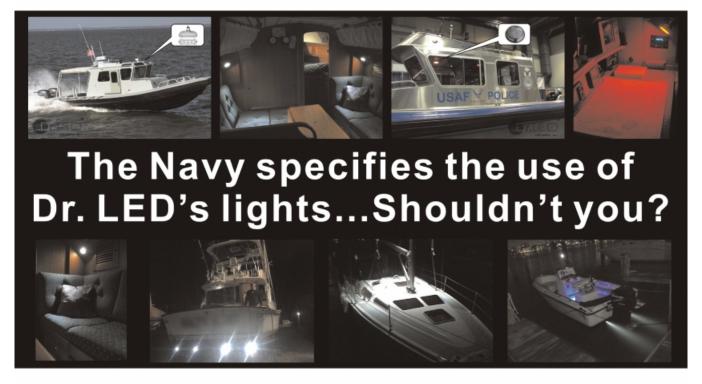
#1 Selling LED Brand







Dr. LED High-Quality Marine LED Products you can count on!
Designed in the USA and built to last.

Marine Lighting Catalog



www.DoctorLED.com







The Dr. LED Story

With their extensive background in aerospace and being avid boaters themselves, the engineers at Dr. LED provide the perfect mix of experience and enthusiasm to develop high tech, durable, and energy efficient LED lighting products specially designed for the marine environment.

Their use of cutting edge designs using the highest quality components (yes, there <u>is</u> a difference) and thorough testing of each individual product before it leaves the factory, ensures that each Dr. LED product will provide the performance and durability that you expect.

The Dr. LED Advantage:

- US based engineering designed in Seattle, Washington, USA.
- Extensive background in aerospace.
- Truly innovative marine quality LED products.
- US patents awarded.
- High-quality components and designs.
- Each and every product tested for 2 hours at the factory.
- Specified by the US Navy, Air Force, Coast Guard, and US Government.
- First and only aftermarket 2nm LED bulbs for nav lights.

Milestones:

- 2005 First to use regulated LED bulbs in the marine market.
- 2006 First and only one to obtain USCG COLREG 1972 ABYC 2NM certified LED aftermarket replacement bulbs for navigation lights.
- 2007 First to use US made CREE high-power LEDs in the marine market.
- 2007 First to use warm white LED bulbs in the marine market.
- 2008 First to provide a single high-power bi-color LED chart light for the marine market.
- 2010 The US Navy specifies the use of Dr. LED's lights in their boats and specified by the US Federal Government with National Stock Numbers.
- 2006-2015 First to develop true 1-to-1 LED replacements for 2NM LED bulbs for navigation and interior lights (BA15, festoon S8.5, BA9S, wedge bases etc.).

How to contact Dr. LED:

Dr. LED 12345 Lake City Way NE #181 Seattle, WA 98125 USA

info@DoctorLED.com

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LED Searchlight: LED Star Phaser™

With Handy Laser Pointer PN: 8001030





LED Star Phaser™:

The LED Star Phaser searchlight is so bright you can read a book when the light is held 50 feet (15m) away. This high-quality marine-grade 700 lumen LED search / flash / strobe light outperforms any other LED light in the same category in terms of price, performance, and versatility. Three U.S. made LEDs provide the most lumens-per-watt LED light ever made. Both flood and spot beams are provided for area and distance illumination. The light is equipped with a red laser pointer for general and emergency use. (No more yelling to your shipmates to get this and that!) The Star Phaser is so bright it can disorient an intruder at close quarters. Set the unit on strobe for emergency use. This provides 6-hour, 5-mile (8km) visibility and is best used for rescue purposes. The light will float up to 15 minutes for timely retrieval from water.

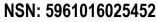
PN: 8001030 Features

- Three state-of-the-art 3W U.S. made high-quality high-power LEDs.
- High-intensity white LED light travels farther for maximum visibility.
- Instant on, no warm-up of bulb needed.
- Water-resistant polycarbonate body (IP65).
- Anodized aluminum heat sink to ensure long LED life.
- Durable rubberized head and handgrip.
- Two brightness settings: 700 lumens / 270 lumens.
- High / Low / Strobe trigger switch.
- Long operating time: 1.5 hours on high / 4 hours on low / 6 hours on strobe.
- Powered by a 7.2V 6 Cell NiMH rechargeable battery with intelligent battery management circuit and LED battery status indicator.
- Universal 100-240 VAC wall charger and 12 VDC chargers are included.
- Weight: 579g (1.3 lbs).

Replacement NiMH Rechargeable Battery Now Available: PN:9000227.

LED Spreader/Deck/Rail Light (12/24V): Kevin X4™ The Navy specifies the use of this light. Shouldn't you?

PN: 8001344-02 (White) PN: 8001993 (Black)









#1 High-Power 1380 Lumen LED Light

1380+ lumen rated high-power LEDs provide the highest lumen-per-watt light, outperforming other LED lights in its class.

Designed to be mounted up to 30' above deck with aerodynamic shape.

Replaces 50W halogen spotlight.



ADC12 high purity die cast aluminum housing and lens bezel provide ample heat sinking as well as ingress protection to ensure a long operational life.

Marine grade 3-stage durable UV 3800 powder coated finish.

Ultra-long life. Highly shock and vibration resistant.

NMMA, USCG, ISO 8846 & SAE J1171 Ignition Protection Compliant.

PN: 8001344-02 NSN: 5961016025452 **Features**

- NMMA, USCG, ISO & SAE Ignition Protection Compliant.
- IP68, MIL-STD-810G Vibration & Shock Proof, ASTM B117 Salt Spray (Fog) Compliant.
- CE, FCC Part 15, RoHS Compliant.
- 6,000 Degree Kelvin Cool White with 1,380 Lumens (based on LED manufacturer specifications).
- 50,000 Hour Life Span Rated US Made LEDs.
- Long Service Life, Shockproof, Ultra-Rugged with no filament to burn out or break.
- Operating Temperature: -40 to +145 Degree F (Withstands temperature extremes).
- Designed in the USA.

Specifications:

Electrical:

Input Voltage: 12/24 VDC or 12 VAC (1.5A @ 12 VDC)

Max Input Power: 20W

Non-Polarized Connection. Reverse Polarity Protected Under-Voltage and Voltage Spike Protected

Electrically Protected Against RFI/EMC Interference

Integrated Thermal Management

Optional Accessory:

Horizontal Rail (PN: 9000319) and Vertical Rail (PN: 9000326) Mounts For 7/8" to 1 1/4" dia. rails.

Mechanical:

3 Stage Durable UV 3800 Powdercoat Unbreakable Polycarbonate Lens ADC12 High Purity Aluminum Housing and Lens Bezel Low Profile Stainless Steel U Bracket Mount with 1/4" Bolt

1M 7mm Round PVC IP68 UL2464 18AWG 300V 80C Red/Black Cable Pair Dimensions: 154mm (6") width, 50mm (2") height, 66mm (2.6") depth

Weight: 522g (18oz)

Mounting Hardware Required: one 1/4" dia. hole





LED Spreader/Deck/Rail Light (12/24V): Kevin Jr. X2™



#1 High-Power 600 Lumen LED Light

Built-in IP68 magnetic switch to cycle light between high/low/strobe (6Hz)/off. A key feature of the Kevin Jr. is that when installed in an inaccessible location (high on a sailboat mast for example), any remotely installed switch will automatically produce a high beam independent of the built-in switch.

PN: 9000470

600+ lumen rated high-power LEDs provide the highest lumen-per-watt light, outperforming other LED lights in its class.



Designed to be mounted up to 20' above deck with aerodynamic shape. ADC12 high purity die cast aluminum housing provides ample heat sinking as well as ingress protection to ensure a long operational life.

Marine grade 3-stage durable UV 3800 powder coated finish.

NMMA, USCG, ISO 8846 & SAE J1171 Ignition Protection Compliant.

PN: 9000470

Features

- Built-In IP68 Magnetic Switch to Cycle Light Between High/Low/Strobe (6Hz)/Off.
- NMMA, USCG, ISO & SAE Ignition Protection Compliant.
- IP67, MIL-STD-810G Vibration & Shock Proof, ASTM B117 Salt Spray (Fog) Compliant.
- CE, FCC Part 15, RoHS Compliant.
- 6,000 Degree Kelvin Cool White with 600 Lumens (based on LED manufacturer specifications).
- 50,000 Hour Life Span Rated US Made LEDs.
- Operating Temperature: -40 to +145 Degree F (withstands temperature extremes).
- Built-In Standard Camera Tripod Docking.
- Does not work with dimmers.
- Designed in the USA.

