Fidelux

FSLX - Fidelux Street Light Series

Product Description

As the star product series, the FSLX embraces innovative features that are akin to the global product designs. Applied with top grade LED and optical integrated modular system, the FSLX LED Street Light provides tremendous optical performance and outstanding versatility for roadway applications.

Features & Benefits

• High output lumen efficiency
• Replaceable and upgradeable modular design
• Easy assembly, easy installation and easy maintenance
• Angle adjustable and different mounting arm applicable
• Photocell optional
• Wireless control & Dali
• Optional intelligent wireless lighting management system

Applications

• Street Light
• Parking Lot

Mounting Options

• Standard Pole Mount
• Adjustable Mounting

Regulatory & Voluntary Qualifications

• UL
• Most of our products are DLC listed, qualifying them for the highest rebates. Please check individual product specs for DLC status. Refer to DLC website by clicking this link: https://www.designlights.org

Performance Summary

Efficacy up to: 103 l/pw

Sizes: 14" Wide & "up to" 40" Long & 4" thickness

Watts: 30W, 60W, 90W, 120W, 150W, 180W, 210W, 240W, 270W, 300W

Lumens up to: 26,650 Lumens

CCT: 4000K, 5000K

CRI: 80

Dimming: 0-10vac

Operating Temp: -40 - +55C / 10-95RH

Input Voltage: AC 100-277V / 347-480vac optional

Beam Option: Type 1 (M), Type2 (M* M/W VER), Type3 (L)

Warranty: 10 Yrs.

Fidelux

Fidelux

FSLX Series Specification Summary

DATA SOURCE										
Product Number	FSLX-30W	FSLX-60W	FSLX-90W	FSLX-120W	FSLX-150W	FSLX-180W	FSLX-210W	FSLX-240W	FSLX-270W	FSLX-300W
Module (14 LED's per Module)	1x14	2x14	3x14	4x14	5x14	6x14	7x14	8x14	9x14	10x14
Efficacy l/pw Nominal	99 l/pw	103 l/pw	112	85 l/pw	85 l/pw	85 l/pw	85 l/pw	85 l/pw	85 l/pw	85 l/pw
Input Power: Watts	34.10	63.73	98.64							
Lumens @ 4000K	3276	6400	8300	10,500	13,300	15,800	18,460	20,300	23,000	25,560
Lumens @ 5000K	3376	6565	8440	10,660	13,325	16,000	18,560	21,320	24,000	26,650
Regulatory & Voluntary Qualifications	UL	UL	UL	UL	DUL	UL	UL	DUL	UL	UL
CRI	80	80	80	80	80	80	80	80	80	80
Output Amps	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA
Power Factor @ 120VAC	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95	>0.95
THD @ 120VAC	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
CCT/Kelvin Temp Options	40/50 Kelvin									
Dimming	0-10v									
Beam Options										
Input Voltage Options	100-277VAC / 347-480VAC optional 50/60Hz									
IP Rating	IP65									
L70 Lifetime Hours	100,000+ Hours (TM21 calculated)									
Ambient Working Temp	-40°C to +50°C / 10-95RH									
Total Weight	15.65lbs	17.85lbs	19.18lbs	20.94lbs	22.26lbs	26lbs	27.77lbs	29.10lbs	30.64lbs	32.40lbs
Limited Warranty	10 Yrs.									

Notes   Values are nominal unless noted +/- 5%
Specifications change without notice

FSLX Series Product Ordering Guide

Example: FSLX-120W-A2M-40K-UNV-D-PM-BZ

Product	Beam Option	CCT	Voltage	Controls & Dimming	Mounting Options	Finish
FSLX-30W	A2M (Type 2 beam medium)	40K (4000K)	UNV (100-277vac) STD	D (0-10v dim) STD	PM (Standard pole mount / Wall mount)	BZ (Bronze)
FSLX-60W	A2M (Type 2 medium/ wide vertical)	50K (5000K)	H (347-480vac)	PC (120-277v only)	AM (Adjustable pole mount 90 degree)	GR (Grey)
FSLX-90W	A3L (Type 3 long)					WH (White)*
FSLX-120W	A3M (Type 3 medium)					BL (Black)*
FSLX-150W	A4 (Type 4)					
FSLX-180W	S1M (Type 1 medium)					
FSLX-210W						
FSLX-240W						
FSLX-270W						
FSLX-300W						

* = Special order (cost adder & longer lead times)

