



The Stonco General purpose floodlights offer energy saving LED technology for long life and reduced maintenance. Versatile and stylish with five different sizes to choose from provides application flexibility for ground mount, wall mount, or pole mount installations. Ideal for sign lighting, building facades, security lighting, and general purpose floodlighting applications.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Ordering guide

example: FL150-NW--G1-T-FL-8-BZ

Luminaire	LED Color NW	Generation G1	Options	Mounting	Distribution FL	Voltage 8	Finish BZ
FL20 LED Floodlight 20W FL40 LED Floodlight 40W FL80 LED Floodlight 80W FL150 LED Floodlight 150W FL200 LED Floodlight 200W FL300 LED Floodlight 300W	NW Neutral White 4000K, 80CRI	G1 Generation 1	-- None PCB¹ With Photocell	K² Knuckle Mount ½" NPS male T³ Trunnion Mount S⁴ Slip Fitter Mount	FL Flood	8 120-277VAC	BZ Bronze

1. Photocell available with FL20, FL40, FL80, and FL150 only. Knuckle and Trunnion Mount only.

2. K Knuckle Mount only available with FL20 and FL40.

3. T Trunnion Mount only available with FL80, FL150, FL200 & FL300.

4. S Slip Fitter Mount only available with FL80, FL150, PFL200 & FL300.

LED Wattage and Lumen Values

Neutral White Ordering Codes	Total LEDs	LED Current (mA)	Color Temp. (K)	Average System Wattage ¹	Lumen Output ^{1,2}	Efficacy (LPW)
FL20-NW-G1-K-FL-8-BZ	32	500	4000	20	2122	109
FL40-NW-G1-K-FL-8-BZ	64	1100	4000	39	4433	113
FL80-NW-G1-T or S-FL-8-BZ	128	2450	4000	79	8856	113
FL150-NW-G1-T or S-FL-8-BZ	248	4200	4000	146	16,325	112
FL200-NW-G1-T or S-FL-8-BZ	340	1050	4000	197	24,254	123
FL300-NW-G1-T or S-FL-8-BZ	544	2100	4000	301	34,025	113

1. Wattage and lumen output may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature.

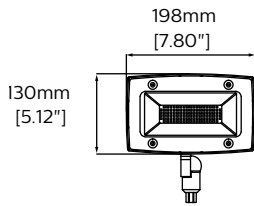
Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.

2. Lumen values based on photometric tests performed in compliance with IESNA LM-79.

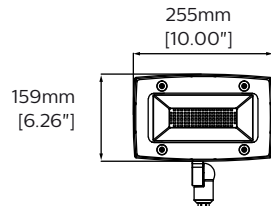
FL20/40/80/150/200/300 General purpose flood

LED floodlights, 20-300W

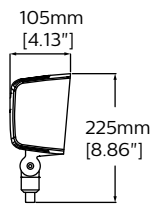
Dimensions



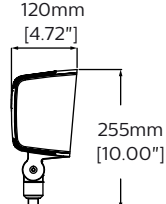
FL20-K Front



FL40-K Front



FL20-K Side

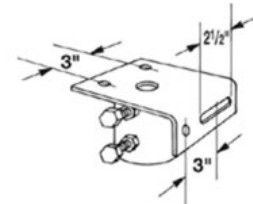


FL40-K Side



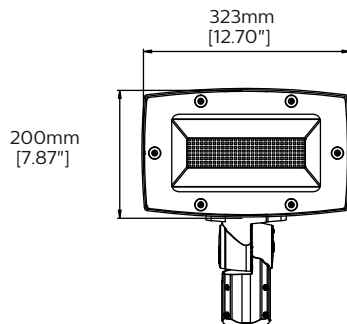
Accessory

(ordered separately,
field installed)

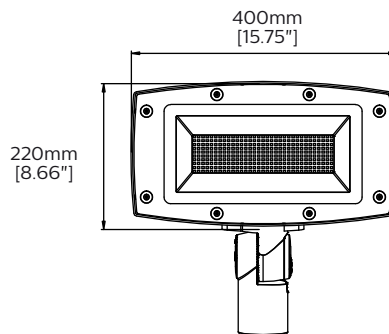


USF10BRZ

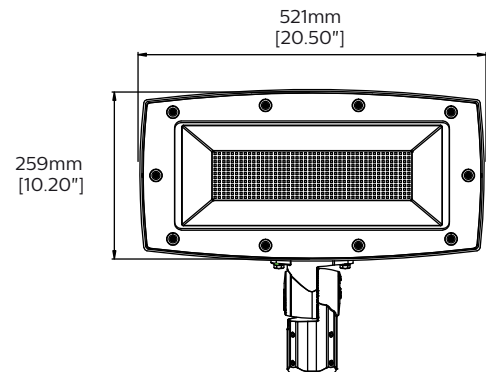
Mounting adapter for
trunnion, fits 2-3/8" O.D.
tenon, bronze finish.