Specifications:

Electrical:

Input Voltage: 12/24 VDC (0.6A @ 12.8 VDC) Max Input Power: 8W

Non-Polarized Connection, Reverse Polarity Protected Under-Voltage and Voltage Spike Protected

Electrically Protected Against RFI/EMC Interference

Integrated Thermal Management

Mechanical:

3 Stage Durable UV 3800 Powdercoat
Tempered Glass Lens
ADC12 High Purity Aluminum Housing
Low Profile Stainless Steel U Bracket Mount with ¼" Bolt
1M 5mm Round PVC IP68 UL 20AWG 300V 80C Red/Black Cable Pair
Dimensions: 90mm (3.5") width, 50mm (2") height, 79mm (3.1") depth
Weight: 400g (14oz)





LED Spreader/Rail Light (12/24V): Kevin Jr. X2™

Optional Accessories:

Horizontal Rail (PN: 9000319) and

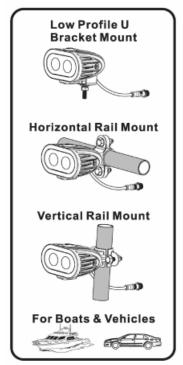
Vertical Rail (PN: 9000326) Mounts (7/8" to 1 1/4" dia. rails)

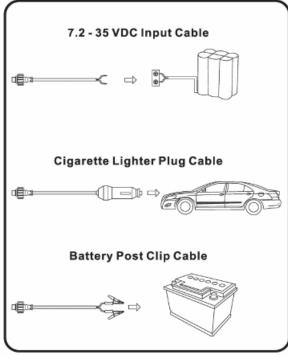
Bike Rail Mount

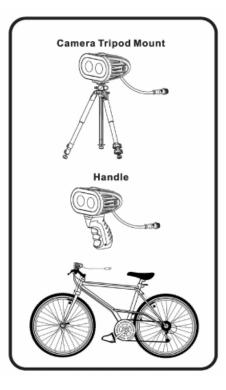
Handle Cigarette Lighter Plug Cable Magnetic Car Top Mount Car Battery Cable Colored Lens Cover



Dealer Display Available.









LED Engine & Utility Light (12/24V): The Gold Standard™



Low Profile 5/8" Red / Cool White High-Power LED Light

Two wire installation with built-in dimming and red / white light selection with only one standard external power switch.

PN: 9000500

750+ cool white lumen rated high-power LEDs provide the highest lumen-per-watt light, outperforming other LED lights in its class.

Low current draw ~1A @ 12V.



ADC12 high purity die cast aluminum housing provides ample heat sinking as well as ingress protection to ensure long life operation.

Marine grade finish.

Ultra-long life. Highly shock and vibration resistant.

NMMA, USCG, ISO 8846 & SAE J1171 Ignition Protection Compliant.

PN: 9000500

Features

- Switchable Red/White with dimming.
- By toggling an on/off switch, intensity can be set for both red and white.
- NMMA, USCG, ISO & SAE Ignition Protection Compliant.
- IP67, MIL-STD-810G Vibration & Shock Proof, ASTM B117 Salt Spray (Fog) Compliant.
- CE, FCC Part 15, RoHS Compliant.
- 6,000 Degree Kelvin Cool White with 750 Lumens (based on LED manufacturer specifications).
- 50,000 Hour Life Span Rated US Made LEDs.
- Operating Temperature: -40 to +145 Degree F (withstands temperature extremes).
- Does not work with dimmers.
- Designed in the USA.

Specifications:

Electrical:

12/24 VDC (~0.7A @ 12.8 VDC, White Light)
Max Input Power: 3W (Red), 9W (White)
Non-Polarized Connection, Reverse Polarity Protected
Under-Voltage and Voltage Spike Protected
Electrically Protected Against RFI/EMC Interference
Integrated Thermal Management

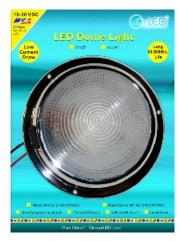
Mechanical:

3 Stage Durable UV 3800 Powdercoat
Tempered Glass Lens
ADC12 High Purity Aluminum Housing
Low Profile European Design
6" 20AWG 300V 80C Red/Black Silicon Rubber Cable
Dimensions: 133mm (~5.24") length, 70mm (~2.76") width, 16mm (~0.63") tall
Weight: 216g (7.6oz)





LED Chrome Color Dome Lights (12/24V): Chrome Mars Dome™





Mars Dome Lights:

The Mars Dome is a general purpose, surface-mount light fixture with your choice of dual level white light or red/white lights for night use, with the added benefit of LED technology. These lights produce a warm white light and are fabricated from the highest quality components to assure long life and trouble-free use. Their patented internal circuitry provides consistent brightness and makes them immune to life-shortening voltage fluctuations. Their incredibly low power draw makes them the perfect way to reduce energy consumption on your boat. Latest high-power LED technology provides high lumen-per-watt light, out performing other dome LED lights.

Most Popular Marine LED Dome Lights in the world. Used and specified by the US Federal Government with national stock numbers (NSN).

Features

- Three-position switch (High/Off/Low) to select two warm white brightness levels, with the high level equivalent to about a 45 watts incandescent bulb.
- Red/white version has a three-position switch (Red/Off/Warm White) to select red or warm white.
- Internal circuitry provides for constant energy consumption, regardless of voltage fluctuations from the source, meaning no flickering and longer LED life White version.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Available in 5 ½" (140mm) and 6 ¾" (170mm) overall diameter.
- Very low power consumption, approximately 1 to 5 watts depending on the selection.
- Lead and mercury free, and no UV output.

PART# NSN	8001177 6220016210857	8001184 6220016230649	8001528	8001504 6220016098772
Description	Mars Dome light	Red Mars Dome light	Mars Dome light	Red Mars Dome light
Diameter	5 ½" Chrome Color	5 ½" Chrome Color	6 ¾" Chrome Color	6 ¾" Chrome Color
LED Color	Warm White	Warm White / Red	Warm White	Warm White / Red
Lumen Output	250 Lumens (High)	250 / 40 Lumens	250 Lumens (High)	250 / 40 Lumens
Voltage	12/24 VDC	12/24 VDC	12/24 VDC	12/24 VDC
Wattage	1W (Low) / 5W (High)	5W (White), 2W (Red)	1W (Low) / 5W (High)	5W (White), 2W (Red)
Dimensions	140mm (5 ½") dia.	140mm (5 ½") dia.	172mm (6 ¾") dia.	172mm (6 ¾") dia.
Weight	168g (5.9oz)	168g (5.9oz)	238g (8.4oz)	238g (8.4oz)



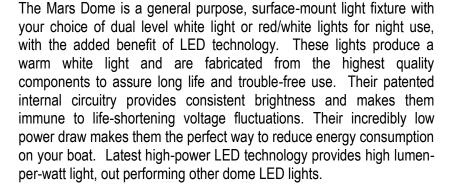
(LED Conversion Kits also available.)

LED Brass Color Dome Lights (12/24V): Brass Mars Dome™











Most Popular Marine LED Dome Lights in the world.

Features

- Three-position switch (High/Off/Low) to select two warm white brightness levels, with the high level equivalent to about a 45 watts incandescent bulb.
- Red/white version has a three-position switch (Red/Off/Warm White) to select red or warm white.
- Internal circuitry provides for constant energy consumption, regardless of voltage fluctuations from the source, meaning no flickering and longer LED life White version.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Available in 5 ½" (140mm) and 6 ¾" (170mm) overall diameter.
- Very low power consumption, approximately 1 to 5 watts depending on the selection.
- Lead and mercury free, and no UV output.

PART#	8001498	8001511
Description	Red Mars Dome light	Red Mars Dome light
Diameter	5 ½" Brass Color	6 ¾" Brass Color
LED Color	Warm White / Red	Warm White / Red
Lumen Output	250 / 40 Lumens	250 / 40 Lumens
Voltage	12/24 VDC	12/24 VDC
Wattage	5W (White), 2W (Red)	5W (White), 2W (Red)
Dimensions	140mm (5 ½") dia.	172mm (6 ¾") dia.
Weight	168g (5.9oz)	238 (8.4oz)

(LED Conversion Kits also available.)





Under-Cabinet LED Lights (12/24V): Warm-White & Red / White John™

Warm White PN: 8001696 Red/White PN: 8001719



Under-Cabinet LED Lights:

General purpose, surface-mount light fixture with your choice of dual level white light or red/white lights for night use; with the added benefit of LED technology. These LED lights produce a warm white light and are fabricated from the highest quality components to assure long life and trouble-free use. Their patented internal circuitry provides consistent brightness and makes them immune to life-shortening voltage fluctuations. Their incredibly low power draw makes them the perfect way to reduce energy consumption on your boat. Latest high-power LED technology provides high lumen-per-watt light, outperforming other LED lights.

- White version has a three-position switch (High/Off/Low) to select two warm white brightness levels, high level equivalent to about a 40-watt incandescent bulb.
- Red/white version has a three-position switch (Red/Off/Warm White) to select red or warm white.
- Internal circuitry provides for constant energy consumption, regardless of voltage fluctuations from the source, meaning no flickering and longer LED life.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Dimensions & Weight: 8" (200mm) long, 3" (76mm) wide, 1.4" (36mm) tall. 5.3oz (150g).
- Multi-voltage 12 VDC or 24 VDC.
- Very low power consumption, approximately 1 to 3 watts depending on the setting.
- Lead free, mercury free, and no UV output.

