The
FALC ™
Series

Field-adjustable lumen output
LED Area Light

FALC™ generation 2

PacLights

PROJECT:

DATE:

TYPE:

PREPARED BY:

field-adjustable lumen output
LED Area Light

C UL US LISTED — DLC LISTED PREMIUM — OUTPUT FIELD ADJUSTABLE — CONTROLS COMPATIBLE — SECONDARY SURGE PROTECTOR — MOTION CONTROL OPTION

5 YEAR WARRANTY

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 Specications 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 additional to LED driver's intergrated 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.

FALC™ generation 2

FIELD ADJUSTABLE Standard

FIELD ADJUSTABLE LUMEN OUTPUT/WATTAGE

OUTPUT FIELD ADJUSTABLE

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.

SURGE PROTECTION Standard

SECONDARY SURGE PROTECTOR

SECONDARY SURGE PROTECTOR

Secondary surge protector can act as the second line of defense, in addtional to the LED driver's intergrated 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.

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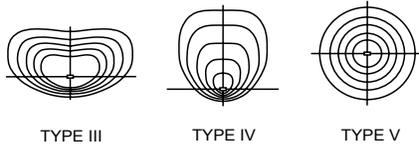
Standard: IES Type III distribution (T3), which is used to provide a larger area of lighting from a position along the perimeter of where lighting is required, or parking lots.

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 backlight	U uplight	G 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

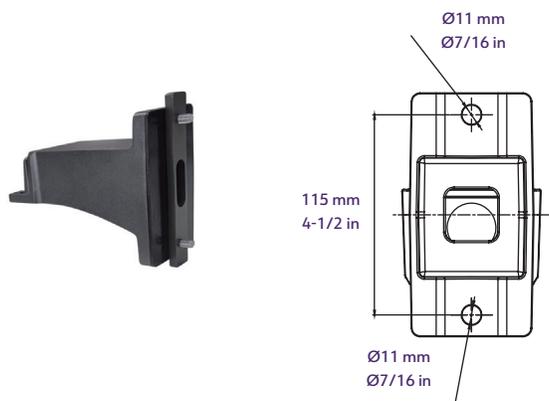### BI-LEVEL MOTION CONTROL (-MC)

MOTION CONTROL OPTION

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.
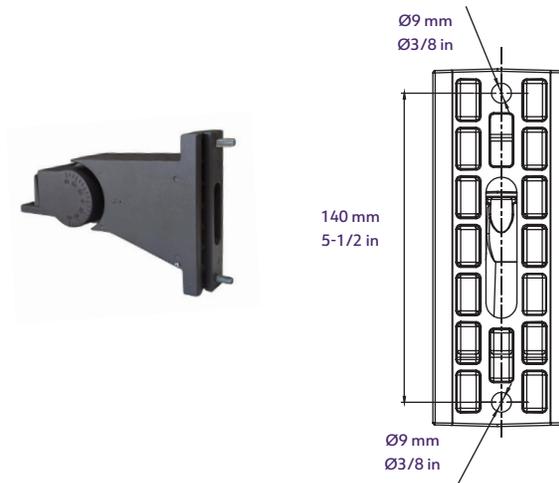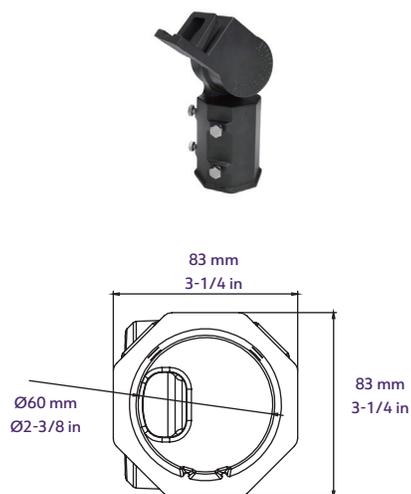
MOUNTS
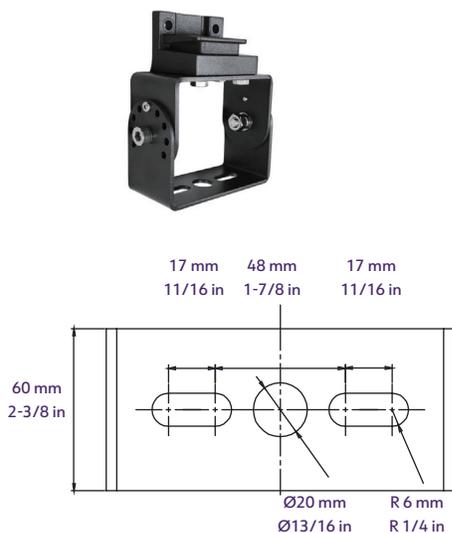
Arm Mount (for square or round pole)

