HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS

Mongoose® LED
Roadway & Area Lighting

Mongoose LED... the legacy continues

Originally launched in 1998, the Holophane® Mongoose® brought to lighting an advanced optical system that provided unequalled performance in lighting both roadways and large areas.

It has since been used in countless applications, with hundreds of thousands of units installed. Multiple lighting distributions and mounting options combined with the ability to tilt the fixture offer unequalled performance and flexibility in a diverse set of applications ranging from interstates to parking lots. The Mongoose LED is the most technologically advanced luminaire available today for roadway and area lighting applications. The Mongoose LED provides an energy-saving and sustainable solution for applications that typically used 150-1,000 watt HID luminaires.

From durable, high performance glass optics and highly engineered thermal management, to tilt options, toolless entry and multiple mounting configurations, the new Mongoose LED is a true game-changer for the outdoor lighting industry. One that is ultimately worthy of the name and legacy of the Holophane Mongoose.

At a Glance

150-1,000 watt HID replacement solutions

Prismatic glass refractor for visual comfort (Mongoose LED Medium only)

Long system life rated for > 100,000 at 25°C, L70

IP rated construction -IP66 rated glass optical and IP65 rated electrical enclosure

20kV/10kA extreme surge protection standard

Multiple distributions for any roadway or area lighting application

Mounting options -Horizontal mast arm, vertical tenon and square or round architectural pole mounting

0°to 45°fixture tilt for flexibility in offset applications

Zero-uplight features to protect the night skies

Occupancy sensor options for energy saving control

Advanced network controls from nLight® and DTL® that optimize your energy and maintenance savings

MGLEDM (Medium)

MGLED (Large)

Roadway Applications

High Speed Roadways

Ramps & Interchanges

Toll Plazas

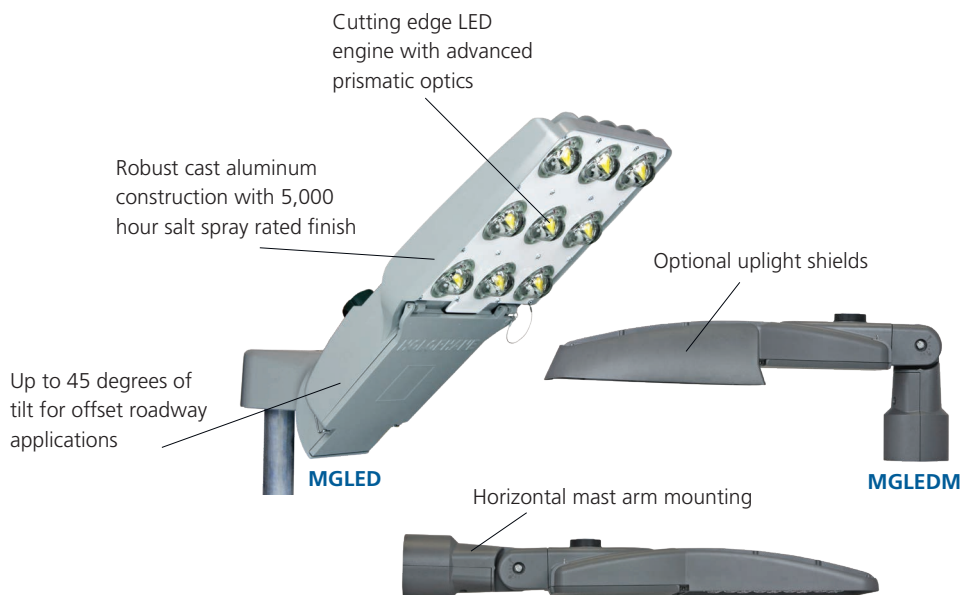City Streets

Parks & Campuses

Bridges

Area & Site Applications

Military Bases

Airport Parking

Stadium Parking

Industrial Parking

Rooftop Parking Decks

Automotive Dealerships

Security Flood & Facade

Mongoose Roadway Solutions

With up to 45 degrees of tilt, the Mongoose family offers a portfolio of true setback options for offset roadway lighting.