Part #	8001696	8001719
Description	Under-Cabinet LED Light	Under-Cabinet LED Light
LED Color	Warm White	Warm White / Red
Lumen Output	120 Lumens	115 (White) / 40 (Red) Lumens
Voltage	12/24 VDC	12/24 VDC
Wattage	1W (Low) / 3W (High)	3W (White) / 1.5W (Red)
Dimensions	203mm (8") long 63.5mm (2.5") wide 35mm (1.4") tall	203mm (8") long 63.5mm (2.5") wide 35mm (1.4") tall
Weight	168g (5.9oz)	168g (5.9oz)

Recessed LED Lights (12V): Saturn Ring™



12V Warm White Spot PN: 8001641 12V Warm White Flood PN: 8001658 12V Red /White PN: 8001788

160+ lumen rated. Please note that when comparing brightness using lumen ratings between LED and incandescent lights, you should multiply the LED rated lumen output by about 8. This is because LED beams are mostly focused on 1/8th of a quadrant of a sphere's surface while incandescent light covers the whole sphere.

Saturn Ring MKII Cabin Lights:

The Saturn Ring MKII is a general purpose, recessed, water resistant fixture in your choice of spotlight or floodlight or bi-color (red/white) light models with the added benefit of high-power LED technology. These lights produce a warm white light and are fabricated from the highest quality components to assure long life and trouble-free service. Their patented internal circuitry provides consistent brightness and makes them immune to life-shortening voltage fluctuations. Their incredibly low power draw (0.3 A) makes them the perfect way to reduce energy consumption.

- The spotlight model is equivalent to a 30W incandescent light, bright enough for reading, 180 lux @ 1M.
- The floodlight model is equivalent to a 30W incandescent light, a very good ambient light, 80 lux @ 1M.
- Internal circuitry provides for constant current draw, regardless of voltage fluctuations from the source, meaning no flickering and longer LED life.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Very low power consumption (approximately 4W 0.3A).
- Lead and mercury free, no UV output.
- White and chrome colored trim rings included; brass colored (gold plated) trim ring sold separately.
- ~3" (76.2mm) overall diameter; requires a 2" dia. (50.8mm) cut-out, 0.8" (20.3mm) deep.

Part #	8001641-02	8001658-02	8001788	8001153	8001160
Description	Recessed Spot light	Recessed Flood Light	3 Wire Bi-Color Recessed Light	Chrome Trim Ring	Brass Trim Ring
LED Color	Warm White	Warm White	Warm White / Red	-	-
Lumen Output	160 Lumens	160 Lumens	140 Lumens / 40 Lumens	-	-
Voltage	12 VDC	12 VDC	12 VDC	-	-
Power	4W	4W	2.5W (White) / 1W (Red)	-	-
Overall Dia.	75mm (~3")	75mm (~3")	75mm (~3")	75mm (~3")	75mm (~3")
Weight	75g (2.5oz)	75g (2.5oz)	75g (2.5oz)		

Red/White LED Chart & Reading Light (12/24V): Black Cobra™

PN: 9000029-02 NSN: 6240016128960





Bi-Color High-Power LED Chart and Reading Light

Bi-color (red/white) high-power LED chart and reading light with ultra-low current draw (0.25A @12V).

"European" styling.

#1 US Made LED: CREE LEDs.

An On/Off/On push button switch located at the base to select either warm white or off or red light output.

Ultra-long life. Highly shock and vibration resistant.

Specifications

Voltage/ Draw: White: 0.25A @ 12VDC, Red: 0.1A @ 12V

Fixture Material: Plated zinc alloy head and polymer base, coated metal gooseneck. Fixture Dimensions: 31 mm dia. head, 77 mm oval base, 340mm (~13") long gooseneck.

Two 3 mm X 20 mm stainless steel screws included, requiring two 2 mm dia. holes, Mounting Hardware:

3.2 mm dia. screws or bolts recommended.

Lens Material/Description: Polycarbonate Switch Type: **Push Button**

Part #	9000029
Description	LED Chart / Reading Light
LED Color	White / Red
Lumen Output	150 Lumens (warm white)
Lumen Output	45 Lumens (red)
Wattage Replacement	20 W
Voltage	12/24 VDC
	31 mm (~1.2") dia. head
Dimensions	77 mm (3") oval base
	340mm (13") long gooseneck
Weight	310g (11oz)







Surface Mount Underwater Lights (12/24V): Dave X3[™] Low Profile LED Spreader Lights



White PN: 9000203

Blue PN: 9000210



Dr. LED's Dave X3 Surface Mount Underwater LED Lights:

The Dave X3 is the 2nd generation of our popular Dave surface mount underwater light. It uses the latest generation of high quality US CREE XPG LEDs with the highest lumen per watt output in the market. The polymer unibody design makes it corrosion as well as ignition proof. Ultra-rugged and shock proof.







Features

- Low profile surface mount underwater, high-power LED light.
- Small foot-print (~100mm / 4" dia.).
- 12/24 VDC (10-30 VDC) input voltage range.
- ~500 lumens (cool white) or blue, narrow beam.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Polymer unibody design.
- Very low power consumption (approximately 3 W).
- No toxic lead and mercury free, no UV output (RoHS Compliant).
- US CREE LEDs, designed to last up to 50,000+ hours.
- Designed in the USA, NMMA, USCG, ISO 8846 & SAE J1171 Ignition Protection Compliance.

Specifications:

Form Factor: 100mm diameter disk, low profile (1")

Voltage: 12/24 VDC (10-30 VDC)

Wattage: 3W (typical)

Lumen Output: 500 Lumens (for white)

Color Temperature: cool white 5.000° K (typical) or blue

Main Beam Angle: 25°

Ambient operating temperature: -10° C to +30° C Dimensions: 100mm (~4") dia. 24.5mm (~1") tall

Weight: 193g (6.8oz)





Low Profile Thru-Hull Stainless Steel Underwater LED Lights (12/24V): Neptune X6™





Neptune Underwater LED Lights:

This 1500+ lumen Neptune Light outperforms any other LED light in the same category in terms of price and light output. Six US-made high-power LEDs provide the highest lumen-per-watt underwater light ever made. The SAE 316L stainless steel body makes it extremely corrosion proof.

Neptune X6 White PN: 9000487 Cool White (6000K) 1500+ Lumens Neptune X6 Blue PN: 9000494 Blue 300+ Lumens

Features

- 5mm (~0.2") low profile and 100mm (~3.9") diameter small footprint.
- Same dimensions as our popular three LED aluminum Neptune Light.
- Six state-of-the-art 3W, US made, high-quality, high-power LEDs provide the most lumens per watt in LED technology.
- High-intensity LED light travels farther underwater for maximum visibility and truer colors.
- Instant on, no warm-up of bulb needed.
- SAE 316L stainless steel unibody.
- Long service life, shock proof, ultra-rugged with no filament to burn out or break.
- No anodes required, as housing is corrosion proof.
- Multi-voltage 12 VDC or 24 VDC.
- Input Voltage Range: 11-35VDC (~1.5A @ 12.8VDC White / ~1A @ 12.8VDC Blue).
- Max Input Power: ~21W (White), ~13W (Blue).
- Reverse Polarity Protected.
- Under Voltage and Voltage Spike Protected.
- Electrically Protected Against RFI/EMC Interference.
- Integrated Thermal Management.
- Operating Temperature: -40 to +145 Degree F (withstands temperature extremes).
- Lens Material: 10mm tempered glass.
- Mechanical Connection: Requires one 68mm (~2 11/16") dia. hole.
- Maximum Hull Thickness: < 100mm (~3.9").

Compliance:

NMMA, USCG, ISO 8846 & SAE J1171 Ignition Protection ABYC H-27 Side Load Test MIL-STD-810G Vibration & Shock Proof ASTM B117 Salt Spray (Fog) CE, FCC Part 15, RoHS, IP68





LED Replacement Bulbs (12/24V): Edison LED™ / Edison SideKick™

Medium Screw Base General Purpose Bulbs:

US-made high-quality high-power LEDs. Unique, cutting edge, internal circuitry and the highest quality components make Dr. LED's the longest lasting, most energy efficient LED products on the market. These high-quality, general-purpose bulbs produce a warm white light and are the perfect way to reduce energy consumption in your boat, or even your home. The Edison LED produces a spot-type beam and are best used in directional light fixtures. The Edison SideKick produces a side-emitting beam and is best used for lights with a lampshade.





- Fits E26/27 medium screw base "household" style sockets.
- Ideal for marine and solar panel users.
- Internal circuitry provides for constant energy to LEDs regardless of voltage fluctuations from the source, meaning no flickering, optimal brightness and longer LED life.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- 1X US made high-quality high-power LEDs produce the equivalent of about a 30 watt incandescent bulb within the main beam with only 1.5 watt of consumption.
- 3X US-made high-quality high-power LEDs produce the equivalent of about a 60 watt incandescent bulb within the main beam with 4-6 watts of consumption.
- Lead and mercury free, no UV output.