Factory Installed Options

PC	Photocell 100-277v only
PM	Pole mount adapter (2-3/8" OD) see picture below
AM	Adjustable pole mount adapter (2-1/4" heavy Inside Diameter) see picture below

AM (Adjustable Pole Mount)
(Small pipe coupler is provided)

0-90 Degree

PM
(Pole Mount / Wall mount)

Fidelux

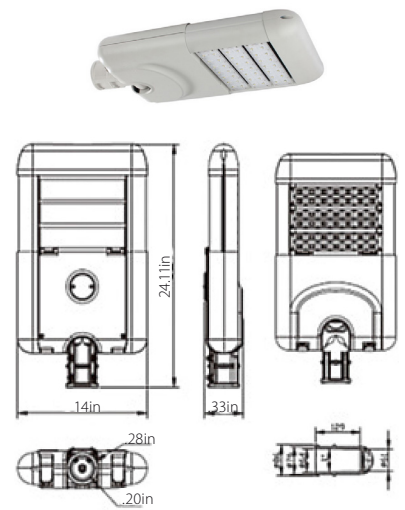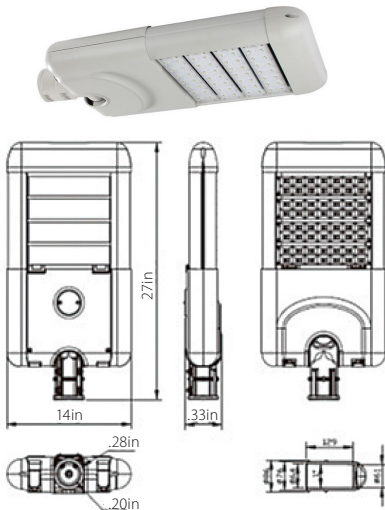## FSLX Series Design Details & Photometry

FSLX-30W
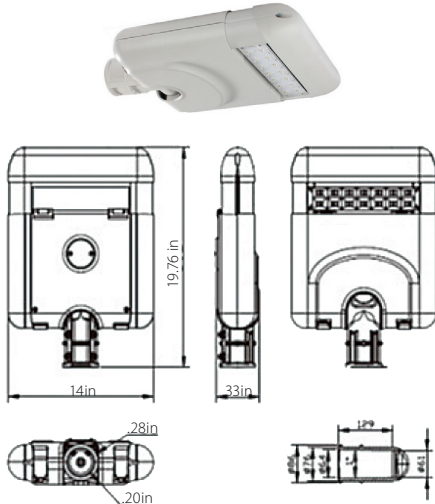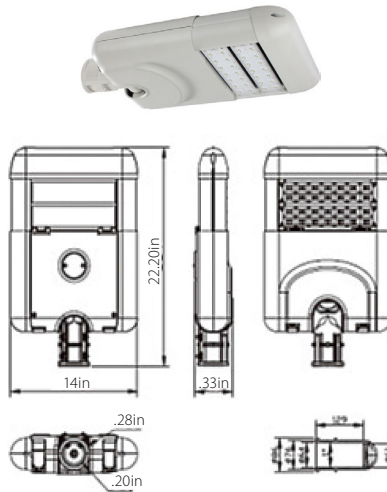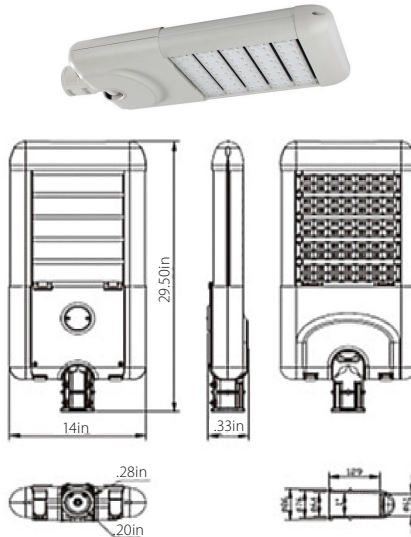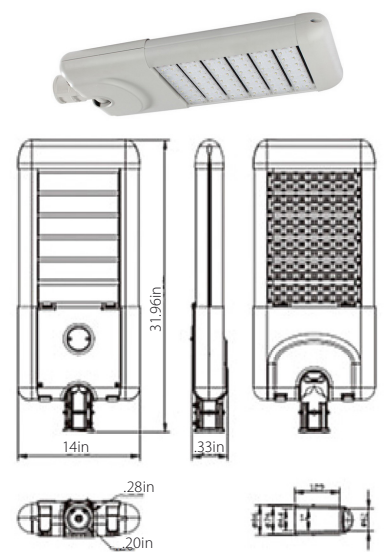
19.76 in
14in
.33in
.28in
.20in
1.29

