



OVERVIEW

The FSTA delivers high efficient, long life and low maintenance. The smooth self-clean low EPA modern design has no visible heat sink. Optics integrated into the clear acrylic lens are designed for optimal light distribution. This reliable unit has a 100,000 hour design life, significantly reducing maintenance needs and expense compared to traditional HID fixture.

APPLICATIONS

The FSTA LED Roadway Luminaire is optimized for customers requiring a LED solution for local, collector and major roadways.

FEATURES

- Superior optical distribution
- Non-finned Self-cleaning housing
- Tool-less entry for easy installation
- ANSI C136.41 7-Pin receptacle included
- Best-in-class 3g vibration rating
- Available in IES Type II, III and IV distributions



Project:

Type:

Prepared By:

Date:

Models	Lumen*	Efficacy	Models	Lumen*	Efficacy
FSTA03	4,379	139	FSTA10	14,396	142
FSTA04	5,596	137	FSTA11	15,412	140
FSTA05	6,854	134	FSTA12	15,989	133
FSTA06	8,025	130	FSTA14	17,395	129
FSTA07	9,161	129	FSTA15	19,528	128
FSTA08	9,571	128	FSTA17	21,355	127



* Lumen based on 4000K

Technical Specifications

Warranty

Paclights warrants these LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. Please refer to our full warranty.

Qualifications

UL Listing

E473037

IESNA LM79 & LM-80 Testing

Paclights LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80

DLC Qualification

Selected models of this product are on the Design Lights Consortium (DLC) Qualified Products List and are eligible for rebates from DLC Member Utilities. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/gpl.

Construction

IP Rating

Ingress Protection rating of IP65 for dust and water

Ambient Temperature

Suitable for up to 122° F (50° C) ambient temperature

Cold Weather Starting

The minimum starting temperature is -22 F° (-30° C)

Housing

Die-cast aluminum housing

Mounting

Fits most standard roadway upsweep arms. 4-Bolt mount bracket supplied fits 1" to 2-3/8" OD pipe arms. Fixture can be tilted at the angles(degree): -5, -2.5, 0, 2.5 and 5

LED Characteristics

Lifespan

100,000-hour LED Lifespan based on IES LM-80 results and TM-21 calculations.

Color Temperature

2700K / 3000K / 4000K / 5000K

Color Rendering Index

CRI > 72

Construction (continue)

Gaskets

Silicon Gaskets

Finish

Our environmentally friendly polyester powder coating are formulated from high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Lens

Clear acrylic lens with integrated optics

ANSI C136.41 Receptacle

7-Pin Receptacle with Short-cap

Driver

Input Voltage AC100-277V, 50/60 Hz
or AC 200-480V, 50/60 Hz
(on FSTA10/11/12/14/15/17 HV models)

0-10v dimmable LED drivers provides smooth and continuous dimming.

Power Factor: >0.9; THD < 10%

Wattage: 30w, 40w, 50w, 60w, 70w, 75w

100w, 110w, 120w, 135w, 150w, 165w

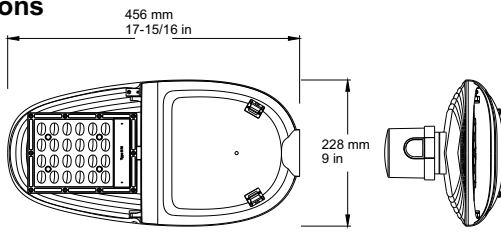
Surge Protector: Driver 6kA + Secondary 10kA

Ordering Matrix

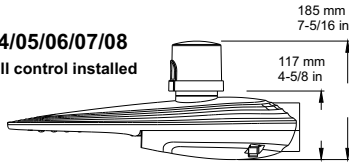
Family	Models	Color Temperature	Voltage	Light Distribution	Housing Color	Optional Addons ⁴
FSTA						
	03 30W	10 100W	27 2700K	LV 100-277v	T2 IES Type II	GR Roadway Gray
	04 40W	11 110W	30 3000K	HV ¹ 200-480v	T3 ² IES Type III	XX ³ Other Color
	05 50W	12 120W	40 4000K		T4 ² IES Type IV	[blank] No options
	06 60W	14 135W	50 5000K			PS Twistlock Photocell w/Daylight Harvesting
	07 70W	15 150W				MS ¹ Motion Sensor
	08 75W	17 165W				

