

CATALOG SUPPLEMENT

WARNING & HAZARD  
SOLUTIONS

AVERTISSEMENT  
ET DANGER ÉCLAIRAGE

ADVERTENCIA  
Y PELIGRO ILUMINACIÓN

Grote®



**BE VISIBLE  
& BE SAFE**

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# VISIBILITY & SAFETY MATTERS



## CHOOSE THE RIGHT PRODUCT FOR YOUR SPECIFIC APPLICATION AND NEED.

**YOUR SAFETY AND THE SAFETY OF OTHERS DEPENDS ON IT!**

**Not all warning lights are created equal.**

Know the certification and regulations for your application and choose the products that will work as hard as you do! Safety first and foremost! Choose from a variety of mounting options including permanent, magnetic and vacuum/magnet mount solutions.

**Select the proper mounting option for your specific needs and application.**

Permanent mount lighting options should be used for vehicles that will be utilized in over the road application. Magnet or Vacuum/Magnet mounted lighting options should only be used on vehicles that are not in motion, ie: stationary at a job site, off to the side of the road etc.

***You need to be seen while you are working and others need to see you — be visible at all times!***



### **ELECTRO-MAGNETIC COMPLIANCE**

*No need to worry about Electro-Magnetic Compliance (EMC). Grote's new line of LED Lighting products have been put through rigorous Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) testing to help ensure our customers will have years of worry free operation.*

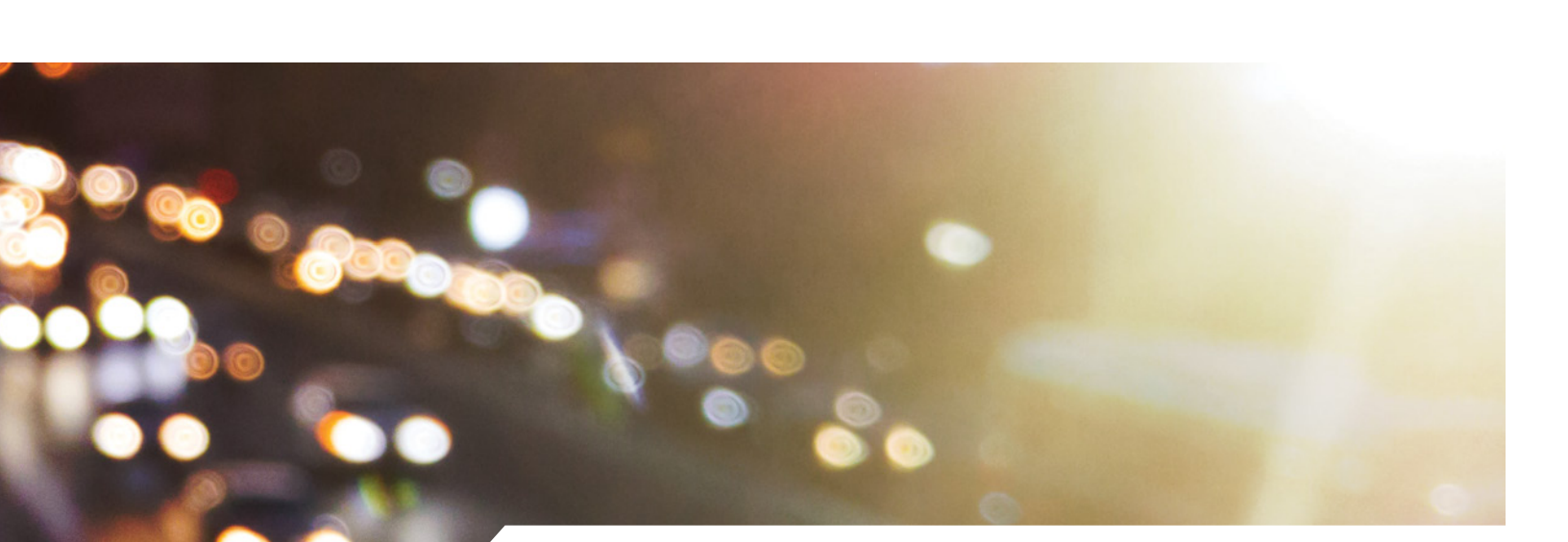
**When it comes to audible warning devices, not all backup alarms are the same.**

Choose the backup alarm that best suits the conditions that the alarm will be used in. Grote offers a wide variety of alarms including heavy duty, medium duty and light duty options. These alarms offer a variety of audible tones. Our alarms are available with standard beeping, or adjustable output levels and the newest multi-frequency alarms for coverage in all conditions and applications.

Grote's backup alarms are available in both surface mount and grommet mount options and are designed and manufactured to perform in today's difficult and harsh environments.

Choose the right alarm that will best suit your unique environments.





## SAE STANDARDS/CERTIFICATIONS

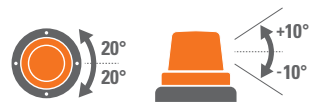
### WHAT WE NEED TO KNOW AND WHY

There are 2 Primary SAE Certifications to be aware of:



#### SAE J845 – Omnidirectional Optical Warning Device

A flashing optical warning device that projects light in a horizontal 360 degree arc and vertically from 5 degrees up to 5 degrees down. It will appear to project flashes of light to an observer positioned at a fixed location. The flashes of light may be a repetitive signal or a non-repetitive signal. If a non-repetitive signal is used it shall be a block of repetitive signals that have been characterized. This would include all 360° beacons.



#### SAE J595 – Directional Flashing Optical Warning Device

A flashing optical warning device, in which the light source produces flashes of light, which is directionally aimed and will project a signal over a minimum area from 20° right to 20° left in a horizontal plane and from 10° up to 10° down in a vertical plane. The flashes of light may be a repetitive signal or a non-repetitive signal. If a non-repetitive signal is used it shall be a block of repetitive signals that have been characterized.