For customers who use offset roadway lighting, the Mongoose LED is the next generation of the well-established Mongoose product. In addition to the wider pole spacing, reduced install costs for pipe and wire, and the reduced pole cost that are hallmarks of traditional offset lighting, the LED Mongoose will provide up to 60% reduction in energy cost over HID alternatives, coupled with a minimum of 50% reduction in maintenance cost while extending fixture life to 100K hrs.

Cutting edge LED engine with advanced prismatic optics

Robust cast aluminum construction with 5,000 hour salt spray rated finish

Optional uplight shields

Multiple mounting options ensure that the Mongoose family can address virtually any roadway application. A variety of configurations are also available to facilitate zero-uplight or house-side shielding, which can help minimize light trespass and preserve night skies.

Up to 45 degrees of tilt for offset roadway applications

MGLED

MGLEDM

Horizontal mast arm mounting

Mongoose LED – Roadway & Area Lighting

In new construction, offset installation of tilted Mongoose LED luminaires reduces installation costs with increased pole spacing, elimination of arms and reduction of wiring. In direct retrofit applications, superior performance and uniformity improve visibility and can enhance driver safety.

400W Mongoose HPS

Mongoose LED Large

Up to **45%**
Energy Savings

50% Savings in
Maintenance Costs
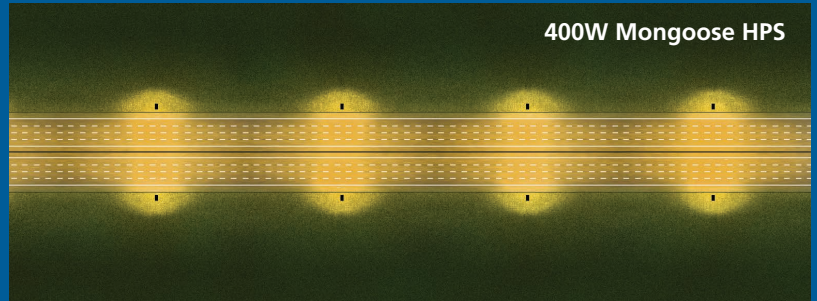
	400W HPS Mongoose	MGLEDP1
Pole Spacing	327'	
Lumens	41,954	36,235
Avg	0.9	0.9
Avg/Min	2.8	2.2
Watts	444	246
Energy Savings	Baseline	**45%**

Mongoose Area Solutions

With multiple mounting options, including a universal-mount architectural arm, virtually any area application is possible.

Sleek styling to compliment your sitescape

Advanced optics for superior uniformity and maximized pole spacing

Toolless entry with removable power tray

Universal Arm Mount

Round Pole Adaptor

Square Pole Mount

For area and site lighting applications, the Mongoose LED family provides a very attractive and flexible alternative to traditional shoebox and cobra head luminaires, while achieving up to 60% reduction in energy cost over HID incumbents. Coupled with a minimum of 50% reduction in maintenance cost and extended fixture life of 100K hrs, the Mongoose LED provides site owners architectural appeal combined with performance and reliability.


Multiple mounting configurations make the Mongoose family ideal for any area application. The universal architectural mounting arm feature facilitates simplified installation for round or square retrofit installations.

Mongoose LED – Roadway & Area Lighting

Superior uniformity and color rendering from Mongoose LED eliminates hot or dark spots while enhancing visibility and safety for drivers and pedestrians. Precision-engineered Mongoose optics also reduce wasted light and undesirable light trespass.

