



The
FALCTM
Series

Field-adjustable lumen output
LED Area Light





field-adjustable lumen output
LED Area Light

PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____



KEY FEATURES
Field-adjustable lumen/wattage standard on all models
Standard Secondary Surge Protector
NEMA Twist-lock Control Receptacle and Short Cap included
Multiple Mounting options
Optional Bi-level motion control



TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

UL 1598 Suitable for wet locations

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.design-lights.org/qpl

LED CHARACTERISTICS

LEDS

Long-life, high-efficacy, surface-mount LEDs

Lifespan

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

Color Rendering Index

>70

Color Uniformity

PacLights' range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

OTHER

5-Year Limited Warranty**

The PacLights 5-year, limited warranty covers light output, driver performance and paint finish.

**PacLights's warranty is subject to all terms and conditions found at paclights.com/warranty

CONSTRUCTION

IP Rating

Ingress Protection rating of IP65 for dust and water

Ambient Temperature

Suitable for 50° C (122° F) ambient temperature, minimum starting -40 F°/-40° C

Housing

Die-cast aluminum housing; stainless steel external hardware; silicone gasket.

Mounting Methods

2-3/8" Slipfitter mount, Trunnion mount, Pole mount (for round or square pole)

Green Technology

Mercury and UV free, and RoHS compliant.

Lens

Polycarbonate.

ELECTRICAL

Drivers

0-10V dimming

Input Voltage: 120-277v AC (-UV models) or 480v AC (-HV models), 50-60 Hz

Power Factor > 0.95; THD < 20%

Wattage can be adjusted to:

- 80w / 100w / 120w / 150w on FALC/2-150 models
- 170w / 200w / 220w / 240w on FALC/2-240 models
- 240w / 260w / 280w / 310w on FALC/2-310 models

Input Current: FALC/2-150: 1.4A (120v); 0.7A (240v); 0.65A (277v); 0.35A (480v).

FALC/2-240: 2.3A (120v); 1.2A (240v); 1A (277v); 0.6A (480v).

FALC/2-310: 2.9A (120v); 1.5A (240v); 1.3A (277v); 0.8A (480v).

Secondary Surge Protector

10kV (in addition to LED driver's integrated lightning arrester)

Control Receptacle

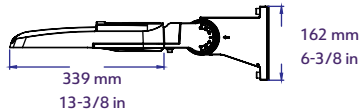
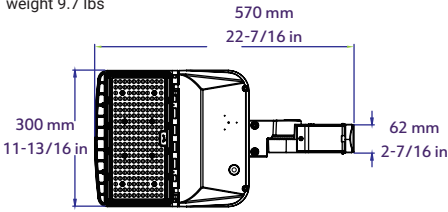
NEMA 7-pin twist-lock receptacle with short-cap. Compatible with ANSI C136.1 twist-lock photocell, or C136.41 0-10v 5 or 7-pin twist-lock dimming controls.

TECHNICAL SPECIFICATIONS Continued

FALC/2 - 150

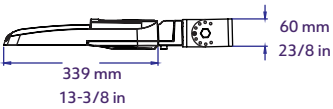
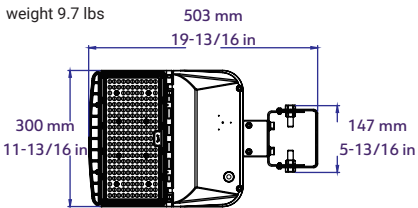
with adjustable arm mount

weight 9.7 lbs



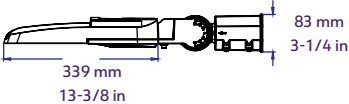
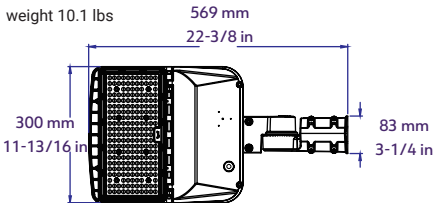
with trunnion mount

weight 9.7 lbs



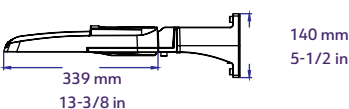
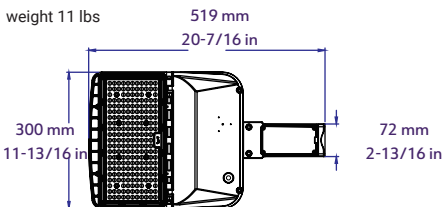
with slipfitter mount

weight 10.1 lbs



with arm mount

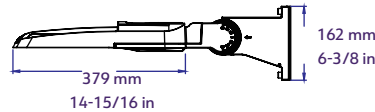
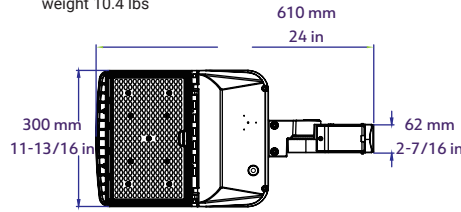
weight 11 lbs