	PER SP A-SP See all special CE RAPS		
Part #	8001795 (Replaces 8001276)	8001801 (Replaces 8001283)	8001818 (Replaces 8001351)
Model	Edison 1X	Edison 3X	Edison SideKick 3X
Color Temp	Warm White ~3000K	Warm White ~3000K	Warm White ~3000K
Voltage	12V AC/DC or 24 VDC	12V AC/DC or 24 VDC	12V AC/DC or 24 VDC
Wattage	1.5W	4W	6W
Lumen	120 Lumens	200 Lumens	300 Lumens



LED Replacement Bulbs (12/24V): Bayonet and Bi-Pin Magnum LED™



The Magnum LED Series:



These bulbs come in several models and are ideal for replacing your existing incandescent or halogen bayonet or bi-pin lights. Unique, cutting edge, internal circuitry and the highest quality components make Dr. LED's the longest lasting, most energy efficient LED products on the market. These high-quality bulbs produce a warm white light, and are the perfect way to reduce energy consumption on your boat. They have a long service life, are shock proof, and UV, lead and mercury-free. These bulbs are ideal for cockpit; map reading lights, emergency lights, etc. They produce a spot-type beam and are best used in directional light fixtures.

Features

- Bayonet style bulbs replace BA type (15 mm) incandescent bulbs used in many boats and RVs; available in single contact (BA15S), and double contact indexed (BAY15D) and non-indexed styles (BA15D).
- 2-pin style with 4 mm pin spacing replaces the super hot "standard" MR11 mini-reflector style halogen bulbs, commonly used in many boats and RVs.
- 2-pin style with 5.3 mm pin spacing replaces the hot MR16, mini-reflector halogen bulbs.

Lead and mercury free, no UV output

Lead and mercury free, no ov output.				
Part #	8001245-02	9000449	8001252-02	8001269-02
Base	BA15S	BA15S	BAY15D	BA15D
Description	Bayonet 2W	Bayonet 2W	Bayonet 2W	Bayonet 2W
Connection	Single Contact	Elongated Single Contact	Double Contact	Double Contact
Side Pins	Level, Non-Index	Level, Non-Index	Offset, Indexed	Offset, Indexed
Lumen Output	150 Lumens 150 Lumens		150 Lumens	150 Lumens
Voltage	12/24 VDC & 12VAC	12/24 VDC & 12VAC	12/24 VDC & 12VAC	12/24 VDC & 12VAC

Part #	8001825	8001382	8001238-02
Туре	MR16 1X	MR16 3X	MR11
Description	Bi-pin 1.5W	Bi-Pin 4W	Bi-Pin 2W
Lumen Output	120 Lumens	200 Lumens	150 Lumens
Voltage	12/24VDC 12VAC	12/24VDC 12VAC	12/24VDC 12VAC





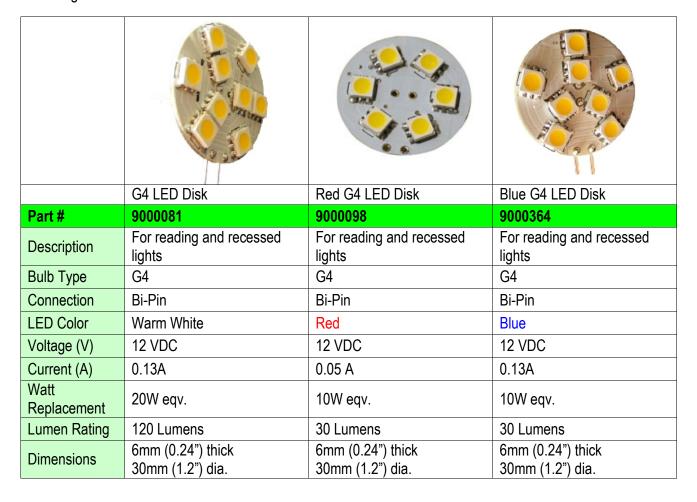
12V G4 LED Disks

For reading lights, recessed lights, etc.

These G4 disks come in several models (12V or 24V) and are ideal for replacing your existing incandescent or halogen bi-pin bulbs. Unique, cutting edge, internal circuitry and the highest quality components make Dr. LED's the longest lasting, most energy efficient LED products on the market. These high-quality bulbs produce warm white or blue or red lights, and are the perfect way to reduce energy consumption on your boat. They have a long service life, are shock proof, and UV, lead and mercury-free. These bulbs are ideal for cockpit lights; map reading lights, emergency lights, etc. They produce a flood-type beam and work well in many light fixtures.

Both axial (center) and radial (side) connection pins are provided. Please shear off the pins that are not needed.

- High-quality marine environment US designed SMD LED disks.
- Soothing warm white or blue or red lights.
- Zero radio frequency (RF) emission, surface-mount-device design.
- Conformal coated & use of long life components, e.g. use of ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides constant current draw regardless of voltage fluctuations from the source (10 to 18 VDC for 12V models 20 to 32 VDC for 24V models), meaning no flickering and longer LED life.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Very low power consumption.
- Designed in the USA.



24V G4 LED Disks

For reading lights, recessed lights, etc.

	24V G4 LED Disk	24V Blue G4 LED Disk
Part #	9000340	9000418
Description	For reading and recessed lights	For reading and recessed lights
Bulb Type	G4	G4
Connection	Bi-Pin	Bi-Pin
LED Color	Warm White	Blue
Voltage (V)	24 VDC	24 VDC
Current (A)	0.07A	0.07A
Watt Replacement	20W eqv.	10W eqv.
Lumen Rating	120 Lumens	30 Lumens
Dimensions	6mm (0.24") thick 30mm (1.2") dia.	6mm (0.24") thick 30mm (1.2") dia.

12V G4 LED Tower and 12V Mini G4 Star

For reading lights, recessed lights, nav lights etc.

This 12V G4 Tower and Mini G4 LED bulb are ideal for replacing your existing incandescent or halogen bi-pin G4 bulbs. Unique, cutting edge, internal circuitry and the highest quality components make Dr. LED's the longest lasting, most energy efficient LED products on the market. This high-quality bulb produces warm white light, and is the perfect way to reduce energy consumption on your boat. It has a long service life, is shock proof, and UV, lead and mercury-free. This bulb is ideal for cockpit lights; map reading lights, emergency lights, etc. It produces a radial 360-degree beam and works well in many light fixtures.

PN: 9000104

PN: 9000432

- * High-Power LED
 *2 NM visibility
 *12 VDC
 *Warm White
- Soothing warm white light.
- Zero radio frequency (RF) emission, surface-mount-device design.
- Conformal coated & use of long life components, e.g. use of ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides constant current draw regardless of voltage fluctuations from the source (11 to 15 VDC), meaning no flickering and longer LED life.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Very low power consumption
- Lead and mercury free, no UV output.
- Designed in the USA.

	12V G4 Tower	12V Mini G4 LED Bulb	
Part #	9000104	9000432	
Description	For reading lights, etc.	For reading, recessed, nav lights, etc.	
Bulb Type	G4	G4	
Connection	Bi-Pin	Bi-Pin	
LED Color	Warm White	Warm White	
Voltage (V)	12 VDC	12 VDC	
Current (A)	0.2A	0.1A	
Watt Replacement	30W eqv.	10W eqv.	
Lumen Output	195 Lumens	60 Lumens	
Dimensions	37.5mm (1.5") long 20mm (0.8") dia.	14mm (0.55") length 12mm (0.47") dia.	





12V LED Wedge, Windex, & 1157 Replacement Bulbs

For reading, interior lights, Windex light, dual intensity trailer lights, etc.

These bulbs come in several models and are ideal for replacing your existing incandescent bulbs. They come in wedge base, mini Edison base, E10 (e.g. for Windex light), as well bayonet base. Unique, cutting edge, internal circuitry and the highest quality components make Dr. LED's the longest lasting, most energy efficient LED products on the market. These high-quality bulbs produce a soothing warm white light, and are the perfect way to reduce energy consumption on your boat. They have a long service life, are shock proof, and UV, lead and mercury-free. These bulbs are ideal for cockpit; map reading lights, emergency lights, etc. They produce a flood-type beam and are best used in many light fixtures.

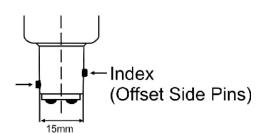
Please note that these bulbs are not approved for navigation use. Do not use for nav lights.

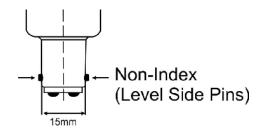
- High-quality US designed SMD LED bulbs.
- Soothing warm white light.
- Zero radio frequency (RF) emission (except for 1157).
- Conformal coated & use of long life components, e.g. ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides for constant energy consumption, regardless of voltage fluctuations from the source (10 to 18 VDC), meaning no flickering and longer LED life.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Very low power consumption (approximately 1 to 2.5 watts).
- Designed in the USA.



12V TOWER LED Replacement Bulbs For reading lights, interior lights, etc. Bayonet Style

Part #	9000111	9000128	9000135	9000142
Description	For Reading Lights	For Reading Lights	For Reading Lights	For Reading Lights
Bulb Type	Bayonet 15mm BA15S	Bayonet 15mm BA15D	Bayonet 15mm BA15D	Bayonet 15mm BAY15D
Connection	Single Contact	Double Contact Non-Index	Double Contact Non-Index	Double Contact Index
Wattage Replacement	30W eqv. (195 Lumens)	30W eqv. (195 Lumens)	20W eqv. (50 Lumens)	30W eqv. (195 Lumens)
LED Color	Warm White	Warm White	Red	Warm White
Voltage (V)	12 VDC	12 VDC	12 VDC	12 VDC
Wattage (W)	2.5W	2.5W	2.5W	2.5W
Current (A)	0.2 A	0.2 A	0.2 A	0.2 A
Dimensions	57.5mm (2.3") long 20mm (0.8") dia.			