#### S-LINK TECHNOLOGY

*S-Link System is a proprietary technology that will allow similar S-Link products to be synchronized. This would allow for a user to define the flash patterns on multiple devices for a customized, tailored look on a vehicle.*

*Note: Only S-Link compatible products can be synchronized together. Refer to user installation manuals for details on S-Link Synchronization.*

## CLASS I, II, III

### WHICH IS TO BE USED AND WHERE?



#### Class I Optical Warning Devices

Primary optical warning devices for use on authorized emergency vehicles responding to emergency situations. These devices are utilized to capture the attention of motorists and pedestrians and warn of a potentially hazardous activity or situation.

#### Typical Usage

Fire, Police, Ambulance and Rescue vehicles – Authorized vehicles that travel faster than the speed of traffic



#### Class II Optical Warning Devices

Primary optical warning devices for use on authorized maintenance or service vehicles to warn of traffic hazards such as a lane blockage or slow moving vehicle.

#### Typical Usage

Utility, Roadside Assist vehicles, construction vehicles – Over the road vehicles travelling at the speed of traffic or stopped at the side of the road



#### Class III Optical Warning Devices

Primary optical warning devices for use on vehicles authorized to display an optical warning device for identification only.

#### Typical Usage

Forklifts, yard work machines



## BACKUP ALARMS



## FEATURES &amp; BENEFITS

- Rugged construction Glass-Filled Nylon housings
- Universal mounting including grommet mounted products
- Available in a range of Decibel output levels to fit a wide variety of application needs
- Select the best output level based on environment and ambient noise levels where the alarms will be in use

**Voltage:** 12 to 24 VDC

**Amp Draw:** 0.1 AMPS – 0.5 AMPS @ 12 VDC



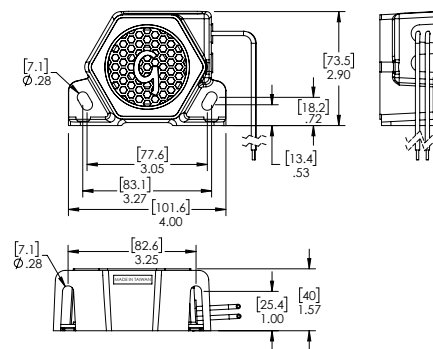
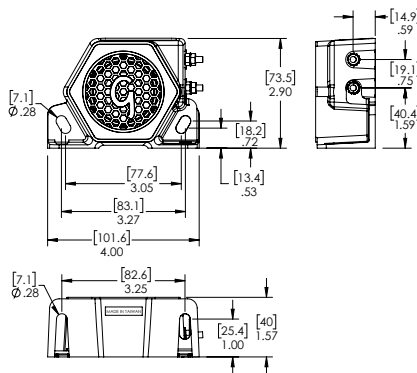
73040



73090



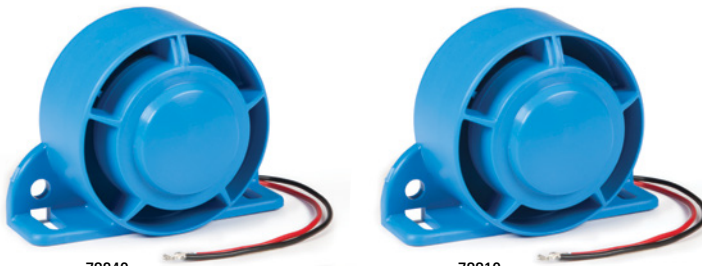
73110



PART	DESCRIPTION	DECIBELS	VOLTAGE	APPROVALS
73040	Backup Alarm, Medium Duty	97dB	12/24V	SAEJ994 Type C
73090	Backup Alarm, Medium Duty	107dB	12/24V	SAEJ994 Type B
73110	Backup Alarm, Self Adjusting	82dB to 102dB	12/24V	SAEJ994 Type F
73250	Backup Alarm, Reverse Mounted Speaker	107dB	12/24V	SAEJ994 Type B
73070	Backup Alarm, Reverse Mounted Speaker	112dB	12/24V	SAEJ994 Type A
73240	Backup Alarm, Reverse Mounted Speaker, Self Adjusting	87dB to 107dB	12/24V	SAEJ994 Type F
73080	Backup Alarm, Reverse Mounted Speaker, Self Adjusting	87dB to 112dB	12/24V	SAEJ994 Type F
73030	Backup Alarm, Reverse Mounted Speaker, Selectable	107dB or 112dB	12/24V	SAEJ994 Type F
73220	Backup Alarm, 4" Grommet Mount	97dB	12/24V	SAEJ994 Type C
73160	Backup Alarm, 4" Grommet Mount	107dB	12/24V	SAEJ994 Type B
73310	Backup Alarm, Multi Frequency	97dB	12/24V	SAEJ994 Type C
73170	Backup Alarm, Multi Frequency	107 dB	12/24V	SAEJ994 Type B



BACKUP ALARMS

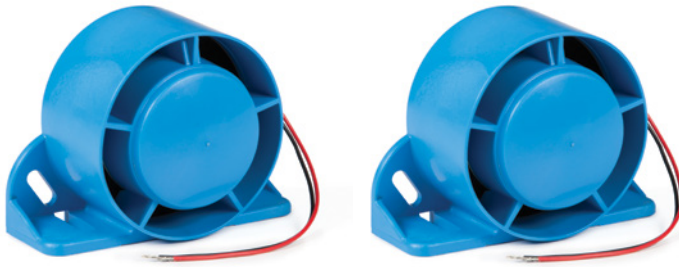
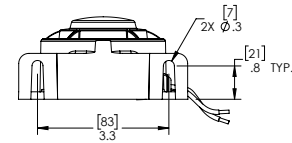
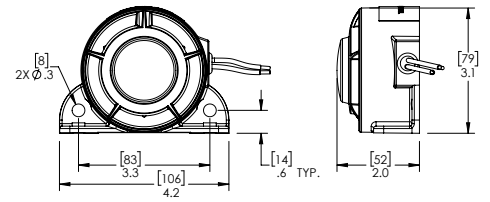


