i10™
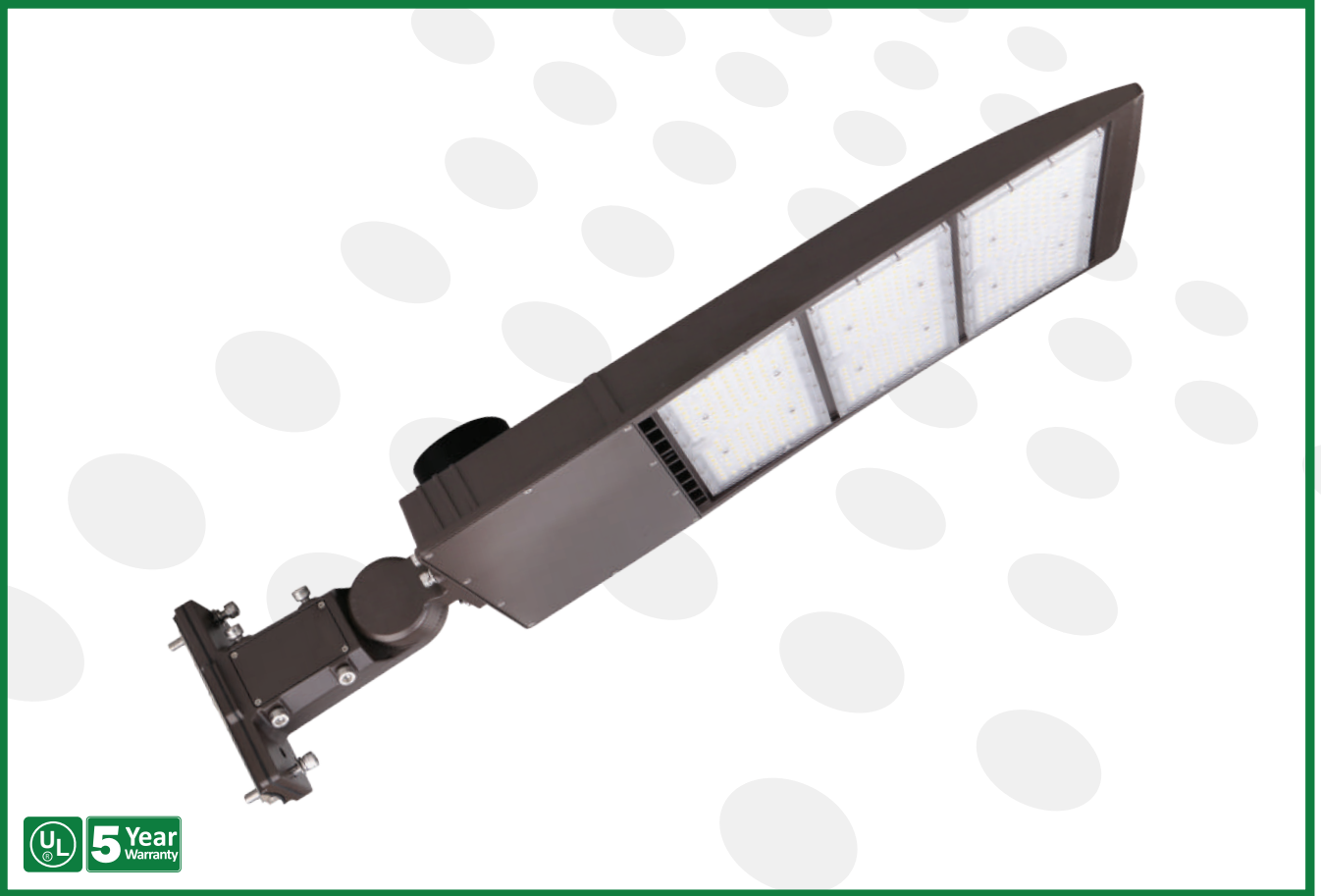## 2nd Gen

Beyond LED Technology's i10 2nd Gen Area light is the most economical and newest 2023 model. Our i10 Area light offers high lumens per watt for maximum power savings and rebates from power companies. Our i10 2nd Gen Area light is a perfect solution for lighting parking areas, loading docks and other general lighting applications.

