Ambulance Safety Lighting

KKK-A-1822F Application Solutions from Grote



The first name in vehicle safety systems

Why Grote - We are the first name in vehicle safety systems.

Award Winning State-of-the-Art Facilities

 Advanced Manufacturing Systems

- Advanced Quality
 Assurance Systems
- Advanced Customer Service Systems

Grote Industries is a leading manufacturer and marketer of vehicle lighting and safety systems. Our company was founded in the heartland more than 100 years ago and has remained family owned from the day William Grote opened the doors for business.

With manufacturing locations in Canada, Mexico, and the United States, we are the only heavy duty lighting supplier that can boast to be a true NAFTA company. We are an industry leading manufacturer, the first to receive our TS16949 certification in the heavy duty lighting industry.

Our company is steeped in tradition with a continued focus on innovation as well as a strong commitment to providing quality products and services. We still hold firm to the family values and work ethics set forth by our founder all those years ago.











Grote Industries World Wide Headquarters – Madison IN, USA

Grote Industries Canada – Toronto, Ontario, Canada

Grote Electronics – Waterloo, Ontario, Canada

Grote de Mexico -Monterrey, Mexico

Grote Europe – Niederwinkling, Germany

See the Difference...Simply Stated...Simply Evident.

Better Light, Better Performance™

Grote has spent countless hours studying the difference between "brightly lit" and "optimally lit" environments. We understand the relationship between lighting and human and vehicle performance. Our optical engineers have designed the entire array of Grote LED WhiteLight[™] Work Lamps to provide maximum visual comfort while reducing fatigue, stress and operator error – all while being some of the most durable and reliable lamps on the planet.

The Grote Performance Advantage™

It's not just a matter of building a "bright light" – it's a dedication to delivering the "right light" that continues to set Grote apart. We engineer light to meet the specifications of unique environments – optimizing the lighting conditions for the operations to be performed within them.

Trilliant® High-Performance LED Work Lamps

Grote's Trilliant[®] Family of LED WhiteLight[™] Work Lamps are the industry's most advanced and have set a new standard for value, durability and performance.

KKK-A-1822 section 3.8.4.1 states that the patient compartment floor should have more than 15 foot candles of intensity. This measurement is to be taken along the center line of the clear floor. With the cot in position, the minimum illumination should exceed 35 foot candles on at least 90% of the cot's surface area.



All of the products mentioned in this catalog are either water and/ or spray resistant.



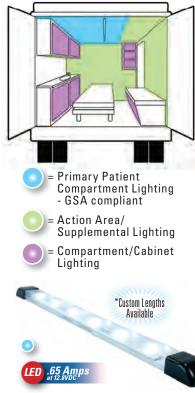
2600 Lanier Drive, Madison, Indiana U.S.A. 47250-0550

U.S. 800.628.0809 Canada 800.268.5612

grote.com

KK-A-1822

Interior Illumination Primary patient compartment, action area, supplemental compartment and cabinet illumination.



HIGH OUTPUT SLIMWHITE LAMP

High-output LED dome lamp emits low heat. Tough poly-carbonate lens. Sturdy aluminum base. Profile is less than 3/4" high Rated at 50,000 service hours. Velcro[®] and other mounting clip options available. When properly mounted meets GSA-KKK 1822 ambulance dome lamp standards. Call your Grote representative for more information on custom lengths.

61G81 - 12V, 18", Clear Lens, 700 Lumen, .65A 61G01 - 12V, 48", Clear Lens, 3 function 2100 Lumen max, 1.3A, .65A, 1.95A



6.5" S100 LED WHITELIGHT SURFACE MOUNT DOME LAMP

Low profile sleek design, less than 15.0mm depth. Moisture proof construction allows for a wide variety of uses. Surface mount allows for quick and easy installation. 300 Lumens of output utilizing the latest LED WhiteLight[™] technology. Operates at -40C to +50C. 12V / .6A; 24V / .38A.

61391 - 12V 61401 - 24V 61411 - 12V, w/Motion Sensor 61421 - 12V, w/Motion Sensor



LED WHITELIGHT™ 7" ROUND **DOME LAMP WITH DIMMING FUNCTION**

High output LED WhiteLight[™] dome lamp with 3 wire termination for switching to dim mode. Commonly used (but not limited to) in ambulance applications. Encapsulated potting for total circuit board protection against moisture and corrosion. Shallow recess requires only 1 1/4" depth for mounting pan. Self-resetting cutoff design in case lamp experiences excess heat. When properly mounted meets GSA-KKK 1822 ambulance dome lamp standards.

