MENTUM™
LED Flood Light

Beyond LED's MENTUM Flood Llight is the newest design for 2024 and comes with adjustable CCT which makes this product very unique. MENTUM Flood Llight is ideal to replace Halogen lamps and comes with Yoke mount. This flood light is an extremely cost-effective solution, great for illuminating yards, driveways, signage and security applications.

Product Features

- Up to 160 Lumens per watt
- CCT Adjustable 3000K / 4000K / 5000K
- Dimming 0-10V
- Available in Yoke Mount, Knuckle & Slip fitter
- NEMA 7H7V for 30W~155W

- Built-in photocell
- Bronze Housing
- IP65 Rating
- Input Voltage 120-277Vac
- UL & DLC listed
- 5 Year warranty
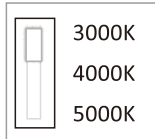
MENTUM™
LED Flood Light

SKU #	Model #	Wattage Adjustable	Lumens	CCT Adjustable	Mount	Input Voltage	Certifications
222173	X-FLF(30/25/17)W-(30/40/50)KLV-PTR	17W/25W/30W	Max 4800Lm	3K/4K/5K	Yoke Mount	120-277V	UL & DLC
222174	X-FLF(30/25/17)W-(30/40/50)KLV-PKN	17W/25W/30W	Max 4800Lm	3K/4K/5K	Knuckle Mount	120-277V	UL & DLC
222171	X-FLF(63/50/36)W-(30/40/50)KLV-PTR	36W/50W/63W	Max 10080Lm	3K/4K/5K	Yoke Mount	120-277V	UL & DLC
222172	X-FLF(63/50/36)W-(30/40/50)KLV-PKN	36W/50W/63W	Max 10080Lm	3K/4K/5K	Knuckle Mount	120-277V	UL & DLC
222169	X-FLF(108/90/63)W-(30/40/50)KLV-PSF	63W/90W/108W	Max 17280Lm	3K/4K/5K	Slip Fitter	120-277V	UL & DLC
222170	X-FLF(108/90/63)W-(30/40/50)KLV-PTR	63W/90W/108W	Max 17280Lm	3K/4K/5K	Yoke Mount	120-277V	UL & DLC
222072	X-FLF(155/125/90)W-(30/40/50)KLV-PSF	90W/125W/155W	Max 24800Lm	3K/4K/5K	Slip Fitter	120-277V	UL & DLC
222073	X-FLF(155/125/90)W-(30/40/50)KLV-PTR	90W/125W/155W	Max 24800Lm	3K/4K/5K	Yoke Mount	120-277V	UL & DLC

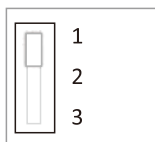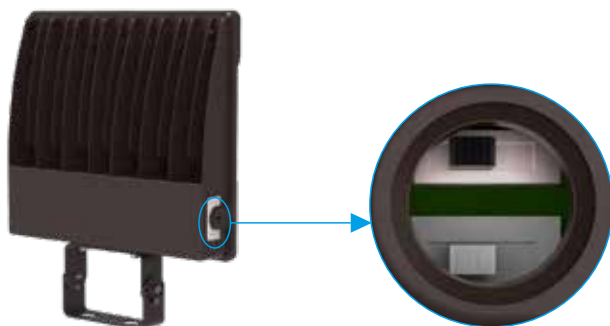## Wattage Selecon & CCT Selecon Capability

Wattage Setting

1
2
3
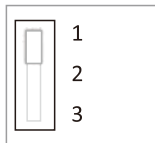
Adjust power between
30/25/17W, 30W default setting.
63/50/36W, 63W default setting.
108/90/63W, 108W default setting.
155/125/90W, 155W default setting.

CCT Setting

3000K
4000K
5000K

Adjust CCT between
3000K/4000/5000K, 5000K
default setting.

Wattage Setting

1
2
3

Adjust power between
250/200/150/125W, 250W
default setting.