FALC/2 - 240

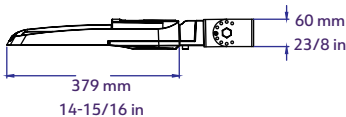
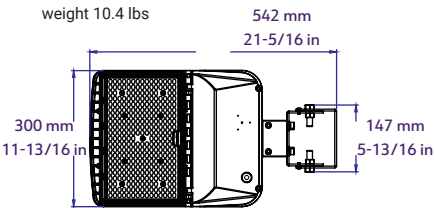
with adjustable arm mount

weight 10.4 lbs



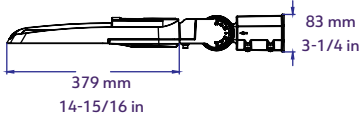
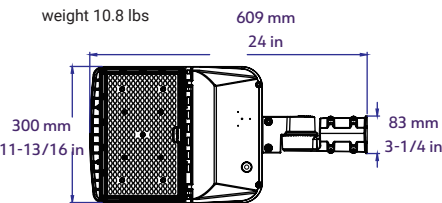
with trunnion mount

weight 10.4 lbs



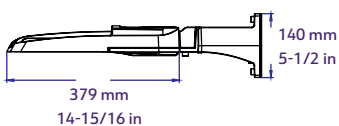
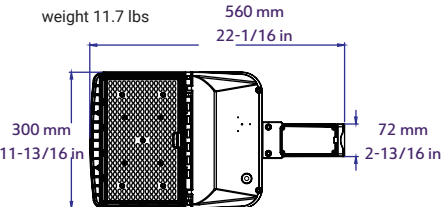
with slipfitter mount

weight 10.8 lbs



with arm mount

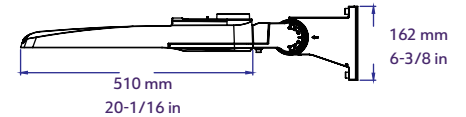
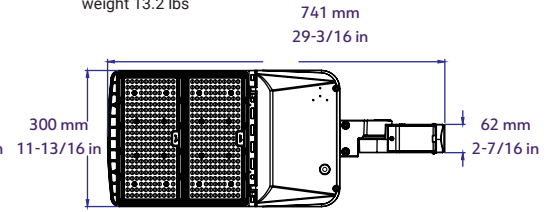
weight 11.7 lbs



FALC/2 - 310

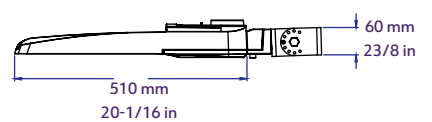
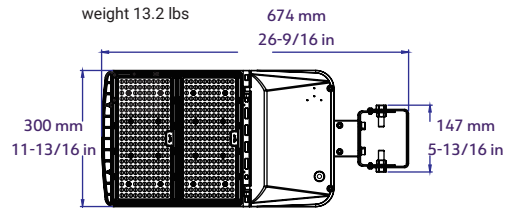
with adjustable arm mount

weight 13.2 lbs



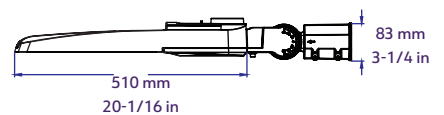
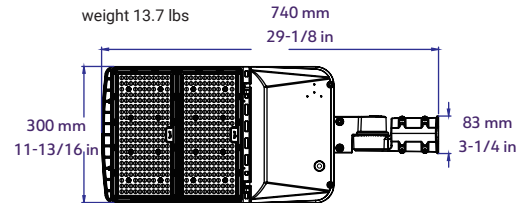
with trunnion mount

weight 13.2 lbs



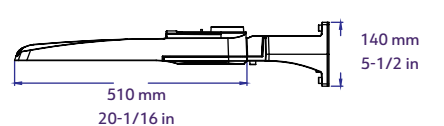
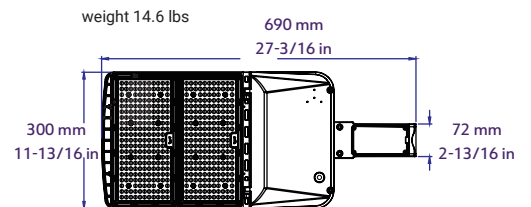
with slipfitter mount