Ø11 mm
Ø7/16 in

115 mm
4-1/2 in

Ø11 mm
Ø7/16 in

Adjustable Arm Mount (for square or round pole)

Ø9 mm
Ø3/8 in

140 mm
5-1/2 in

Ø9 mm
Ø3/8 in

Slipfitter Mount

83 mm
3-1/4 in

83 mm
3-1/4 in

Ø60 mm
Ø2-3/8 in

Trunnion Mount

17 mm
11/16 in

48 mm
1-7/8 in

17 mm
11/16 in

60 mm
2-3/8 in

Ø20 mm
Ø13/16 in

R 6 mm
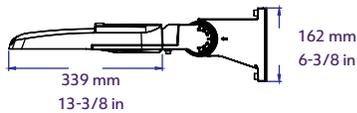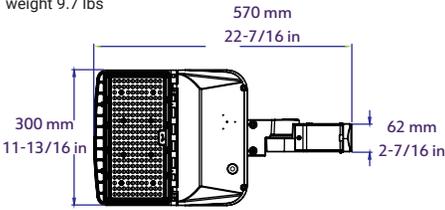R 1/4 in

Wall Mount

FALC™ generation 2

PacLights
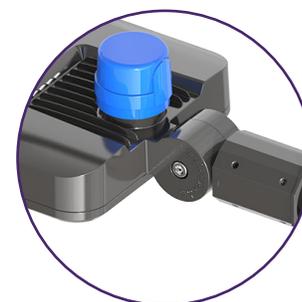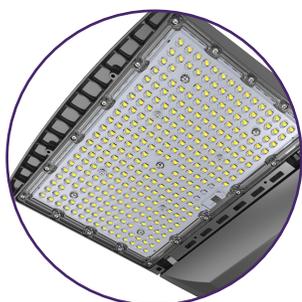
Dimensions
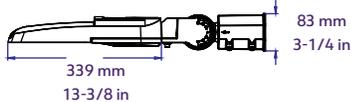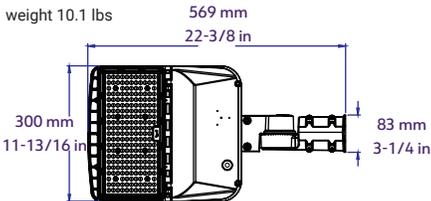
FALC/2 - 150

with adjustable arm mount
weight 9.7 lbs

570 mm
22-7/16 in

300 mm
11-13/16 in

62 mm
2-7/16 in

162 mm
6-3/8 in

339 mm
13-3/8 in

with trunnion mount
weight 9.7 lbs

503 mm
19-13/16 in

300 mm
11-13/16 in

147 mm
5-13/16 in

60 mm
23/8 in

339 mm
13-3/8 in

with slipfitter mount
weight 10.1 lbs

569 mm
22-3/8 in

300 mm
11-13/16 in

83 mm
3-1/4 in

83 mm
3-1/4 in

339 mm
13-3/8 in

with arm mount
weight 11 lbs

519 mm
20-7/16 in

300 mm
11-13/16 in

72 mm
2-13/16 in

140 mm
5-1/2 in

339 mm
13-3/8 in
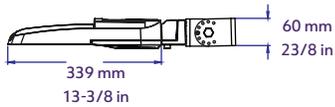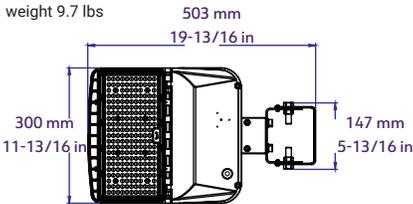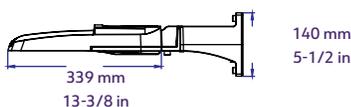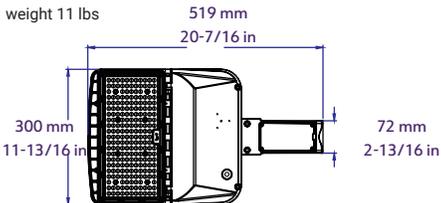
FALC/2 - 240

with adjustable arm mount
weight 10.4 lbs
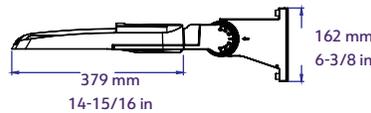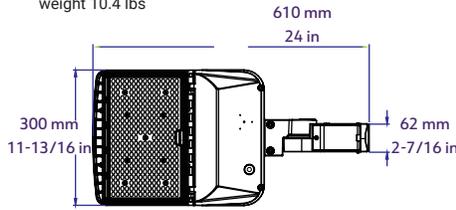
610 mm
24 in