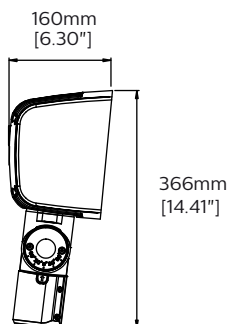
FL80-S Front



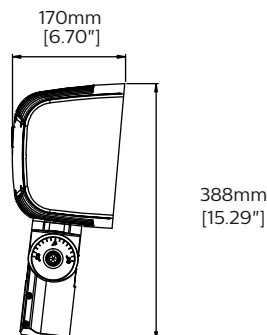
FL150-S and FL200-S Front



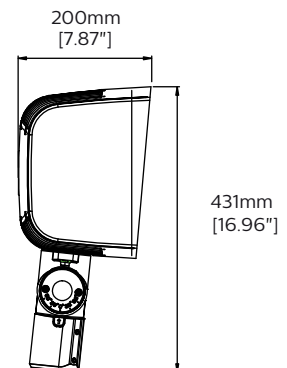
FL300-S Front



FL80-S Side



FL150-S and FL200-S Side



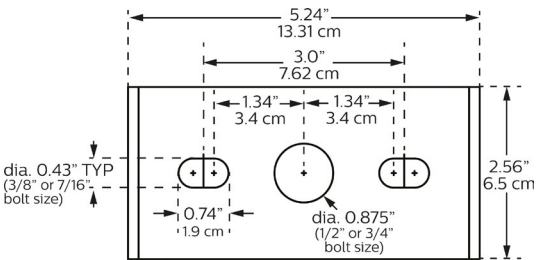
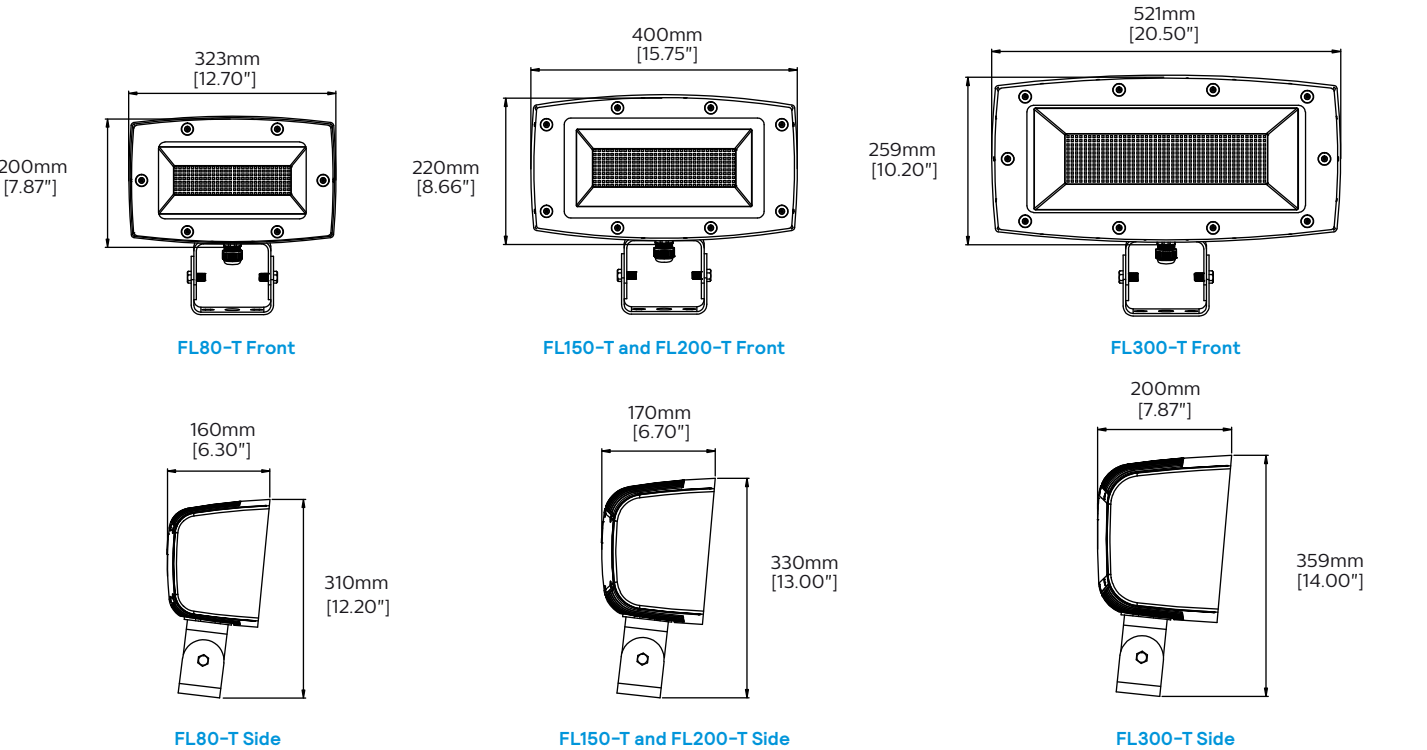
FL300-S Side

FL20/40/80/150/200/300

General purpose flood

LED floodlights, 20–300W

Dimensions (continued)