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LED TECHNOLOGY

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MENTUM™
LED Flood Light

SKU: 222173 / 222174		Specifications
Parameter	**Description**	**Value**
General Performance	Wattage Adjustable	17W / 25W / 30W
	Lumen	Max. 4800LM
	Lumen Efficacy	Up to 160LM/W
	Color Temperature	3000K / 4000K / 5000K
	CRI (Ra)	>70
	Beam Angle	7H7V
	Input Voltage	120-277Vac
Electrical	Frequency	50/60Hz
	Dimming	0-10V
	Accessory	Built-in Photocell
	PF (Tolerance: -3%)	98%
	THD (Tolerance : +5%)	20%
	Driver Model	SS-240NH-E260BHB
	Driver Surge protection	6KV
	Operating Temperature	-40°C to 45°C
	Storage Temperature	-40°C to 45°C
	Operating Humidity	10%RH-90RH
	Storage Humidity	-10°C-65°C, 0%-90%RH24hrs
Physical	LED Brand	Nationstar
	LED Type	SMD2835
	LED QTY	N/A
	Housing	Die-Cast Aluminum
Qualification	Housing Color	Bronze
	IP Rating	IP65
	Mount	Yoke Mount/ Knuckle
	Warranty	5 Year

MENTUM™
LED Flood Light

SKU: 222171 / 222172   Specifications

Parameter	Description	Value
General Performance	Wattage Adjustable	36W / 50W / 63W
	Lumen	Max. 10080LM
	Lumen Efficacy	Up to 160LM/W
	Color Temperature	3000K / 4000K / 5000K
	CRI (Ra)	>70
	Beam Angle	7H7V
	Input Voltage	120-277Vac
Electrical	Frequency	50/60Hz
	Dimming	0-10V
	Accessory	Built-in Photocell
	PF (Tolerance: -3%)	98%
	THD (Tolerance : +5%)	20%
	Driver Model	Beyond Driver
	Driver Surge protection	6KV
	Operating Temperature	-40°C to 45°C
	Storage Temperature	-40°C to 45°C
	Operating Humidity	10%RH-90RH
	Storage Humidity	-10°C-65°C, 0%-90%RH24hrs
Physical	LED Brand	Nationstar
	LED Type	SMD2835
	LED QTY	N/A
	Housing	Die-Cast Aluminum
Qualification	Housing Color	Bronze
	IP Rating	IP65
	Mount	Yoke Mount/ Knuckle
	Warranty	5 Year

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MENTUM™
LED Flood Light

SKU: 222169 / 222170   Specifications

Parameter	Description	Value
General Performance	Wattage Adjustable	63W / 90W / 108W
	Lumen	Max. 17280LM
	Lumen Efficacy	Up to 160LM/W
	Color Temperature	3000K / 4000K / 5000K
	CRI (Ra)	>70
	Beam Angle	7H7V
	Input Voltage	120-277Vac
Electrical	Frequency	50/60Hz
	Dimming	0-10V
	Accessory	Built-in Photocell
	PF (Tolerance: -3%)	98%
	THD (Tolerance : +5%)	20%
	Driver Model	Beyond Driver
	Driver Surge protection	6KV
	Operating Temperature	-40°C to 45°C
	Storage Temperature	-40°C to 45°C
	Operating Humidity	10%RH-90RH
	Storage Humidity	-10°C-65°C, 0%-90%RH24hrs
Physical	LED Brand	Nationstar
	LED Type	SMD2835
	LED QTY	N/A
	Housing	Die-Cast Aluminum
Qualification	Housing Color	Bronze
	IP Rating	IP65
	Mount	Slip fitter / Yoke Mount
	Warranty	5 Year