Product Features

- Up to 160 Lumens per watt
- Dimmable 1-10V
- Ultra thin sleek design
- Several bracket options

- Input Voltage 120-277Vac
- Heat resistant polycarbonate optical lens
- Die Cast Aluminum Bronze Housing
- UL & DLC Listed
- 5 Year warranty

i10™
2nd Gen

SKU #	Model #	Watt	Lumens	CCT	Input Voltage	Housing	IP	Dimming	Certifications
156599	BLT-S-G14-450WBT3A4-BR10SP50	450W	72000Lm	5000K	120-277V	Bronze	IP65	1-10V	UL & DLC

SKU Number 156599   Specifications

Parameter	Description	Value
General Performance	Model #	BLT-S-G14-450WBT3A4-BR10SP50
	Wattage	450W
	Lumen	72000LM
	Lumen Efficacy	Up to 160LM/W
	Color Temperature	5000K
	CRI (Ra)	>80
	Beam Angle	150*95 Degree Type lll
Electrical	Input Voltage	120-277Vac
	Frequency	50/60Hz
	Dimming	1-10V Dimmable
	Power Factor	≥0.9
	Driver Surge Protection	L/N-PE: 6kV, L-N: 6kV
	Flicker Percent	<5%
	Driver Brand	LIFUD
Physical	Operating Temperature	Without Motion Sensor: -40°C TO 50°C
		With Motin Sensor -30°C TO 50°C
	Operating Humidity	5%-95% RH
	Storage Temperature	-40°C To 80°C
	Storage Humidity	5% - 95% RH
	LED Brand	Lumileds
	LED Type	SMD2835
	LED QTY	966 Pcs
	Housing	Die-cast aluminum
	Housing Color	Bronze
Qualification	IP Rating	IP65
	Warranty	5 Year

LED AREA LIGHTS

BEYOND
LED TECHNOLOGY

i10™
2nd Gen

Correlated Color Temperature (CCT)

COOL WHITE

NATURAL WHITE

WARM WHITE

5000K
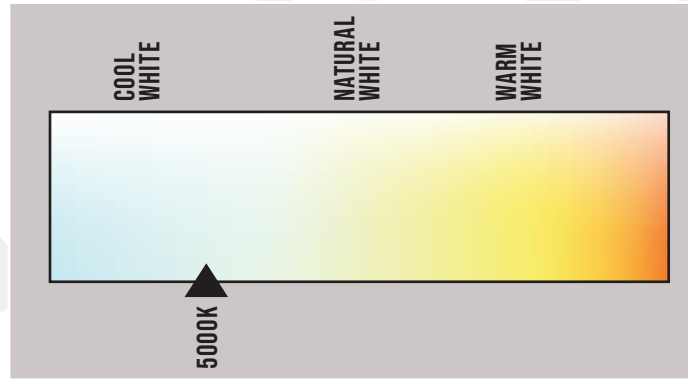
Accessories

Optional Photocell
SKU: 110786

Mounts

Optional
Yoke Mount
SKU: 156600

Standard
Universal Mount

Dimensions

37.4"

13.1"

6.3"

32.6"

13.1"

3.5"