Dome Light LED Conversion Kits (12V & 24V)

These dome light LED conversion kits come in several models* and are ideal for replacing your existing incandescent or halogen dome light bulbs. Unique, cutting edge, internal circuitry and the highest quality components make Dr. LED's the longest lasting, most energy efficient LED products on the market. These highquality bulbs produce a warm white light, and are the perfect way to reduce energy consumption on your boat. They have a long service life, are shock proof, and UV, lead and mercury-free. These bulbs are ideal for cockpit lights; map reading lights, emergency lights, etc. They produce a flood-type beam and work well used in many light fixtures.

*Two voltage models to choose from for 12 VDC and 24 VDC systems. Two output models to choose from: two levels of warm white or warm white / red light.

Both bayonet double contact non-index (BA15D) and bi-pin connection pigtails are provided. Bi-color models are designed for dome lights with two bulbs (one red and one white).







- High-quality marine environment US designed SMD LED disks.
- Soothing warm white light or red light.
- Zero radio frequency (RF) emission.
- Conformal coated & use of long life components: e.g. ceramic capacitor, not low hour electrolytic.
- Long service life and shockproof.
- Ultra-rugged with no filament to burn out or break.
- Very low power consumption.
- Designed in the USA.

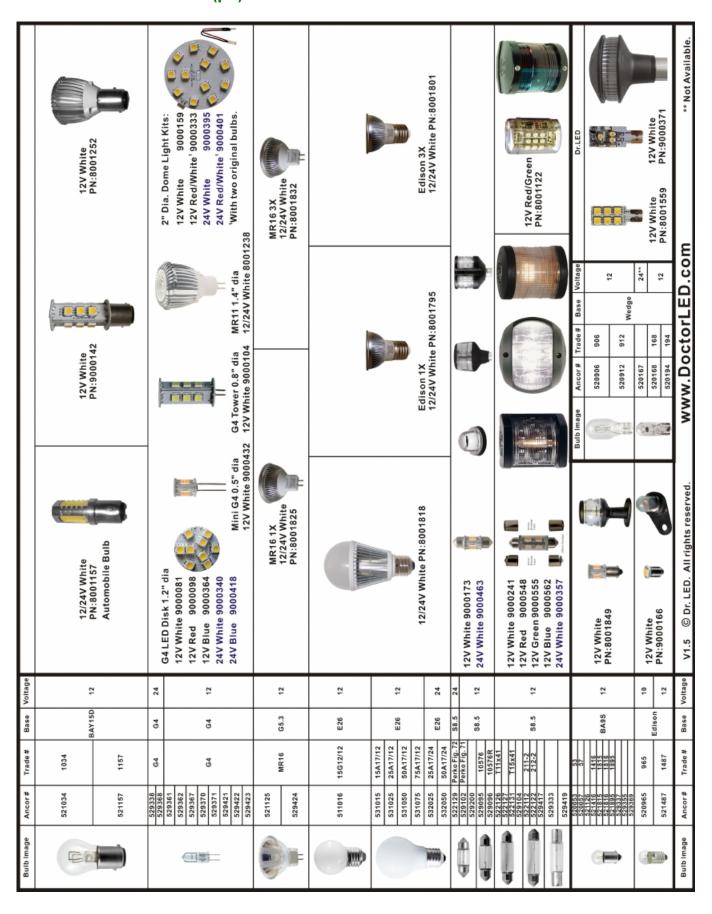


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	12 VDC Dome Kit	12 VDC Bi-Color Dome Kit	24 VDC Dome Kit	24 VDC Bi-Color Dome Kit
Part #	9000159	9000333	9000395	9000401
Description Connection	For dome lights Bi-Pin & 15mm Bayonet			
LED Color	Warm White	White / Red	Warm White	White / Red
Voltage (V)	12 VDC	12 VDC	24 VDC	24 VDC
Current (A)	0.18 A	0.18 A	0.09 A	0.09 A
Watt Replacement (White)	30W eqv.	25W eqv.	30W eqv.	25W eqv.
Lumen Rating (White)	180 Lumens	135 Lumens	180 Lumens	135 Lumens
Dimensions	7mm (0.3") thick 50mm (2") dia.			

LED Conversion Guide (p1)

Incandescent Bulbs:	gesc	ent E	3ull	s:	4	°C	I FD C	FD Conversion Guide	ion (3mid		Pr. I E	Dr. LED 2015 ©
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LED Conversion Guide (p2)



Nav Bulb Selection Guide (p1)





Nav Bulb Selection Guide

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	Dr. LED Part No.	8001757	8001764	8001771	8000043	8001634	8001450	8001436	OF OFFICE	6401000	9000241	9000548	9000555	8001122	8001757	8001764	8001771	8001634	8001450	9000241	9000548	9000555	9000173	9000463	8000067
	Dr. LED Model	White Polar Star 40 MKII	Red Polar Star 40 MKII	Green Polar Star 40 MKII	Amber/Yellow Polar Star 40 MKII	Bi-Color Polar Star 40 MKII	Tri-Color Polar Star 40 MKII	24V Tri-Color Polar Star 40	000	Polar Star 20		Red 39-44mm Festoon Star	Green 39-44mm Festoon Star	Bi-Color Polar Star 25	White Polar Star 40 MKII	Red Polar Star 40 MKII	Green Polar Star 40 MKII	Bi-Color Polar Star 40 MKII	Tri-Color Polar Star 40 MKII	39-44mm Festoon Star	Red 39-44mm Festoon Star	Green 39-44mm Festoon Star	31mm White Festoon Star	24V 31mm White Festoon Star	H2492 Star
	Mfg. Bulb No.	90002	90002	90002	90002	90002	90002	90003	SUPPO F FOCUS	90384 / 90496		90200		70207 70207 70202	78293, 78297,	8GA003488-121			78206, 8GM002091-131		78202, 8GM 993 406-001		78235, 78236, 8GA002071-131		
	Bulb Style				Double Contact Bayonet Index				Miniature Non-	Index		Festoon		Festoon			Double Contact	payoner index			Festoon		Festoon		Single Contact Bayonet
	Nav Light Color	12/24V White	12/24V Red	12/24V Green	12/24V Yellow	12/24V Bi-Color (Red/Green)	Tri-Color (Red/Green/White)	24V Tri-Color (Red/Green/White)	12V White, Red, or Green	Series 25 Deck Light	White	Red	Green	Bi-Color (Red/Green)	12/24V White	12/24V Red	12/24V Green	12/24V Bi-Color (Red/Green)	12/24V Tri-Color (Red/Green/White)	12V White	12V Red	12V Green	12V White	24V White	12/24V White
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Nav Bulb Selection Guide (p2)

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Dr. LED Part No.	8001757	4000000	9001/04	1//1008	8001634	8001450	9000425	9000517	9000524	8001078	8001382	9000173	9000463	9000241	9000241	9000357	9000371	9000425	9000517	9000241	8001832	8001078	8001382	9000173
Dr. LED Model	White Polar Star 40 MKII	10 mm or - 10 mm or - 10 mm	Ked Polar Star 40 MKII	Green Polar Star 40 MKII	Bi-Color Polar Star 40 MKII	Tri-Color Polar Star 40 MKII	HEX GE90 Star	Red HEX GE90 Star	Green HEX GE90 Star	White Polar Star 40 NI	Red Polar Star 40 NI	31mm White Festoon Star	24V 31mm White Festoon Star	39-44mm White Festoon Star	39-44mm White Festoon Star	24V 39-44mm White Festoon Star	P338 Wedge Star	HEX GE90 Star	Green HEX GESU Star	39-44mm White Festoon Star	12/24V MR16 3X LED	White Polar Star 40 NI	Red Polar Star 40 NI	31mm White Festoon Star
Mfg. Bulb No.			037512V10W	037512V25W				Fig. 337 0337011DP 0337012DP		0374001CLR 0337013DP 0337014DP	0374001CLR	Fig. 71 0071DP0CLR 0071DP8CLR	Perko Bulb Fig. 72 0072DP8CLR	Fig. 69 0069DP0CLR	Fig. 70 0070DP1CLR 0070DP2CLR	Fig. 67 0067DP1CLR 0067DP2CLR	338DP2CLR	Fig. 337 0337011DP 0337012DP		WN-211, 132025	132035			
Bulb Style			Double Contact	Bayonet Index				Double Contact Bayonet Non-Index		Double Contact	Bayonet Non-Index		restoon		Festoon		Wedge	Double Contact Bayonet Non-Index		Festoon	MR16	Double Contact	Bayonet Non-Index	Festoon
Nav Light Color	12/24V White	The state of	12/24V Red	12/24V Green	12/24V Bi-Color Red/Green	Tri-Color (Red/Green/White)	12V White	12V Red	12V Green	12/24V White	12V Red	12V White	24V White	12V White	12V White	24V White	12V White	12V White	12V Ked	12V White	12/24V White	12/24V White	12V Red	12V White
Series				0070)		0329		1127, 1128,	1129, 1130	0135, 0227, 0228, 0229, 0232, 0252, 0252, 0253, 0253, 0254, 0264, 0295, 0904, 0915, 0945, 0953, 0963, 0963, 0963, 0963, 1123, 1124, 1125,	1161, 1178, 1181, 1183, 1184, 1196, 1197, 1201, 1211, 1212, 1218, 1264, 1310, 1331, 1332, 1421, 1422, 1601, 1602, 1612, 1614	0120, 0170	0106, 0108, 0109, 0110, 0111, 0259, 0939, 0946, 4F, 5F, 7F	0120, 0170	0238, 0239, 1236, 1273, 1274, 1281, 1283, 1284, 1440, 1445, 1450, 1451, 1452, 1455, 1456, 1460, 1461, 1465, 1470, 1604, 1607, 1622, 1634, 1637, 1656	0362, 0371, 0465, 0466, 1134, 1137, 1206, 1301, 1311, 1330, 1400, 1401		MC-2	ML1, ML2 Deck	SCO 802C, 803C	SCO 802R, 803R	7200 series: 7208, 7212, 7220, 7250, 7250, 7251, 7252, 7254, 7255, etc.
Brand												(Perko							respar	ο4	оцу	၁၁၄	Attwood

