

LED LIGHTING FOR AMBULANCE

Ambulance Safety Lighting

KKK-A-1822F Application
Solutions from Grote

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

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.



The first name in vehicle safety systems®

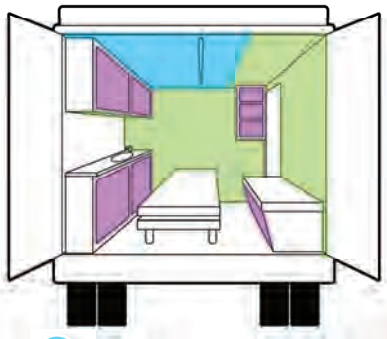
2600 Lanier Drive, Madison, Indiana U.S.A. 47250-0550

U.S. 800.628.0809 Canada 800.268.5612

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Interior Illumination

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



- = Primary Patient Compartment Lighting - GSA compliant
- = Action Area/ Supplemental Lighting
- = Compartment/Cabinet Lighting



LED .65 Amps
at 12.8VDC

HIGH OUTPUT SLIMWHITE LAMP

High-output LED dome lamp emits low heat. Tough polycarbonate 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 Lumens, .65A
- 61G01 - 12V, 48", Clear Lens, 3 function 2100 Lumen max, 1.3A, .65A, 1.95A



LED 0.6 Amps
at 12VDC

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 2.38 Amps
at 12VDC

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 2.17 Amps
at 14VDC

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



LED 0.6 Amps
at 12VDC

LED 1.2 Amps
at 12VDC

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!



LED 0.48 Amps
at 12VDC

LED 0.25 Amps
at 14VDC

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



LED 0.6 Amps
at 12VDC

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.



LED 0.6 Amps
at 12VDC

6" 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.

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Exterior Illumination

Perimeter, stepwell, cabinet, compartment and scene illumination.



Shown with optional mounting bracket

LED 5.0 Amps
at 12VDC

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



LED 1.4 Amps
at 12VDC

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



LED 1.4 Amps
at 12VDC

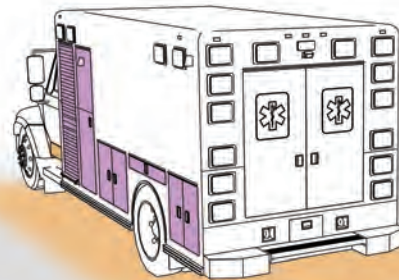
6" OVAL LED UTILITY LAMP

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

- 61G31 - 12V, Male Pin

See page 6 for mounting options.

- = Scene Lighting
- = Perimeter/Stepwell Lighting
- = Compartment/Cabinet Lighting



LED 1.4 Amps
at 12VDC

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



LED 0.6 Amps
at 12VDC

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.



LED .05 Amps
at 28 VDC

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



LED 0.3 Amps
at 14VDC

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



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Support Products - Signal Lamps



LED 0.24 Amps
at 12VDC

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



LED 0.24 Amps
at 12VDC

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 53253 - Yellow, Male Pin
53552 - Red, Hard Shell 53553 - Yellow, Hard Shell



LED 0.48 Amps
at 12VDC

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

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



LED 0.02 Amps
at 13.5VDC

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 54133 - Yellow, Male Pin
54142 - Red, Hard Shell 54143 - Yellow, Hard Shell



LED 0.48 Amps
at 12VDC

SUPERNOVA® LED OVAL STOP/TAIL/TURN LAMP

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

53962 - Red, Male Pin
53963 - Yellow, Male Pin



LED 0.25Amps
at 13.5VDC

LED 0.3 Amps
at 13.5VDC

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 long-term UV protection.

62391 - Round, Horizontal Mount, Clear, Male Pin
62601 - Oval, Horizontal Mount, Clear, Male Pin
62591 - Oval, Horizontal Mount, Clear, Male Pin



LED 0.55Amps
at 13.5VDC

LED 0.3 Amps
at 13.5VDC

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

62091 - Round, Clear, Male Pin
62101 - Round, Clear, Hard Shell
62051 - Oval, Male Pin
62761 - Oval, Hard Wire



LED 0.03 Amps
at 12VDC

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



LED 0.03 Amps
at 12VDC

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

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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



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



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 43572 - 90°, 4" Round, Black
42042 - 45°, Oval, 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



SURFACE MOUNT SNAP-IN FLANGE FOR OVAL LAMPS

Allows for quick and easy surface mount application.

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



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

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Dimensions - Signal Lamps, Brackets and Grommets.