weight 13.7 lbs



with arm mount

weight 14.6 lbs



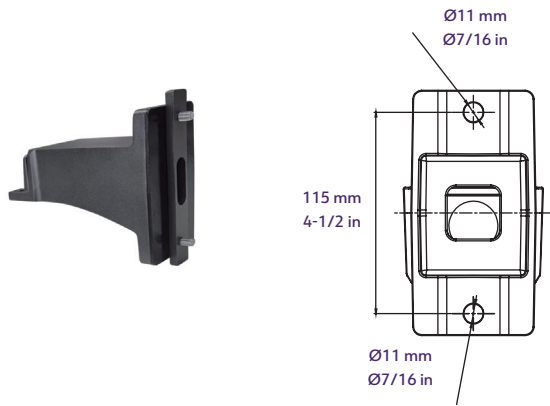
TECHNICAL SPECIFICATIONS Continued

EPA Chart

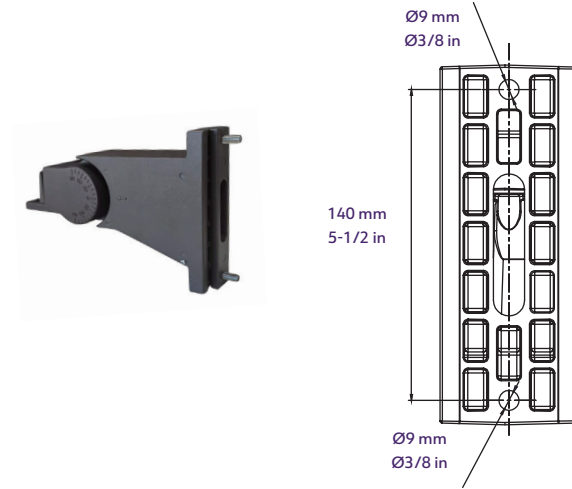
Pole Mount	Tilt	Single	Dual at 90°	Dual at 180°	Triple at 90°	Triple at 120°	Quad at 90°	Dual side by side	Triple side by side	Quad side by side
FALC/2-150	0°	0.23	0.41	0.42	0.60	0.54	0.80	0.46	0.69	0.91
	10°	0.18	0.35	0.35	0.53	0.46	0.69	0.35	0.53	0.71
	20°	0.17	0.34	0.34	0.51	0.44	0.67	0.34	0.52	0.69
	30°	0.21	0.37	0.39	0.54	0.48	0.74	0.42	0.64	0.85
	40°	0.27	0.40	0.45	0.58	0.55	0.80	0.54	0.81	1.08
	45°	0.30	0.42	0.50	0.60	0.58	0.83	0.61	0.91	1.21
	50°	0.45	0.61	0.72	0.87	0.85	1.21	0.89	1.34	1.79
	60°	0.73	0.99	1.19	1.41	1.39	1.96	1.47	2.20	2.94
	70°	0.95	1.38	1.57	1.96	1.90	2.74	1.90	2.86	3.81
	80°	1.13	1.71	1.89	2.45	2.36	3.40	2.26	3.40	4.53
	90°	1.28	1.99	2.18	2.86	2.77	3.96	2.57	3.85	5.14
FALC/2-240	0°	0.25	0.44	0.46	0.65	0.58	0.87	0.50	0.75	0.99
	10°	0.19	0.38	0.38	0.57	0.50	0.75	0.38	0.58	0.77
	20°	0.19	0.37	0.37	0.55	0.48	0.73	0.37	0.56	0.75
	30°	0.23	0.40	0.43	0.59	0.53	0.80	0.46	0.69	0.92
	40°	0.29	0.44	0.49	0.63	0.60	0.87	0.59	0.88	1.17
	45°	0.33	0.45	0.54	0.66	0.63	0.90	0.66	0.99	1.32
	50°	0.49	0.66	0.79	0.95	0.93	1.31	0.97	1.46	1.94
	60°	0.80	1.08	1.29	1.54	1.51	2.13	1.60	2.39	3.20
	70°	1.04	1.50	1.70	2.13	2.07	2.97	2.07	3.11	4.14
	80°	1.23	1.86	2.05	2.66	2.57	3.70	2.46	3.69	4.92
	90°	1.39	2.16	2.37	3.11	3.01	4.30	2.79	4.19	5.58
FALC/2-310	0°	0.35	0.62	0.64	0.91	0.82	1.21	0.69	1.04	1.39
	10°	0.27	0.54	0.53	0.80	0.69	1.06	0.54	0.81	1.08
	20°	0.26	0.52	0.52	0.77	0.67	1.02	0.52	0.79	1.05
	30°	0.32	0.56	0.60	0.83	0.74	1.12	0.64	0.97	1.29
	40°	0.41	0.61	0.68	0.88	0.84	1.21	0.82	1.23	1.64
	45°	0.46	0.63	0.76	0.92	0.89	1.26	0.92	1.38	1.85
	50°	0.68	0.93	1.10	1.32	1.30	1.84	1.36	2.04	2.72
	60°	1.12	1.51	1.81	2.15	2.12	2.99	2.24	3.35	4.47
	70°	1.45	2.09	2.38	2.99	2.90	4.16	2.90	4.35	5.79
	80°	1.72	2.60	2.88	3.72	3.60	5.18	3.44	5.17	6.89
	90°	1.95	3.02	3.32	4.35	4.22	6.03	3.91	5.86	7.82

