Wombat *(FLW) LED FLOOD LIGHT*
50W-280W

5Million+ Units LED Products Sales
100+ Patent Certificates
$1,000,000+ Annual Energy Saving
10,000+ Projects Successfully Installed

OVER
10 YEARS EXPERIENCE
www.aokledlight.com

> Features of FLW Series

• Wombat (FLW) LED Flood Light is an efficient LED solution that efficiently illuminates fields, creating brighter and better lighting for community large areas, tall or wide buildings, and recreational parks. It's also suitable for outdoor wet locations, for ground mounting as well. With its low energy consumption and high efficiency, this easy-to-install and low-maintenance lighting solution is an ideal choice for industrial and commercial applications.

Features:
• System efficacy up to 150 lm/W;
• Adjustable CCT & Power;
• Sturdy die-cast aluminum housing, black powder coating finish, custom color on request;
• Integrated lens, energy-saving and high efficiency, no glare;
• Optional distribution: 7H*7V (130°x130°), custom optics on request;
• A variety of mounting options: Knuckle/Trunnion/Slipfitter/Yoke;
• UL, FCC listed, suitable for wet locations.

Benefits:
• High energy savings >60% compared to traditional HPS/MHL-light;
• Flexible solution reduces SKUs, increases turns, and drives profitability.

UP TO 150 lm/W	Adjustable ·3000K ·4000K ·5000K	CRI 70/80	100-277V 50/60HZ	Working Temperature Environment -40℃~50℃ (-40℉~+122℉)
L90B10 >52000hrs @ 25℃	IP66	IK09	DIM	

3000K/4000K/5000K CCT Switch

Power Switch

Remove the waterproof cover to adjust, individual dip switches allow users to select color temperature and power output.

Change at the flip of a switch

> Application Reference

- Backyards
- Recreational parks
- Buildings and walls
- Ground areas and other wet locations

Multiple mounting options can be installed in various scenarios.

50W-60W
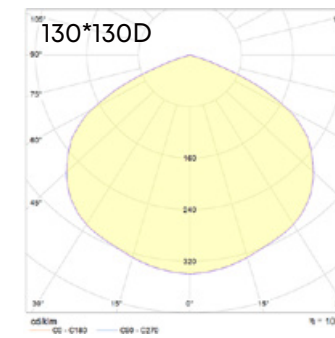Trunnion Mount

50W-60W
Knuckle Mount

70W-280W
Slipfitter Mount

70W-280W
Yoke Mount

Parameter Table

Electrical Specifications

Model	AOK-FLW50	AOK-FLW60	AOK-FLW70	AOK-FLW100	AOK-FLW150	AOK-FLW200	AOK-FLW240	AOK-FLW280
Power(W)	50W	60W	70W	100W	150W	200W	240W	280W
Input voltage	100-277VAC							
PF	≥0.90	≥0.90	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95	≥0.95
Driver Efficiency	≥86%	≥88%	≥89%	≥90%	≥93%	≥93%	≥94%	≥94%
Maximum Current	AC0.56 A	AC0.67 A	AC0.78 A	AC1.1 A	AC1.68 A	AC2.24 A	AC2.7 A	AC3.15 A
Control option	Driver includes wiring for 0-10V dimming systems. Dim as low as 10%.							
Operating temperature	-40°C to 50°C (-40 °F to 122 °F)				-40°C to 40°C (-40 °F to 104 °F)			
Surge Protection	4KV SPD optional				10KV SPD optional			

Photometric Specifications

Efficacy (lm/W, Std. Dev ±3%)	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	150lm/W	145lm/W
Luminous flux(lm)@CRI 70Ra, 4000K (Std. Dev ±3%)	7000lm	8400lm	9800lm	14000lm	21000lm	28000lm	35000lm	40000lm
CCT	3000K, 4000K, 5000K							
CRI	70Ra, 80Ra optional							
LED model	2835							
Lens	Polycarbonate							
Beam angle	7H*7V (130°*130°)							

Mechanical Specifications

IP/IK	IP66/IK09, according to standard EN 60529 and EN 62262							
Housing	Heavy-duty die-cast aluminum (EN AC-46100)							
Heat Radiator	Aluminum alloy							
Surface treatment	Anti-UV thermosetting polyester / Anti-UV thermosetting polyester (for extremely corrosive environments).							
Painting	Black, Custom request							
Cable	Pre-wired with a 30 cm cable (Other lengths on request)							
Mounting	Knuckle/ Trunnion		Slipfitter/Yoke					