FSLX-60W

22.20in
14in
.33in
.28in
.20in
1.29

FSLX-90W

24.1in
14in
.33in
.28in
.20in
1.29

FSLX-120W

27in
14in
.33in
.28in
.20in
1.29

FSLX-150W

29.50in
14in
.33in
.28in
.20in
1.29

FSLX-180W

31.96in
14in
.33in
.28in
.20in
1.29

Fidelux

FSLX Series Design Details & Photometry

FSLX-210W

34.40in
14in
33in
.28in
.20in

FSLX-240W

36.85in
14in
33in
.28in
.20in

FSLX-270W

39.29in
14in
33in
.28in
.20in

FSLX-300W

41.73in
14in
33in
.28in
.20in
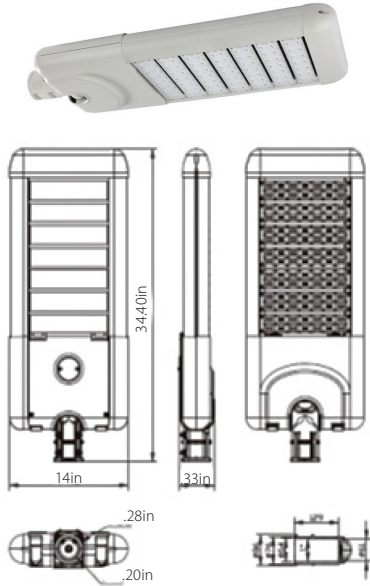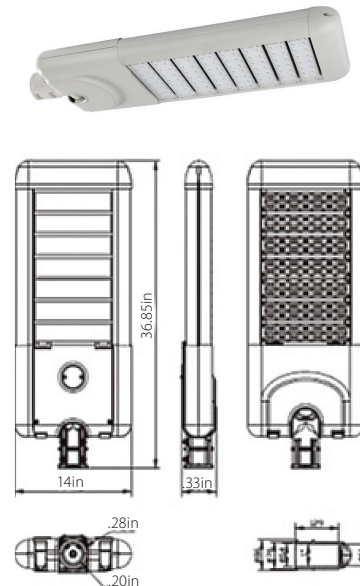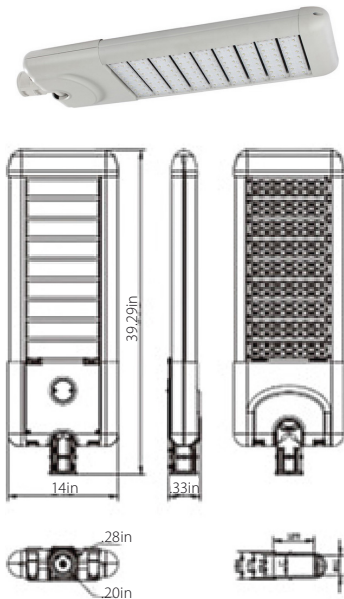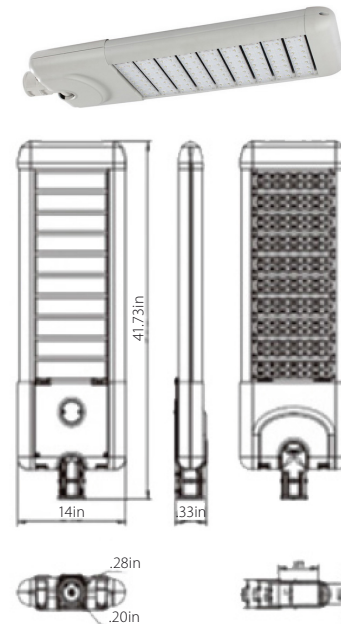
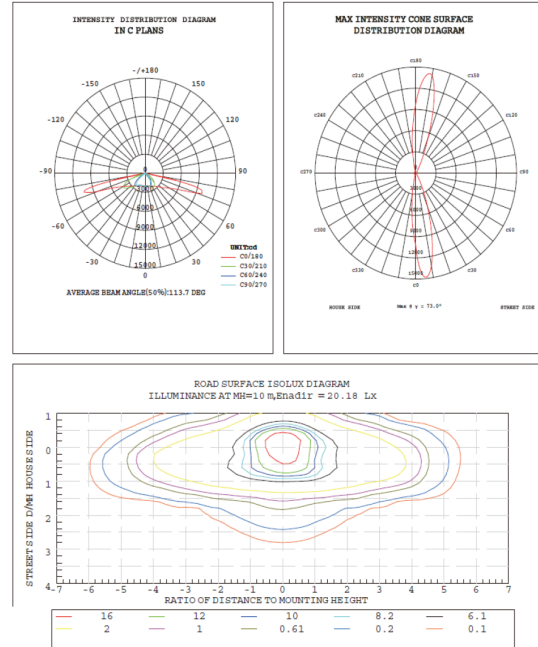# FSLX Series Design Details & Photometry