MENTUM™
LED Flood Light

SKU: 222072 / 222073   Specifications

Parameter	Description	Value
General Performance	Wattage Adjustable	90W / 125W / 155W
	Lumen	Max. 24800LM
	Lumen Efficacy	Up to 160LM/W
	Color Temperature	3000K / 4000K / 5000K
	CRI (Ra)	>70
	Beam Angle	7H7V
	Input Voltage	120-277Vac
Electrical	Frequency	50/60Hz
	Dimming	0-10V
	Accessory	Built-in Photocell
	PF (Tolerance: -3%)	98%
	THD (Tolerance : +5%)	20%
	Driver Model	Beyond Driver
	Driver Surge protection	6KV
	Operating Temperature	-40°C to 45°C
	Storage Temperature	-40°C to 45°C
	Operating Humidity	10%RH-90RH
	Storage Humidity	-10°C-65°C, 0%-90%RH24hrs
Physical	LED Brand	Nationstar
	LED Type	SMD2835
	LED QTY	N/A
	Housing	Die-Cast Aluminum
Qualification	Housing Color	Bronze
	IP Rating	Wet Location
	Mount	Slip fitter / Yoke Mount
	Warranty	5 Year

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LED FLOOD LIGHT

Correlated Color Temperature (CCT)

COOL WHITE

5500K

4000K

NATURAL WHITE

3000K

WARM WHITE
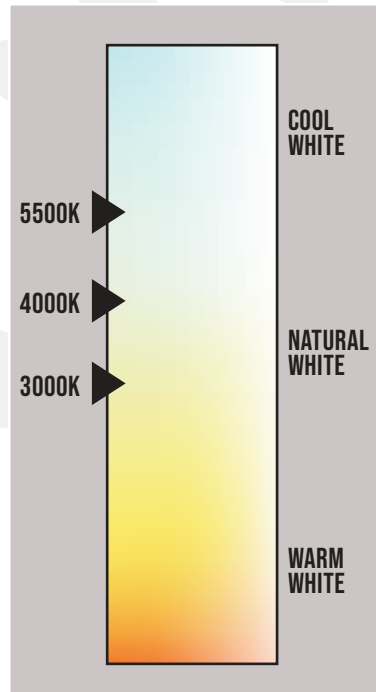
Accessories

Control Options

Comes as standard

XPC-B
Photocell -With Sunshade Cover

MENTUM™
LED Flood Light

Dimensions

1/2"NPSM Knuckle Mount	L x W x H
30W / 25W / 17W	9.8x7.0x2.3inch
63W / 50W / 36W	10.8x8.0x2.5inch

1/2"NPSM Knuckle Mount

(30/25/17)W
(63/50/36)W
(108/90/63)W
(155/125/90)W
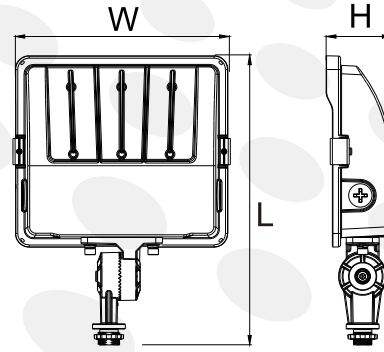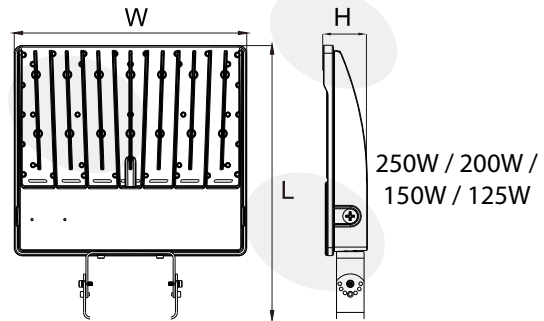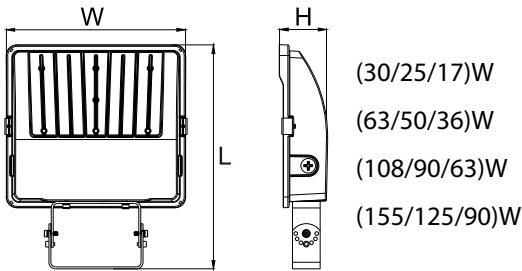
250W / 200W / 150W / 125W

Trunnion Mount	LxWxH (Inches)
30W /25 / 17W	8.7 x 7.0 x 2.3
63W / 50W / 36W	9.7 x 8.0 x 2.5
108W / 90W / 63W	11.8 x 9.2 x 2.9
155W / 125 / 90W	13.5 x 10.7 x 2.9
250W / 200W / 150W / 125W	16.4 x 14.0 x 2.6