300 mm
11-13/16 in

62 mm
2-7/16 in

162 mm
6-3/8 in

379 mm
14-15/16 in

with trunnion mount
weight 10.4 lbs

542 mm
21-5/16 in

300 mm
11-13/16 in

147 mm
5-13/16 in

60 mm
23/8 in

379 mm
14-15/16 in

with slipfitter mount
weight 10.8 lbs

609 mm
24 in

300 mm
11-13/16 in

83 mm
3-1/4 in

83 mm
3-1/4 in

379 mm
14-15/16 in

with arm mount
weight 11.7 lbs

560 mm
22-1/16 in

300 mm
11-13/16 in

72 mm
2-13/16 in

140 mm
5-1/2 in

379 mm
14-15/16 in
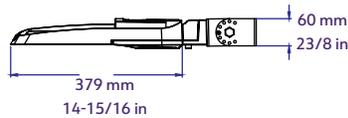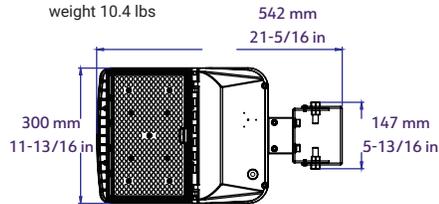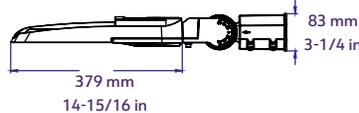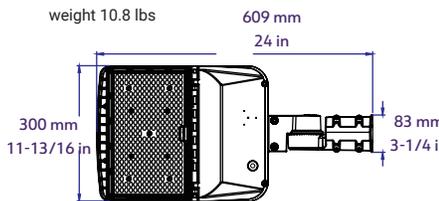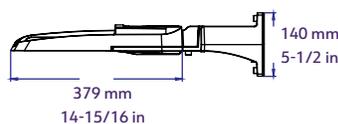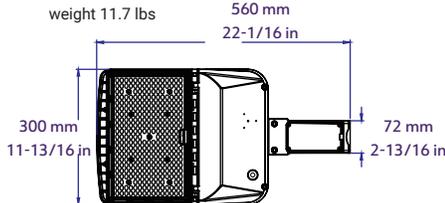
FALC/2 - 310

with adjustable arm mount
weight 13.2 lbs
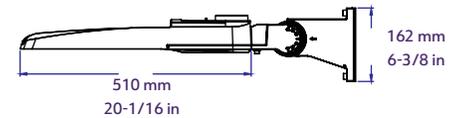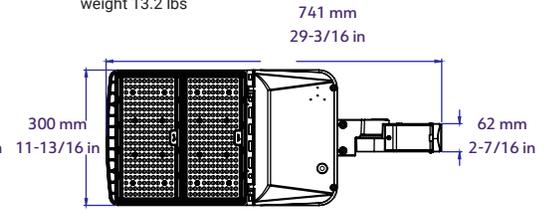
741 mm
29-3/16 in

