



FENCE LINE

FIRST LINE

OUR LINE™

# PERIMETER™

LED SECURITY LIGHTING SOLUTIONS



CAST Perimeter™ Series lighting systems are constructed of the highest quality materials, delivering a rugged system that is moisture and dust resistant and can operate in austere environments of -40°C to 55°C. Incorporating a patented design, CAST LED Perimeter™ lights provide not only up to 85% in energy savings compared to other systems, but also deliver maintenance-free operation for an expected 10 years.

The safe, low-voltage system is easily installed by anyone, and provides reliable Dark Sky-compliant illumination directed on and around the fence line where it's needed.

Fully customizable to any need or terrain, the CAST Perimeter™ Series lighting systems deliver quality light on your perimeter, and increase the effectiveness of your CCTV systems.



- ✓ **Safe 24-Volt System**
- ✓ **Quality Cree® LED's**
- ✓ **60,500 Hr. Life (L70)**
- ✓ **Dust & Moisture Resistant**
- ✓ **Surge & Spike Protected**
- ✓ **4 Available Intensity Settings**



**Contract #GS-07F-183CA**

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# Specifications

## Operational Features

<b>Ambient Temperature Range (Operating):</b> -40°C to +55°C
<b>Voltage Input:</b> Fixtures: 12 to 24 volts AC/DC; Transformers: Both 120V and 220/240V models available
<b>Thermal Management:</b> Passive thermal transfer through integrated components in physical contact with thermal pads and luminaire components.
<b>Component Selection:</b> No electrolytic capacitors in drive circuit; components rated for high long life.
<b>Surge &amp; Spike Protection:</b> Voltage suppression for transient spikes and surges for voltages over 40V.
<b>Moisture Protection:</b> Encapsulated driver in thermally conductive epoxy, borosilicate dome to protect LEDs.
<b>Electromagnetic Interference Prevention:</b> Compliance with FCC Class B Conducted & Radiated.

## Mounting, Control, and Security Options

<b>Mounting:</b> <b>CPL1:</b> Fence Light attaches to top of fence posts up to 3" diameter; Offset Bracket (CPLOSB) available for situations where CPL1 must be mounted below fence top or for other offset needs. <b>CPL12X, CPL13X, CPL14X:</b> Fence Light attaches to top of fence posts up to 4" diameter; Offset Bracket (CPLOSB2) available for situations where CPL1 must be mounted below fence top or for other offset needs. <b>CPWP1:</b> Mounting tabs at top and bottom used for flush mounting on wall or other surface; mounting holes in back plate align with standard mounting tabs on singly gang junction box.
<b>Transformer Control:</b> 24 Volt 300, 600, 1200 VA50/60 HZ single phase. Available in 120V CPT300 (3.0 Amp), CPT600 (6.0 Amp), CPT1200 (12.0 Amp) and 220/240 Volt E1CPT300 (1.5 Amp), E1CPT600 (3.0 Amp), E1CPT1200 (6.0 Amp).
<b>Dimensions:</b> 300 & 600VA 14-3/8" (36cm) L X 6-7/8" (17.4cm)W X 5-3/4" (14.6cm)D, 1200 VA 16-5/8" (42cm)L X 7-1/8" (18cm)W X 6-3/4" (17.5cm)D. Optional Manual On/Off Time Clock can be combined with optional photo cell (CTPC) or run off any existing control system.
<b>Weights:</b> 300:19lbs (8.6kg) 600:25lbs. (11kg) 1200:36lbs (16.32kg)

## Sustainability & Replaceability

<b>Sustainable:</b> CAST fixtures are designed for a lifetime of use. Cast-metal components are sand-cast in CAST Lighting's own foundry that incorporates trimmings into new product. Nothing is discarded.
<b>Replaceable and Upgradable:</b> All parts of the CAST LED Perimeter Lights are replaceable and upgradeable. Should the LED array or driver fail, then the body or base can be replaced or repaired in the field without special tools or training. New technology can be incorporated into the fixture in the future.

## Dimensions & Construction

<b>LED Perimeter Fence Light (CPL1)</b>	22.5" tall x 4.625" wide. Eurometal hat, vase, and base; galvanized steel stem; aluminum saddle bracket; zinc-plated bolts; borosilicate glass LED enclosure.
<b>LED Perimeter Fence Light (Higher Power) (CPL12X, CPL13X, CPL14X,)</b>	35.3" tall x 7" wide. Eurometal hat, vase, and base; galvanized steel stem; stainless steel saddle bracket; stainless steel bolts; borosilicate glass LED enclosure.
<b>LED Perimeter Wall Pack Light (CPWP1)</b>	4.5" wide x 3" tall x 3" deep (matches plate size of single-gang electrical junction box). Eurometal body; borosilicate glass LED enclosure; stainless steel hardware.

Fixture Lead Wires (All): (2) 4" Tin-Coated Marine-Grade #18 AWG wires for connections to be made inside luminaire junction box. Parallel crimp connectors included.



## Photometric & Electrical Data

Name (Model #)	Light Source	Color Temp (CCT) (°K)	Color Rendering Index (CRI)	Lumen Maintenance (L70) (Hrs)	Input Voltage (V)	Input Current (A)	Input Power (W)	Power Factor (pf)	Apparent Power (VA)	Luminaire Lumens (Lm)	Maximum Candela (CBCP)
LED Perimeter Wall Pack Light (CPWP1)	(3) Cree XTE Array	4,450°K Neutral White	77	66,500	12-24 AC/DC	0.38	7.0	0.82	8.5	490	138
LED Perimeter Fence Light (CPL1)	(3) Cree XTE Array					0.38	7.0	0.82	8.5	265	90
LED Perimeter Fence Light (2X Power) (CPL12X)	(6) Cree XTE Array					0.76	14.0	0.82	17.1	960	276
LED Perimeter Fence Light (3X Power) (CPL13X)	(9) Cree XTE Array					1.14	21.0	0.82	25.6	1440	414
LED Perimeter Fence Light (4X Power) (CPL14X)	(12) Cree XTE Array					1.52	28.0	0.82	34.1	1900	552

IESNA Cut-Off Classification: Full-Cutoff (0% above Nadir); Dark-Sky Compliant (MLO) for reduction of light pollution and light trespass.

Contact CAST for photometrics, calculators and kit information.

## Listings & Certifications

All CAST LED Lights: Conform to: UL Std's. 1838 & 8750; CE; Certified to CAN/CSA Stds C22.2 No. 250.0 & C22.2 No. 250.13. Suitable for wet locations. FCC Class B Conducted and Radiated. RoHS. IP66 Rated.