TECHNICAL SPECIFICATIONS Continued

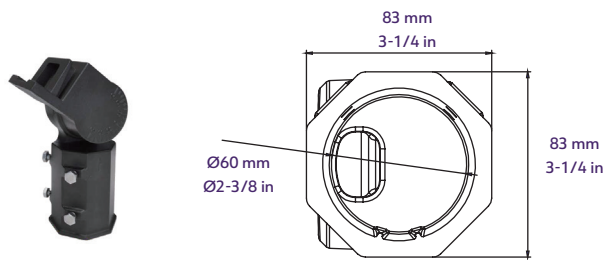
Arm Mount (for square or round pole)



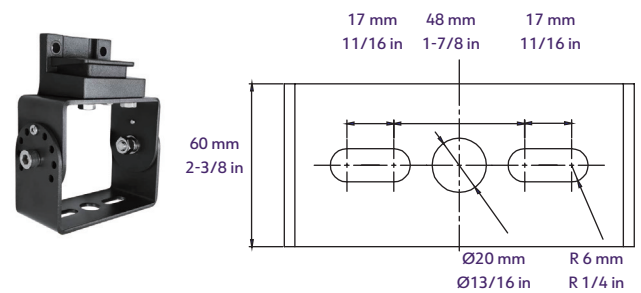
Adjustable Arm Mount (for square or round pole)



Slipfitter Mount

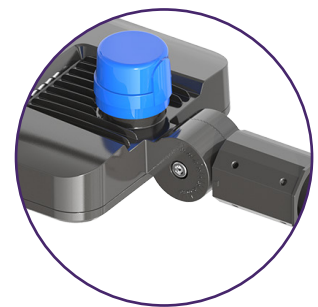
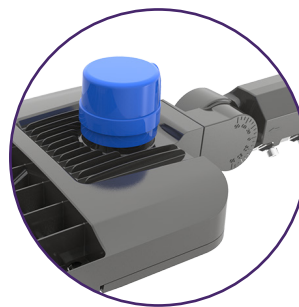
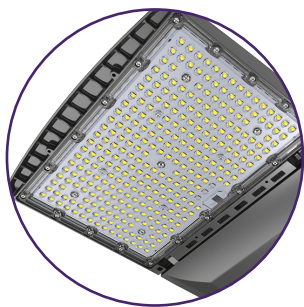


Trunion Mount



FINISHES

standard dark bronze



FIELD ADJUSTABLE Standard

SURGE PROTECTION Standard

FIELD ADJUSTABLE LUMEN OUTPUT/WATTAGE



Select the desired output power by sliding the respective Wattage Selection Dip Switches left or right to the desired value, for different lumen outputs. Lumen Output can be changed before, during and after installation.

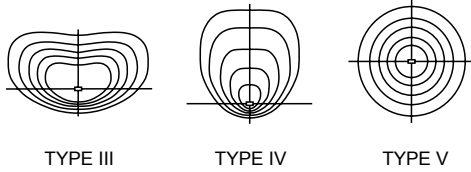


Secondary surge protector can act as the second line of defense, in addition to the LED driver's integrated lightning arrester.

PHOTOMETRIC OPTIONS

OPTICS (-T3/-T4/-T5)

For different application needs, FALC offers optics options including type III, type IV and type V light distributions defined by Illuminating Engineering Society of North America (IESNA) classification system for light distribution patterns.



Standard: IES Type III distribution (T3), which is used to provide a larger area of lighting from a position along the perimeter of where lighting is required, or parking lots.

Optional: IES Type IV distribution (T4) will illuminate sides of building façades, walls.

Optional: IES Type V distribution (T5) is perfect for general area lighting.