Package Info

Product Size	Knuckle/Slipfitter	10.69*9.54*2.58 inches / 271.5*242.4*65.5mm	13.42*15.41*2.62 inches / 340.8*391.4*66.5mm	15.39*16.63*2.93 inches / 390.8*422.4*74.5mm	20.83*19.62*3.07 inches /529*498.3*78mm
	Trunnion/Yoke	11.28*8.94*2.58 inches / 286.5*227.2*65.5mm	13.42*12.18*2.62 inches / 340.8*309.4*66.5mm	15.39*13.4*2.93 inches / 390.8*340.4*74.5mm	20.83*16.77*3.07 inches /529*426*78mm
Net Weight	Knuckle/Slipfitter	1.8KG	3.9KG	4.9KG	7.4KG
	Trunnion/Yoke	2.2KG	3.6KG	4.5KG	7.0KG
Carton Size	Knuckle/Slipfitter	12.2*11.42*3.15inches / 310*290*80mm	16.1*18.1*4.13 inches /410*460*105mm	18.5*19.69*4.13 inches /470*500*105mm	24.61*23.07*5.12 inches /625*586*130mm
	Trunnion/Yoke	12.2*11.42*3.15inches / 310*290*80mm	16.1*14.57*3.35 inches / 410*370*85mm	18.5*16.5*3.82 inches /470*420*97mm	24.61*19.88*4.72 inches /625*505*120mm
Gross Weight	Knuckle/Slipfitter	2.4KG	4.9KG	6.1KG	8.8KG
	Trunnion/Yoke	2.8KG	4.5KG	5.7KG	7.4KG

Others

Lifespan	L90B10 > 52000h, @Ta 25°C
Warranty	5 years limited warranty
Certification	UL, FCC, For other certificates please request

Photometrics

130*130D

Dimension

50W-60W Trunnion Mount

A	B	C	D	E
50W-60W (Trunnion Mount)				
286.50mm (11.28")	174.32mm (6.86")	227.20mm (8.94")	65.50mm (2.58")	30.00mm (1.18")

50W-60W Knuckle Mount
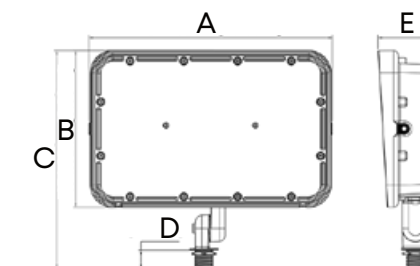
A	B	C	D	E
50W-60W (Knuckle Mount)				
271.50mm (10.69")	174.32mm (6.86")	242.40mm (9.54")	20mm (0.79")	65.50mm (2.58")

70W-280W Yoke Mount
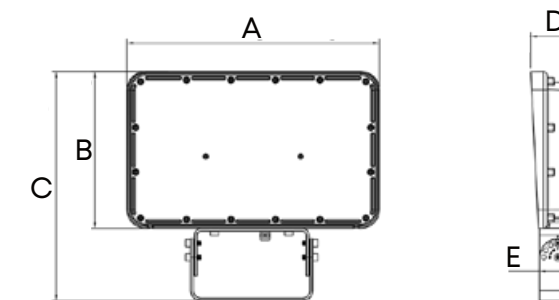
A	B	C	D	E
70W-100W (Yoke Mount)				
340.82mm (13.42")	211.32mm (8.32")	309.41mm (12.18")	66.50mm (2.62")	50.00mm (1.97")
150W-200W (Yoke Mount)				
390.82mm (15.39")	242.32mm (9.54")	340.41mm (13.40")	74.46mm (2.93")	50.00mm (1.97")
240W-280W (Yoke Mount)				
529.00mm (20.83")	328.00mm (12.91")	426.00mm (16.77")	78.00mm (3.07")	50.00mm (1.97")

70W-280W Slipfitter Mount
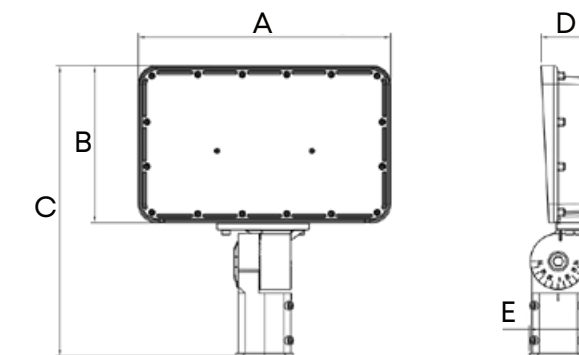
A	B	C	D	E
70W-100W (Slipfitter Mount)				
340.80mm (13.42")	211.32mm (8.32")	391.40mm (15.41")	66.50mm (2.62")	78.00mm (3.07")
150W-200W (Slipfitter Mount)				
390.82mm (15.39")	242.32mm (9.54")	422.36mm (16.63")	74.46mm (2.93")	78.00mm (3.07")
240W-280W (Slipfitter Mount)				
529.00mm (20.83")	328.00mm (12.91")	507.95mm (20.00")	78.00mm (3.07")	78.00mm (3.07")

