



# 870ILED GENEVA SERIES

LED BOLLARDS

**DIMENSIONS**  
11" Ø  
46-1/2" TALL

**7 YEAR WARRANTY**

**LUMEN RANGE**  
520-590

**LIFE SPAN**  
L70  
MINIMUM  
100,000  
HOURS

**UL LISTED**

**CLICK FOR FAQ'S**

JOB NAME \_\_\_\_\_

FIXTURE TYPE \_\_\_\_\_

MEMO \_\_\_\_\_

## BUILD A PART NUMBER

ORDERING EXAMPLE: **870ILED-1L40TS-MDLO7-CL2/BKT**

Model	LED	CCT	Type	Driver	Option Chain Loop	Option Fuse	Option Photocell	Option Receptacle	Finish

### Model

- 870ILED

### LED

- 1L

### CCT - Color Temperature (K)

- 27(00) • 30(00) • 35(00) • 40(00) • 50(00)

### Type

- TS (Symmetric)

### Driver

- MDLO7 (120V-277V, 700mA)
- MDH07 (347V-480V, 700mA)

### Options (Click here to view accessories sheet)

- CL1 Single Chain Loop
- CL2 Double Chain Loops at 180°
- FHD<sup>1</sup> Double Fuse and Holder
- PCD Electronic Button Photocontrol, mounted on an access door (120V-277V)
- PCD4 Electronic Button Photocontrol, mounted on an access door (480V)
- GFI LPIUC 15 Amp duplex GFCI receptacles with a low-profile in-use cover
- GFI IUC 15 Amp duplex GFCI receptacles with a standard in-use cover
- USB LPIUC 15 Amp duplex USB/Receptacle combo with a low-profile in-use cover (NON-GFI)
- USB IUC 15 Amp duplex USB/Receptacle combo with a standard in-use cover (NON-GFI)
- GFI IB 15 Amp duplex GFCI receptacle in pole base, includes mouse hole on door for wire access
- USB IB 15 Amp duplex USB/Receptacle combo in pole base, includes mouse hole on door for wire access (NON-GFI)

<sup>1</sup> Ships loose for installation in base.

### Finish

**Standard Finishes<sup>2</sup>** (Click here to view paint finish sheet)

- BKT Black Textured
- WHT White Textured
- PGT Park Green Textured
- ABZT Architectural Medium Bronze Textured
- DBT Dark Bronze Textured

<sup>2</sup> Smooth finishes are available upon request.

### Sternberg Select Finishes

- VG Verde Green
- SI Swedish Iron
- OWGT Old World Gray Textured

### Custom Finishes<sup>3</sup>

- CM Custom Match
- OI Old Iron
- RT Rust
- WBR Weathered Brown
- CD Cedar
- WBK Weathered Black
- TT Two Tone

<sup>3</sup> Custom colors require upcharge.

## Specifications

### General

Traditional ornamental cast aluminum bollard with removable cap. The bollard includes 12 vertical slots and an internal white acrylic lens which creates uniform illumination with a high level of visual comfort. The bollard shall be UL listed in US and Canada.

### Construction

The bollard is made of heavy wall 356 alloy cast aluminum with a 1" thick floor cast as an integral part of the bollard. The removable bollard cap is cast aluminum.

### LED's

The luminaire shall use high output, high

brightness LED's, consisting of a two piece assembly complete with Chip on Board (COB) LED component and COB holder frame. The LED's and printed circuit boards shall be 100% recyclable; they shall also be protected from moisture and corrosion by a conformal coating of 1 to 3 mils. They shall not contain lead, mercury or any other hazardous substances and shall be RoHS compliant. The LED life rating data shall be determined in accordance with IESNA LM-80. The High Performance white LED's will have a life expectancy of approximately 100,000 hours with not less than 70% of original brightness (lumen maintenance), rated at 25°C. The High Brightness, High Output LED's shall be 4000K (2700K, 3000K, 3500K or 5000K option) color temperature with a minimum of 70 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)

### Optics

The luminaire shall be provided with an individual collimating type acrylic optic applied to the COB (Chip On Board) LED assembly. The luminaire shall provide a symmetric distribution with near perfect surface brightness and uniformity.

### Electronic Driver

The LED driver shall be U.L. Recognized. It shall be securely mounted inside the bollard, for optimized performance and longevity. It shall be supplied with a quick-disconnect electrical connector on the power supply, providing easy power connections and fixture installation. It shall have overload, overheat and short circuit protection, and have a DC voltage output, constant current design, 50/60HZ. It shall

*See next page*

be supplied with line-ground, line-neutral and neutral-ground electrical surge protection in accordance with IEEE/ANSI C62.41.2 guidelines. It shall be a high efficiency driver with a THD less than 20% and a high power factor greater than .9. It shall be dimming capable using a 0-10v signal, consult factory for more information.

### Installation

Four 5/8" diameter, hot-dipped galvanized "L" type anchor bolts shall be provided with the bollard for anchorage, they shall be mounted in a 7" bolt circle. A door shall be provided for wiring and anchor bolt access. It shall be secured with stainless steel hardware. Post will be provided with a grounding stud mounted on the base floor opposite the access door.

### Photocell

The photocontrol shall be mounted on the bollard. The electronic button type photocontrol is instant on with a 5-10 second turn off, and shall turn on at 1.5 footcandles with a turn-off at 2-3 footcandles. Photocontrol is 120-277 volt and warranted for 6 years.

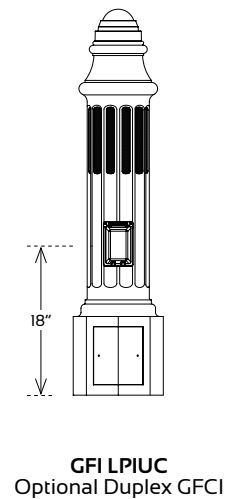
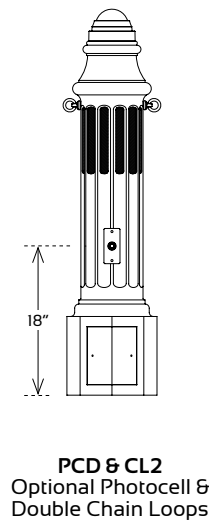
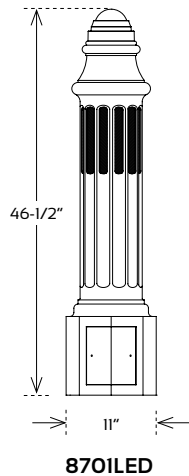
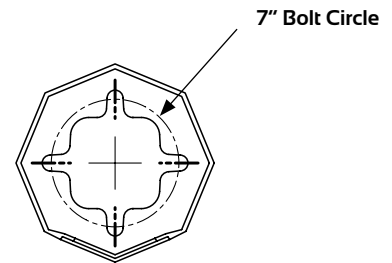
### Warranty

Seven-year limited warranty. See product and finish warranty guide for details.

### Finish

Refer to website for details.

## Bollards



## Performance

LIGHT SOURCE	TS DELIVERED LUMENS	EFFICACY (LPW)	WATTAGE
1L40TS-MDL07	590	19.7	30
1L30TS-MDL07	575	19.2	30
1L27TS-MDL07	520	17.3	30