Photometry
FSLX-120W-****-40K-UNV-D-PM-BZ (all beams)
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08.
IESNA LM-79-08 specifies the entire luminance as the source resulting in a luminaire efficiency of 100%.
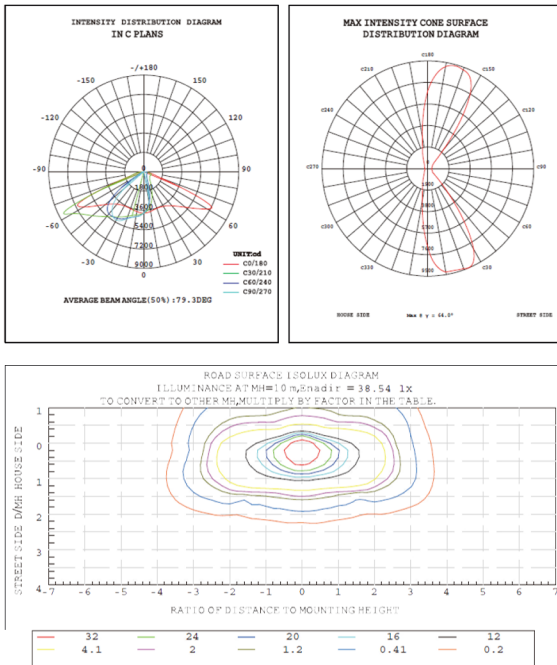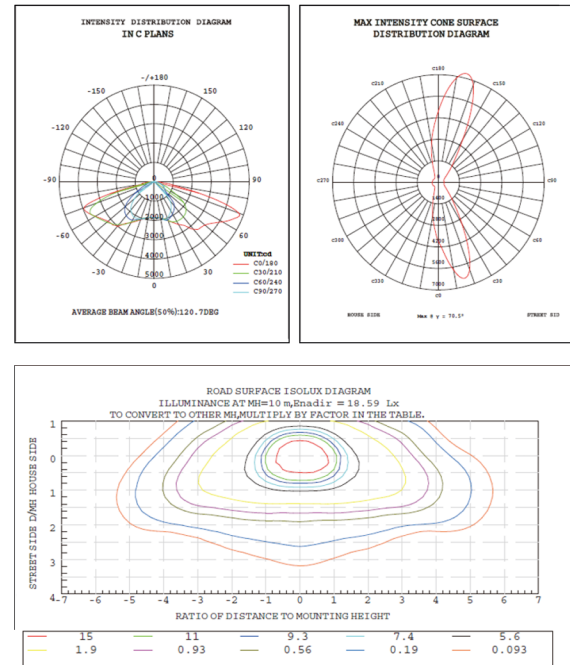

Type I Medium
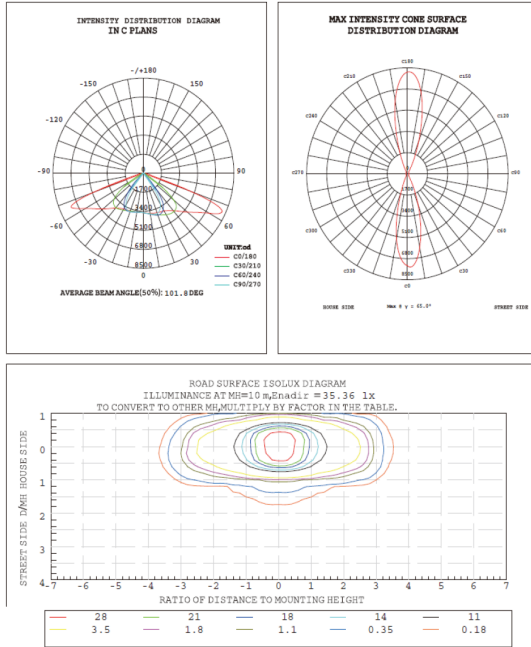
Type II Medium

Type II Medium

Type III Long

FSLX Series Installation Instructions

WARNING: If outer flexible cable or cord of luminaire are damaged, only manufacturer, its agent, or eligible people can replace them to avoid accident.
STATEMENT: The optics radiation of this LED lighting products comply with "exemption level" requirements in IEC62471-2006
WARNING: Luminaire can not be directly installed on the surface of ordinary flammable material in any circumstance.