61191 - 12V, White



LED SLIMWHITE

High-output 500 lumen LED dome lamp emits low heat. Tough polycarbonate lens, sturdy aluminum base and conformal coated circuits. Profile is less than 3/4" high Rated at 50,000 service hours. Velcro® and other mounting clip options available. Call your Grote representative for more information on custom lengths.

61E81 - 12V, 18" - White - 500 Lumens 61F01 - 12V w/Switch, 18" - White - 500 Lumens 61281 - 12V, 48" - White - up to 1500 Lumens!



4" LED WHITELIGHT[™] LAMP

Uses 70% less power than incandescent options. Integrated flange for easy installation. Male Pin for multiple pigtail and connection options.

61E41 - 12V, Grommet Mount 61E51 - 24V, Grommet Mount 61E01 - 12V, Integrated Flange 61E11 - 24V, Integrated Flange

See page 6 for mounting options.



18" LED WHITELIGHT™ **RECESSED-MOUNT DOME** LAMP WITH DIMMING **FUNCTION**

Encapsulant potting for total circuit board protection. Robust, one-piece, aluminum housing and removable acrylic lens. Built-in, automatic thermal protection device. Operating temperatures -40C to +50C. When properly mounted meets GSA-KKK 1822 ambulance dome lamp standards

61E61 - 12V. White



COURTESY AND DOME RECTANGULAR LED LAMP

LED lamp is rated to 50,000 hours. Fits existing, similar incandescent lamp mountings. Low heat will not melt lens. Encapsulant potting for total circuit board protection against moisture and corrosion. Dimensions 4.75x2.75.

61F30 - 10-32 V, White/Red, Black, Surface-Mount 61F40 - 10-32 V, White/Blue, Black, Surface-Mount 61F51 - 10-32 V, White, Black, Surface-Mount 61991 - 12V, White, 6 Diodes, Recess-Mount



OVAL LED UTILITY LAMP

400 lumens of powerful LED WhiteLight[™] that uses 70% less power. Male Pin connection.

61G31 - 12V, Male Pin See page 6 for mounting options.

2600 Lanier Drive, Madison, Indiana U.S.A. 47250-0550 U.S. 800.628.0809 Canada 800.268.5612





grote.com

3

Exterior Illumination Perimeter, stepwell, cabinet, compartment and

scene illumination.

OD C



TRILLIANT[®] LED WHITELIGHT

This 6" x 9" surface mount, rugged, high-output lamp uses Grote's proven premier LED WhiteLight™ technology. The light output of the Trilliant[®] rivals HIDs, eclipses halogen competitors and provides beam pattern evenness and color temperature that produce a contrast most like that of natural sunlight.

- 63761 10-30V, Wide Flood, Black
- 63771 24V, Wide Flood, Black 63931 Bi-Voltage, Wide Flood, White 63581 10-30V, Flood, Black
- 63681 24V, Flood, Black
- 43652 Mounting Bracket, Black 43651 - Mounting Bracket, White



TRILLIANT[®] 36 LED WHITELIGHT

The Trilliant® 36 LED WhiteLight™ with Mounting Bracket was created to give the user the ability to install an LED WhiteLight™ Work Lamp that offers total flexibility. The lamp is designed to allow 180-degrees of vertical rotation, it takes up little space and can be mounted virtually anywhere. The lamp assembly comes with a Packard-style connector and pigtail. Replaceable UV, hard-coated, polycarbonate lenses are also a standard feature

63871-5 10V-30V, Bracketed, Wide Flood 63971 10V-30V, LED Bulb, Packard Connector, Wide Flood

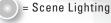


1.4 Amps LED

OVAL LED UTILITY LAMP 6"

400 lumens of powerful LED WhiteLight[™] that uses 70% less power. Male Pin connection.

61G31 - 12V, Male Pin See page 6 for mounting options.





Compartment/Cabinet Lighting



TRILLIANT[®] MINI LED WHITELIGHT

An excellent 4" x 6" work lamp for any instance where a high-output illumination source is needed. Like its big brother, this low-power, long-life lamp delivers beam pattern evenness and color temperature that produce a con-trast most like that of natural sunlight. Mount it anywhere and enjoy thousands of hours of brilliant LED WhiteLight." The versatile Trilliant® Mini also comes in a flush-mount version and any Trilliant® mini can be installed with an optional flush-mount bracket.

