

Command Performance

When failure is not an option,
Grote's Performance LED™
Military Legacy Lighting is your best strategy.

Grote

The first name in vehicle
safety systems®

Performance LED™ STRATEGIC LIGHT
BETTER PERFORMANCE
INNOVATION by Grote Industries, Inc.

In the theater of battle, the men and women placed in harms way need to depend on every piece of equipment. From the weapons they hold, to the support gear they rely on, all must be designed and built for ultimate performance and safety, because that equipment may be their lifeline.

MILITARY PRODUCTS

Grote has been on the front lines of military performance lighting since 1943 with tactical lighting and electrical safety systems that have proven their toughness in and out of combat.

Grote continues that proud tradition with their line of Military Performance LED™ lighting solutions. These high-performance LEDs offer the optimum in visibility and utility, yet are engineered for stealth and safety ... attributes that are paramount to today's War Fighters. In today's combat situations, electromagnetic interference (EMI) allows the enemy to detect exactly where our fighters and equipment are positioned. The Grote Military Products circuit design of Performance LED™ lighting has eliminated the threat of detectable lamp EMI.

When it comes to designing, building and testing a military vehicle lamp, Grote went straight to the source – members of the U.S. Army, the U.S. Marine Corps and the U.S. Army National Guard, in the field. Soldiers rigorously field-tested each product and provided feedback. The result is a product Grote believes will not only help complete missions, but also save lives. In addition, Grote created improved optics that help the vehicle drivers see both farther and wider down the road, while limiting visual detection.

Grote was the first to solve the problem that plagued lighting designers and vexed mechanics; getting a military-grade LED HMMWV Retrofit System to operate within the vehicles existing electronics systems. Grote engineered Performance LED™ Lighting to heavy-duty Military Specs and for easy in field replacement and maintenance ... features that are high on the list for motor pool mechanics.

And Grote's LED lamps feature solid-state construction engineered for reliability and long life with durable electronics and energy-efficient features that produce far less heat than incandescent or fluorescent lamps.

The bottom line is Grote's Performance LED™ lamps outperform when the chips are down. Strategic, Legacy Lighting with better performance...that's Grote Performance LED™ Military Lighting.

Nothing but the best will do for our Soldiers & Marines who put their lives on the line every day.

MILITARY PRODUCTS

BY

Grote

The first name in vehicle safety systems®



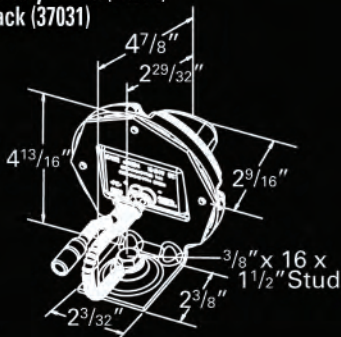
LED

LED BLACKOUT DRIVING LAMP

Adding the LED Blackout Driving Light gives the most technologically advanced nighttime movements.

- 100,000 hour LED life
- Durable lightweight polycarbonate lens and housing
- Circuit board design eliminates the threat of detectable lamp EMI
- Improved optics for more useful light output than previous designs

- 82135 - Blackout, Desert Tan (33446)
- 82005 - Blackout, Military Green (34094)
- 82145 - Blackout, Black (37031)



LED

REAR STOP/TAILO/TURN LED COMPOSITE LAMP WITH BLACKOUT FUNCTION

The only TACOM approved LED Lighting Lamps that are a direct replacement drop in with no additional alterations to the vehicle.

- Bucket mount can be easily installed/removed with standard and Phillips style screwdrivers
- Durable polycarbonate lens, housing, and nylon bucket
- Yellow, zinc-plated steel hardware
- Textured lens to reduce glare
- Camouflaged black-out marker to reduce signature of military vehicle

With Bucket

- 82212 - Red, Desert Tan (33446)
- 82042 - Red, Military Green (34094)
- 82182 - Red, Black (37031)

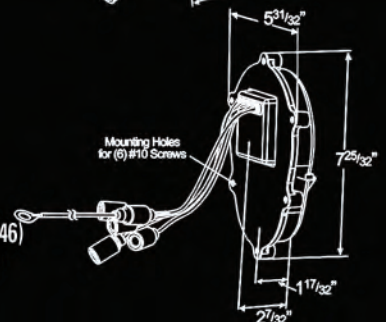
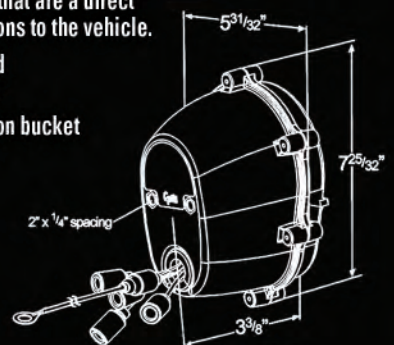
Surface Mount