LED FLOOD LIGHT

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MENTUM™
LED Flood Light

Dimensions

(108/90/63)W

(155/125/90)W

(250/200/150/125)W
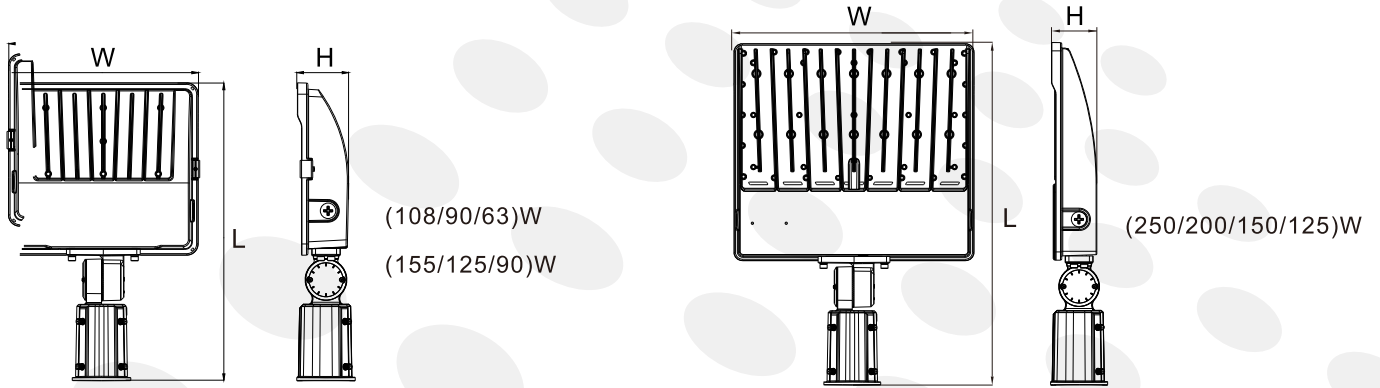
Slipfitter Mount	LxWxH (Inches)
108W / 90W / 63W	15.3 x 9.2 x 2.9
155W / 125W / 90W	16.8 x 10.7 x 2.9
250W / 200W / 150W / 125W	19.8 x 14.0 x 2.6

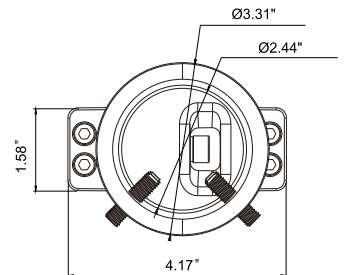## Drilling Patterns
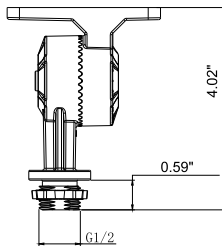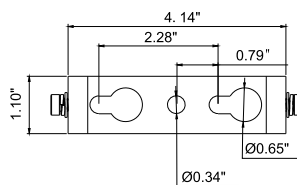
Knuckle Mount for FLF 30-63W

4.02"

0.59"

G1/2

Trunnion Mount for FLF 30-63W

4. 14"

2.28"

0.79"

1.10"

Ø0.65"

Ø0.34"

Trunnion Mount for FLF 108-250W

5.63"

3.03"

1.18"

1.65"

Ø0.59"

Ø0.83"

Slipfitter Mount for FLF 108-250W Ø3.31"

Ø3.31"

Ø2.44"

1.58"

