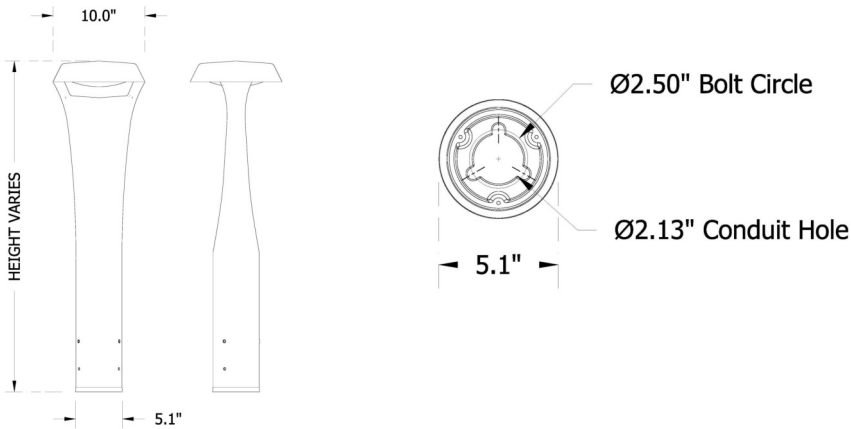


Project Name

Qty

Type

Catalog / Part Number



Distribution Type	Description										
 Type Symmetric	The decorative FL300LED Flight™ Bollard is a small scale contemporary unit matching the styling of the Flight™ product line. It is an aluminum bollard featuring a one piece cylindrical body which flares out in one direction and tapers in the other direction offering a very unique design. Available in heights: 36", 42", 48" 54" and 60"										
CCT - Color Temp (K)	Physical										
 2,700K  3,000K  3,500K  4,000K  5,000K	<table><tr><td>Model</td><td>FL300LED: Flight Bollard</td></tr><tr><td>Overall Height (In Inches)</td><td>36", 42", 48", 54", 60"</td></tr><tr><td>Lens</td><td>FG: Flat Glass SV2SA: Soft Vue Moderate Diffused Sag Acrylic SV4SA: Soft Vue Maximum Diffused Sag Acrylic</td></tr><tr><td>Optional Receptacle</td><td>GFI LPIUC: 120V, 15 Amp Duplex GFCI receptacles with a low-profile in-use cover USB LPIUC: 120V, 15 Amp Duplex USB/ Receptacle combo with a low-profile in-use cover (NON-GFCI)</td></tr><tr><td>Finish</td><td> BKT: Black Textured PGT: Park Green Textured DBT: Dark Bronze Textured SI: Swedish Iron UGMT: Urban Gun Metal Textured UBT: Urban Bronze Textured USLT: Urban Silver Textured UWHT: Urban White Textured CM: Custom Match RT: Rust CD: Cedar TT: Two Tone WHT: White Textured ABZT: Architectural Medium Bronze Textured VG: Verde Green OWGT: Old World Gray Textured UGM: Urban Gun Metal Matte UB: Urban Bronze Matte USL: Urban Silver Matte UWH: Urban White Matte OI: Old Iron WBR: Weathered Brown WBK: Weathered Black </td></tr></table>	Model	FL300LED: Flight Bollard	Overall Height (In Inches)	36", 42", 48", 54", 60"	Lens	FG: Flat Glass SV2SA: Soft Vue Moderate Diffused Sag Acrylic SV4SA: Soft Vue Maximum Diffused Sag Acrylic	Optional Receptacle	GFI LPIUC: 120V, 15 Amp Duplex GFCI receptacles with a low-profile in-use cover USB LPIUC: 120V, 15 Amp Duplex USB/ Receptacle combo with a low-profile in-use cover (NON-GFCI)	Finish	BKT: Black Textured PGT: Park Green Textured DBT: Dark Bronze Textured SI: Swedish Iron UGMT: Urban Gun Metal Textured UBT: Urban Bronze Textured USLT: Urban Silver Textured UWHT: Urban White Textured CM: Custom Match RT: Rust CD: Cedar TT: Two Tone WHT: White Textured ABZT: Architectural Medium Bronze Textured VG: Verde Green OWGT: Old World Gray Textured UGM: Urban Gun Metal Matte UB: Urban Bronze Matte USL: Urban Silver Matte UWH: Urban White Matte OI: Old Iron WBR: Weathered Brown WBK: Weathered Black
Model	FL300LED: Flight Bollard										
Overall Height (In Inches)	36", 42", 48", 54", 60"										
Lens	FG: Flat Glass SV2SA: Soft Vue Moderate Diffused Sag Acrylic SV4SA: Soft Vue Maximum Diffused Sag Acrylic										
Optional Receptacle	GFI LPIUC: 120V, 15 Amp Duplex GFCI receptacles with a low-profile in-use cover USB LPIUC: 120V, 15 Amp Duplex USB/ Receptacle combo with a low-profile in-use cover (NON-GFCI)										
Finish	BKT: Black Textured PGT: Park Green Textured DBT: Dark Bronze Textured SI: Swedish Iron UGMT: Urban Gun Metal Textured UBT: Urban Bronze Textured USLT: Urban Silver Textured UWHT: Urban White Textured CM: Custom Match RT: Rust CD: Cedar TT: Two Tone WHT: White Textured ABZT: Architectural Medium Bronze Textured VG: Verde Green OWGT: Old World Gray Textured UGM: Urban Gun Metal Matte UB: Urban Bronze Matte USL: Urban Silver Matte UWH: Urban White Matte OI: Old Iron WBR: Weathered Brown WBK: Weathered Black										
7 Year Warranty											
											