73240

73310

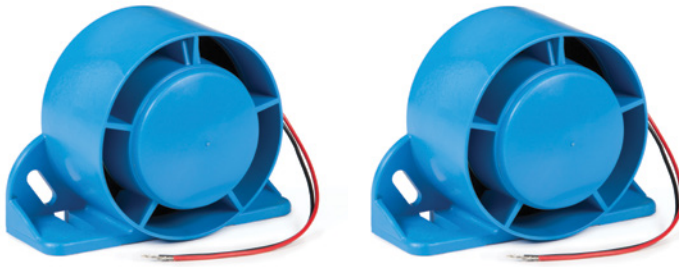


73250



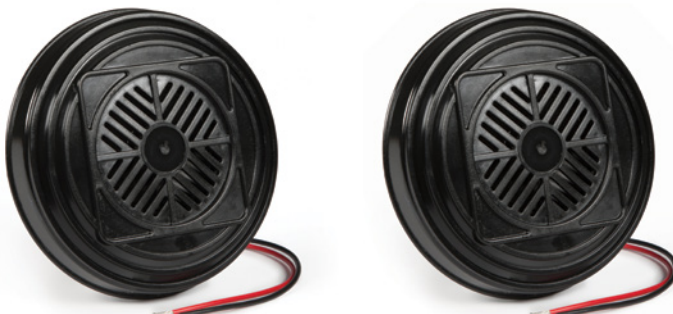
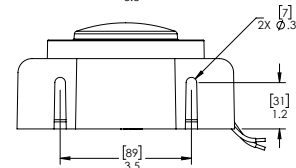
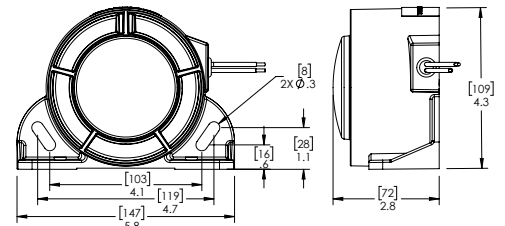
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73030



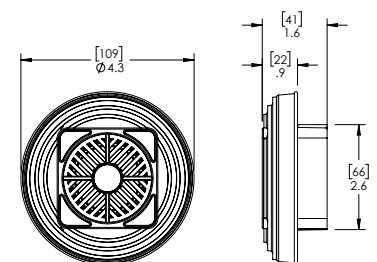
73070

73170



73220

73160





## LED BEACON, CLASS I, TALL DOME

## DUAL COLOR, PERMANENT MOUNT



78013



78015



78010

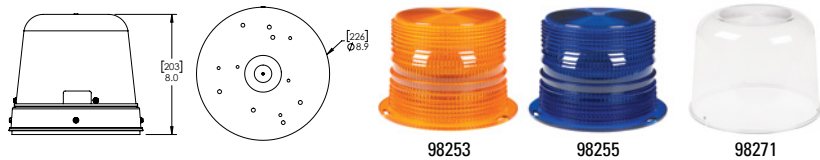
## FEATURES &amp; BENEFITS

- 12 different selectable flash patterns in either of two phases, plus steady-on
- Durable polycarbonate inner lens and outer dome
- Clear, smooth outer dome for easy cleaning and inner lens protection
- Heavy duty spun aluminum base with plastic base insert
- Designed for a wide range of light and heavy duty vehicles
- S-Link™ System\* synchronizing capabilities with up to six other units (for hardwire models only). Allows for synchronization with other S-Link compatible products
- High-Low power available on single color beacons
- Ability to isolate colors on dual color models
- 5 year warranty

**Voltage:** 12 to 24 VDC

**Amp Draw:** 0.6 amps @ 12 VDC, 0.3 amps @ 24 VDC

**APPROVALS:** SAE J845 CLASS I ● AMBER ○ WHITE SAE J845 CLASS II ● BLUE



PART #	DESCRIPTION	COLOR
78010	LED Beacon, Class I, Tall Dome	● Blue/Clear Dome
78011	LED Beacon, Class I, Tall Dome	○ White/Clear Dome
78013	LED Beacon, Class I, Tall Dome	● Amber/Clear Dome
78015	LED Beacon, Class II, Tall Dome	● Blue/Clear Dome

## SERVICE PARTS

98251	Internal Replacement Lens	○ Clear
98253	Internal Replacement Lens	● Amber
98255	Internal Replacement Lens	● Blue
98271	Replacement Outer Dome	○ Clear

**PERMANENT MOUNT, VACUUM MOUNT**

**LED BEACON, CLASS I**

**FEATURES & BENEFITS**

- 12 different selectable flash patterns in either of two phases, plus steady-on
- Extremely low current draw
- Durable polycarbonate twist on/off lens
- S-Link™ System\* synchronizing capabilities with up to six other units (for hardwire models only). Allows for synchronization with other S-Link compatible products
- Circuit board is conformal coated to protect circuitry
- Durable, lightweight polycarbonate base, flange 3-hole permanent mount, 1" pipe mount, vacuum magnet mount with cig. plug (on/off and pattern select switch)
- 5 year warranty