Typical HPS Shoebox

Mongoose LED Medium
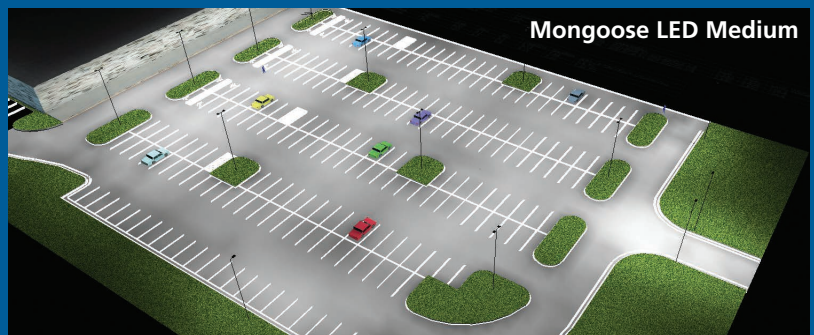
Up to **77%**
Energy Savings

50% Savings in
Maintenance Costs

	400W HPS Shoebox	MGLEDM P1 – Area Glass	MGLEDM P1 –Area No Glass
Lumens	33,314	16,129	17,400
Avg	3.4	2.2	
Avg/Min	5.6	3.2	
Watts	460	105	
Energy Savings	Baseline	**77%**	

Mongoose LED Medium

Reduced footprint and lighter weight with sleek architectural lines and enhanced visual comfort.

From durable, high performance glass optics and a cutting-edge LED engine, to tilt options, toolless entry and multiple mounting configurations, the new Mongoose LED Medium (MGLEDM) is a true game-changer for roadway and area lighting. One that is ultimately worthy of the name and legacy of the Holophane Mongoose.
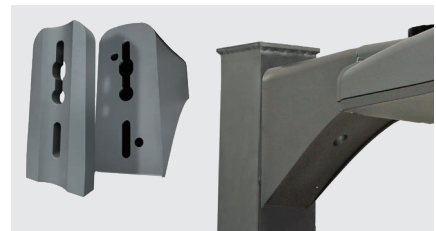
150-400 watt
HID Replacement

Up to **38,000 Lumens**

Features and Options

Vertical Tenon Mounting
Attaches to 2" Vertical Tenon

Horizontal Mast Arm Mounting
Attaches to 2" Horizontal Arm

Universal Mount Architectural Arm
Attaches to most round or square pole bolt patterns

Flexibility and Accessibilty
Enhanced innovative features include adjustable tilt, toolless entry and removable power tray

Optional Refractor and Uplight Skirt
Preserve night skies and enhance visual comfort with optional uplight skirt and prismatic glass refractor lens

Extreme Surge Protection
Industry leading 20kV/10kA surge protection

Uplight Skirt Options

8.4in
(214mm)

18.9in
(481mm)

34.97in
(888mm)

Mongoose LED – Roadway & Area Lighting

Tilt Options

Mongoose LED Medium
Weight: Knuckle = 35 lbs; Universal = 31 lbs
Add: 6 lbs for Glass Refractor; 3 lbs Uplight Skirt
Max E.P.A.: 0°= 1.64 sq. ft.; 45°= 2.85 sq. ft.

22.2in
(563mm)

31.2in
(792mm)

33.75in
(857mm)

38.25in
(972mm)
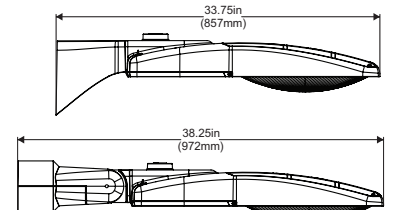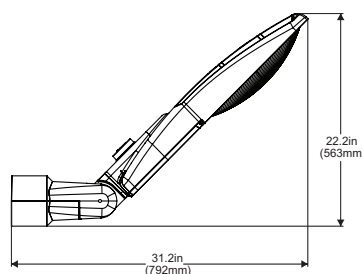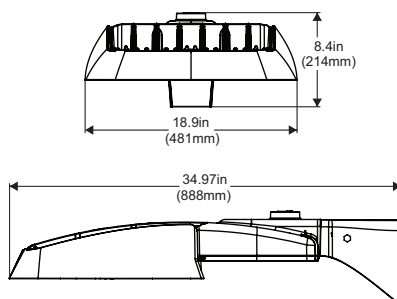
Mongoose LED Large