4.17"
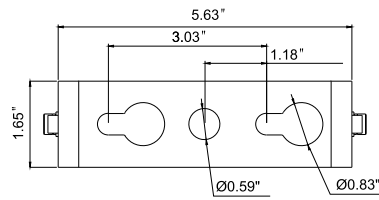
LED FLOOD LIGHT

MENTUM™
LED Flood Light

Dimensions
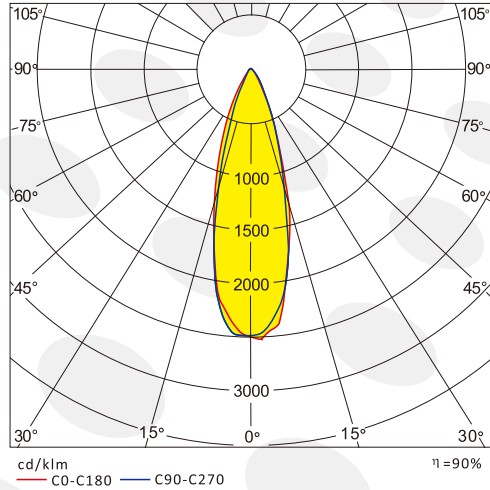
NEMA 4H4V
for 250W
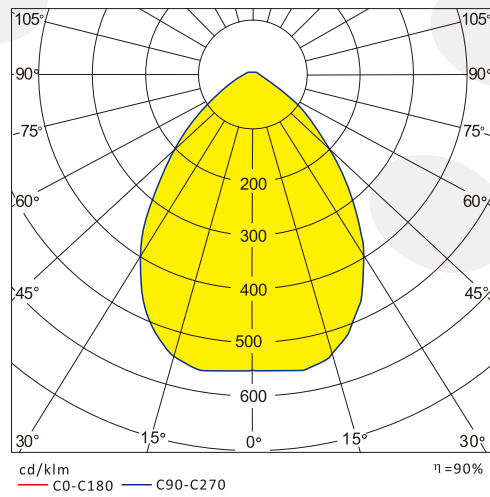
NEMA 6H6V
for 250W

NEMA 7H7V
for 30W~155W

LED FLOOD LIGHT

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LED TECHNOLOGY

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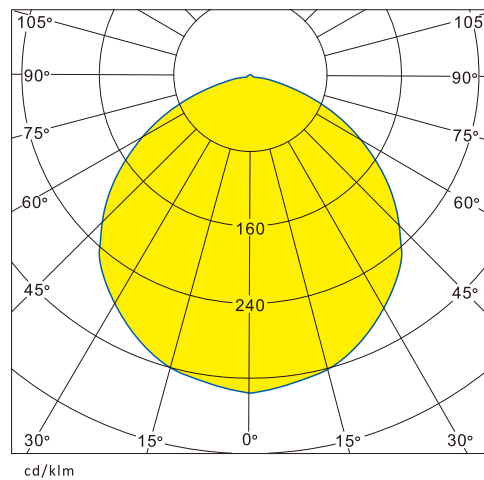
MENTUM™
LED Flood Light

Installation

Upon receipt of fixture, thoroughly inspect for any freight damage. All damage should be reported to the delivery carrier. Compare the catalog description listed on the packing slip with the fixture label on the inside of the housing to be sure you have received the correct merchandise.

READ AND FOLLOW THESE SAFETY INSTRUCTIONS!

• To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
• Before installing, servicing, or performing routine maintenance on this equipment, follow these general precautions.
• Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.
• For Residential installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.
• Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended.
• This fixture is intended to be connected to a properly installed and grounded UL listed junction box.
• It will occasionally be necessary to clean the outside of the refractor/lens. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
• DO NOT INSTALL DAMAGED PRODUCT! This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm.
• Any part damaged or broken during or after assembly should be replaced.
• These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to manufacturer.

WARNING RISK OF ELECTRIC SHOCK

▶ Disconnect or turn off power before installation or servicing.
▶ Verify that supply voltage is correct by comparing it with the luminaire label information.
▶ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
▶ All wiring connections should be capped with UL approved wire connectors.

CAUTION RISK OF INJURY

▶ Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
▶ Avoid direct eye exposure to the light source while it is on.

MENTUM™
LED Flood Light

Installation

WARNING RISK OF BURN

▸ Allow lamp/fixture to cool before handling. Do not touch enclosure, lens or light source.
▸ Do not exceed maximum wattage marked on luminaire label.
▸ Follow all manufacturer's warnings, recommendations and restrictions including but not limited to: driver type, mounting locations/methods, replacement and recycling.
▸ Use only lamps that comply with ANSI standards.

