



FENCE LINE

FIRST LINE

OUR LINE™

# PERIMETER™

LED SECURITY LIGHTING SOLUTIONS

Visible Infrared



850 Nanometers (nm) IR Wavelength



Introducing the CAST Night Owl™ Perimeter Lighting System. Night Owl™ is the only fence-mounted perimeter lighting system capable of on-demand switching between Infrared (IR) and Visible Light. Each IR fixture can be field adjusted to the exact setting the camera or site requires.

Not every scenario calls for visible light, and sometimes time is needed to move response assets into place. Night Owl™ provides choices and flexibility in any intrusion situation. Constructed of the highest quality materials, this safe low-voltage system is easily installed, and provides reliable IR or Visible illumination directed on and around the fence line where it's needed, significantly improving the effectiveness of night vision-capable CCTV systems.

Night Owl™ can be integrated with sophisticated monitoring systems, and activate upon predetermined triggering events.



CPLI2X2IRD  
CPLI1X4IRD

- ✓ **Safe 24-Volt System**
- ✓ **Quality Cree® LED's**
- ✓ **60,500 Hr. Life (L70)**
- ✓ **Field Adjustable IR**
- Output with White Light Circuit**
- ✓ **Highly Efficient 7-28 Watts**
- ✓ **IP66 Rated**

Ph: 973•423•2303 Fax: 973•423•2304

[www.cast-lighting.com](http://www.cast-lighting.com)

# Specifications

## Sustainability & Replaceability

**Replaceable and Upgradable:** All parts of the CAST Perimeter™ NIGHT OWL™ 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.

## Operational Features

**Ambient Temperature Range (Operating):** -40°C to +55°C

**Voltage Input:** Fixtures: 12 to 24 volts AC/DC; Transformers: Both 120V and 220/240V models available

**Thermal Management:** Passive thermal transfer through integrated components in physical contact with thermal pads and luminaire components.

**Component Selection:** No electrolytic capacitors in drive circuit; components rated for high temperature, voltage, and long life.

**Surge & Spike Protection:** Voltage suppression for transient spikes and surges for voltages over 40V.

**Moisture Protection:** Encapsulated driver in thermally conductive epoxy, borosilicate dome to protect LEDs.

**Electromagnetic Interference Prevention:** Compliance with FCC Class B Conducted & Radiated.

**Dimming:** Units are dimmable using a magnetic Low Voltage Dimmer on Primary.

## Mounting, Control, and Security Options

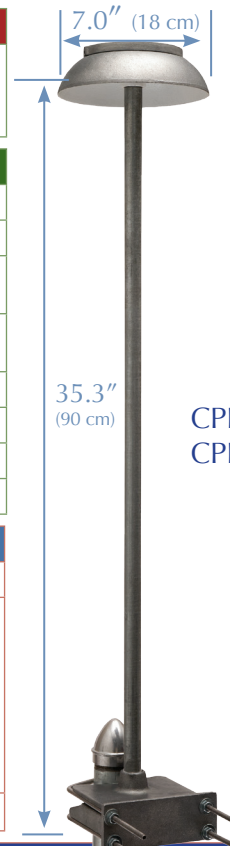
**Mounting: CPL12X2IRD, CPL11X4IRD:** Fence Light attaches to top of fence posts up to 4" diameter. (10 cm)

**Transformer Control:** 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).

**Dimensions:** 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.

**Weights:** 300:19lbs (8.6kg) 600:25lbs. (11kg) 1200:36lbs (16.32kg)

**Adjust Infrared Light Level At Fixture:** Use CAST CDIMMER and CDIMADP1 to set desired value in the field.



CPL12X2IRD  
CPL11X4IRD

## Dimensions & Construction

<b>Switchable Visible/Infrared Perimeter Fence Light</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.
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Fixture Lead Wires (All): (3) 6" Tin-Coated Marine-Grade #18 AWG wires for connections to be made inside junction box (not supplied).

## Photometric & Electrical Data

Switchable Visible/Infrared Perimeter Fence Light (2X Fixed Power) (CPL12X2IRD)				Infrared Perimeter Fence Light (4X Adjustable Power) (CPL11X4IRD)			
White Light Source: (6) Cree XTE Array		Infrared Light Source: (6) Osram Oslon 850nm Infrared LED Array		White Light Source: (3) Cree XTE Array		Infrared Light Source: (12) Osram Oslon 850nm Infrared LED Array	
Color Temp (CCT) (°K)	4,450°K Neutral White	Lumen Maintenance (L70) (Hrs)	50,000	Color Temp (CCT) (°K)	4,450°K Neutral White	Lumen Maintenance (L70) (Hrs)	50,000
Color Rendering Index (CRI)	77	Input Voltage (V)	12-24 AC/DC	Color Rendering Index (CRI)	77	Input Voltage (V)	12-24 AC/DC
Lumen Maintenance (L70) (Hrs)	66,500	Input Current (A)	0.76	Lumen Maintenance (L70) (Hrs)	66,500	Input Current (A)	1.52
Input Voltage (V)	12-24 AC/DC	Input Power (W) at 14 VAC	11.5	Input Voltage (V)	12-24 AC/DC	Input Power (W) at 14 VAC	22.6
Input Current	0.76	Input Power (W) at 24 VAC	14.0	Input Current	0.38	Input Power (W) at 24 VAC	28.0
Input Power (W)	14.0	Power Factor (pf)	0.82	Input Power (W)	7.0	Power Factor (pf)	0.72
Power Factor (pf)	0.82	Nanometer (nm)	850	Power Factor (pf)	0.82	Nanometer (nm)	850
Apparent Power (VA)	17.1	Milliwatt (mW) at 14 VAC	522	Apparent Power (VA)	8.5	Milliwatt (mW) at 14 VAC	1044
Luminaire Lumens (Lm)	960	Milliwatt (mW) at 24 VAC	640	Luminaire Lumens (Lm)	490	Milliwatt (mW) at 24 VAC	1280
Maximum Candela (CBCP)	276			Maximum Candela (CBCP)	138		

IESNA Cut-Off Classification: Full-Cut off (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.