**PERMANENT MOUNT**

**Voltage:** 12 to 24 VDC  
**Amp Draw:** 0.5 amps @ 12 VDC

**VACUUM MAGNET**

**Voltage:** 12 VDC  
**Amp Draw:** 0.5 amps @ 12 VDC

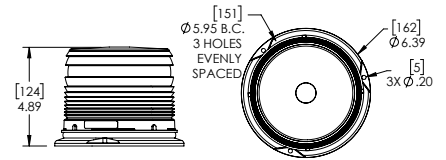
**APPROVALS:** SAE J845 CLASS I ● AMBER ○ WHITE SAE J845 CLASS II ● BLUE



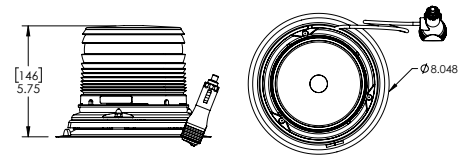
PART #	DESCRIPTION	MOUNT	COLOR
<b>SHORT LENS</b>			
78031	LED Beacon, Class I, Short Lens	Permanent	○ White
78041	LED Beacon, Class I, Short Lens	Vacuum Magnet	○ White
78033	LED Beacon, Class I, Short Lens	Permanent	● Amber
78043	LED Beacon, Class I, Short Lens	Vacuum Magnet	● Amber
78035	LED Beacon, Class II, Short Lens	Permanent	● Blue
78045	LED Beacon, Class II, Short Lens	Vacuum Magnet	● Blue
<b>TALL LENS</b>			
78051	LED Beacon, Class I, Tall Lens	Permanent	○ White
78053	LED Beacon, Class I, Tall Lens	Permanent	● Amber
78055	LED Beacon, Class II, Tall Lens	Permanent	● Blue
<b>SERVICE PARTS</b>			
98221	Replacement Short Lens		○ Clear
98223	Replacement Short Lens		● Amber
98225	Replacement Short Lens		● Blue
98171	Replacement Tall Lens		○ Clear
98173	Replacement Tall Lens		● Amber
98175	Replacement Tall Lens		● Blue
98470	Branch Guard (Low Profile)		
98460	Branch Guard (High Profile)		



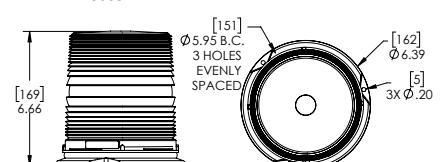
78033



78043



78053





LED BEACON, CLASS II, SHORT LENS

PERMANENT MOUNT, VACUUM MOUNT



78853



78851



78865



78863

FEATURES & BENEFITS

- 26 customer selectable flash patterns, plus steady-on
- Circuit board is conformal coated to protect circuitry
- Durable, lightweight polycarbonate base, flange 3-hole permanent mount, 1" pipe mount, vacuum magnet mount with cig. plug(on/off and pattern select switch)
- 5 year warranty

PERMANENT MOUNT

Voltage: 12 to 24 VDC

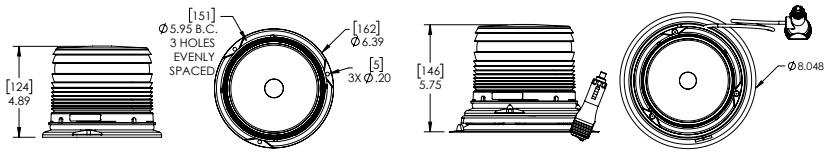
Amp Draw: 0.4 amps – 0.35 amps @ 12 VDC

VACUUM MAGNET

Voltage: 12 VDC

Amp Draw: 0.4 amps – 0.35 amps @ 12 VDC

APPROVALS: SAE J845 CLASS II ● AMBER ○ WHITE SAE J845 CLASS III ● BLUE



PART #	DESCRIPTION	MOUNT	COLOR
78851	LED Beacon, Class II	Permanent	○ White
78853	LED Beacon, Class II	Permanent	● Amber
78855	LED Beacon, Class III	Permanent	● Blue
78861	LED Beacon, Class II	Vacuum Magnet	○ White
78863	LED Beacon, Class II	Vacuum Magnet	● Amber
78865	LED Beacon, Class III	Vacuum Magnet	● Blue
<b>SERVICE PARTS</b>			
98221	Replacement Short Lens		○ Clear
98223	Replacement Short Lens		● Amber
98225	Replacement Short Lens		● Blue
98470	Branch Guard (Low Profile)		

**PERMANENT MOUNT** | **LED BEACON, CLASS II, TALL LENS**



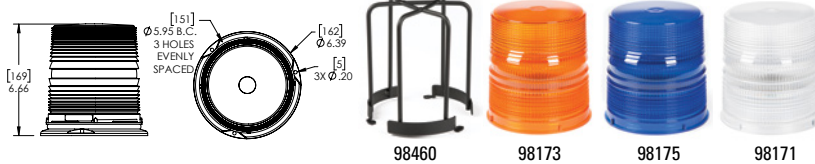
**FEATURES & BENEFITS**

- 26 customer selectable flash patterns including steady-on
- Circuit board is conformal coated to protect circuitry
- Durable lightweight, polycarbonate, universal flange base
- 3-hole permanent mount, 1" pipe mount
- 5 year warranty

**Voltage:** 12 to 24 VDC

**Amp Draw:** 0.4 amps – 0.35 amps @ 12 VDC

**APPROVALS:** SAE J845 CLASS II ● AMBER ○ WHITE ● BLUE



78063



78065



78061

PART #	DESCRIPTION	COLOR
78061	LED Beacon, Class II, Tall Lens	○ White
78063	LED Beacon, Class II, Tall Lens	● Amber
78065	LED Beacon, Class II, Tall Lens	● Blue
<b>SERVICE PARTS</b>		
98171	Replacement Tall Lens	○ Clear
98173	Replacement Tall Lens	● Amber
98175	Replacement Tall Lens	● Blue
98460	Branch Guard (High Profile)	