Ordering Information

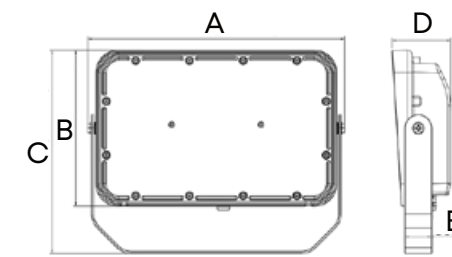| AOK-								
WATTS	VOLTAGE	LED CHIPS	TYPE OF SENSOR	CCT&CRI	DISTRIBUTION	MOUNT		COLOR
FLW50	NV=100-277V	L2=LUMILEDS 2835	00=NONE	XX70=3000K-5000K 70CRI	130=130*130D	K=Knuckle*		BK=Black
FLW60			DV=Dimmable	XX80=3000K-5000K 80CRI		T=Trunnion*		Custom request
FLW70						SF=Slipfitter*		
FLW100						Y=Yoke*		
FLW150								
FLW200								
FLW240								
FLW280								

* Knuckle and Trunnion is for 50w-60w, Slipfitter and Yoke is for 70w-280w. XX70/XX80, 'XX' stands for adjustable CCT.

FLW-Wombat Series Specification Sheet
*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

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Installation Guide (50W-60W)

1. Connect the municipal wire in the NPS screw with the lamp input wire, as shown in Figure-4.
2. Plug the input cable into the screw, tighten it and make the seals waterproof.
3. Loosen the M5*26mm screw and turn the bracket to adjust the required angle. The installation position of the vertical aiming display is tightened.
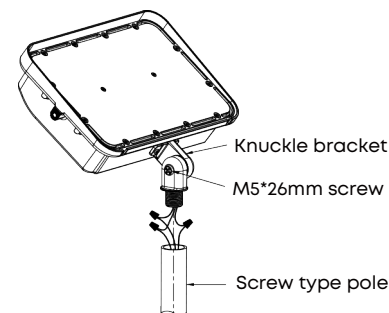4. Please find a professional electrician for installation.

Knuckle bracket
M5*26mm screw
Screw type pole

Figure-1 (Knuckle with screw type pole)

1. Connect the municipal wire in the junction box with the lamp input wire, as shown in Figure 4.
2. Align the Knuckle bracket with the 1/2" NPS hole on the junction box, tighten it and make the seals waterproof.
3. Loosen the M5*26mm screw and turn the bracket to adjust the required angle. The installation position of the vertical aiming display is tightened.
4. Please find a professional electrician for installation.

Knuckle bracket
M5*26mm
Junction box
G 1/2 nut
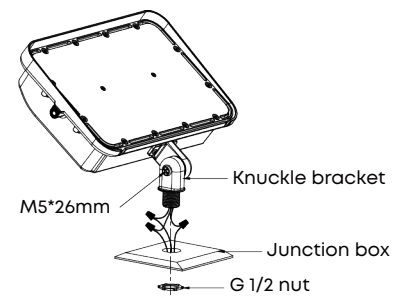
Figure-2 (Knuckle with junction box)

1. Fix the Trunnion bracket on the wall or lamp, then punch the mounting holes.
2. Connect the cable of the lamp to the municipal wire, as shown in Figure-4, then make the seals waterproof.
3. Tighten the Trunnion bracket screw.
4. Loosen the lock nut, turn the lamp to the required angle, then tighten the pivot bolt.
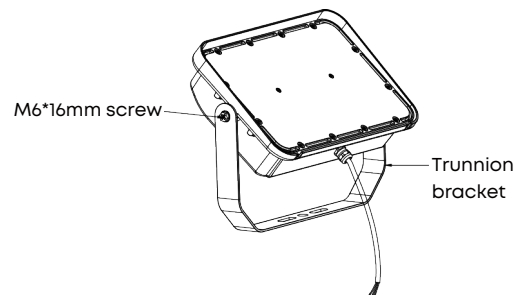5. Please find a professional electrician for installation.