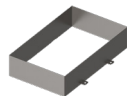
BUG Rating / Wattage	IES Type	B	U	G
		backlight	uplight	glare
80/100/120W	III	3	0	3
	IV	3	0	2
	V	3	0	1
150/170W	III	3	0	3
	IV	3	0	3
	V	4	0	2
200-310W	III	4	0	4
	IV	4	0	3
	V	5	0	2

GLARE SHIELDS (-HG/-FG)

For residential, tourist and conservation areas, facilities must be able to install lighting systems that avoid unwanted illumination onto adjacent properties. PacLights engineered optical systems include glare shield that control light and distribute it on the task at hand to limit light trespass. This allows facilities to install luminaires and poles where they are needed for maximum effectiveness.



Half Glare Shield (-HG)



Full Glare Shield (-FG)



CONTROLS Optional

PHOTOCONTROLS (-PS/-DL/-DM)

PacLights advanced electronic **SE-TLP Series** Photocontrol provides a unique, durable, and multi-volt control especially designed for 15 years of operation. It utilises inter-locking base/cap design for excellent environmental housing. High temperature base material, along with a UV stabilised, opaque housing ensure our control will last years without degradation. PacLights uses a process of IR filtering a phototransistor which in turn gives a human eye response along with long-term, drift free light sensing for the life of the control.



- Multi-volt operation
- Daylight harvesting models
- Mid-Night dimming models
- High-temperature components
- MOV surge protection
- Meets or exceeds ANSI C136.10

for detail refer to **SE-TLP Series** specification

BI-LEVEL MOTION CONTROL (-MC)



Motion control detect motions and contains a signature 3-step dimming function, which is perfect for areas that require a light change notice totally switching off the light. Control parameters are adjustable on the sensor, or by an optional wireless commissioning device.



PERFORMANCE

FALC/2 - 150

Output wattage field-adjustable to 80w/100w/120w/150w

80W	4000K Neutral	5000K Daylight	100W	4000K Neutral	5000K Daylight	120W	4000K Neutral	5000K Daylight	150W	4000K Neutral	5000K Daylight
LUMENS	12,080	12,240	LUMENS	15,100	15,300	LUMENS	18,000	18,240	LUMENS	22,350	22,650
LM/W	151	153	LM/W	151	153	LM/W	150	152	LM/W	149	151

FALC/2 - 240

Output wattage field-adjustable to 170w/200w/220w/240w

170W	4000K Neutral	5000K Daylight	200W	4000K Neutral	5000K Daylight	220W	4000K Neutral	5000K Daylight	240W	4000K Neutral	5000K Daylight
LUMENS	25,500	25,840	LUMENS	30,000	30,400	LUMENS	33,000	33,440	LUMENS	35,760	36,240
LM/W	150	152	LM/W	150	152	LM/W	150	152	LM/W	149	151

FALC/2 - 310

Output wattage field-adjustable to 240w/260w/280w/310w

240W	4000K Neutral	5000K Daylight	260W	4000K Neutral	5000K Daylight	280W	4000K Neutral	5000K Daylight	310W	4000K Neutral	5000K Daylight
LUMENS	36,000	36,480	LUMENS	39,000	39,520	LUMENS	42,000	42,560	LUMENS	46,190	46,810
LM/W	150	152	LM/W	150	152	LM/W	150	152	LM/W	149	151

ORDERING INFORMATION

FALC™ generation 2

Family	Model	Input Voltage	CCT	Optics	Finish	Options
FALC/2	<p>150 80w/100w/120w/150w wattage field-adjustable</p> <p>240 170w/200w/220w/240w wattage field-adjustable</p> <p>310 240w/260w/280w/310w wattage field-adjustable</p>	<p>UV 120-277v</p> <p>HV 277-480v</p>	<p>30 3000K</p> <p>40 4000K</p> <p>50 5000K</p>	<p>T3 IES Type III</p> <p>T4 IES Type IV</p> <p>T5 IES Type V</p>	<p>DB Dark Bronze</p> <p>WH White</p> <p>XX Special Order ¹</p>	<p>SF Slipfitter mount</p> <p>AM Arm mount (rd./sq. pole)</p> <p>AD Adjustable Arm (rd./sq. pole)</p> <p>TM Trunnion mount</p> <p>HG Half glare shield</p> <p>FG Full glare shield</p> <p>PS Photocell control</p> <p>DL Photocell + daylight harvesting dimming control</p> <p>DM Photocell + daylight harvesting + mid-night dimming control</p> <p>MC Bi-level motion control ²</p>

¹ min. qty required on special order housing color
² special order