- 82172 - Red, Desert Tan (33446)
- 82022 - Red, Military Green (34094)
- 82222 - Red, Black (37031)



HMMWV Applications

- 82332 - Red, Desert Tan (33446)
- 82742 - Clear Lens, Desert Tan (33446)
- 82322 - Red, Military Green (34094)
- 82602 - Red, Black (37031)



U.S. 800.628.0809 Canada 800.268.5612



LED

FRONT TURN LED COMPOSITE LAMP WITH BLACKOUT FUNCTION

The only TACOM approved LED Lighting Lamps that are a direct replacement drop in with no additional alterations to the vehicle.

- Bucket mount version can easily be removed/installed with standard and Phillips screw drivers
- Durable polycarbonate lens, housing, and nylon bucket
- Yellow, zinc-plated steel hardware
- Textured lens to reduce glare
- Camouflaged black-out marker to reduce signature of military vehicle

With Bucket

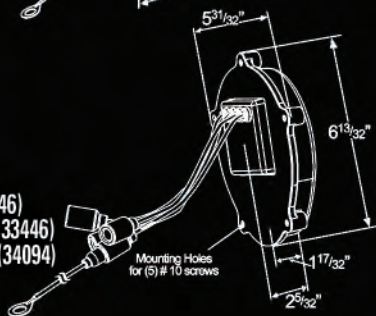
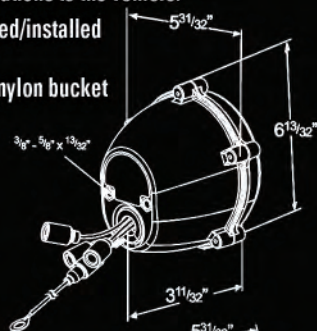
- 82193 - Yellow, Desert Tan (33446)
- 82033 - Yellow, Military Green (34094)
- 82163 - Yellow, Black (37031)

Surface Mount

- 82153 - Yellow, Desert Tan (33446)
- 82013 - Yellow, Military Green (34094)
- 82203 - Yellow, Black (37031)

HMMWV Applications

- 82313 - Yellow, Desert Tan (33446)
- 82733 - Clear Lens, Desert Tan (33446)
- 82303 - Yellow, Military Green (34094)
- 82593 - Yellow, Black (37031)



LED

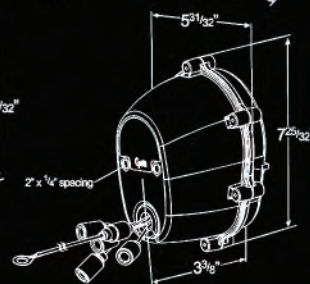
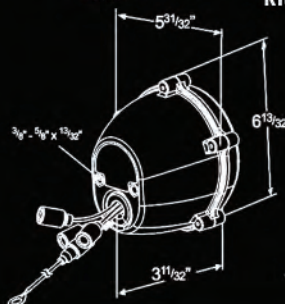
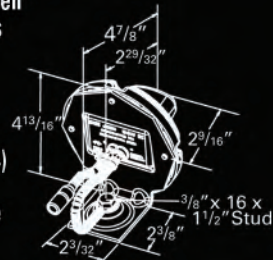
MILITARY HMMWV RETROFIT KITS

Lamps are a direct replacement drop in with no additional alterations to the vehicle necessary.

- One part number to order for complete kit: consisting of both Front and Rear Composite Lamps and the Blackout Drive Lamp
- No painting of lamps necessary - tan, green and black kits match Military color chips
- Circuit board design eliminates the threat of detectable lamp EMI



- 82350-5 - Desert Tan (33446)
- 82340-5 - Military Green (34094)
- 82650-5 - Black (37031)
- 82640-5 - Black w/hardware kit (37031)





LED

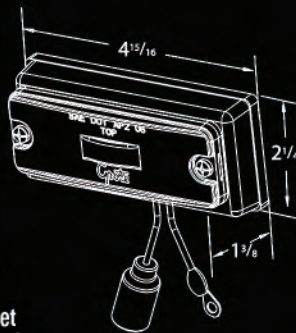
LED LOW PROFILE CLEARANCE/MARKER LAMPS

Complete the vehicle with durable LED Marker Lamps.