M6*16mm screw
Trunnion bracket

Figure-3 (Trunnion bracket)

LINE BLACK
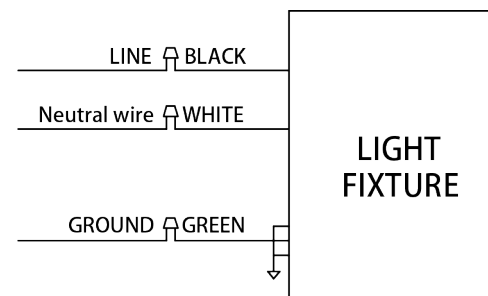Neutral wire WHITE
GROUND GREEN

LIGHT FIXTURE

Figure-4 (Wiring diagram)

1. Adjust the color and power according to the following instructions. Loosen the switch waterproof cover. Default power Settings: on/off options. The default color temperature is 4000K (CCT).
2. Select the color temperature (CCT) to reach the desired value by sliding the CCT switch.
3. Select the desired power value by sliding Power on/off swtich.
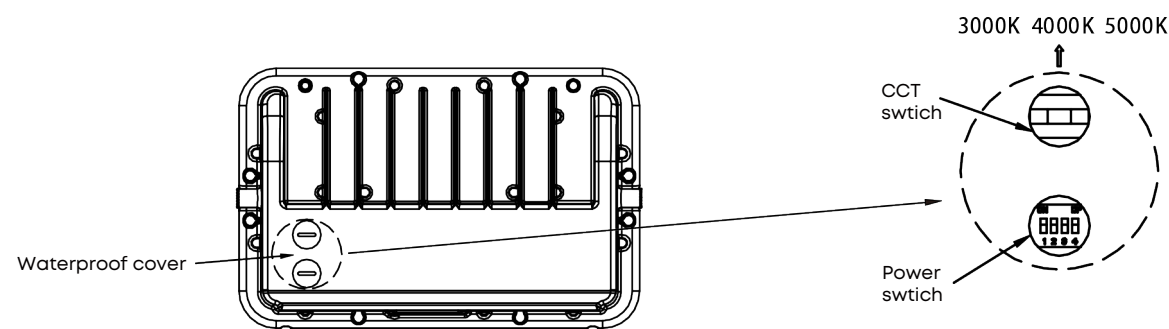4. Reinstall the waterproof cover and tighten it.

3000K 4000K 5000K
CCT swtich
Waterproof cover
Power swtich

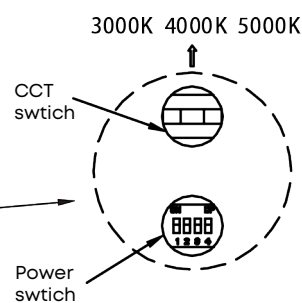**Figure-5 (CCT and power swtich)**

Figure-6 (CCT and power swtich)

Installation Guide (70W-280W)

1. Connect the cable in the Slipfitter holder to the municipal wire, as shown in Figure-10.
2. Insert connecting input wires into a ø60mm pole, then make the seals waterproof.
3. Insert the Slipfitter stand into the ø60mm pole and tighten 4 of M8*25 screws.
4. Loosen the M16*50mm bolt and turn the lamp to adjust the required angle, aim vertically at the installation position as shown and tighten it.
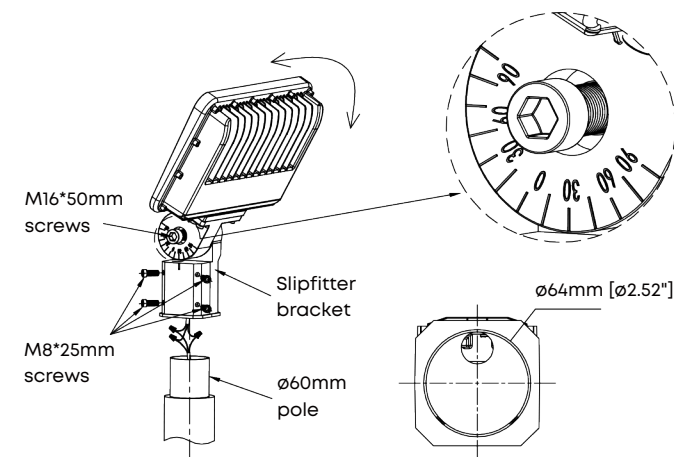5. Please find a professional electrician for installation.

M16*50mm screws
Slipfitter bracket
M8*25mm screws
ø60mm pole
ø64mm [ø2.52"]

Figure-7 (Slipfitter bracket)

1. Loosen the Yoke bracket pivot bolt, rotate the jig to the required angle, and tighten the pivot bolt.
2. Fix the Yoke bracket on the wall or lamp, and tighten the securing bolts.
3. Connect the cable of lamp with the municipal wire, as shown in Figure-10, then make the seals waterproof.
4. Please find a professional electrician for installation.