Note ¹ FSTA10/11/12/14/15 models only
² extra cost may apply
³ special order only, extra cost may apply
⁴ extra cost apply

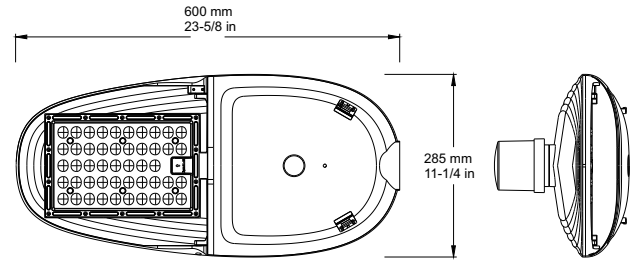
Dimensions



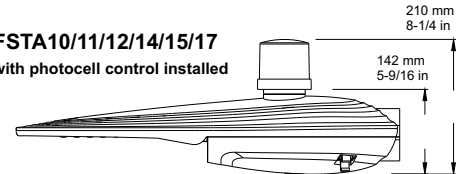
FSTA03/04/05/06/07/08
with photocell control installed



Weight 7.2 lbs
EPA 0.68



FSTA10/11/12/14/15/17
with photocell control installed



Weight 10.2 lbs
EPA 1.0

Performance

	FSTA03			FSTA04			FSTA05		
	2700K	3000K	4000K	2700K	3000K	4000K	2700K	3000K	4000K
CCT									
Lumens	3900	4317	4379	5200	5451	5596	6500	6686	6854
Efficacy (lm/W)	130	135	139	130	134	137	130	131	134
Color Accuracy (CRI)	80	72	72	80	72	72	80	72	72

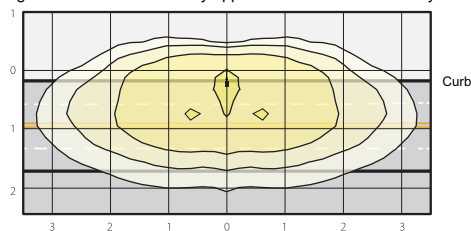
	FSTA06			FSTA07			FSTA08		
	2700K	3000K	4000K	2700K	3000K	4000K	2700K	3000K	4000K
CCT									
Lumens	7500	7891	8025	8750	8909	9161	9000	9281	9571
Efficacy (lm/W)	125	127	130	125	126	129	120	125	128
Color Accuracy (CRI)	80	72	72	80	73	73	80	73	73

	FSTA10			FSTA11			FSTA12		
	2700K	3000K	4000K	2700K	3000K	4000K	2700K	3000K	4000K
CCT									
Lumens	13000	14054	14396	14300	15030	15412	15000	15607	15989
Efficacy (lm/W)	130	139	142	130	136	140	125	129	133
Color Accuracy (CRI)	80	72	72	80	73	73	80	73	73

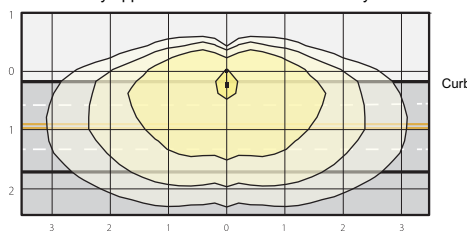
	FSTA14			FSTA15			FSTA17		
	2700K	3000K	4000K	2700K	3000K	4000K	2700K	3000K	4000K
CCT									
Lumens	16875	16999	17395	18000	19036	19528	19800	20765	21355
Efficacy (lm/W)	125	126	129	120	125	128	120	124	127
Color Accuracy (CRI)	80	73	73	80	73	73	80	73	73

IES Light Distribution

TYPE II placed on the side of the roadway or edge of the area to be lighted. It produces a long, narrow, oval-shaped lighted area which is usually applicable to narrower roadways



TYPE III placed on the side of the roadway or edge of the area to be lighted. It produces an oval-shaped lighted area and is usually applicable to medium width roadways



TYPE IV placed at one corner of the intersection and distributes a wider, oval-shaped light along the four legs of the intersection.