i10™
2nd Gen
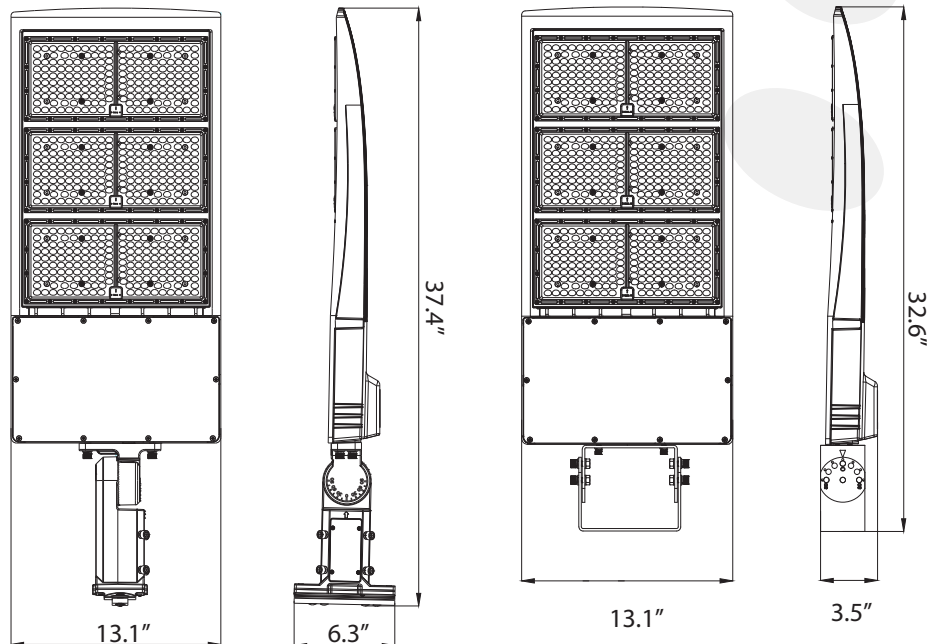
Luminaire Property

Luminaire Manufacturer:
Voltage: 121.5 V
Power: 453.00 W

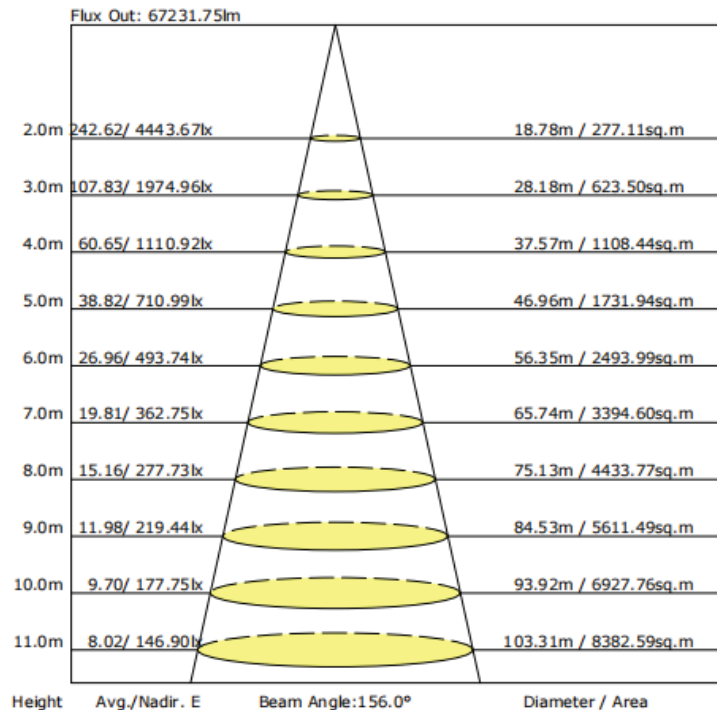Current: 3.735 A
Power Factor: 0.998

Photometric Results

IES Classification: Type III
Total Rated Lamp Lumens: 70042.4 lm
Efficiency: 100%
Upward Ratio: 1%
Central Intensity: 17774.66 cd
Pos of Max. Intensity: H157.5 V69

Longitudinal Classification: Medium
Measurement Flux: 70042.4 lm
Downward Ratio: 99%
Luminaire Efficacy Rating (LER): 154.67
Max. Intensity: 24822.88 cd

Luminous Intensity Distribution Curve

6205
12411
18617
24822
31028

Unit: cd

Average Diffuse Angle(50%): 126.5°

—— C0-C180   —— C90-C270   — - G69
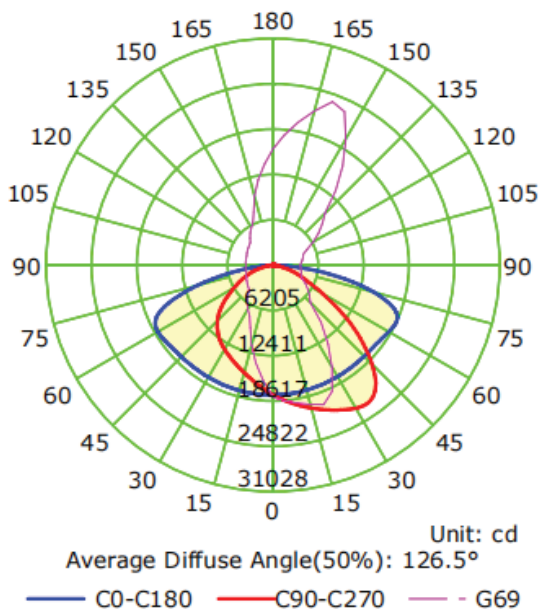
The Average Illuminance Effective Figure