## LED BEACON, CLASS I

## DUAL COLOR, PERMANENT MOUNT



78071



78075



78081

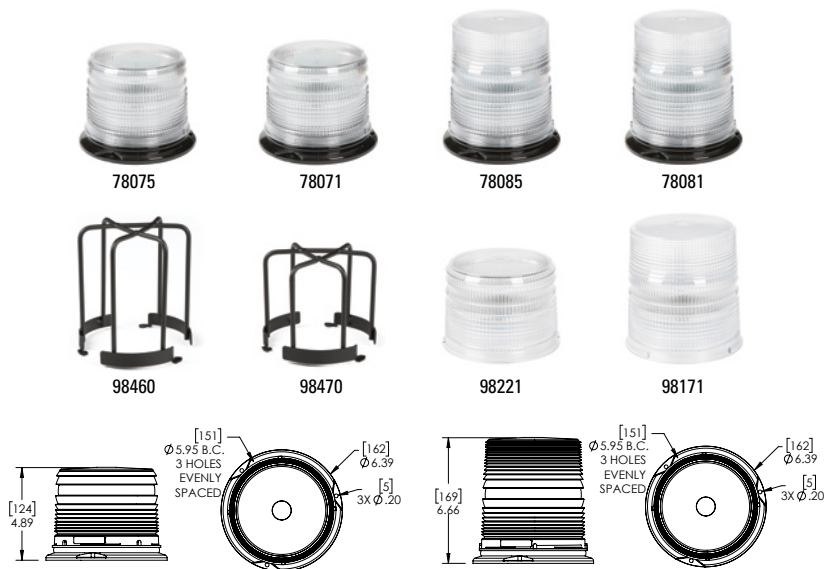
## FEATURES &amp; BENEFITS

- 12 Customer selectable flash patterns including steady-on
- S-Link™ System\* synchronizing capabilities with up to six other units (for hardwire models only). Allows for synchronization with other S-Link compatible products
- Change colour selection with the flip of a switch
- 3-hole permanent mount, 1" pipe mount
- Circuit boards are conformal coated to protect circuitry
- 5 year warranty

**Voltage:** 12 to 24 VDC

**Amp Draw:** 0.6 amps @ 12 VDC, 0.3 amps @ 24 VDC

**APPROVALS:** SAE J845 CLASS I



PART #	DESCRIPTION	COLOR
78071	LED Beacon, Class I, Short Lens	Amber/White
78075	LED Beacon, Class I, Short Lens	Amber/Blue
98470	Branch Guard (Low Profile)	
78081	LED Beacon, Class I, Tall Lens	Amber/White
78085	LED Beacon, Class I, Tall Lens	Amber/Blue
98460	Branch Guard (High Profile)	
<b>SERVICE PARTS</b>		
98171	Replacement Tall Lens	Clear
98221	Replacement Short Lens	Clear

**\*S-LINK TECHNOLOGY:** S-Link System is a proprietary technology that will allow similar S-Link products to be synchronized. This would allow for a user to define the flash patterns on multiple devices for a customized, tailored look on a vehicle. Note: Only S-Link compatible products can be synchronized together. Refer to user installation manuals for details on S-Link Synchronization.

**LED MATERIAL HANDLING BEACONS**

**FEATURES & BENEFITS**

- 28 Selectable flash patterns plus 2 steady-on
- 78113: User selectable Single, Double or Quad flash patterns
- Circuit board is conformal coated to protect circuitry
- Easy 'Twist-off' lens for ease of replacement
- Lightweight, durable polycarbonate base
- Flange 3-hole permanent mount on 78093
- Flange 2-hole permanent mount on 78113
- Magnet mount with cig. plug on 78103
- 5 Year Warranty: 78093 & 78103
- 1 Year Warranty: 78113

**SHORT LENS**

**Voltage:** 12 to 72 VDC  
**Amp Draw:**  
.17 amps @ 12 VDC

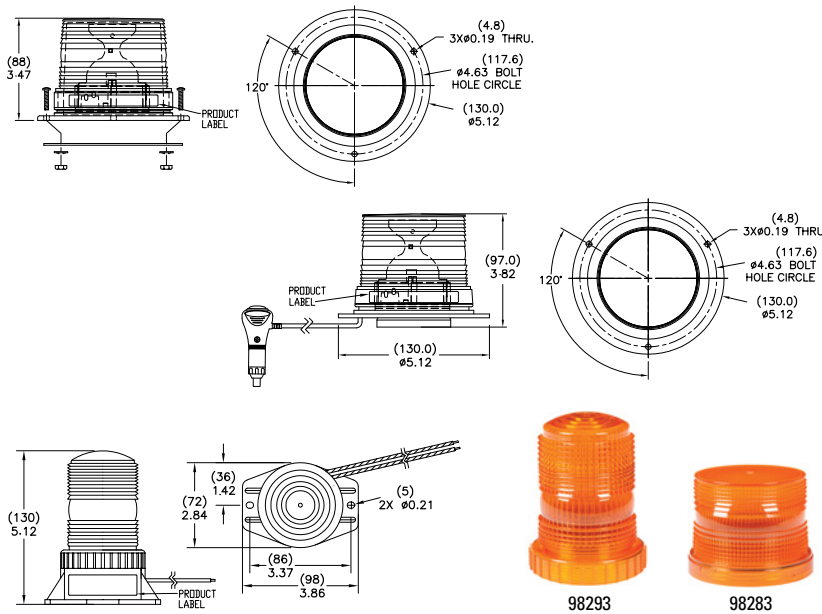
**SHORT LENS, VACUUM MAGNET**

**Voltage:** 12 VDC  
**Amp Draw:**  
.22 amps @ 12 VDC

**TALL LENS**

12 to 72 VDC  
**Amp Draw:**  
1.2 amps @12 VDC

**APPROVALS: SAE J845 CLASS III**



78093



78103



78113



98293

98283

PART #	DESCRIPTION	COLOR
78093	LED Material Handling, Class III, Short Lens	Amber
78103	LED Material Handling, Class III, Short Lens, Magnet Mount	Amber
78113	LED Material Handling, Class III, Tall Lens	Amber
<b>SERVICE PARTS</b>		
98283	7809 Replacement Lens – 3" Height	Amber
98293	7809 Replacement Lens – 3.9" Height	Amber