1. Press down the snap outwards to spring it open, and unscrew the screws on the cover by opposite side 4mm inner hexagonal spanner.

2. If input wire is enclosed, refer to installation picture 1, if not, refer to installation picture 2. Installation picture 1: if enclosed, connect the power wire with retention wire, then make insulation and water-proof processing. Please look at detail A at the wiring place. Then insert the lamp arm into the pole. Installation picture 2: if not enclosed, make power wires inside the pole pass through the arm and cable fixed head, then insert the lamp arm into the pole. Please look at detail B at the wiring place.

3. After balancing the lamp's position, use inner hexagonal spanner to lock M10 fastening screw on the arm by more than 8.5N, M, torque. Adjust tilt by elevation screws, then lock cable fixed head.

4. Close the cover and press down heavily, wrench the snap inside until tightened, then use opposite side 4mm inner hexagonal spanner to lock the screws on the cover.

Note: IF the beam angle can not meet requirement, just unlock two elevation screws with inner hexagonal spanner. Adjust lamp's elevation angle as customer requested (normally 0-20° tilt), then lock M10 screw.

Install on the pole of the road or the street.

Note: If A2 and other lenses (non-symmetrical lighting) angle 0-20°.
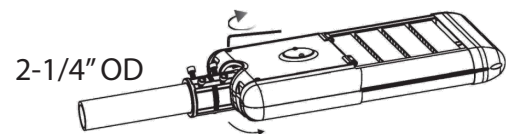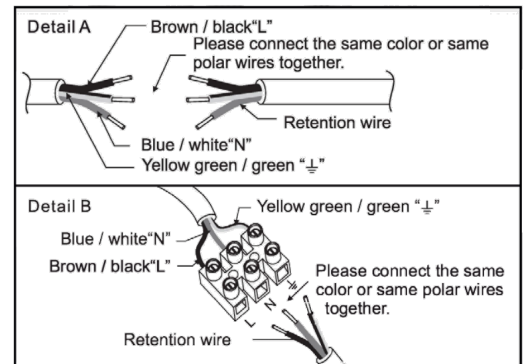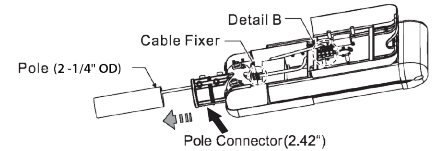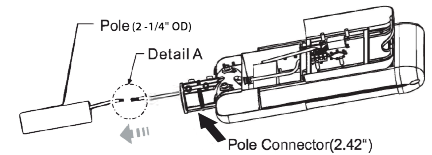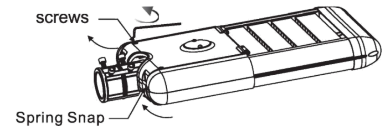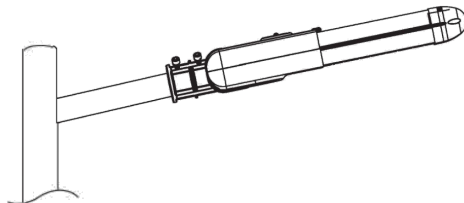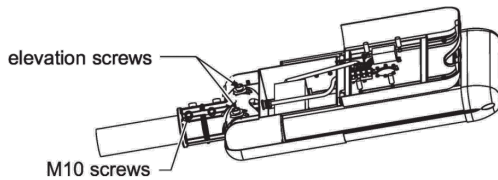
FSLX Series Installation Instructions

Light Controller Installation Instructions

1. Remove the lamp on the back of the light control waterproofing cover, exposing light controller installation holes reserved holes.

2. Lock the bottom of light-sensitive controller with the M4*25 cross screws into the reserve hole.

3. Insert the light-sensitive controller after aligning top and bottom holes, and then rotated as the arrows indicate, the top and bottom of the light-sensitive controller can be locked.

4. Press down the snap outwards to spring it open, and unscrew the screws on the cover by opposite side 4mm inner hexagonal spanner.

5. The wiring diagram (see wiring diagram)

Wiring Diagram

light control waterproofing cover

bottom of light-sensitive controller — M4 * 25 cross screws

The top of the light controller rotate as the arrow indicate