Flux Out: 67231.75lm

Height	Avg./Nadir. E	Beam Angle:156.0°	Diameter / Area
2.0m	242.62/ 4443.67lx		18.78m / 277.11sq.m
3.0m	107.83/ 1974.96lx		28.18m / 623.50sq.m
4.0m	60.65/ 1110.92lx		37.57m / 1108.44sq.m
5.0m	38.82/ 710.99lx		46.96m / 1731.94sq.m
6.0m	26.96/ 493.74lx		56.35m / 2493.99sq.m
7.0m	19.81/ 362.75lx		65.74m / 3394.60sq.m
8.0m	15.16/ 277.73lx		75.13m / 4433.77sq.m
9.0m	11.98/ 219.44lx		84.53m / 5611.49sq.m
10.0m	9.70/ 177.75lx		93.92m / 6927.76sq.m
11.0m	8.02/ 146.90lx		103.31m / 8382.59sq.m

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

BEYOND
LED TECHNOLOGY

4

i10™
2nd Gen

Installation

Cautions:

1. Can not use the electric generator to test the LED light.
2. Please abide by related country, regional and local law and regulations when install this fixture.
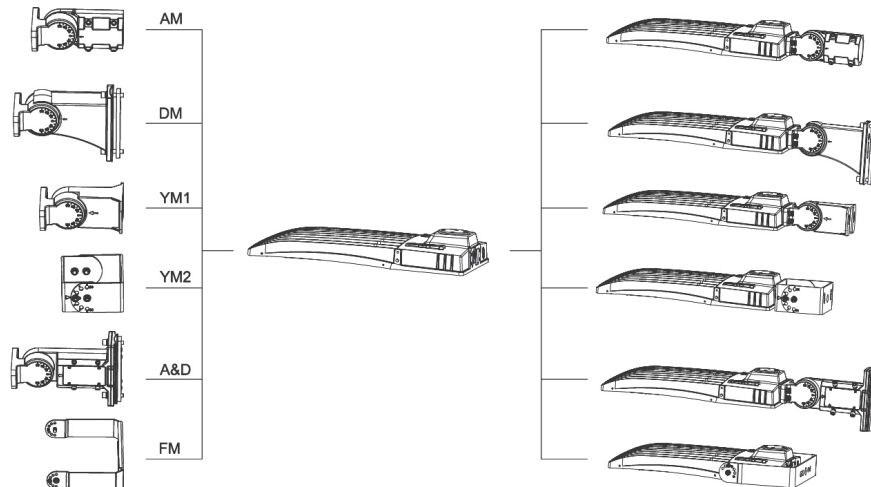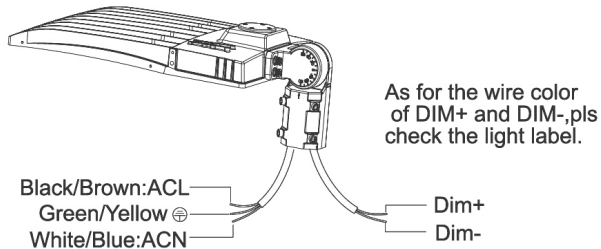3. To avoid electrical shock and damage, please do not install the lights inraining days.

Notices:

1. To prevent from electric shock or fire risk, the installation must be conducted by operator who have professional electrical knowledge.
2. Please wear gloves to avoid injury before installing lights.
3. During or after installation, if there are situations such as smoke, fire in the wires or lights, please turn off the power immediately and notify relevant personnel of an overhaul.
4. This light can be used for outdoor installation.

Instructions:

1. This product has dimming function.
2. 3 dimming functions are available in this shoebox light:
   (1).   Constant current can be achieved by 1-10VDC dimming.
   (2).   PWM signal dimming.
   (3).   Variation of resistance unit dimming (Please choose the appropriate dimming way according to your needs. You can also choose not to use this function).
3. Choose the wire connection ways, dimming ways and installation ways according to your needs and the led fixture purchased.

Wiring Diagram:

As for the wire color of DIM+ and DIM-,pls check the light label.

Black/Brown:ACL
Green/Yellow ⊕
White/Blue:ACN

Dim+
Dim-

AM
DM
YM1
YM2
A&D
FM

5

i10™
2nd Gen

Installation

Installation Instructions with different brackets:

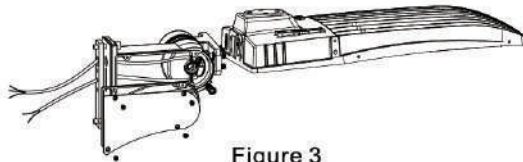#### 1 ADJUSTABLE FITTER MOUNTING (e=AM)
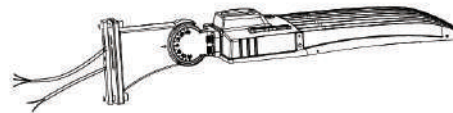Step 1: Remove the bracket mounting screws on the fixture and run the wires through the bracket. (Figure 1)
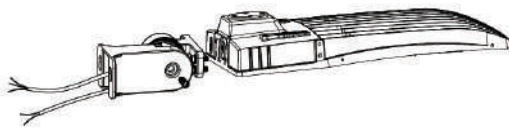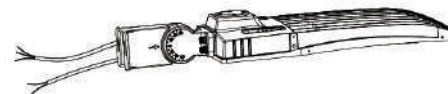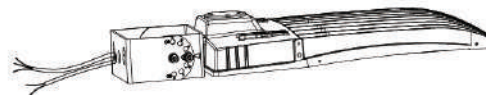Step 2: Install the bracket on the fixture. (Figure 2)

Figure 1

Figure 2

2. DIRECT MOUNTING (e=DM)
Step 1: Remove the bracket mounting screws on the fixture, open the side lid of bracket and run the wires through the bracket. (Figure 3)
Step 2: Install the bracket on the fixture, then cover the side lid and tighten it. (Figure 4)

Figure 3

Figure 4

3. YOKE MOUNTING (e=YM1)
Step 1: Remove the bracket mounting screws on the fixture and run the wires through the bracket. (Figure 5)
Step 2: Install the bracket on the fixture. (Figure 6)

Figure 5

Figure 6

4. YOKE MOUNTING (e=YM2)
Step 1: Remove the bracket mounting screws on the fixture and run the wires through the bracket. (Figure 7)
Step 2: Install the bracket on the fixture. (Figure 8)

Figure 7

Figure 8

5. ADJUSTABLE FITTER MOUNTING & DIRECT MOUNTING (e=A&D)
Step 1: Remove the bracket mounting screws on the fixture, open the side lid of bracket and run the wires through the bracket. (Figure 9)
Step 2: Install the bracket on the fixture, then cover the side lid and tighten it. (Figure10)

Figure 9

Figure 10

LED AREA LIGHTS

BEYOND
LED TECHNOLOGY
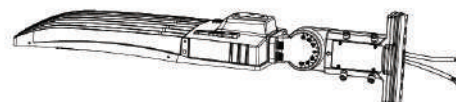
i10™
2nd Gen

Installation

6. FLOOD MOUNTING (e=FM)
Step 1: First install two big screws. (Figure 11)
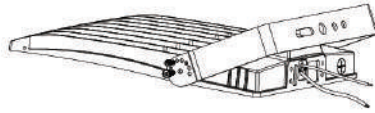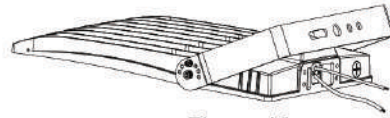Step 2: Install two small screws . (Figure 12)

Figure 11

Figure 12

Installation of LED Lights
1. ADJUSTABLE FITTER MOUNTING (e=AM)
Step 1: Loosen the four bolts on AM bracket, connect the wires correctly, and pull the wires into the poles.(Figure 13)
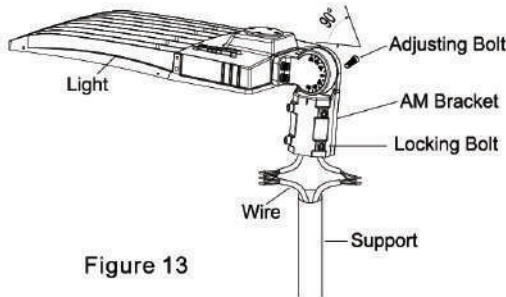Step 2: Place the bracket into the pole and lock the four bolts.(Figure 14)
Notice: Adjustable angle is 0-90°(Figure 13)