DIN MOUNT LED BEACON



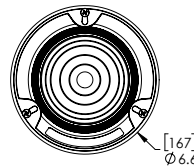
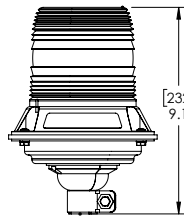
**FEATURES & BENEFITS**

- Quad flash pattern
- Modular circuit completely encapsulated for increased shock/weather resistance
- Lightweight and durable polycarbonate base with flexible DIN mount
- 5 Year Warranty

**Voltage:** 12 to 24 VDC

**Amp Draw:** 0.4 Amps @ 12 VDC

**APPROVALS:** SAE J845 CLASS II ● AMBER ● BLUE ● SAE J845 CLASS III ● RED



PART #	DESCRIPTION	COLOR
78122	LED Beacon, Class III, DIN Mount	● Red
78123	LED Beacon, Class II, DIN Mount	● Amber
78125	LED Beacon, Class II, DIN Mount	● Blue
<b>SERVICE PARTS</b>		
43665	Mounting Stem	

**LED MINI LIGHT BAR**

**FEATURES & BENEFITS**

- Permanent mount models – 20 customer selectable flash patterns via external pattern select wire
- Low profile reduces drag and friction
- S-Link™ System\* synchronizing capabilities with up to six other units (for hardware models only). Allows for synchronization with other S-Link compatible products
- Magnetic and vacuum mounted products come complete with a cigarette plug for on/off function and 20 user selectable flash patterns
- 5 Year Warranty

**PERMANENT MOUNT**

**Voltage:** 12 to 24 VDC  
**Amp Draw:** 2.3 amps max

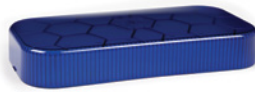
**VACUUM MAGNET**

**Voltage:** 12 VDC  
**Amp Draw:** 2.3 amps max

**APPROVALS: SAE J845 CLASS I**



98313



98315

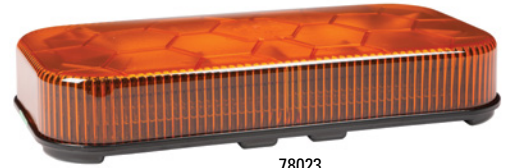
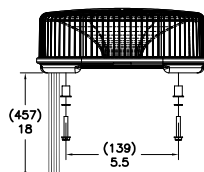
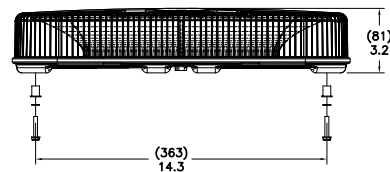
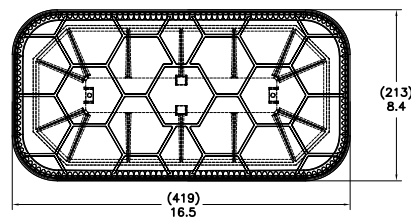


98311

PART #	DESCRIPTION	MOUNT	COLOR
78020	LED Mini Light Bar	Permanent	● ● Amber/Blue
78023	LED Mini Light Bar	Permanent	● Amber
78025	LED Mini Light Bar	Permanent	● Blue
78130	LED Mini Light Bar	Vacuum Magnet	● ● Amber/Blue
78133	LED Mini Light Bar	Vacuum Magnet	● Amber
78135	LED Mini Light Bar	Vacuum Magnet	● Blue
78443	LED Mini Light Bar	Magnetic	● Amber

**SERVICE PARTS**

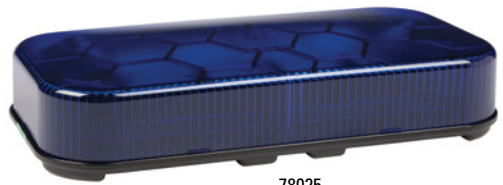
98311	Replacement Lens	○ Clear
98313	Replacement Lens	● Amber
98315	Replacement Lens	● Blue



78023



78020



78025



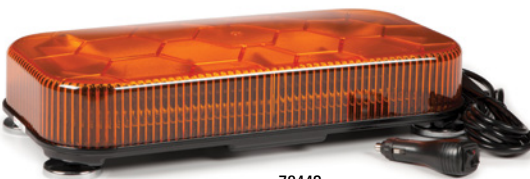
78133



78130



78135



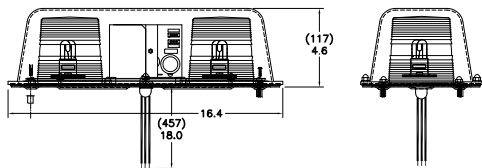
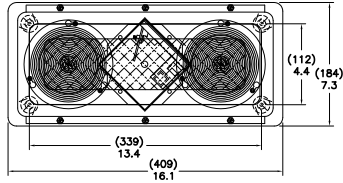
78443



LED STROBE LIGHT BAR



79043



FEATURES & BENEFITS

- 17 different selectable flash patterns in either of two phases, plus steady-on
- Full gasket protects lamp internal components from dirt, grime and other contaminants
- 5 year Warranty

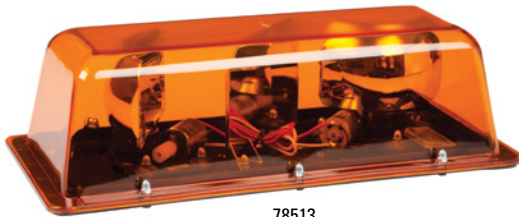
Voltage: 12 to 24 VDC

Amp Draw: 2 amps @ 12 VDC

APPROVALS: SAE J845 CLASS II

PART #	DESCRIPTION	COLOR
79043	LED Dual Strobe Mini Bar	● Amber
<b>SERVICE PARTS</b>		
98373	Replacement Lens – Outer	● Amber
98383	Replacement Lens – Inner	● Amber