63601 - 12V, Spot	63731 - 24V, Spot
63611 - 12V, Flood	63741 - 24V, Flood
63621 - 12V, Trapezoid	63751 - 24V, Trapezoid
63610 - 12V, Flush Mount Lamp, Flood	



.05 Amps **MICRONOVA DOT SMALL ROUND UTILITY LAMP**

Great for the hard to reach places, corners, steps, ect. 40 lumens of LED WhiteLight[™].05 AMPS @ 14V.

49341 - 12V, White 49351 - 24V. White



nI

ETI

LED WHITELIGHT[™] LAMP **4**"

Uses 70% less power than incandescent options. Integrated flange for easy installation. Male ${\rm Pin}$ for multiple pigtail and connection options.

61E41 - 12V, Grommet Mount 61E51 - 24V, Grommet Mount 61E01 - 12V, Integrated Flange 61E11 - 24V, Integrated Flange

See page 6 for mounting options.



LED COURTESY STEPWELL LAMP

Electronics completely encapsulated with durable epoxy for maximum environmental protection. Same mounting as popular incandescent versions. Connections can be easily adjusted for typical installations. Designed for bus electronics for seamless integration into existing platforms. ADA compliant. .3 AMPS @ 14V

60571 - 12V. Chrome



2600 Lanier Drive, Madison, Indiana U.S.A. 47250-0550

U.S. 800.628.0809 Canada 800.268.5612

grote.com

Support Products - Signal Lamps



SUPERNOVA[®] 4" NEXGEN™ LED STOP / TAIL / TURN

Less current draw than standard incandescent lamps for increased fuel efficiency and more power available to other vehicle systems. 20% less current draw than major competitor LED products. Fully encapsulated circuitry provides protection from the elements. Similar look to incandescent light, which helps prevent theft.

54332 - Red, Male Pin 54333 - Yellow, Male Pin



SUPERNOVA[®] 4" 10-DIODE PATTERN STOP / TAIL / TURN LED LAMP

Lens design spreads light for maximum dispersion Encapsulant potting for total circuit board protection. Hermetic lens-to-housing seal. Advanced Pin Connection System uses tin-plated, solid brass pin terminals. Uses same UBS pigtail as Male Pin incandescent.

53252 - Red, Male Pin 53552 - Red, Hard Shell

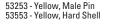
LED 0.48 Amp

TAIL/TURN LAMP

for vertical & horizontal mounting.

53962 - Red, Male Pin

53963 - Yellow, Male Pin





SUPERNOVA® 4" FULL-PATTERN STOP / TAIL / TURN LED LAMP

LED 0.25Amp

SUPERNOVA® 4" DUAL

SYSTEM LED BACK-UP LAMP

Requires two lamps to meet back-up function. Environmental encapsulant potting for total circuit

board protection. Advanced pin connection system

uses tin-plated, solid brass terminations. Uses same UBS pigtail as male incandescent. Hard coated lens for

62391 - Round, Horizontal Mount, Clear, Male Pin

IFD

0.3 Amp

Encapsulant potting for total circuit-board protection. Hermetic lens-to-housing seal. Advanced pin connection system uses tin-plated, solid brass pin terminations. Uses same UBS pigtail as Male Pin incandescent.

53312 - Red, Male Pin 53313 - Yellow, Male Pin

long-term UV protection.



SUPERNOVA® LED 9-DIODE OVAL **STOP/TAIL/TURN LAMP**

High visibility optics combined with high output LED's result in a high performing stop, tail and turn lamp. Available in Grote OEM male pin, hard shell, and hard wired termination options for easy retrofit or replacement. Electronics completely encapsulated with durable epoxy for maximum protection from the environment. Fits current mounting flanges and grommets.

54132 - Red, Male Pin 54142 - Red, Hard Shell

54133 - Yellow, Male Pin 54143 - Yellow, Hard Shell



SUPERNOVA® 4" DUAL **SYSTEM LED BACK-UP LAMP**

Fits standard round or oval grommets and brackets. Hermetically sealed lamp prevents water intrusion. Requires two lamps to meet back-up function. Encapsulant potting for total circuit board protection





SUPERNOVA® LED OVAL STOP/

Advanced Pin Connection System uses tin-plated, solid-brass terminals. Encapsulant potting covers LED circuit board. Male pin termination for premium sealability. Meets specifications

LED 0.03 Amps

SMALL RECTANGULAR LED LICENSE LAMP

Hermetically sealed lamp prevents water intrusion. Hardwired with .180 slim-line UBS plug connections for maximum performance. Indexed, snap-fit mounting to brackets.

