standard versatile mounting arm is simple to install and can be used with existing poles for retro installations.		NO. **WSD-NEWSBSF2-D** Finish: Dark Bronze Slipfitter Mount An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8"O.D. pipe size) horizontal steel tenon arm.
	NO. **WSD-SBT-D** Finish: Dark Bronze Easy to install for direct wall mounting with 1/2" conduit wiring.		NO. **WSD-SFARM2-D** Finish: Dark Bronze SFARM2 Mount An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8"O.D. pipe size) horizontal steel tenon arm.
	**Arm Square tube turn tube Tenon Adaptor** NO. WSD-ARM-BAR-D Finish: Dark Bronze USE: square tube light bar installation, with Arm installation of lamps.		**Arm Square tube turn tube Tenon Adaptor** NO. WSD-SADP-BAR-D Finish: Dark Bronze USE: square tube light bar installation, with Arm installation of lamps.

MOUNTING GUIDES

Arm with Photocell Installation

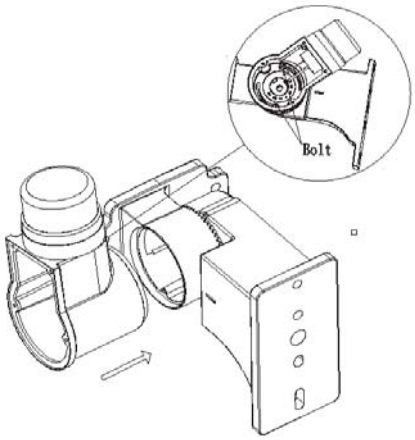
Step 1

As shown in the picture, open the connection box cover of the steering arm.



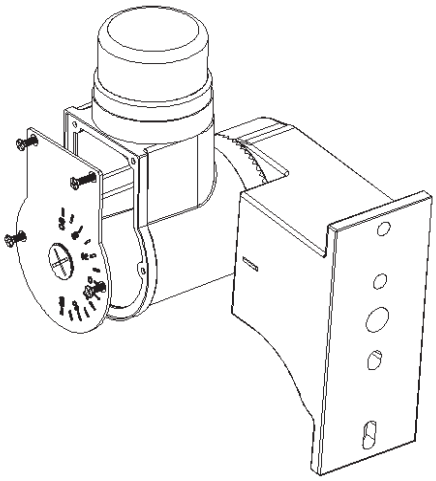
Step 2

As shown in the picture, the holes of the photocell in the junction box match with the screws of the mounting arm, then rotation and adjust the direction of the photocell, to ensure that the photocell is perpendicular to the ground.



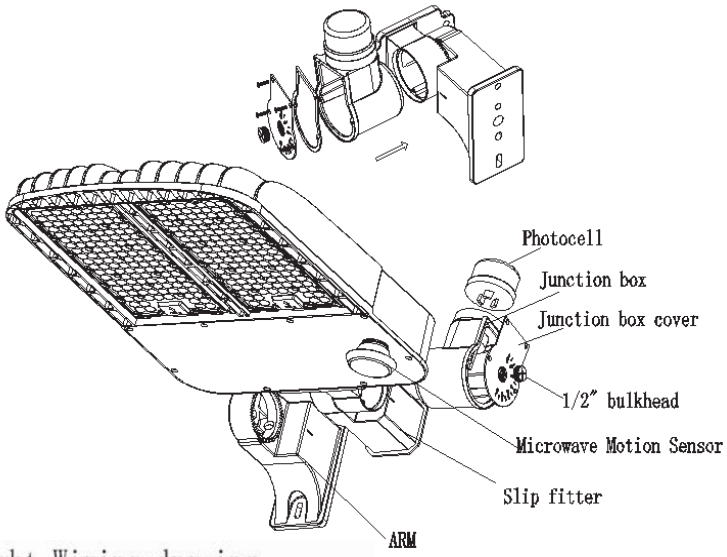
Step 3

Connect the photocell base with AC line and check it correctly. As the picture is shown, lock the junction box cover and turn on the electricity.



Step 4

Assembly drawing



400W Shoebox Light Wiring drawing