

## NIGHT OWL INFRARED (CPL3IR)

The CAST Perimeter® Night Owl CPL3IR delivers field tunable infrared intensity adjustment to enhance night vision camera images specific to the site and the camera. This eliminates IR camera "hot spots" and glare that happens with standard IR cameras. The Night Owl allows switching between Infrared (IR) and Visible Light. It is the only fence mounted IR solution that can be integrated with sophisticated monitoring systems to activate the white light on event triggers.

Night Owl CPL3IR uses the trusted CAST Perimeter® design for safe low-voltage lighting and is built with the toughest materials.

### PRODUCT SPECIFICATIONS

#### AMBIENT TEMPERATURE RANGE (OPERATING)

-40°C to +55°C

#### VOLTAGE INPUT

##### FIXTURES

12 TO 26 VOLTS AC/DC

##### TRANSFORMERS

Both 120V / 277V and European 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

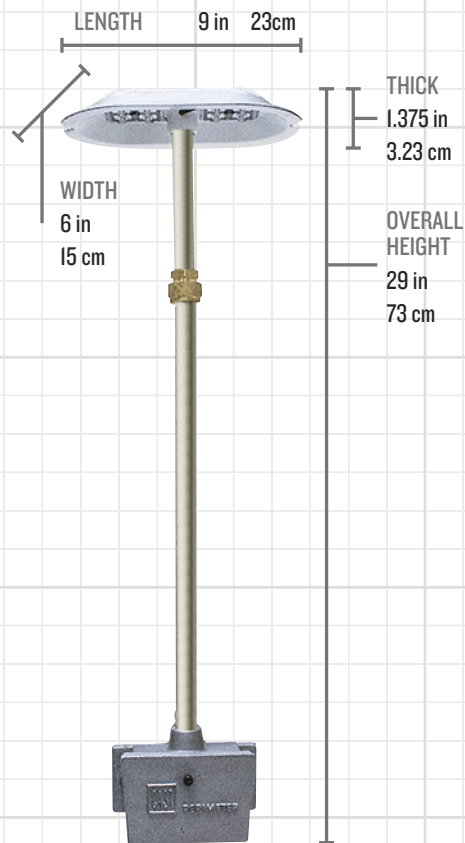
Encapsulated driver in thermally conductive epoxy, gasket, and silicone sealed high impact PMMA optic to protect LEDs.

#### ELECTROMAGNETIC INTERFERENCE PREVENTION

Compliance with FCC Class B Conducted & Radiated.

#### FIELD TUNABLE IR

Allows installer to match the exact IR brightness level required on site using handheld dimmer with twenty different power levels settings. Requires hand-held dimmer # CDIMMER dimmer pigtail connector # CIRDP.



### MOUNTING, CONTROL, & SECURITY OPTIONS

#### CPL3IR SERIES MOUNTING

Easy install two part mount attaches to any round fence post from 1.5" OD (3.81cm) to 4.5" OD (11.4cm). **Custom fence post bracket mounts available.**

#### BEAM ANGLE ADJUSTMENT

Fixture easily adjusts to 22° off vertical to accommodate any grade condition using a ball joint style adjustment knuckle. (Requires 1 1/4" wrench.)

#### TRANSFORMER

24, 26 Volt 300, 600VA, 24V, 26V, 28V, 30V 1200 VA 50/60 HZ single phase. Available in 120V / (277V 1200VA Only) European 220 / 240 Volt.

#### THIRD PARTY INTEGRATION

Specifying dry contact/ power signal control circuit.

# NIGHT OWL INFRARED (CPL3IR)

## DIMENSIONS & CONSTRUCTION FOR CPL3IR

### LED PERIMETER FENCE LIGHT CPL3IR1D, CPL3IR2D, CPL3IR1DIW

29" (73cm) tall x 6" (15cm) wide x 9" long (23cm). Top thickness 1.375" (3.23cm)  
Eurometal hat and base junction box; schedule 40 aluminum stem; stainless steel 5/16"  
saddle bracket, bolts and washer; PMMA 8N Plexiglas LED optic enclosure. Cable piercing  
wire quick-connect splice kit (CPQC1) included.

### CUSTOM STEM LENGTHS

Standard stem length is 24" (61cm) customer can order customized stem length by adding  
a dash at the end of the model number indicating the desired pipe length by the inch up to  
the maximum of 40" (101.5 cm) at extra cost. EX: CPL325-30 = 30" stem.

## PHOTOMETRIC & ELECTRICAL DATA FOR CPL3IR

NAME (MODEL #)	FIELD TUNABLE <sup>1</sup>	COLOR TEMP WHITE LIGHT	INFRARED NANOMETER <sup>2</sup>	COLOR RENDERING INDEX (CRI)	LUMEN MAINTENANCE (L70) (HRS)	INPUT VOLTAGE RANGE (V)	POWER CONSUMED WATTS (W) <sup>3</sup>	POWER FACTOR (PF)	VOLT AMPS (VA)	IR RADIANT FLUX (RFL)/LUMENS @ 24 VAC
Gen 3 IR 4 LED (CPL3IR1D)	Yes <sup>1</sup>	n/a	850nm <sup>2</sup>	n/a	50,000	12-26 AC/DC	17.6	0.88	20.22	370-3700mW RFL
Gen 3 IR 8 LED (CPL3IR2D)	Yes <sup>1</sup>	n/a	850nm <sup>2</sup>	n/a	50,000	12-26 AC/DC	35.2	0.88	40.45	740-7400mW RFL
Gen 3, 4 LED Dual Circuit White/IR (CPL3IR1D1W)	Yes <sup>1</sup> IR Only	n/a	850nm <sup>2</sup>	n/a	50,000	12-26 AC/DC	17.6	0.88	20.22	370-3700mW RFL
	No	4500°K	n/a	70	63,500	12-26 AC/DC	13	0.88	14.77	1163 Lumens


(1) Requires Dimmer Pigtail connector # CIRDPCC and Dimmer Control # CDIMMER in order to field tune IR intensity.

(2) Also Available in 940 Nanometer Infrared by special order pricing and lead time. Call for details.

(3) If powering fixture with DC power consumed watts will increase by 25% and lumens will increase by 10%.

## LISTINGS & CERTIFICATIONS FOR CPL3IR

All CAST LED Lights: Conform to: UL Standards. 1838 & 8750; CE; Certified to CAN/CSA Standards C22.2 No. 250.0 & C22.2 No. 250.13. Suitable for wet locations. FCC Class B Conducted and Radiated. RoHS. Full LM-79 report and AGI32 Lux files available.

 **DANGER:** Exposure to infrared can cause permanent eye injury. Avoid direct eye exposure. Use proper eye protection when setting up and operating this product.

## CONTACT US

For more information, site estimates, kit choices, and pricing.

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Patents: US Patent 8,845,124; 9,360,197; 9,593,832;  
9,777,909; 9,648,688; Intl Patents; Other Patents  
Pending.

GSA Advantage! [www.gsaAdvantage.gov](http://www.gsaAdvantage.gov)  
Contract #GS-07F-183CA.

Cast Perimeter® is a division of CAST Lighting  
which specializes in the research, innovation and  
manufacturing of low voltage LED lighting solutions.