CAUTION RISK OF FIRE

• Keep combustible and other materials that can burn, away from lamp/lens.
• Do not operate in close proximity to persons, combustible materials, or substances affected by heat.

CAUTION RISK OF PRODUCT DAMAGE

• Never connect components under load.
• Do not mount or support these fixtures in a manner that can cut the outer jacket or damaged wire insulation.
• Unless individual product specifications deem otherwise: Never connect an LED product directly to dimmer packs, occupancy sensors, timing devices, or other control devices. LED fixtures must be powered directly off a switched circuit.
• Unless individual product specifications deem otherwise: Do not restrict fixture ventilation. Allow for some volume of airspace around the fixture. Avoid covering LED fixtures with insulation, foam, or other material that will prevent convection or cooling.
• Unless individual product specifications deem otherwise: Do not exceed fixtures' maximum ambient temperature.
• Only use the fixture in its intended location.
• LED products are polarity sensitive. Ensure proper polarity before installation.
• Electrostatic Discharge (ESD): ESD can damage LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
• Do not touch individual electrical components as this can cause ESD, shorten lamp life, or alter performance.
• Some components inside the fixture may not be serviceable. If your unit requires service, stop using the unit immediately and contact an manufacture representative for assistance.
• Changes or modifications not expressly approved by manufacturer will void the product warranty.
• Always read the fixtures' complete installation instructions prior to installation for any additional fixture-specific warnings.

» PACKAGE

1. LED Flood Light.
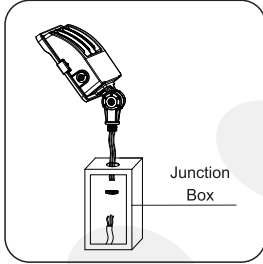2. Installation Instruction.
3. Installation hardware.

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BEYOND LED TECHNOLOGY

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MENTUM™
LED Flood Light

LED FLOOD LIGHT

Installation

≫ INSTALLATION INSTRUCTIONS

• 180° 1/2"NPSM Knuckle Mount

Junction Box
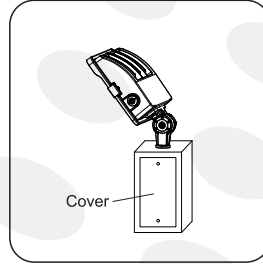
Nut

Cover

adjustable the angle
180°

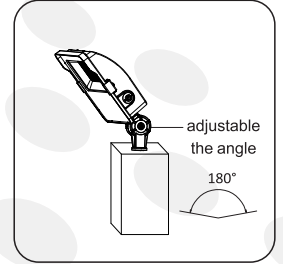1. Put the electrical wiring into the Junction Box
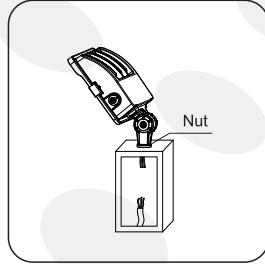
1. Tighten the Nut, connect the electrical wiring according to the instruction
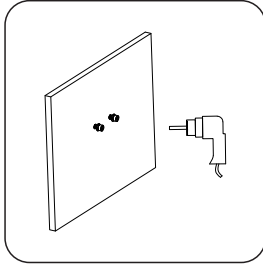**Caution:** turn off the electricity before installation
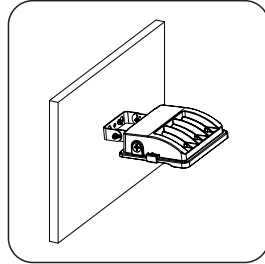
1. Tighten the Junction box cover
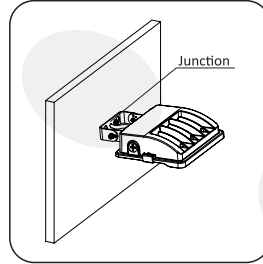
1. Use this screw to adjust the bracket angle, Rotate 180º degreenction box cover