Figure 13
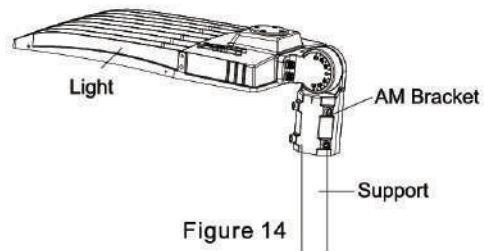
Figure 14

2. DIRECT MOUNTING (e=DM)
Step 1: Fix DM bracket to square pole with bolt, open the side lid of DM bracket, pull the wire into junction box, and connect the wire correctly. (Figure 15)
Step 2: Put the connected wire into the junction box, then cover the junction box.(Figure 16) Notice: Adjustable angle is 0-35°(Figure 15).
Same as round pole installation, please remember to remove the silicon plate when install the fixture in round pole(Figure 17)
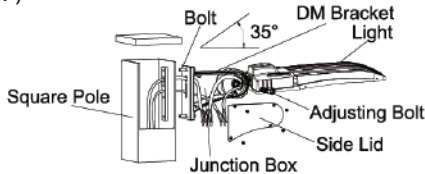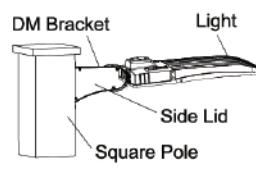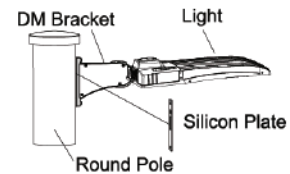
Figure 15

Figure 16

Figure 17

3. YOKE MOUNTING (e=YM1)
Step 1: Drill holes on the wall as shown. (Figure 18)
Step 2: Knock the expansion bolts into the wall.(Figure 19)
Step 3: Connect the fixture to the bracket and tighten the screws; connect the wires properly and put them into junction box.(Figure 20)
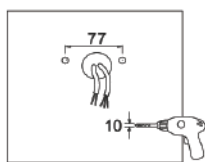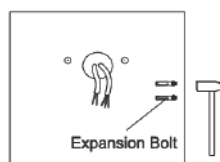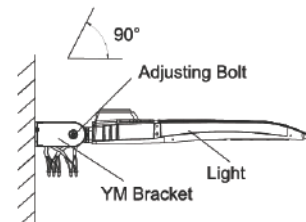Notice: Adjustable angle is 0-90°(Figure 20)

Figure 18

Figure 19

Figure 20

Installation

4. YOKE MOUNTING (e=YM2)

Step 1: Drill holes on the wall as shown. (Figure 21)
Step 2: Knock the expansion bolts into the wall.(Figure 22)
Step 3: Connect the fixture to the bracket and tighten the screws; connect the wires properly and put them into junction box.(Figure 23)
Notice: Adjustable angle is 0-90°(Figure 23)
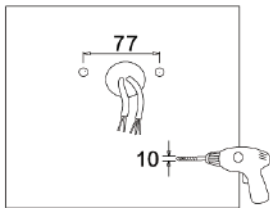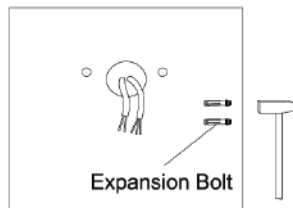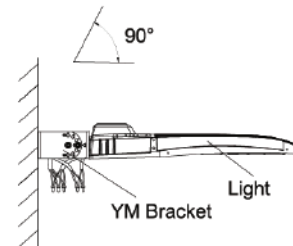

Figure 21

Figure 22

Figure 23

5. ADJUSTABLE FITTER MOUNTING & DIRECT MOUNTING (e=A&D)

5.1 ADJUSTABLE FITTER MOUNTING

Step 1: Remove the spare parts from A&D bracket. (Figure 24)
Step 2: Loosen the four bolts on A&D bracket, connect the wires correctly, and pull the wires into the poles. (Figure 25)
Step 3: Place the bracket into the pole and lock the four bolts. (Figure 25)
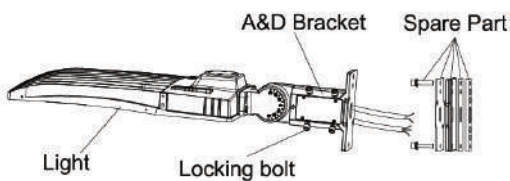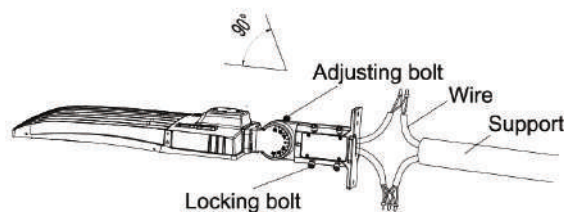Notice: Adjustable angle is 0-90°(Figure 25)