60601 - Clear 5790 - 90° Kit (60601 + 43960), Gray 60601 - Kit (60601 + 42162) Black



MICRONOVA® DOT CLEARANCE / MARKER LED LAMPS

Small size provides more flexibility. Outperforms all legal requirements. Available in PC and P2 versions. Sleek aerodynamic styling extrudes less than 3/8" from mounted surface. No fasteners required. Available in 12V and 24V versions

49322 - Red P2 w/ Grommet 49332 - Red PC w/ Grommet 49333 - Yellow P2 / PC w/ Grommet



2600 Lanier Drive, Madison, Indiana U.S.A. 47250-0550 U.S. 800.628.0809 Canada 800.268.5612

grote.com

Support Products - Pigtails Brackets and Grommets.



GROMMET FOR 6" OVAL OR 4" ROUND LAMPS

Fits 6" oval or 4" round lamps. Oval fits $2.5"\ x\ 6.76"$ size hole and round fits 4.5" hole. Both fit panel thickness up to 1/4".

92420 - Oval, Open Back 92720 - Oval, Closed Back 91740 - Round, Open Back 91950 - Round Closed Back



THEFT-RESISTANT MOUNTING **FLANGE FOR OVAL OR ROUND 4" LAMPS**

Snap-in feature, locks lamp in place to reduce chance of theft. Attractive add-on option improves the look of any rig or trailer.

- 43723 Oval, Stainless Steel
- 43223 Oval, Chrome Plated, ABS
- 43222 Oval, Black, Polycarbonate 92510 4" Round, White, Polycarbonate 92512 4" Round, Black, Polycarbonate
- 92511 4" Round, Gray, Polycarbonate 92513 4" Round, Chrome Plated, ABS
- 43253 4" Round, Stainless Steel



MOUNTING BRACKET FOR OVAL OR 4" ROUND LAMPS

90° angle bracket. For use with oval or round lamps. Grommet required for mounting.

43362 - 90°, Oval, Black 42042 - 45°, Oval, Black

43572 - 90°, 4" Round, Black 42052 - 45°, 4" Round, Black



"Z" MOUNTING BRACKET FOR OVAL LAMPS

Heavy gauge steel, baked black enamel finish. Grommet or flange required for mounting.

43952 - Black



SNAP-IN THEFT-RESISTANT FLANGE FOR 4" ROUND LED LAMPS

Flange is held in place by snap tabs as opposed to standard screw holes, for a quicker, easier installation. Snap tabs on the flange lock the flange into place, keeping it from backing out of the hole. Flange is theft-resistant once snap tabs are in place. Foam gasket cushions flange from vibration and road shock. Panel thickness .120" to .250" thick mounting hole size 4.50" diameter.

93553 - Chrome 93552 - Black 93550 - Gray 43702 - Red, Reflex



SURFACE MOUNT SNAP-IN **FLANGE FOR OVAL LAMPS**

Allows for quick and easy surface mount application.

42153 - Chrome 42152 - Black 94540 - Gray, 4" Round



66846

68580

68830

STOP / TAIL / TURN THREE-WIRE PLUG-IN **PIGTAILS FOR MALE-PIN LAMPS**

Dual function for S / T / T lamps. O-ring seal resists moisture and corrosion. Quality ULTRA-BLUE-SEAL[®] construction. Grease grooves for additional sealing protection.

66815 - 6" Long, Ground Return System, Slim-line .180 Male 66816 - 6" Long, Ground Return System, 90° Plug, Slim-line .180 Male

TWO-WIRE PLUG-IN PIGTAILS FOR MALE-PIN LAMPS

Straight-in pigtail. Single function. O-ring seal resists moisture and corrosion. Quality ULTRA-BLUE-SEAL® construction. Grease grooves for additional sealing protection.

66842 - 10" Long, Chassis Ground, Slim-line .180 Male 66846 - 10" Long, Chassis Ground, 90° Plug, Slim-line .180 Male

ADAPTER PLUGS

Female to male pin lamp termination, and male to female pin lamp termination

66836 - 6" Long, Female Pin to 90° Male Pin Lamp Termination 66830 - 6" Long, Female Pin to Male Pin Lamp Termination