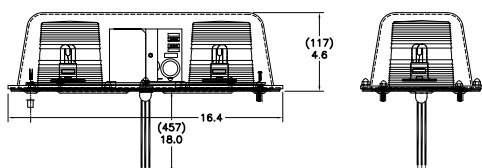
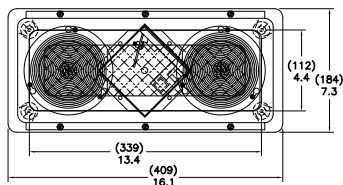
NON-LED MINI BAR LAMPS



78513



79023



FEATURES & BENEFITS

- Gasket between lens and base for increased protection of internal components
- Durable polycarbonate plastic base
- 1 year Warranty

Voltage: 12 VDC

Amp Draw: 8 amps @ 12 VDC

APPROVALS: 78513: SAE J845 CLASS I 79023: SAE J845 CLASS II



98373



90900



98383

PART #	DESCRIPTION	COLOR
78513	Halogen Rotating Mini Light Bar	● Amber
79023	Strobe Mini Light Bar	● Amber
<b>SERVICE PARTS</b>		
98373	Replacement Lens – Outer	● Amber
98383	Replacement Lens – Inner	● Amber
90900	Replacement Halogen Bulb	

## SURFACE MOUNT

## LED DIRECTIONAL LIGHT

### FEATURES & BENEFITS

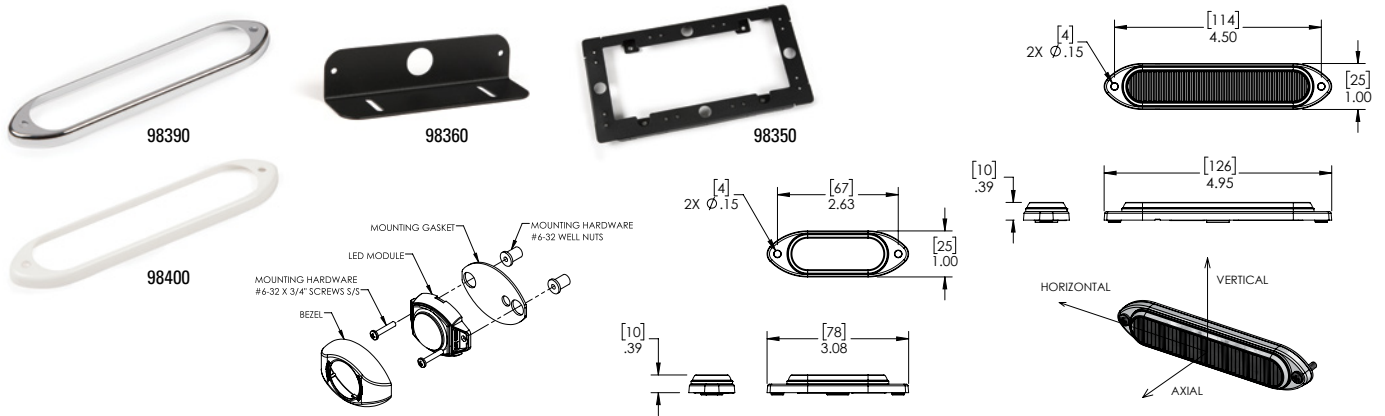
- Ultra low profile; Single and split color models
- 12 different selectable flash patterns in either of two phases, plus steady-on
- Robust design, die cast aluminum base
- Endless mounting possibilities
- Standard four wire hook-up
- S-Link™ System\* synchronizing capabilities with up to six other units (for hardware models only). Allows for synchronization with other S-Link compatible products
- Optional chrome or white bezels available
- 5 Year Warranty

### VOLTAGE

**6 Diode LED:** 0.55 Amps @ 12 V    **3 Diode LED:** 0.3 Amps @ 12 V

**APPROVALS: SAE J595 CLASS I**    ● AMBER    ● BLUE    ○ WHITE    ● RED

**APPROVALS: SAE J595 CLASS II**    ●● AMBER/BLUE    ●○ AMBER/WHITE



PART #	DESCRIPTION	VOLTAGE	COLOR
<b>6 DIODE LED</b>			
78140	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	●● Amber/Green
78141	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	○ White
78142	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	● Red
78143	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	● Amber
78144	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	● Green
78145	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	● Blue
78146	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	●● Amber/Blue
78460	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	●○ Amber/White
79033	6 Diode LED Directional Light, Surface Mount	12 to 24 VDC	● Amber
<b>3 DIODE LED</b>			
78161	3 Diode LED Directional Light, Surface Mount	12 VDC	○ White
78162	3 Diode LED Directional Light, Surface Mount	12 VDC	● Red
78163	3 Diode LED Directional Light, Surface Mount	12 VDC	● Amber
78164	3 Diode LED Directional Light, Surface Mount	12 VDC	● Green
78165	3 Diode LED Directional Light, Surface Mount	12 VDC	● Blue
<b>SERVICE PARTS</b>			
98350	License Plate Bracket	—	● Black
98360	L Bracket	—	● Black
98390	Chrome Bezel for 7814x Models	—	○ Chrome
98400	White Bezel for 7814x Models	—	○ White



## WARNING LIGHTS

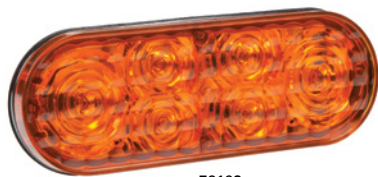
## SURFACE &amp; GROMMET MOUNT



78173



78175



78193



78194



98420



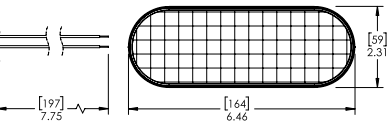
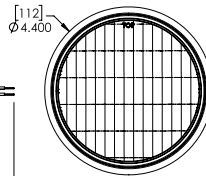
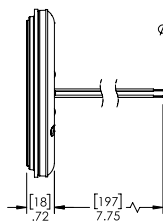
98420