Figure 24

Figure 25

5.2 DIRECT MOUNTING

Step 1: Remove the four bolts from A&D bracket, remove the four rubber plugs from installation bar, put the four rubber plugs on the place where the four bolts were previously placed on the bracket for waterproof purpose (Figure 26)
Step 2: Fix A&D bracket to square pole with bolt, open the cover of A&D bracket junction box, pull the wire into bracket junction box, connect the wire properly and cover the junction box. (Figure 27)
Notice: Adjustable angle is 0-90°.(Figure 27)
Same as round pole installation, please remember to use the adapting plate for round pole installation(Figure 28)
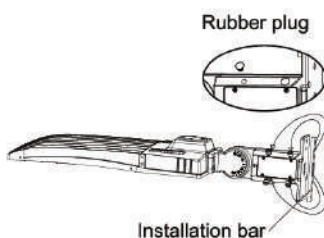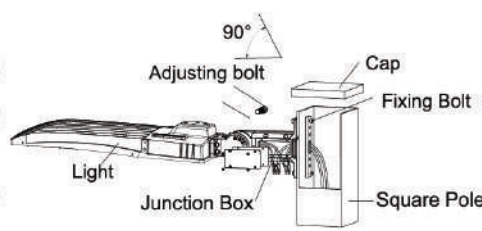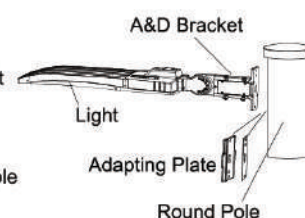

Figure 26

Figure 27

Figure 28

LED AREA LIGHTS

LED AREA LIGHTS

Installation

6. FLOOD MOUNTING (e=FM)

Install the mount to the fixture, tighten the mount and install the screws.
Connect the fixture to the bracket and tighten the screws; connect the
wires properly and put them into junction box(Figure 29)

Standard wire:
L/live wire: Black|Brown;
N/null wire:White \ Blue;
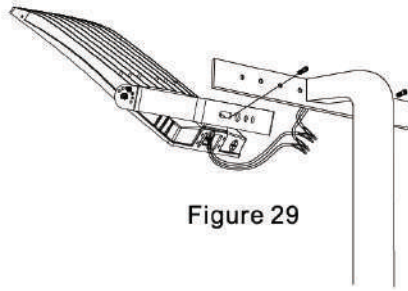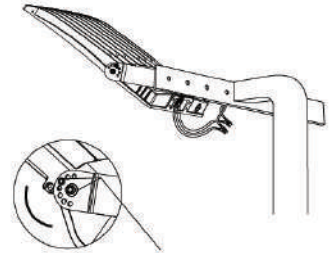**Ground wire: Green \ Yellow-green**

Figure 29

Loosen the angle to adjust the screw, after adjust
to the angle that you need, then tighten the screws.

SUITABLE FOR WET LOCATIONS
MIN 75 °C SUPPLY CONDUCTORS, CAUTION - RISK OF FIRE SUITABLE FOR OPERATION IN AMBIENT NOT EXCEEDING 50°C INSTALL PHOTOCONTROL OR SHORTING PLUG.

CONVIENT AUX EMPLACEMENTS MOUILLES
LES FILS D'ALIMENTATION 75 °C MIN, ATTENTION — RISQUE D'INCENDIE. PEUT ETRE UTILISE A UNETEMPERATURE AMBIANTE N'EXCEDANT PAS 50 °C
INSTALLER UNE CELLULE PHOTOELECTRIQUE OU UNE PRISE COURT-CIRCUITANTE.

Instructions for Motion sensor (Figure 30)

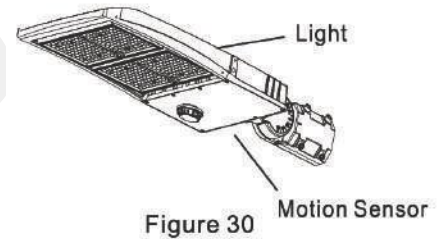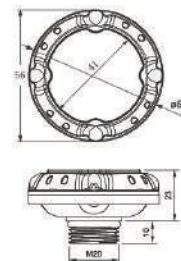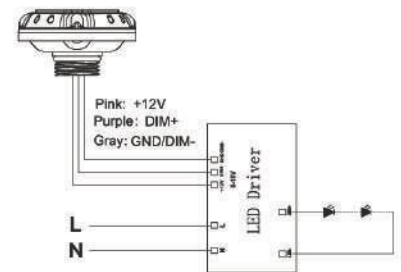| Technical Data	
Operating Voltage	12±2V DC
Operating Current	30mA
Output	DIM 0-10V
Stand-by Power	<0.5W
Brightness	0%-100%/Quick setting:70%/80%/90%/100%
Sensitivity	20%/50%/75%/100%
Hold Time	10s/1min/10min/30min
Daylight Threshold	10Lux/30Lux/50Lux/100Lux/Disable
Stand-by time	1min/30mi n/60mi n/+0°
Stand-by Dimming Level	10%/20%/30%/50%
Microwave Frequency	5.8GHz±75MHz
Microwave Power	<0.5mW
Detection Angle	150° (wall mounted) 360° (ceiling mounted)
Control Line	Pink:+12V; Purple:DIM+; Gray:GND/DIM-
Mounting Height	Max.15m(ceiling mounted)
Detection Range	Max.015m(ceiling mounted) Max.20m(wall mounted)
Operating Temperature	-30°C—+60°C
IP Rating	IP20