TRILLIANT®
9.01" (229mm) x 6.02" (153mm) x 3.66" (93mm)
1/2" - 20 Mounting Stud

TRILLIANT® MINI
5.84" (148.4mm) x 3.15" (80.14mm) x 3.63" (92.7mm)
3/8" - 16 x 1" Stud

TRILLIANT® MINI FLUSH MOUNT
3.4375" (87.9mm) x 3.875" (98.4mm) x 6.875" (174.6mm)
19 Holes For #8 Screws: 18.75" x 25" (476mm x 635mm)

TRILLIANT® 36 LED BULB
4.39" (111.62mm) x 1.99" (50.64mm)

TRILLIANT® 36 BRACKETED
4.39" (111.62mm) x 5.92" (150.42mm) x 1.87" (47.65mm)

4" LED WHITELIGHT™ LAMP / 4" SUPERNOVA® 10-DIODE / 4" SUPERNOVA® FULL PATTERN
4.32" (109.73mm) x 1.75" (44.25mm)

SUPERNOVA® 4" NEXGEN™ LED S/T/T
4.5 1/16" x 1.7 1/16"

4" LED WHITELIGHT™ LAMP FLANGE MOUNT
5.68" (142.2mm) x 4.32" (109.73mm) x 1.58" (40.1mm)

LED WHITELIGHT™ 7" ROUND, DOME LAMP
9.6" (243.84mm) x 1.13" (28.71mm)
Lamp requires 7.6" (193.04mm) Cutout
4 Holes for #14 Screws: 5x 8.64" (218.45mm) B.C.

S100
6.5" (165mm) x 1.09" (27.6mm)

LED WHITELIGHT™ RECESSED-MOUNT DOME LAMP
18.25" (463.65mm) x 5.76" (146.4mm) x 1.3" (33mm)
Requires 18.575" x 4" recess (46.675mm x 101.6mm)

6" OVAL LED UTILITY LAMP / SUPERNOVA® OVAL 9 DIODE
6.5" (165.1mm) x 2.324" (59.04mm) x 1.03" (26.17mm)

SUPERNOVA® LED OVAL S/T/T LAMP / SUPERNOVA® OVAL LED BACK-UP LAMPS
2 1/4" x 6 1/2" x 1 3/8"

LED COURTESY STEPWELL LAMP
3 1/2" x 2 1/4" x 1 1/8"

SMALL ROUND STEPWELL LAMP
1.13" (28.9mm) x 1.13" (28.9mm) x 1.13" (28.9mm)
7/8" (22.23mm) Mounting Hole
5.9" (149.6mm)

18" LED SLIMWHITE/ PUMP PANEL STRIP
18" (457.2mm) x 1.25" (31.75mm) x .75" (19.05mm)
(2) holes for #8 Screws

48" LED SLIMWHITE/ PUMP PANEL STRIP
48" (1219mm) x 1.25" (31.75mm) x .75" (19.05mm)
(4) holes for #8 Screws

RECTANGULAR LED LAMP
5.75" (146.05mm) x 4.75" (120.65mm) x 2.75" (69.85mm)
Lamp Requires: 4.375" (111.13mm) Radial Cutout
1.78" (45.21mm) for #8 Screw

ADJUSTABLE BRACKET FOR TRILLIANT®
3.07" (77.97mm) x 3.5" (88.9mm) x 2.1" (53.34mm)

GROMMET FOR 4" ROUND LAMPS
5 1/2" x 1 1/8"

GROMMET FOR OVAL LAMPS
7 3/8" x 1"

SURFACE MOUNT SNAP-IN FLANGE FOR OVAL LAMPS
7.91" (200.91mm) x 3.69" (93.77mm) x 1.81" (45.97mm)
18 Mounting Holes for #10 Screws

THEFT-RESISTANT MOUNTING FLANGE FOR OVAL LAMPS
7.88" (200.1mm) x 3.5" (88.9mm) x 1.75" (44.25mm)
12 Mounting Holes for #10 Screws

SURFACE MOUNT BRACKET FOR 4" LED LAMPS
5 7/16" x 1 1/4"

SNAP-IN THEFT-RESISTANT FLANGE FOR 4" ROUND LED LAMPS
4 1/2" x 5 1/4" x 1 1/4"

MOUNTING BRACKET FOR OVAL LAMPS
1 3/4" x 7/8" x 1 1/4" R
3/8" x 1 1/4" Slot
8 1/2" x 6 1/4" x 4 1/8"

MOUNTING BRACKET FOR 4" ROUND LAMPS
4" x 4" x 1 1/8"
(2) Holes for 3/16" Bolts
4 1/2" x 6" x 1 1/8"

"Z" MOUNTING BRACKET FOR OVAL LAMPS
8 1/4" x 6 1/4" x 4 1/4" x 2 1/2"
(2) Mounting Holes for 1/4" Bolts
1 1/4" R

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**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.

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