Ferocious enough for any lighting challenge, flexible enough for any outdoor application

Mongoose LED Large (MGLED) offers up to 60% energy reduction over HID alternatives combined with a minimum of 50% reduction in maintenance costs, and a system life rated for 100K hrs. It also offers multiple lighting distributions, mounting options, and the ability to tilt the fixture, providing flexibility for diverse set of roadway and area lighting applications.
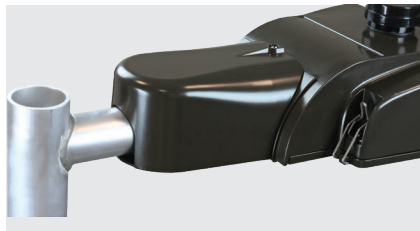

400-1,000 watt
HID Replacement

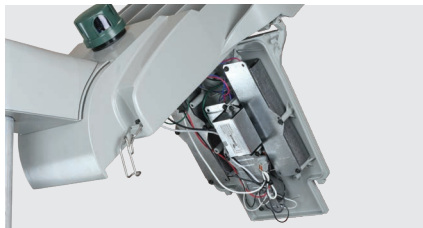Up to **64,000 Lumens**

Features and Options
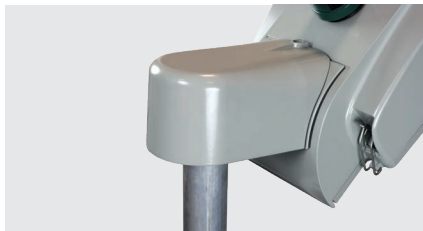
Vertical Tenon Mounting
Attaches to a 2" Vertical Tenon

Horizontal Mast Arm Mounting
Attaches to a 2" Horizontal Arm

Universal Mount Architectural Arm
Attaches to most round or square pole bolt patterns

Flexibility and Accessibilty
Enhanced innovative features include adjustable tilt, removable power door and toolless stainless steel latches
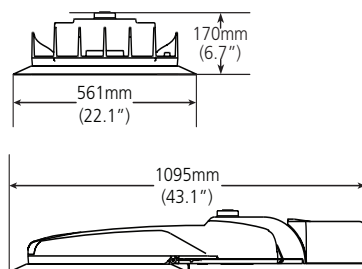

Uplight Skirt
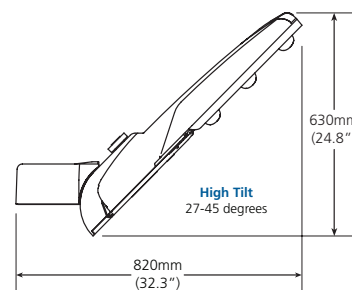To minimize light pollution and trespass, zero uplight can be achieved with the optional uplight skirt

Extreme Surge Protection
Industry leading 20kV/10kA surge protection

Uplight Skirt Options

170mm (6.7")
561mm (22.1")
1095mm (43.1")

Tilt Options

630mm (24.8")
High Tilt 27-45 degrees
820mm (32.3")

Mongoose LED
Max Weight: = 50 lbs
Max EPA: Low Tilt = 1.20 sq. ft.
Max EPA: High Tilt = 3.25 sq. ft.

1036mm (40.8")
Low Tilt 0-18 degrees
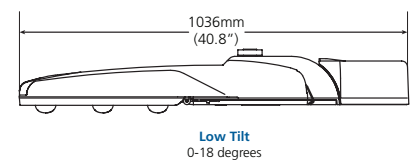
Mongoose LED Controls Solutions

A lighting strategy that incorporates modern energy efficient lighting with advanced controls allows customers to realize significant advantages over lighting-only installations.