300 mm
11-13/16 in

62 mm
2-7/16 in

162 mm
6-3/8 in

510 mm
20-1/16 in

with trunnion mount
weight 13.2 lbs

674 mm
26-9/16 in

300 mm
11-13/16 in

147 mm
5-13/16 in

60 mm
23/8 in

510 mm
20-1/16 in

with slipfitter mount
weight 13.7 lbs

740 mm
29-1/8 in

300 mm
11-13/16 in

83 mm
3-1/4 in

83 mm
3-1/4 in

510 mm
20-1/16 in

with arm mount
weight 14.6 lbs

690 mm
27-3/16 in

300 mm
11-13/16 in

72 mm
2-13/16 in

140 mm
5-1/2 in

510 mm
20-1/16 in
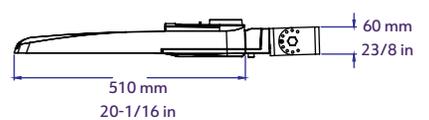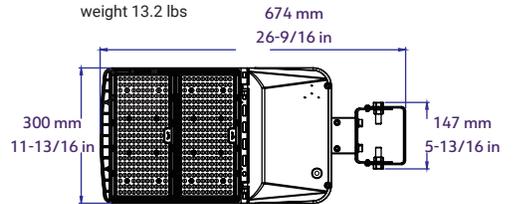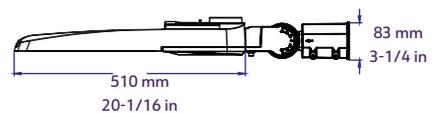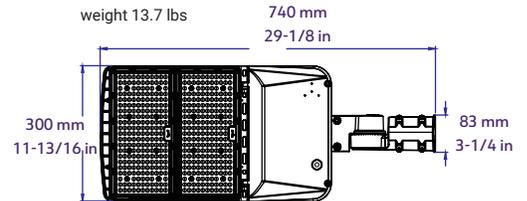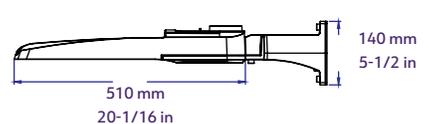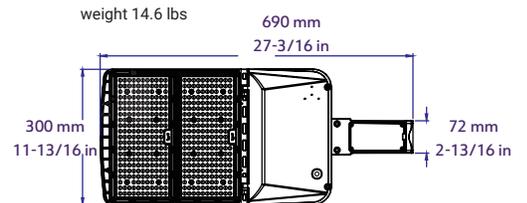
FINISHES	
standard	dark bronze

FALC™ generation 2

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

Need help? Tech help line: **(800) 988-6386** Email: **cs@PacLights.com** Website: **www.PacLights.com**

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PL_SPEC_FALC2_v2

FALC™ generation 2

PERFORMANCE

FALC/2 - 150
Output wattage field-adjustable to 80w/100w/120w/150w

80W	4000K Neutral	5000K Daylight
LUMENS	12,080	12,240
LM/W	151	153

100W	4000K Neutral	5000K Daylight
LUMENS	15,100	15,300
LM/W	151	153

120W	4000K Neutral	5000K Daylight
LUMENS	18,000	18,240
LM/W	150	152

150W	4000K Neutral	5000K Daylight
LUMENS	22,350	22,650
LM/W	149	151

FALC/2 - 240
Output wattage field-adjustable to 170w/200w/220w/240w

170W	4000K Neutral	5000K Daylight
LUMENS	25,500	25,840
LM/W	150	152

200W	4000K Neutral	5000K Daylight
LUMENS	30,000	30,400
LM/W	150	152

220W	4000K Neutral	5000K Daylight
LUMENS	33,000	33,440
LM/W	150	152

240W	4000K Neutral	5000K Daylight
LUMENS	35,760	36,240
LM/W	149	151

FALC/2 - 310
Output wattage field-adjustable to 240w/260w/280w/310w

240W	4000K Neutral	5000K Daylight
LUMENS	36,000	36,480
LM/W	150	152

260W	4000K Neutral	5000K Daylight
LUMENS	39,000	39,520
LM/W	150	152

280W	4000K Neutral	5000K Daylight
LUMENS	42,000	42,560
LM/W	150	152

310W	4000K Neutral	5000K Daylight
LUMENS	46,190	46,810
LM/W	149	151

ORDERING INFORMATION

FALC™ generation 2

Family	Model	Input Voltage	CCT	Optics	Finish	Options
FALC/2	—	—	—	—	—	—

Model
- **150** 80w/100w/120w/150w wattage field-adjustable
- **240** 170w/200w/220w/240w wattage field-adjustable
- **310** 240w/260w/280w/310w wattage field-adjustable

Input Voltage
- **UV** 120-277v
- **HV** 277-480v

CCT
- **40** 4000K
- **50** 5000K

Optics
- **T3** IES Type III
- **T4** IES Type IV
- **T5** IES Type V

Finish
- **DB** Dark Bronze
- **XX** Customized [1]

Options
- **SF** Slipfitter mount
- **AM** Arm mount (rd./sq. pole)
- **AD** Adjustable Arm (rd./sq. pole)
- **TM** Trunnion mount
- **WM** Wall mount
- **HG** Half glare shield
- **FG** Full glare shield
- **PS** Photocell control
- **DL** Photocell + daylight harvesting dimming control
- **DM** Photocell + daylight harvesting + mid-night dimming control
- **MC** Bi-level motion control

[1] special order, extra charge and minimum order may apply

PL_SPEC_FALC2_v2