Navigation Light LED Replacement Bulbs (12/24V and 120V): Polar Star™ With 2NM Certified Light Engines

2 NM nav light LED replacement bulbs:

Red Polar Star 40 MKII* Bi-Color Polar Star 40 MKII White Polar Star 40 MKII* Tri-Color Polar Star 40 MKII Green Polar Star 40 MKII*

*2NM USCG COLREG 1972 ABYC A-16 Certified



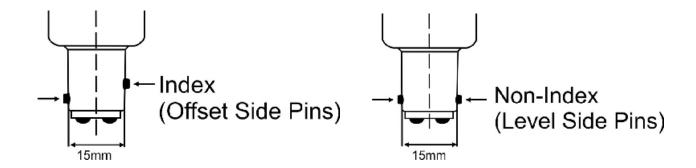
The Polar Star series NAV LED Bulbs:

US Patented.

These LED bulbs are specially designed as direct replacements for most navigation lights available in the market such as those from Aqua Signal® (series 40, 41, 42, 50, 55) as well as the ones from Attwood®, Hella®, Perko® and several other manufacturers. These high-quality bulbs are the perfect way to reduce energy consumption on your boat with low current draw. They are especially well-suited for mast mounted lights, as their incredible reliability will mean an end to frequent climbs up the mast to replace nav light bulbs.



- 15mm Double Contact Bayonet LED NAV Bulbs, both BAY15D (Index, Non-Offset Side Pins) and BA15D (Non-Index, Non-Offset Side Pins) bases are available.
- BAY15D available for White, Red, Green, bi-color (Red / Green) and tri-color (Red / Green / White) nav lights.
- BA15D available for White, Red and Green nav lights.
- It is best to use red LED behind red lens, green LED behind green lens, white LED behind clear lens, red/green LED behind red/green lens, and tricolor LED behind tricolor lens.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Conformal coated & use of long life components: e.g. ceramic capacitor (not low hour electrolytic capacitor).
- LED bulbs satisfy all brightness, distance (2 NM), and arc requirements set forth by the US Coast Guard for vessels less than 50 m (165 ft.) in length.
- Very low power consumption (approximately 1-2 W).



BAY15D (Index, Offset Side Pins, Single Color) Models:

2NM Single Color Index Models

(For Aqua Signal series 40, 41, 42, 55 etc.; Perko 200 (Fig. 0375), Hella 2984, 2986, 2988, etc.)

Part #	8001757	8001764	8001771	8000043
Description	For anchor, steaming, & stem nav. lights	For port nav. lights.	For starboard nav. lights.	For amber/yellow nav. lights
LED Color	White	Red	Green	Amber / Yellow
Voltage	12/24 VDC	12/24 VDC	12/24 VDC	12/24 VDC
Bulb Type	Indexed	Indexed	Indexed	Indexed

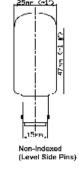
	Bi-Color	Tri-Color
Part #	8001634	8001450
Description	For bow lights	For tricolor lights
LED Color	Red / Green	White / Red / Green
Voltage	12/24 VDC	12/24 VDC
Bulb Type	Indexed	Indexed

BA15D (Non-Index, Offset Side Pins, Single Color) Models:

2NM Single Color Non-Index Models

(For Perko series 1127, 1130, etc.; Perko Bulb Fig. 0374)

Part #	8001078	8001382	8001405
Description	For anchor, steaming, & stem nav. lights	For port nav. lights.	For starboard nav. lights.
LED Color	White	Red	Green
Voltage	12/24 VDC	12/24 VDC	12/24 VDC
Bulb Type	Non-Index	Non-Index	Non-Index





120V 3NM Models for clear lens:



Part #	9000388	9003744
Description	For anchor, steaming, & stern nav. Lights.	For anchor, steaming, & stem nav. Lights.
LED Color	White	White
Voltage	120VAC	120VAC
Wattage	3W	3W
Bulb Type	Index	Non-Index
Remarks	For aqua signal series 50 etc.	Replaces Perko Bulb Fig. 374-4.



Navigation Light LED Replacement Bulbs (12V): Hex GE90 Star™

12/24V H2492 Star™

One-to-one 2NM replacement for Perko Bulb Fig. 337 and Trade #68, #90, #94, #1004 etc. bulbs for nav and reading lights.



One-to-one replacement for Perko Bulb Fig. 337 Trade #68, #90, #94, & #1004 bulbs.

The Hex GE90 Star NAV LED Bulb:

This LED bulb is specially designed as a direct, one-toone, replacement for the incandescent navigation anchor lights available on the market such as those from Perko and other manufacturers.

PN: 9000425

PN: 8000067

This high-quality bulb is the perfect way to reduce energy consumption on your boat with a current draw of only about 0.12A. This is especially well-suited for mast mounted lights, as their incredible reliability will mean an end to frequent climbs up the mast to replace nav light bulbs.

Works on Perko Series 0120, 0170, 1301, 0337, 0362, 0371, 0455, 0466, 1134, 1137, 1209, 1311, 1330, 1400, 1401, etc.

Features

- Bayonet 15mm double contact non-index (non-offset) configuration
- #1004, #90 etc. bulb replacements (one-to-one replacement)
- For 2NM nav lights
- * High-Power LED 12VDC *2 NM visibility
- Conformal coated & use of long life components: e.g. ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides for constant energy consumption, regardless of voltage fluctuations from the source (10 to 15 VDC), meaning no flickering and longer LED life
- Long service life, shockproof, ultra-rugged with no filament to burn out or break
- Very low power consumption (approximately 1.5 W)

Single contact model works on Hella 2492 anchor light.



Part #	9000425	9000517	9000524	9000531	8000067
Description	2NM anchor light	Red 2NM	Green 2NM	Blue	2NM anchor light
Replacement	#68, #90, *94, #1004 bulbs (one-to-one)	#68, #90, *94, #1004 bulbs (one-to-one)	#68, #90, *94, #1004 bulbs (one-to-one)	#68, #90, *94, #1004 bulbs (one-to-one)	Hella 2492
Bulb Type	Double contact non-index	Double contact non-index	Double contact non-index	Double contact non-index	Single contact
Voltage, Lumen Output	12 VDC, 90 Lumens (15W eqv.)	12 VDC	12 VDC	12 VDC	12/24 VDC





Navigation Light LED Replacement Bulbs (12V): Polar Star 20™

12 VDC 2NM 9mm single contact miniature bayonet LED replacement bulb for navigation & deck lights. Replaces aqua signal series 20 nav light bulbs and aqua signal series 25 deck light bulb



9mm Miniature Bayonet Bulb

Finally, a true one-to-one LED replacement bulb for incandescent navigation lights using 9mm miniature bayonet bulbs. This single contact bayonet LED bulb is specially designed as a direct replacement for many navigation and deck lights. It works with aqua signal series 20 nav lights and aqua signal series 25 deck lights. This high-quality high-power LED bulb is the perfect way to reduce energy consumption on your boat with a current draw of only about 0.1A. Its incredible reliability means an end to frequent climbs up the mast to replace navigation light bulbs.

PN: 8001849 Features

- Replaces 9mm miniature bayonet bulbs.
- Replaces agua signal series 20 nav bulbs and agua signal series 25 deck light bulb.
- * High-Power LED *2 NM visibility *12 VDC *Warm White
- Zero radio frequency (RF) emission, surface-mount-device design.
- Conformal coated & use of long life components: e.g. ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides constant current draw regardless of voltage fluctuations from the source (10 to 18 VDC), meaning no flickering and longer LED life.
- Long service life, shockproof, and ultra-rugged with no filament to burn out or break.
- Very low power consumption (approximately 1 W).
- Lead and mercury free, no UV output.
- Designed in the USA.