Figure 30   Motion Sensor   Light

Pink: +12V
Purple: DIM+
Gray: GND/DIM-

Note:
Default setting: Brightness:100%, Hold time:1min,
Stand-by dimming leve1:20%, Stand-by time:1min, Sensitivity:100%,
Daylight:Disable.

i10™
2nd Gen

Installation

Instructions for PIR sensor (Figure 31)

| Technical Data	
Operating Voltage	12±2V DC
Operating Current	30mA
Output	DIM 0-10V
Stand-by power	<0.5W
Brightness	0%-100%/Quick setting:70°/0/80%/90%/100%
Sensitivity	20%/50%/75%/100%
Hold Time	10s/1min/10min/30min
Daylight Threshold	10Lux/30Lux/50Lux/100Lux/Disable
Stand-by time	1min/30min/60min/+-=
Stand-by Dimming Level	10%/20%/30%/50%
Detection Angle	30-120°
Control Line	Pink:+12V; Purple:DIM+; Gray:GND/DIM-
Mounting Height	Max.6m(ceiling mounted)
Detection Range	Max.0 8m(ceiling mounted) Max.6m(wall mounted)
Operating Temperature	-30°C—+60°C
IP Rating	IP20

Figure 31

Pink: +12V
Purple: DIM+
Gray: GND/DIM-
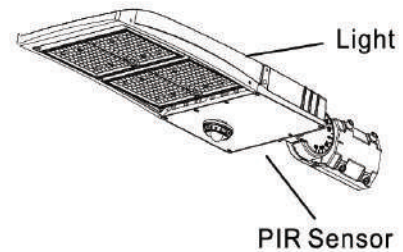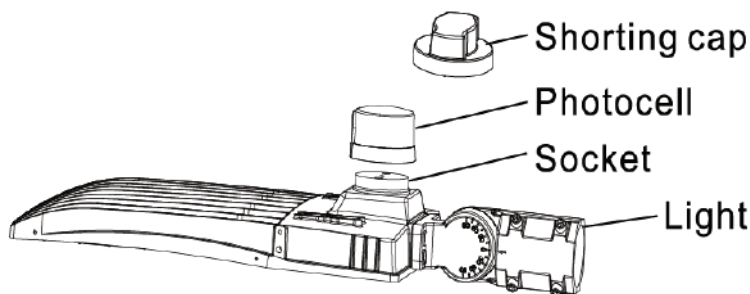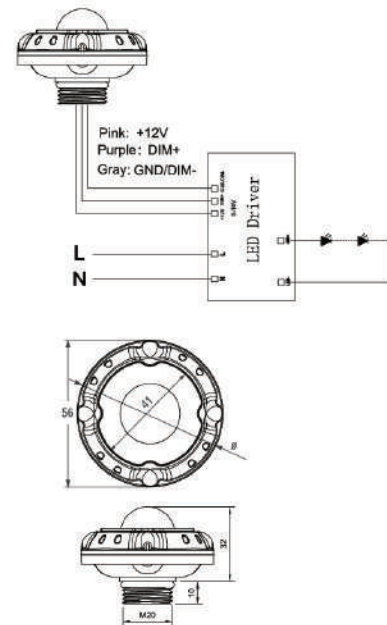
Figure 32

LED AREA LIGHTS

i10™
2nd Gen

Package

SKU #	Carton (Inch)	Qty / Carton	Net Weight	Gross Weight / Ctn
156599	38.38 x 15.55 x 6.42	1	20.65 LBS	23.70LBS

Application Images

i10™
2nd Gen

Application Images

Warranty

5 Year Warranty

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

BEYOND LED TECHNOLOGY

12