Certifications											
											

Light Source

LED	1L: 1 LED	
CCT - Color Temp (K)	27: 2,700K	30: 3,000K
	35: 3,500K	40: 4,000K
	50: 5,000K	
Distribution Type	TS: Type Symmetric	

Electrical and control

Driver	MDL02: 120V-277V, 225mA	MDL03: 120V-277V, 300mA
--------	-------------------------	-------------------------

Features

Optional Fuse	FHD: Double Fuse and Holder	
Optional Control	PEC: Electronic Button Photocontrol (120V-277V)	
Optional Fixed Dimming Resistor Board	FDRB: Fixed Dimming Resistor Board	

Specifications

Installation	Three 3/8" diameter, hot-dipped galvanized "L" type anchor bolts shall be provided with the post for anchorage. It will include tamper resistant stainless steel hardware. Bollard will be provided with a grounding stud on the base.
Construction	The separate anchor base shall be made of heavy wall, 356 alloy cast aluminum with a .5" thick floor. It will mechanically attach to the straight portion of the bollard with tamper resistant stainless steel hardware. The pole shaft will be made of ASTM 6063 extruded aluminum and tempered to a T6 condition.
Hardware	Includes Stainless steel hardware. Most finishes will include hardware with a Black Oxide conversion coating. Light finishes will get non-color coated hardware (Whites and Silvers)
Lens	Optional SoftVue™ lens provides optimal visual comfort.
UL Listing	UL listed per UL1598 and CSA 22.2 No. 250.0 for the United States and Canada. Suitable for Wet Locations.
Electronic Driver	The LED driver is UL recognized and will be securely mounted inside the fixture, for optimized performance and longevity. It will be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections for fixture installation and maintenance. It will have DC voltage output and be a constant current design. It runs at 50/60HZ and will have overload, overheat, and short circuit protection. It will be supplied with a supplemental line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It will be a high efficiency driver with a THD less than 20% and a high-power factor greater than .9. It will be dimming capable using a 0-10V signal, consult factory for more information.
Finish	Our 6 Stage Polyester Powder coat paint system offers a beautiful high-end finish that holds up to even the most extreme environments. Each part is inspected for quality and consistency before being released for shipment. Our system exceeds AAMA 2604, AAMA 2605, ASTM D523 and ASTM D4214 requirements.
Traditional Finish	Traditional paint finishes are available in Sternberg Lighting's Traditional product line. A range of colors help accent the decorative elements on the product. Finishes are available in textured or smooth. Available finishes include: Black, White, Park Green, Architectural Medium Bronze and Dark Bronze
Sternberg Select Finish	The Sternberg Select antique-inspired palette adds a touch of vintage elegance to modern applications. Old World Gray Textured is a 1 part powder coat with metallic flakes. Verde Green and Swedish Iron is a 2 part finish that includes a powder coat base coat with a hand applied antique top coat. The top coat is unique to each application and changes over time.
Urban Finish	The Urban finish palette was created to highlight a modern, elegant aesthetic. All finishes are a 1 part powder coat with metallic flakes for a superior appearance. Finishes are available in textured or matte. Available finishes include: Black Textured, Urban Gun Metal, Urban Bronze, Urban Silver and Urban White