Part #	8001849					
Description	2 NM 9mm miniature bayonet LED bulb					
LED Color	Warm White					
Replacements	aqua signal series 20 nav light bulbs and aqua signal series 25 deck light bulb					
Voltage	12 VDC					
Current Draw	0.1 A					
Lumen Output	60 Lumens (10W eqv.)					
Dimensions	~28mm (1.1") length 12mm (0.47") width					



PN: 8001849

aqua signal series 25 deck light

Replaces bulb trade # 53, 57, 181, 1416, & 1816.

Replaces Ancor bulb # 520053, 520057, 521126, 521416, 529337, & 529355.



Navigation Light LED Replacement Bulb (12V): P338 Wedge Star™

Perko Bulb Fig. 338 LED replacement for popular Perko pole lights PN: 9000371

The P338 Wedge Star NAV LED Bulb:

This LED bulb is specially designed as direct replacement for most of the incandescent navigation anchor/steaming lights available on the market such as those from Perko and other manufacturers.

This high-quality bulb is the perfect way to reduce energy consumption on your boat with a current draw of only about 0.06 A. This is especially well suited for many wedge based nav lights.





LED Replacement for Perko Bulb Fig. 338

Works on Perko Series 0238, 0239, 1236, 1273, 1274, 1281, 1283, 1284, 1440, 1445, 1450, 1451, 1452, 1455, 1456, 1460, 1461, 1465, 1470, 1604, 1607, 1622, 1634, 1637, 1656, etc.

- Wedge base configuration
- Perko Bulb Fig. 338 replacement (a one-to-one replacement)
- For 2NM white nav lights
- * SMD LED *2 NM visibility 12 VDC
- Zero radio frequency (RF) emission
- Conformal coated & use of long life components: e.g. ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides for constant energy consumption, regardless of voltage fluctuations from the source (10 to 15 VDC), meaning no flickering and longer LED life
- Long service life, shockproof, ultra-rugged with no filament to burn out or break
- Very low power consumption (approximately 0.72 W)

Part #	9000371
Description	For 2NM Anchor / Steaming Light
Replacement	Perko Bulb Fig. 338
Bulb Type	Wedge Base
Voltage:	12 VDC
Lumen Output:	60 Lumens (10W eqv.)
Current	0.06 A



Navigation Light LED Bulb (12V & 24V): 31mm Festoon Star™

12V PN:9000173

24V PN:9000463

12 VDC and 24 VDC 2NM nav light festoon LED replacement bulb for combination masthead & anchor lights. 12VDC Replaces Perko Bulb Fig. 71 & Ancor # 529102 & 24VDC Replaces Perko Bulb Fig. 72 & Ancor # 522129.





Short Festoon LED Bulb:

Finally, a true one-to-one LED replacement bulb for incandescent navigation lights with small festoon bulbs. This short festoon LED bulb is specially designed as a direct replacement for many combination masthead & anchor lights. It works in many Perko lights such as series 1123, 1124, 1125, 1178, 1181, 1183, 1184, 1196, 1197, etc. This high-quality high-power LED bulb is the perfect way to reduce energy consumption on your boat with a current draw of less than 0.1A. Its incredible reliability means an end to frequent climbs up the mast to replace navigation light bulbs.

Features

- Replaces small pointed festoon bulbs.
- 12V Replaces Perko bulb # 0071DP0CLR (Perko Bulb Fig. 71) and Ancor bulb #529102.
- 24V Replaces Perko bulb # 0072DP0CLR (Perko Bulb Fig. 72) and Ancor bulb #522129.
- * High-Power LED
 *2 NM visibility
 *12 VDC and 24VDC
 *Warm White
- Zero radio frequency (RF) emission, surface-mount-device design.
- Conformal coated & use of long life components: e.g. ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides constant current draw regardless of voltage fluctuations from the source, meaning no flickering and longer LED life.
- Long service life, shockproof, and ultra-rugged with no filament to burn out or break.
- Very low power consumption (approximately 1 W).
- Lead and mercury free, no UV output.
- Designed in the USA.

Part #	9000173	9000463
Description	2 NM 31mm festoon LED bulb	2 NM 31mm festoon LED bulb
LED Color	Warm White	Warm White
Replacements	Perko Bulb Fig. 71 (0071DP0CLR) & Ancor # 529102	Perko Bulb Fig. 72 & Ancor 522129
Voltage	12 VDC	24 VDC
Current Draw	0.1 A	0.05 A
Lumen Output	60 Lumens (10W eqv.)	60 Lumens (10W eqv.)
Dimensions	~31mm (1.2") long 11mm (0.43") dia.	~31mm (1.2") long 11mm (0.43") dia.

Selection Guide:

Brand	Series	Mfg. Bulb No.	
Hella	2010	78202 8GM 993 406-001	
Perko	0135, 0227, 0228, 0229, 0232, 0252, 0253, 0254, 0260, 0273, 0277, 0281, 0295, 0904, 0915, 0945, 0955, 0963, 0964, 0965, 0972, 1123, 1124, 1125, 1161, 1178, 1181, 1183, 1184, 1196, 1197, 1201, 1211, 1212, 1218, 1264, 1310, 1331, 1332, 1421, 1422, 1601, 1602, 1612, 1614	Fig. 71 0071DP0CLR 0071DP8CLR	
Attwood	7200 series: 7208, 7212, 7220, 7250, 7251, 7252, 7254, 7255, etc.		

Note:

This LED bulb is polarized. Just rotate it 180 degrees (upside down) to reverse contacts' polarity if it does not light up.

Navigation Light LED Bulbs (12V & 24V): 39-44mm Festoon Star (for clear lens)

12 VDC 39-44mm Festoon Star[™] PN: 9000241 Replaces Perko Bulbs Fig. 69 & 70 PN: 9000562 Replaces Perko Bulbs Fig. 69 & 70 PN: 9000357 Replaces Perko Bulb Fig. 67 and Ancor # 522129



Festoon LED Bulbs, for clear lens fixtures:

Finally, true one-to-one LED replacement bulbs for incandescent navigation and interior lights with festoon bulbs. These festoon LED bulbs are specially designed as direct replacements for many navigation as well as interior lights. They works in many Perko lights such as series 0120, 0170, 106, 108, 109, 110, 111, 259, etc. They also work on aqua signal series 25, Forespar ML-2, as well as Hella series 3562 * 8505. These high-quality high-power LED bulbs are the perfect way to reduce energy consumption on your boat with a current draw of only about 0.1A. Their incredible reliability means an end to frequent climbs up the mast to replace navigation light bulbs.

Features

- Replaces 39mm to 44mm pointed and dimpled festoon bulbs.
- 12 VDC Replaces Perko bulbs # 0069DP0CLR (Perko bulb fig. 69) and #0070DPxCLR (Perko bulb fig. 70).
- 24 VDC Replaces Perko bulbs # 0067DPxCLR (Perko bulb fig. 67) and Ancor #522129.
- * High-Power LED
 *2 NM visibility
 *12 VDC or 24 VDC
 *Warm White and Blue
- Zero radio frequency (RF) emission, surface-mount-device design.
- Conformal coated & use of long life components, e.g. ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides constant current draw regardless of voltage fluctuations from the source, meaning no flickering and longer LED life.
- Long service life, shockproof, and ultra-rugged with no filament to burn out or break.
- Very low power consumption (approximately 1.8 W).
- Designed in the USA.

Part #	9000241 12 VDC	9000562 12 VDC	9000357 24 VDC
Description	2 NM 39-44mm festoon LED bulb	2 NM 39-44mm festoon LED bulb	2 NM 39-44mm festoon LED bulb
LED Color	Warm White	Blue	Warm White
Perko Replacements	Perko Bulbs Fig. 69 & 70	Perko Bulbs Fig. 69 & 70	Perko Bulb Fig. 67
Ancor Replacements	#529095, 529104, 522126, 522131, 522112, 522122, 529333, etc.	#529095, 529104, 522126, 522131, 522112, 522122, 529333, etc.	Ancor #522129
Trade Replacements	#211-2, 212-2, 560, 569, 578, etc.	#211-2, 212-2, 560, 569, 578, etc.	
Voltage (W)	12 VDC (~1.8W)	12 VDC (~1.8W)	24 VDC (~1.8W)
Current Draw	0.14A	0.14A	0.07A
Lumen Output	90 Lumens	90 Lumens	90 Lumens
Dimensions	39mm (1.5") long 12mm (0.5") dia.	39mm (1.5") long 12mm (0.5") dia.	39mm (1.5") long 12mm (0.5") dia.

12 VDC Selection Guides:

Brand	Series	Mfg. Bulb No.	
Aqua Signal	25	90200 90201	
Forespar	ML-2	WN-211 132025	
Hella	3562, 8505	78206 8GM002091-131	· F
Perko	0120, 0170	Fig. 69 0069DP0CLR	新年· 198
	106, 108, 109, 110, 111, 259, 939, 946, 4F, 5F, 7F	Fig. 70 0070DP1CLR 0070DP2CLR	

24 VDC Selection Guide:

Brand	Series	Mfg. Bulb No.	
Perko	0120, 0170	Fig. 67 0067DP1CLR 0067DP2CLR	

Note: These LEDs bulb are polarized. Just rotate them 180 degrees (upside down) to reverse contacts' polarity if they do not light up.