- 10-34V circuitry functional on both 14 and 28V electrical system
- LEDs provide long life and low amperage draw
- Utilizes standard Military Connectors
- Low profile, durable housing
- Available in both tan and green housing for multiple theater applications

- 82232 - Red, Tan Kit (33446)
- 82233 - Yellow, Tan Kit (33446)
- 82122 - Red, Green Kit (34094)
- 82123 - Yellow, Green Kit (34094)
- 82762 - Red, Black Kit (37031)
- 82763 - Yellow, Yellow Kit (37031)

- 82442 - Red, Lamp Only with Gasket
- 82443 - Yellow, Lamp Only with Gasket
- 82490 - Bracket Only, Desert Tan (33446)



LED

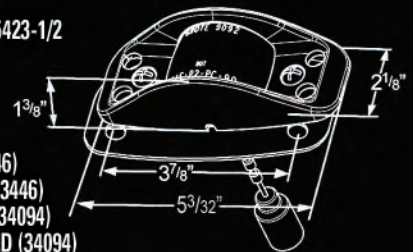
MILITARY STYLE ARMORED CLEARANCE/MARKER LAMPS

Complete the vehicle with durable LED Marker Lamps.

- 14 gauge organic jacketed wire
- Available in both tan and green housing for multiple theater applications
- Mounting pad included
- Replaces 12338610-1/2 and MS35423-1/2
- Easy to install; can be mounted directly without disassembly, unlike competitive models

- 82102 - Red, Desert Tan - LED (33446)
- 82103 - Yellow, Desert Tan - LED (33446)
- 82112 - Red, Military Green - LED (34094)
- 82113 - Yellow, Military Green - LED (34094)

- 82062 - Red, Military Green - Incandescent (34094)
- 82063 - Yellow, Military Green - Incandescent (34094)



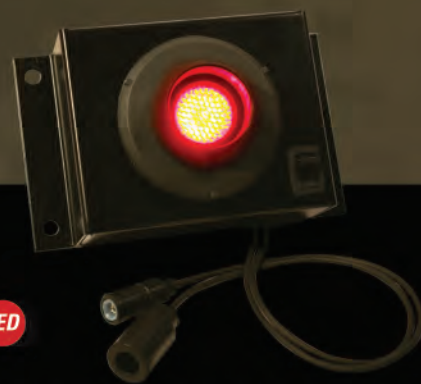
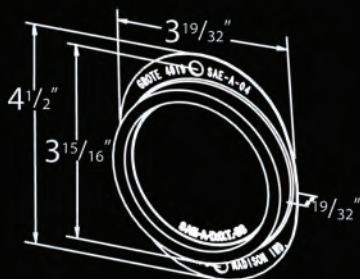


MILITARY STYLE 3" REFLECTORS

Complete the vehicle with durable armored reflectors.

- Recessed lens for extra protection
- Lens gasket cushions lens and protects prisms against dirt
- Available in green or tan for multiple theater application

- 82562 - Red, Tan Base (33446)
- 82563 - Yellow, Tan Base (33446)
- 82552 - Red, Green Base (34094)
- 82553 - Yellow, Green Base (34094)



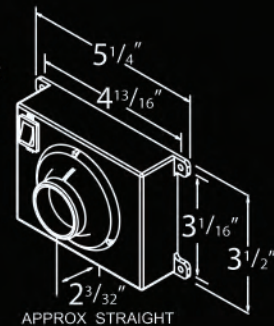
LED

MILITARY STYLE LED MAP LIGHT

Tactically created to work with night vision for black out operations.

- Military Connectors: female plug MS 27144-2 and male plug MS 27142-3
- Red version for Night Vision Goggle compatibility in tactical mode
- Airplane style "eye" can be positioned to place light where needed
- On/Off switch on the base of lamp
- 10-34V circuitry functional on both 14 and 28V electrical system

- 82091 - White
- 82092 - Red, High Output



When a job needs to be done but the lighting conditions are less than optimal, Grote is always there with forward-thinking lighting solutions to tackle the job—and do it safely. Now, Grote's bright ideas have produced LED WhiteLight™ lamps. Grote's innovative LED WhiteLight™ technology produces a bright, even beam with a color temperature and contrast closest to sunlight, reducing eye fatigue and optimizing job performance, and increasing the Soldiers safety. And all of Grote's lamps are built tough to handle the most punishing environments. Grote utilizes solid-state construction and patented, specially formulated encapsulant potting that protects against moisture, vibration and corrosion. Grote continues to revolutionize LED WhiteLight™ technology, engineering ways to dissipate destructive heat that can reduce the quality of the light and shorten an LEDs life.