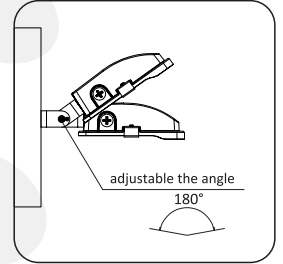### • Yoke Mount

Junction

adjustable the angle
180°

1. Drilling, and install expansion screw until the middle side
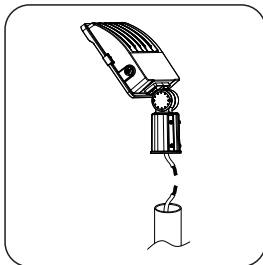
1. Tighten the Nuts

1. Connect the electrical wiring according to the instruction,
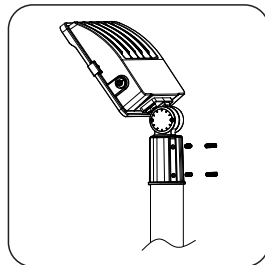**Caution:** turn off the electricity before installation

1. Use this screw to adjust the bracket angle, Rotate 180º degreenction box cover
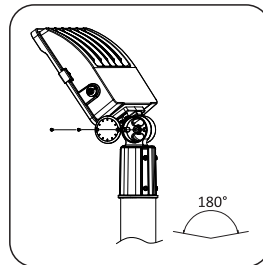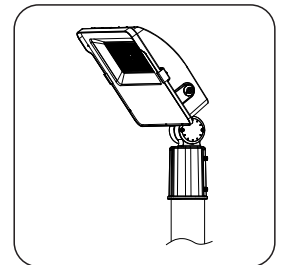
• Slip fitter Mount

180°

1. Connect wires and take safety measures

1. Install the lamp into the pole,Tighten the screws

1. Open the lid, Adjust The Angle

1. Install the cover

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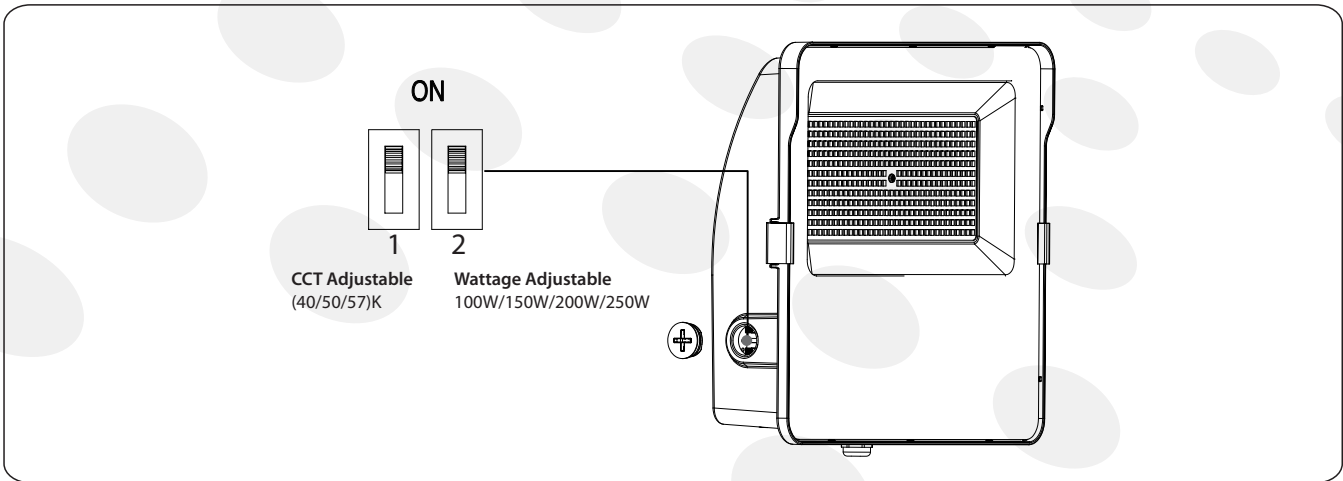
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LED Flood Light
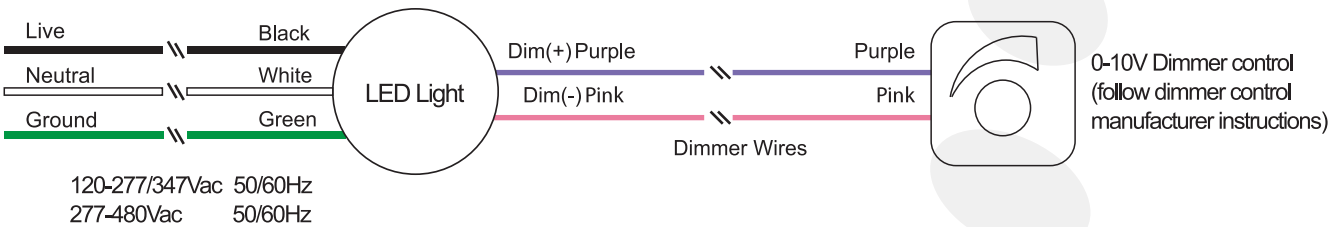
Installation