Navigation Light LED Bulbs (12V): 39-44mm Festoon Star (for colored lens)

12 VDC 39-44mm Red Festoon Star[™] PN: 9000548 12 VDC 39-44mm Green Festoon Star[™] PN: 9000555 Replaces Perko Bulbs Fig. 69 & 70 Replaces Perko Bulbs Fig. 69 & 70



Festoon LED Bulbs, for colored lens fixtures:

Finally, true one-to-one LED replacement bulbs for incandescent navigation and interior lights with festoon bulbs. These festoon LED bulbs are specially designed as direct replacements for many navigation as well as interior lights. They works in many Perko lights such as series 0120, 0170, 106, 108, 109, 110, 111, 259, etc. They also work on aqua signal series 25, Forespar ML-2, as well as Hella series 3562 * 8505. These high-quality high-power LED bulbs are the perfect way to reduce energy consumption on your boat with a current draw of only about 0.1A. Their incredible reliability means an end to frequent climbs up the mast to replace navigation light bulbs.

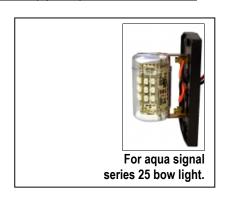
Features

- Replaces 39mm to 44mm pointed and dimpled festoon bulbs.
- 12 VDC Replaces Perko bulbs # 0069DP0CLR (Perko Bulb Fig. 69) and #0070DPxCLR (Perko Bulb Fig. 70).
- * High-Power LED
 *2 NM visibility
 *12 VDC
- Zero radio frequency (RF) emission, surface-mount-device design.
- Conformal coated & use of long life components, e.g. ceramic capacitor (not low hour electrolytic capacitor).
- Internal circuitry provides constant current draw regardless of voltage fluctuations from the source, meaning no flickering and longer LFD life.
- Long service life, shockproof, and ultra-rugged with no filament to burn out or break.
- Very low power consumption (approximately 1.8 W).
- Designed in the USA.

Part #	9000548 12 VDC	9000555 12 VDC	8001122 12 VDC
Description	2 NM 39-44mm festoon LED bulb	2 NM 39-44mm festoon LED bulb	2 NM 44mm festoon LED bulb
LED Color	Red	Green	Red/Green
Perko Replacements	Perko Bulbs Fig. 69 & 70	Perko Bulbs Fig. 69 & 70	For aqua signal series 25 ONLY.
Ancor Replacements	#529095, 529104, 522126, 522131, 522112, 522122, 529333, etc.	#529095, 529104, 522126, 522131, 522112, 522122, 529333, etc.	#529333, 529419, 522112, 529417
Trade Replacements	#211-2, 212-2, 560, 569, 578, etc.	#211-2, 212-2, 560, 569, 578, etc.	Works as both pointed & dimpled festoon replacements.
Voltage (W)	12 VDC (~1.8W)	12 VDC (~1.8W)	12 VDC (~1.5W)
Current Draw	0.14A	0.14A	0.12A
Lumen Output	90 Lumens	90 Lumens	
Dimensions	39mm (1.5") long 12mm (0.5") dia.	39mm (1.5") long 12mm (0.5") dia.	44mm (1.73") tall 32mm (~1.26") dia

12V Selection Guide:

Brand	Series	Mfg. Bulb No.	
Aqua Signal	25	90200 90201	
Forespar	ML-2	WN-211 132025	
Hella	3562, 8505	78206 8GM002091-131	•
Perko	0120, 0170	Fig. 69 0069DP0CLR	
	106, 108, 109, 110, 111, 259, 939, 946, 4F, 5F, 7F	Fig. 70 0070DP1CLR 0070DP2CLR	



Note: These LEDs bulb are polarized. Just rotate them 180 degrees (upside down) to reverse contacts' polarity if they do not light up.

S.A.D. LED Bulb (120V): Midnight Sun™ MKII S.A.D. Bulb

Latest Generation of SAD Bulb: UL Listed, Dimmable, & Proven Dr. LED SAD Technology

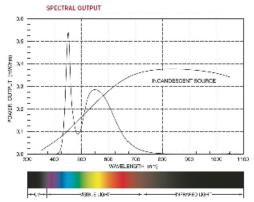


Midnight Sun:

This is the latest generation of our best selling S.A.D. LED bulb. A medium screw base bulb that works on most standard light fixture. No special fixture needed. Thousands of many happy users around the world have purchased our S.A.D. bulbs in the last 10 years with many "amazing" positive reviews.

PN: 8001429-02

Descriptions and how to use:



This is Dr. LED's S.A.D. bulb spectrum, much better than other leading S.A.D. bulbs.

- Typical usage time is 15 to 60 minutes per day.
- Optimally, use this first thing in the morning.
- Not recommended to use in the evening as you might have problem falling into sleep (melatonin suppression)!
- Position your face (eyes) at least three (3) feet away slightly off center from the beam. Or just use this at your reading lamp.
- Do not stare directly at the light, but the light must reach your eyes to achieve full benefits.
- About 30,000 lux at 150mm (4"); the recommended minimum SAD treatment requirement is 10,000 lux at 150mm.

Specifications:

Form Factor: PAR20

Base: Edison Medium Screw Base E26 Input Voltage: 120VAC 60Hz, UL Listed

Wattage Draw: ~8W Lumens: ~600

Color Temperature: Cool White (~6000 ° K)

Color Render Index (CRI): ~86

Main Beam Angle: ~40° No UV output and dimmable.

Ambient operating temperature: -10 ° C to +40 ° C Ambient operating humidity: 20%-80% non-condensing Dimensions: 63.5mm (2.5") dia., 86mm (3.4") long

Weight: 135g. (5 oz.)



100-240VAC 70W Halogen PAR Bulb LED Replacement: Elite PAR30-7D

Dimmable with #1 U.S. Brand CREE LEDs Inside PN: 9000197



Dr. LED's Elite PAR30-7D High-Power Spotlight:

The PAR30-7D, a universal line voltage medium screw base LED PAR bulb, is especially designed as a direct replacement for most 50W - 90W PAR halogen bulbs. The use of high-quality US-made high-power LEDs is the perfect way to reduce energy consumption. It has a standard medium screw base and works just like your regular PAR bulbs.

Model: Elite PAR30-7D PN: 9000197 Description: PAR30 warm white, 3000K, 80+ CRI, 30-degree beam angle.

Features

- PAR30 narrow beam, only 12W, replaces most 70W halogen PAR bulbs.
- Universal line voltage: 100-240 VAC, dimmable.
- Medium screw base (E26 / E27).
- 700 lumens, warm white, 80+ CRI at ~3000° K, 30° beam.
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Very low power consumption (approximately 12 W).
- No toxic lead and mercury free, no UV output (RoHS Compliant).
- US made LEDs, designed to last up to 50,000+ hours.
- Designed in the USA.

Specifications:

Form Factor: PAR30 Narrow

Base: Medium Screw Base E26 / E27 Voltage: 100-240 VAC 50-60Hz

Wattage: ~12W (typical) Lumens: ~700 (typical)

Color Temperature: warm white, ~3000 ° K (typical)

Main Beam Angle: 30 °

Color Rendering Index (CRI): 80+

Ambient operating temperature: -10 ° C to +40 ° C Ambient operating humidity: 20%-80% non-condensing

Dimensions: 95mm (3.75) dia., 99mm (3.9") long, 73mm (2.9") long excluding the E26 base

Weight: 262g (9.2oz.)

100-240VAC 60W Replacement LED Bulb: Elite LB60 A19

Universal voltage 60W equivalent incandescent replacement LED



Elite LB60 A19:

This universal line voltage medium screw base LED bulb is specially designed as a direct replacement for most 40W to 60W incandescent bulbs. It is a high-quality, high-power LED bulb that is the perfect way to reduce energy consumption in your home with energy consumption of only about 7.5W. It comes with a standard medium screw base and works just like your regular bulbs.

PN: 9000180

Model: Elite LB60 A19, Part No.: 9000180 Description: A19 warm white, 3000K, 80+ CRI, 180 degree beam.

Features

- Replaces most 60W incandescent bulbs.
 Universal line voltage: 100-240 VAC.
- Medium screw base (E26/E27).
- Long service life, shockproof, ultra-rugged with no filament to burn out or break.
- Very low power consumption (approximately 7.5 W).
- No toxic lead and mercury free, no UV output (RoHS Compliant).
- Designed in the USA.
- NOT DIMMABLE. This bulb does not work with electronic dimmers.

Specifications:

Form Factor: LB60 A19

Base: Medium Screw Base E26/E27 Voltage: 100-240 VAC 50-60Hz

Wattage: ~7.5W (typical) Lumens: ~320 (typical)

Color Temperature: warm white ~3000 ° K (typical)

Main Beam Angle: 180 °

Color Rendering Index (CRI): 80+

Ambient operating temperature: -10 ° C to +40 ° C Ambient operating humidity: 20%-80% non-condensing

Dimensions: 60mm (2.375) dia.

Weight: 152g. (5.4 oz.)