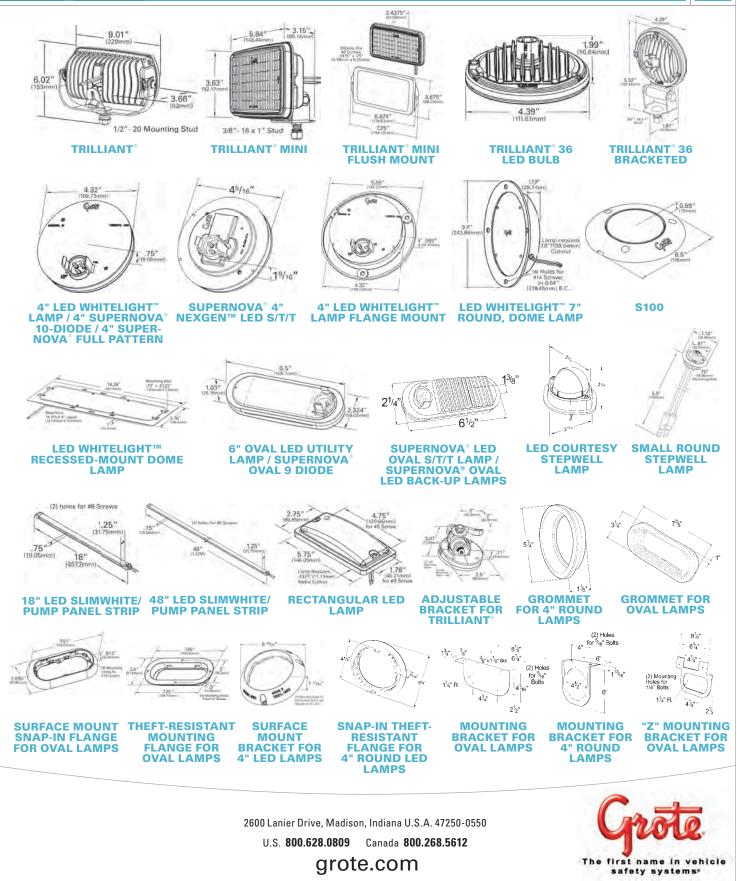


2600 Lanier Drive, Madison, Indiana U.S.A. 47250-0550

U.S. 800.628.0809 Canada 800.268.5612

grote.com

Dimensions - Signal Lamps, Brackets and Grommets.





William D. Grote, Founder Grote Industries 1901

A family's commitment to the vehicle and transportation lighting industry, spanning more than four generations

Just like many of the distributors, fleets and OEM's Grote Industries serves, we're a family-owned business. Like a number of our customers, we're proud of our family's multi-generational commitment to the transportation industry, reaching back more than a century. If you know the Grote family, you also know that the vehicle lighting business is not just a job to us, it's something that's molded into our family's culture – part of our very DNA. We're fond of saying that "lighting is in our blood" and we're only half kidding.

Unlike many institutionally-owned companies, we're able to draw on our family's time-honored values, built upon our tradition of service to the industry and our fierce entrepreneurial spirit. We're thankful for the visionary legacy of our predecessors and because of it, we can't help but to see the past, present and future of the lighting industry in a different context from those who simply find themselves working in the lighting business. Founded on the principles of solid customer relationships, continuous innovation and exceptional product performance, Grote is committed to propelling itself and its industry forward, with inventive products and challenging ideas.

As a corporation, our family's culture extends to our entire organization, around the globe and particularly to our customer-facing staff. Grote is not sales oriented, we're not engineering oriented – we're relationship oriented and we're working hard every day to uphold our reputation and continue to earn your trust.

The Grote family has played a prominent role in shaping the vehicle lighting industry. We are deeply and personally engaged today, as we will be in the future, to make the kind of brave choices and bold decisions that will help move the vehicle lighting industry ahead and into an even brighter tomorrow.

Grote Industries, Inc. 2600 Lanier Drive

Madison, Indiana 47250 USA Phone: 812-273-1296 Phone: 800-628-0809 Fax: 812-265-8440 Email: safety@prote.com Grote Manufacturing, Ltd. 230 Travail Road Markham, Ontario L3S 3J1 Canada Phone: 905-209-9744 Phone: 800-268-5612 Fax: 905-209-9757 Fax: 800-267-9024 Email: canada@grote.com

Grote Industries de México, S.A. DE C.V

Ave. Rogelio González Caballero 225 Parque Industrial Stiva Aeropuerto Apodaca, Nuevo León México Código Postal 66600 Phone: 011 (52) 81-8262-4400 Fax: 011 (52) 81-8262-4404 Email: mexico@grote.com Grote Industries Europe GmbH Am Schaidweg 3 D-94559 Niederwinkling Germany Phone: +49 9962 / 20008-0 Email: europe@grote.com