M6*16mm pivot bolt
Yoke bracket
M6*16mm pivot bolt
165mm [6.5"]
114.3mm [4.5"]
63.5mm [2.5"]
15.88mm [0.63"]
50mm [1.97"]
ø21mm [ø0.83"]

Figure-8 (Yoke bracket)

1. Adjust the color and power according to the following instructions. Loosen the switch waterproof cover. Default power Settings: on/off options. The default color temperature is 4000K (CCT).
2. Select the color temperature (CCT) to reach the desired value by sliding the CCT switch.
3. Select the desired power value by sliding Power on/off swtich.
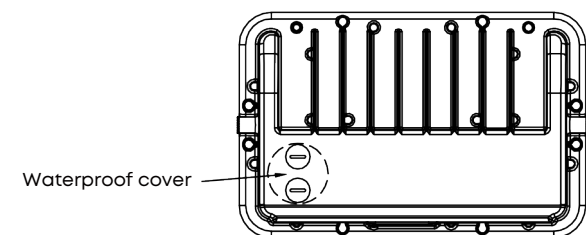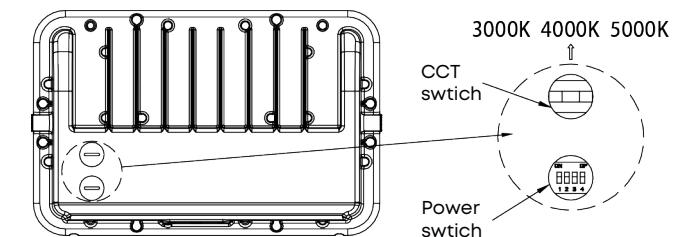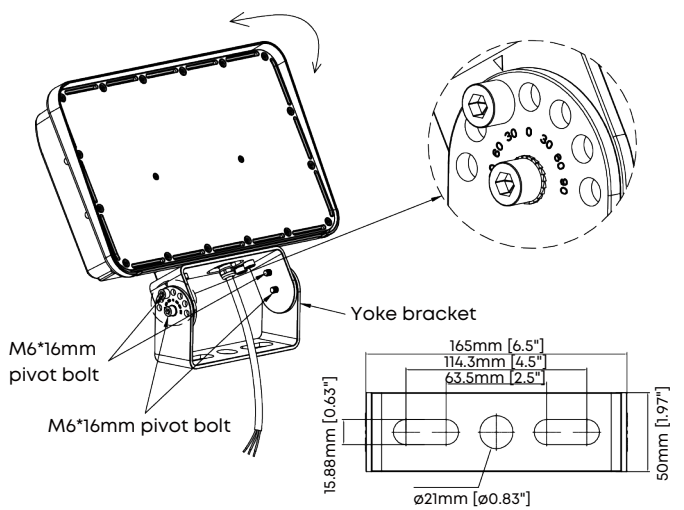4. Reinstall the waterproof cover and tighten it.

Waterproof cover
3000K 4000K 5000K
CCT swtich
Power swtich

Figure-9 (CCT and power swtich)

LINE BLACK
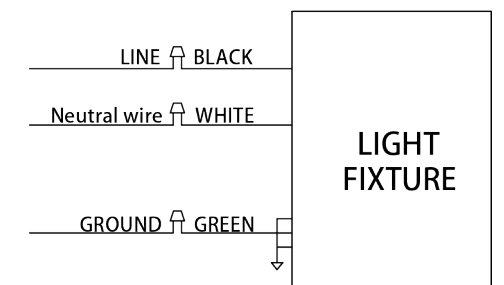Neutral wire WHITE
GROUND GREEN

LIGHT FIXTURE

Figure-10 (Wiring diagram)

⚡ WARNING

Before proceeding with installation or service maintenance of this product.
· Disconnect power to reduce electrical shock risk.
· Review the entire Installation Guide.
· Inspect this properly packaged product for any damage that may have occurred during transit.
· Verify product application complies with manufacturer design recommendations.
· Verify the availability of necessary tools and incidental material.
· Verify applicable code requirements. Field assembly and installation are subject to acceptance by local inspection authority.
· Appropriate safety equipment to be determined by end user, per applicable safety standards and precautions.

* This procedure is designed as an installation aid. Skilled tradespeople that are familiar with general construction and electrical installation techniques should perform the installation. Licensed electricians should provide electrical installation connections. Installations and connections should be done in accordance with all national and local codes and permits. In no way is this document intended to construe warranty or fitness of use of the products described, nor is it intended to provide safety instruction for those installing the product.

■ FLW-Wombat Series Specification Sheet
*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

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for detailed agreement.

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