LED WhiteLight™ BRIGHTER LIGHT
BETTER PERFORMANCE
INNOVATION by Grote Industries, Inc.

Turn on Grote LED WhiteLight™ performance lighting and see what you've been missing!



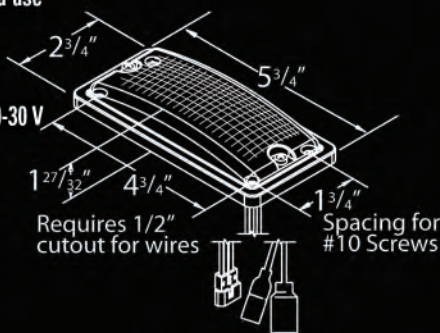
LED

LED LOW PROFILE DOME LAMPS

Tactically created to work with night vision for black out operations.

- Multi-volt versions operate on a variety of systems giving you ultimate flexibility
- Standard Military connectors and fasteners for easy retrofit and replacement
- Lens replaceable but lamps will function without the lens for extended field use
- Dimming function available

- 82370 - White/Red, Black, 10-16 V
- 82071 - White, Gray, High Output, 10-30 V
- 82081 - White, Gray, 10-30 V
- 82390 - White/Blue, Black, 10-16 V
- 82095 - White/Blue, Black, 10-30 V
- 82400 - White/Blue, Black, 18-30 V
- 82380 - White/Red, Black, 18-30 V



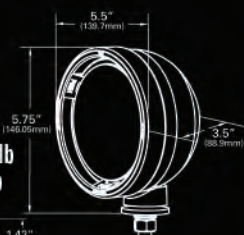
LED

TRILLIANT® 36 LED WORK LAMP AND CONVERSION BULB

40,000-hour service rating, LED WhiteLight™ and lasts over 100 times longer than incandescent PAR 36 lamps.

- Replaceable UV, hard-coated, polycarbonate lens easily converts from a wide flood to TractorPlus™
- Color temperature provides a natural contrast most like sunlight, improving suspect article detection and reducing eye fatigue
- Thermal pull-back circuit and power surge protection
- Encapsulant potting for total circuit board protection against moisture and corrosion
- Circuit board design eliminates the threat of detectable lamp EMI

- 82781 - Stationary, Black
- 01-8281-70 - Stationary, Tan
- 01-8281-72 - Stationary, Green
- 01-8281-71 - Detachable, 36' Cord, Tan
- 01-8281-73 - Detachable, 36' Cord, Green
- 63821-5 - PAR 36 LED TractorPlus™ Conversion Bulb
- 63831-5 - PAR 36 LED Wide Flood Conversion Bulb



IR Versions, Multi-Volt and Alternate Mounting and Termination Configurations Available - Call for Information





LED



Trilliant® Driving Kit 82670-5 Shown



TRILLIANT LED WHITELIGHT™ WORK LAMP

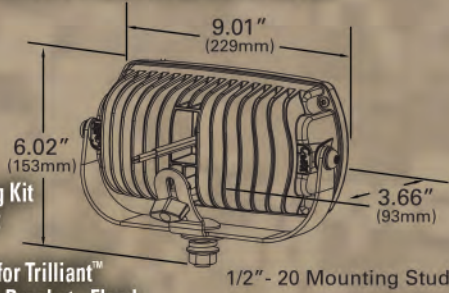
This hard core lamp boasts over 150,000 candela and offers a unique color temperature providing a natural contrast most like sunlight, reducing eye fatigue and optimizing job performance.

- Field tested in brutal off-road applications and in theater
- Mounting requires no tools for horizontal adjustments
- Delivers 35,000 hrs. of operation vs. 3,000 hrs. for HID and 1,000 hrs. for halogen lamps
- Replaceable hard-coated lens provides many years of service
- Beam pattern can be easily changed with optional replacement lenses
- Instant on versus "warm up/cool down" time required by HID products
- Circuit board design eliminates the threat of detectable lamp EMI

- 63671 - 28V Spot
- 63681 - 28V Flood
- 63691 - 28V Trapezoid
- 63771 - 28V Wide Flood

- 82670-5 - HET Driving Kit
- 82680-5 - HEMTT LED Driving Kit
- 82690-5M915 LED Driving Kit

- 43652 - Adjustable Bracket for Trilliant™
- 01-6368-80 - with Adjustable Bracket - Flood



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