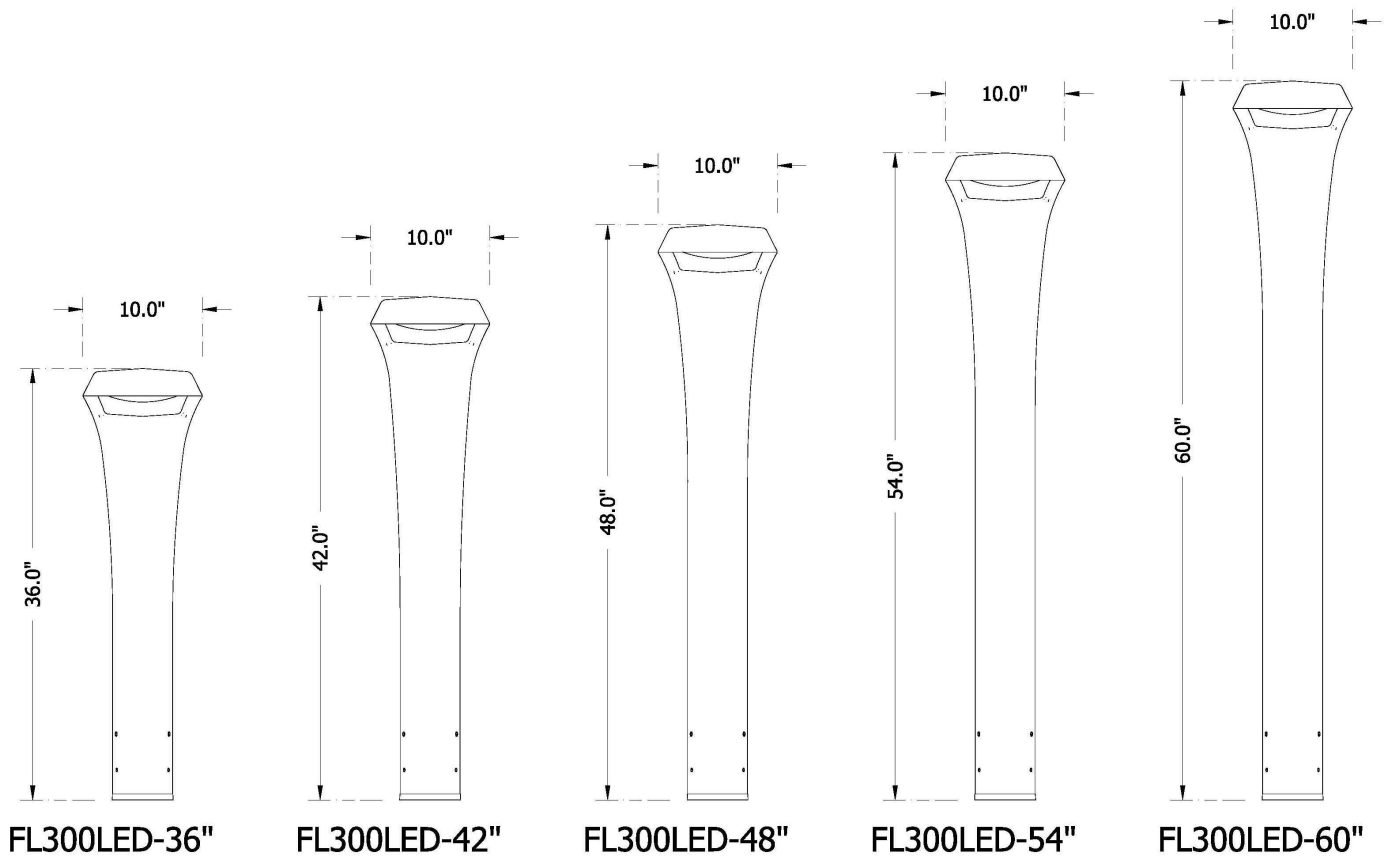
Custom Finish	Custom finishes are offered to adapt to any application. Rust, Weathered Brown and Cedar are special 1 part powder coat finishes with a distinctive look. Old Iron and Weathered Black are 2 part finishes that includes a powder coat base coat with a hand applied antique top coat. The top coat is unique to each application and changes over time. Two-Tone and Custom Match options are available to blend sternberg product with the site, consult factory for more information.
Warranty	7-year limited warranty. See Website for Terms and Conditions.
LEDs	The luminaire shall use high output, high brightness LEDs, consisting of a two piece assembly complete with Chip on Board (COB) LED component and COB holder frame. The LEDs shall be 100% recyclable; not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. Lumen maintenance shall be determined in accordance with IESNA TM-21, based on LED manufacturer LM-80 test data of no less than 6,000 hours and in-situ testing of the luminaire by an NVLAP accredited Energy Efficient Lighting Products lab. The high performance white LED's will have a predicted lumen depreciation of approximately 100,000 hours with greater than 70% of initial output at 25°C. The High Brightness, High Output LEDs shall be 4000K (2700K, 3000K, 3500K or 5000K option) correlated color temperature (CCT) with a 70 (minimum) color rendering index (CRI). Consult factory for custom color CCT. The luminaire shall have a minimum _____ (see table) delivered initial lumen rating when operated at steady state with an average ambient temperature of 25°C (77°F). CCT Lumen Derate Values from 4,000K 2,700K (80+ CRI)=.88 3,000K (70+ CRI)=.97 3,500K (80+ CRI)=.93 5,000K (70+ CRI)=1.01
Optics	The luminaire shall be provided with an individual, refractor type optic applied to the LED. The luminaire shall provide Type Symmetric (TS) light distribution. Testing shall be done in accordance with IESNA LM-79.
Fixed Dimming Resistor Board (FDRB)	Optional numbered 10-step selector switch allows for fine adjustment of the light levels in the field, repeatable from location to location. Offers dimming from 25% to 100% of the original output. Enclosure is composite material, sealed to protect components for the life of the product.
Photocontrols	Button Photocell: The photocontrol shall be mounted on the fixture and pre-wired to driver. The electronic button type photocontrol is instant on and will turn on at 1.5 footcandles and will turn off at 2-3 footcandles. See pole spec sheet for pole mounted version.
Receptacle	Optional 120V duplex 15A GFI (GFI LPIUC) or NON-GFI/5A USB combo duplex receptacle (USB LPIUC) installed in proprietary "Low-Profile" box with a lockable In-Use cover (lock not included).