≫ TROUB LESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Is the fixture grounded properly.
3. Be sure the photocell, if used, is functioning properly.
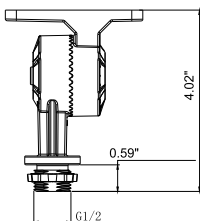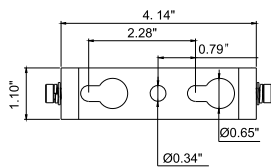
≫ WATTAGE & CCT ADJUSTABLE

ON

1 — **CCT Adjustable** (40/50/57)K

2 — **Wattage Adjustable** 100W/150W/200W/250W

≫ WIRING DIAGRAM

Live	Black
Neutral	White
Ground	Green

LED Light

Dim(+) Purple → Purple
Dim(-) Pink → Pink

Dimmer Wires

0-10V Dimmer control
(follow dimmer control
manufacturer instructions)

120-277/347Vac 50/60Hz
277-480Vac   50/60Hz

Drilling Patterns

Knuckle Mount for FLF 30-63W
4.02"
0.59"
G1/2

Trunnion Mount for FLF 30-63W
4. 14"
2.28"
0.79"
1.10"
Ø0.65"
Ø0.34"

Trunnion Mount for FLF 108-250W
5.63"
3.03"
1.18"
1.65"
Ø0.59"
Ø0.83"

Slipfitter Mount for FLF 108-250W
Ø3.31"
Ø2.44"
1.58"
4.17"

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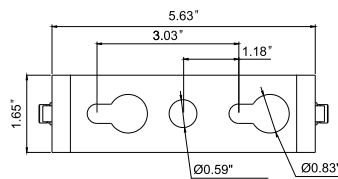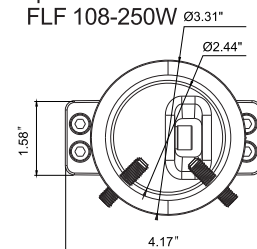
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LED Flood Light

Packaging

SKU #	Dimensions (Inches)	Pcs/Box	Net Weight	Gross Weight
222173	15.94 x 10.63 x 8.86	4 Pcs/Box	N/A	12.10 LBS
222174	15.94 x 11.61 x8.86	4 Pcs/Box	N/A	11.46 LBS
222171	15.94 x 11.81 x10.04	4 Pcs/Box	N/A	15.50 LBS
222172	15.94 x 14.99 x 10.04	4 Pcs/Box	N/A	14.99 LBS
222169	16.93 x 10.83 x 4.92	1 Pcs/Box	N/A	6.61 LBS
222170	13.39 x 10.83 x 4.92	1 Pcs/Box	N/A	6.06 LBS
222072	18.50 x 12.40 x 4.92	1 Pcs/Box	N/A	7.89 LBS
222073	14.96 x 12.40 x 4.92	1 Pcs/Box	N/A	7.54 LBS

Warranty

5 Year Warranty

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Due to continuous product improvement, information in this document is subject to change.

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