Trunnion Mount Bolt Pattern

EPA and Weight

Product	Effective Projected Area (EPA-ft²)			Weight
	0° Aim	45° Aim	90° Aim	
FL20-K	0.238	0.271	0.316	4.6lbs (2.09kg)
FL40-K	0.351	0.415	0.500	6.6lbs (2.99kg)
FL80-T	0.595	0.680	0.798	15lbs (6.8kg)
FL150-T	0.784	0.915	1.089	21.3lbs (9.7kg)
FL200-T	0.784	0.915	1.089	21.7lbs (9.8kg)
FL300-T	1.199	1.369	1.604	33.6lbs (15.2kg)
FL80-S	0.595	0.760	0.899	13.7lbs (6.2kg)
FL150-S	0.784	0.994	1.170	20.9lbs (9.5kg)
FL200-S	0.784	0.994	1.170	21.1lbs (9.6kg)
FL300-S	1.199	1.449	1.649	33lbs (15kg)

FL20/40/80/150/200/300 General purpose flood

LED floodlights, 20–300W

Specifications

Housing and Heat Sink

Single piece die cast aluminum alloy. Housing also acts as a heat sink, designed to ensure high efficacy and superior cooling by natural convection. Air flow pattern always close to LEDs and driver optimizing their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling).

Mounting

Suitable for mounting within 4' (1.2m) of the ground.

Knuckle (K, see Ordering guide): Integral die cast Aluminum adjustable knuckle (K) with ½" NPS male threads, with locking teeth and bolt to lock in aiming angle. Ships fully assembled, ready to install. Six inch (6" or 152mm) leads exit out of Knuckle for field connections.

Trunnion (T, see Ordering guide): Integral structural steel adjustable trunnion (T) for direct surface mounting, painted for resistance to corrosion, with bolt to lock in aiming angle. Ships fully assembled, ready to install. Six foot (6' or 1.83m) watertight STW 16 gauge cord exits out of Housing for connection by others, IP66 liquid tight connector to seal cord exit point.

Slip Fitter (S, see Ordering guide): Integral die cast Aluminum adjustable slip fitter (S) fits 2 3/8" O.D. x 3" minimum long tenon, includes set screws for securing luminaire to tenon, with aiming angle markings and bolt to lock in aiming angle. Ships fully assembled, ready to install. Six inch (6" or 152mm) leads exit out of Slip Fitter for field connections.

Lens

Heat and impact resistant tempered glass lens with one piece silicone gasket surrounding the entire perimeter of the LED light engine and electronics compartment providing an IP66 seal. Lens secured with screws and recessed sleeve washers outside of gasket perimeter. Lens includes silk screen to help reduce glare and for aesthetic purposes.

Light Engine

Composed of 3 main components: LED Module / Optical System / Driver. Electrical components are RoHS compliant. LEDs tested by ISO 17025–2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. Metal core substrate ensures greater heat transfer and longer lifespan.

LED Module

Composed of mid-power performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985 +/- 275K or 3710K to 4260K), CRI 80 Min.

Optical System

Flood distribution, optimized for target lumens and a superior lighting uniformity. Photometric performance shall be tested per LM-79 (IESNA) certifying its photometric performance and published in accordance with LM-63.

Driver

High power factor of 90% min Electronic driver, operating range 50/60 Hz, Class 1 or Class 2. FL300 operates with a 0–10V dimming driver.

Other Integrated Features

Surge Protection: Each luminaire is provided as standard with surge protector (SP1 or SP1HV) tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line Ground, Line Neutral and Neutral Ground.

Wiring

Insulated internal wiring located inside the housing, silicone seals all places where wiring passes through openings including sealed going into the knuckle or exiting the luminaire for trunnion mount. Due to the inrush current that occurs with electronic drivers, recommend using a time delay or slow blow fuse to avoid unnecessary and unwanted fuse blowing that can occur with fast acting fuses.

Hardware

All exposed screws shall be stainless steel and/or corrosion resistant and captive. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish

Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat textured bronze finish.

LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with EC61340–5–1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Vibration Resistance

Knuckle mounts meet the ANSI C136.31 Luminaire vibration specifications for normal applications (1.5G). Slip Fitter mounts meet the ANSI C136.31 Luminaire vibration specifications for bridge/overpass applications (3G).

Certifications and Compliance

cULus Listed for Canada and USA. DesignLights Consortium qualified. Entire luminaire is rated for operation in ambient temperature of –40°C (–40°F) up to +40°C (+104°F).

IP66 Rating

Entire luminaire including light engine and driver/ electrical compartment IP66 rated in all aiming positions including upward aiming floodlighting applications.

Limited Warranty

5-year limited warranty. See [signify.com/warranties](https://www.signify.com/warranties) for details and restrictions. Visit our eCatalog or contact your local sales representative for more information.

Predicted Lumen Depreciation Data

Ambient Temperature °C	System Current	L ₇₀ per TM21 ^{1,2}	Lumen Maintenance @ 54,000hrs
25°C	4200 mA	>54,000	84%

1. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.
2. Calculated per IESNA TM 21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

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