Lumen Chart(s)

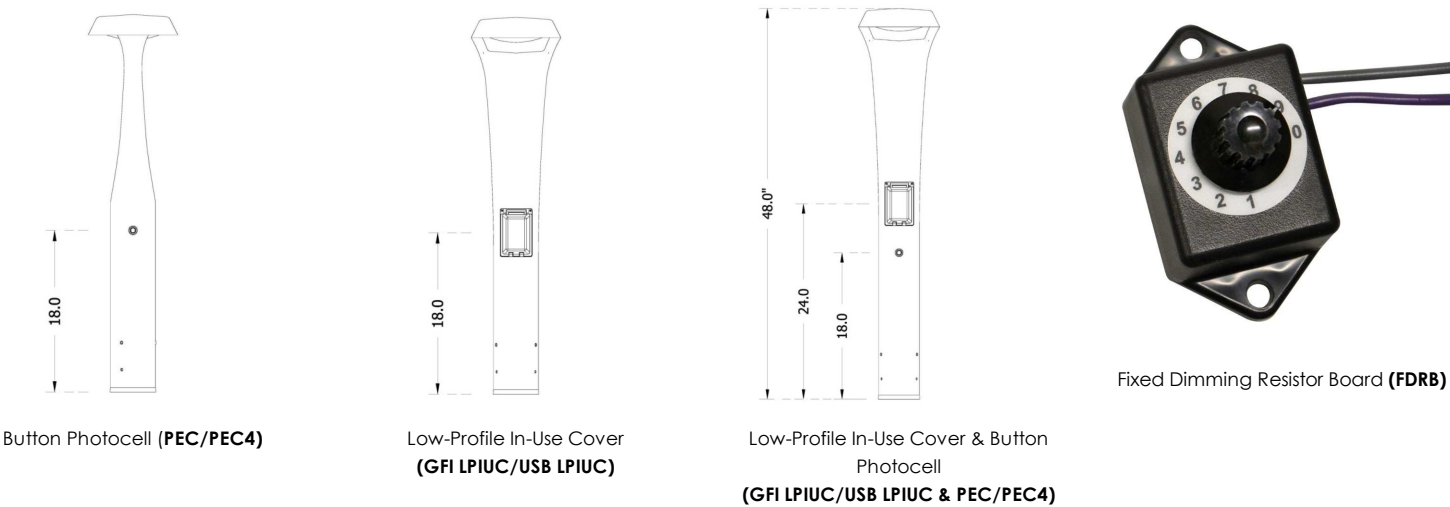
Tested with FG lens

Model #	DELIVERED LUMENS	BUG	EFFICACY (LPW)	WATTAGE
1L-40-TS-MDL03	1160	B1U1G0	77.3	15
1L-30-TS-MDL03	1125	B1U1G0	75.0	15
1L-27-TS-MDL03	1020	B1U1G0	68.0	15
1L-40-TS-MDL02	690	B1U1G0	76.7	9
1L-30-TS-MDL02	670	B1U1G0	74.4	9
1L-27-TS-MDL02	610	B1U1G0	67.8	9

Dimensions



Options



How to Order

Model	Overall Height (In Inches)	LED	CCT - Color Temp (K)	Distribution Type	Driver	Lens	Optional Fuse ⁽¹⁾	Optional Control ^{(2) (3) (4)}	Optional Receptacle ^{(2) (3) (4)}	Optional Fixed Dimming Resistor Board	Finish ^{(5) (6)}
FL300LED Flight Bollard	36IN 36"	1L 1 LED	27 2,700K	TS Type Symmetric	MDL02 120V-277V, 225mA MDL03 120V-277V, 300mA	FG Flat Glass SV2SA Soft Vue Moderate Diffused Sag Acrylic SV4SA Soft Vue Maximum Diffused Sag Acrylic	FHD Double Fuse and Holder	PEC Electronic Button Photocontrol (120V-277V)	GFI LPIUC 120V, 15 Amp Duplex GFCI receptacles with a low-profile in-use cover USB LPIUC 120V, 15 Amp Duplex USB/ Receptacle combo with a low-profile in-use cover (NON-GFCI)	FDRB Fixed Dimming Resistor Board	BKT Black Textured
	42IN 42"		30 3,000K								WHT White Textured
	48IN 48"		35 3,500K								PGT Park Green Textured
	54IN 54"		40 4,000K								ABZT Architectural Medium Bronze Textured
	60IN 60"		50 5,000K								DBT Dark Bronze Textured
											VG Verde Green
											SI Swedish Iron
											OWGT Old World Gray Textured
											UGMT Urban Gun Metal Textured
											UGM Urban Gun Metal Matte
											UBT Urban Bronze Textured
											UB Urban Bronze Matte
											USLT Urban Silver Textured
											USL Urban Silver Matte
											UWHT Urban White Textured
											UWH Urban White Matte
											CM Custom Match
											OI Old Iron
											RT Rust
											WBR Weathered Brown
											CD Cedar
											WBK Weathered Black
											TT Two Tone

Notes:

1. Ships loose for installation in base.

2. Mounted at 18" above grade.

3. Requires 42" minimum bollard height for 1 external accessory

4. Requires 48" minimum bollard height for 2 external accessories

5. Smooth finishes are available upon request.

6. Custom colors require upcharge.