Benefits of utilizing controls strategies

- Applying lighting controls saves 25%-40% in annual energy costs
- Controls allow the fixture to produce only the necessary amount of light, and only when it is needed
- The right control strategy also has a positive impact on maintenance costs.
- Running the fixtures at less than 100% light output, lowers operating temps, slowing depreciation rates on electronic components
- Turning fixtures off when they are not needed reduces burn hours and extends installed fixture life

Controls options available in Mongoose LED

Designed by Acuity Brands, the 7-pin photocontrol receptacle is a central component to most advanced outdoor control systems. By facilitating the pass-through of additional data streams between the luminaire and external sensors, the 7-pin receptacle gives you access to advanced capabilities today while future-proofing your luminaire for tomorrow's needs. The Mongoose LED family comes standard with this receptacle.

7-pin photocontrol
receptacle

The DTL® brand, a trusted name in the outdoor lighting controls market since 1990, has created some of the most reliable products to be used in the field.

Ideally suited to the Mongoose LED family, DTL photocontrols are among the most ubiquitous outdoor photocontrols in the market. Built using well-designed electronic circuitry, they run cool, consume less energy and offer consistent performance over voltage ranges and time. Explore the difference in electronic photocontrol with Dark to Light.

DLL Elite
20-year photocontrol

DTL Connect wireless
remote photocontrol

DTL DSN Smart City Node
The DTL DSN combines the reliability of the DLL Elite photocontrol with the performance of the Itron network platform for unparalleled functionality and adaptive control of street lighting systems

nLight AIR Networked Controls
Networked control, monitoring and diagnostics through the nLight AIR rSDGR option enhance safety while reducing energy and maintenance costs

Non-networked Occupancy Sensor
Occupancy sensor option saves energy by dimming down to a preset level until motion is detected

DTL® DSN networked photocontrols enable you to create the perfect network canopy application for a robust and secure smart city.

With access to the Itron network platform, DSN provides one network for critical infrastructure and smart city applications, enabling enhanced functionality and adaptive control of your LED street-lighting system.

Features of DTL DSN
- Integration with the Itron network platform of over 27 million devices worldwide
- Rugged and robust design with superior inrush and surge protection
- Group response to motion sensor input from pedestrian and vehicular traffic

The nLight® platform of products enables ease in specification, installation, and ownership, making it the go-to digital lighting controls platform for outdoor site lighting.

nLight is a sensor-based digital lighting controls solution that offers wired and wireless lighting controls that easily connect luminaires, sensors, and other control devices, providing a digital network that is easy to specify, install, and own.

Features of nLight AIR rSDGR
- 900MHz communication frequency
- 100% Digital Passive Infrared (PIR) motion detection
- Integrated photocell for dusk-to-dawn control
- Five-tier security architecture
- Connectivity for time-based scheduling, cloud-based apps, remote control and diagnostics
- IP65 rating for outdoor applications

HOLOPHANE ®
LEADER IN LIGHTING SOLUTIONS

Acuity Brands Lighting, Inc.

Holophane Headquarters, 3825 Columbus Road, Granville, OH 43023

Acuity Brands Lighting Canada, Inc., 35B Minthorn Blvd., Markham, ON., L3T 7N5

Holophane Europe Limited, Bond Ave., Milton Keynes MK1 1JG, England

Holophane, S.A. de C.V., Km. 31 Carretera Mexico-Cuautitlan 54900 Tultitlan Edo. De Mexico

Contact your local Holophane factory sales representative for application assistance, and computer-aided design and cost studies. For information on other Holophane products and systems, call the Inside Sales Service Department at 800-705-7378.

Warranty Five-year limited warranty. Full warranty terms located at www.acuitybrands.com/ CustomerResources/ Terms_and_conditions.aspx

Visit our web site at www.holophane.com

Product specifications may change without notice. Please contact your local Holophane factory sales representative for the latest product information.

AcuityBrands.