98410



98480



## FEATURES &amp; BENEFITS

- 12 different selectable flash patterns in either of 2 phases plus steady-on
- Only .84" thick
- S-Link™ System\* synchronizing capabilities with up to six other units (for hardwire models only). Allows for synchronization with other S-Link compatible products
- Grommet mount can be converted to surface mount with optional chrome or black bezels
- 5 Year Warranty

**Voltage:** 12 to 24 VDC

**Amp Draw:** 0.3 amps @ 12 VDC, 0.2 amps @ 24 VDC

**Amp Draw (79033 only):** 0.6 amps @ 12V

**APPROVALS:** SAE J595 CLASS I    ● AMBER    ● BLUE    ○ WHITE    ● AMBER/BLUE

PART #	DESCRIPTION	VOLTAGE	COLOR
<b>LED 4" ROUND</b>			
78171	LED 4" Round Warning Light, Grommet Mount	12 to 24 VDC	○ White
78173	LED 4" Round Warning Light, Grommet Mount	12 to 24 VDC	● Amber
78174	LED 4" Round Warning Light, Grommet Mount	12 to 24 VDC	● Green w/Clear Lens
78175	LED 4" Round Warning Light, Grommet Mount	12 to 24 VDC	● Blue w/Clear lens
<b>LED 6" OVAL</b>			
78190	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	● Amber/Blue
78191	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	○ White
78193	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	● Amber
78194	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	● Green w/ Clear Lens
78195	LED 6" Oval Warning Light, Grommet Mount	12 to 24 VDC	● Blue w/Clear lens
<b>SERVICE PARTS</b>			
98410	6" Oval Black Surface Mount Bezel		
98480	6" Oval Chrome Surface Mount Bezel		
98420	4" Round Black Surface Mount Bezel		
98430	4" Round Chrome Surface Mount Bezel		

\***S-LINK TECHNOLOGY:** S-Link System is a proprietary technology that will allow similar S-Link products to be synchronized. This would allow for a user to define the flash patterns on multiple devices for a customized, tailored look on a vehicle. Note: Only S-Link compatible products can be synchronized together. Refer to user installation manuals for details on S-Link Synchronization.

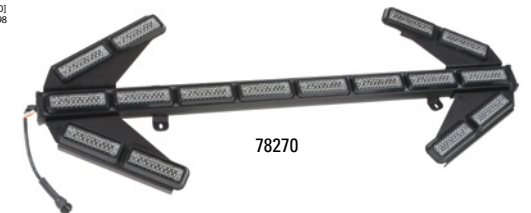
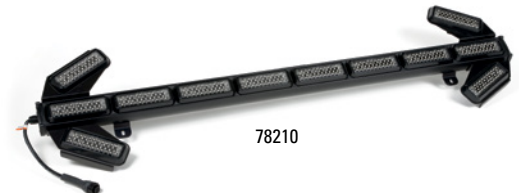
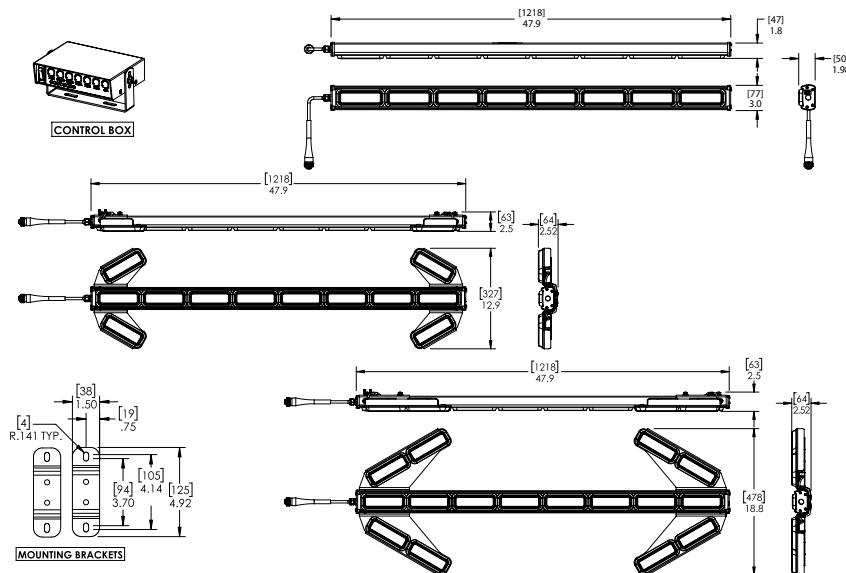
**LED TRAFFIC DIRECTORS/ARROWS**



**FEATURES & BENEFITS**

- Made from durable extruded aluminum — Traffic Directors will not warp or bend
- Micro-processor control unit offers four modes with distinctive flash options
- Front load for easy replacement of individual heads
- Modes: left arrow, right arrow, center out, and warn (alternating)
- Ships complete with back lit control unit, attached quick-disconnect wire harness (15' standard), L-brackets, hardware, and instructions
- 5 year warranty

**Voltage:** 12 VDC **Amp Draw:** 1.1 amps @12V DC



PART #	DESCRIPTION
<b>78200</b>	LED Traffic Director
<b>78210</b>	Small LED Traffic Director with Arrow
<b>78270</b>	Large LED Traffic Director with Dual Lamp Arrow
<b>SERVICE PARTS</b>	
<b>98333</b>	Replacement Module for Traffic Director (78200, 78210, 78270)



## LED TRAFFIC DIRECTORS



98343

## FEATURES &amp; BENEFITS

- 34 customer selectable warning flash patterns plus 5 phase options
- Made from durable extruded aluminum — will not warp or bend
- Front load for easy replacement of individual heads
- 20" model comes with a 2' three-wire cable (power, ground, pattern select)
- 30" & 40" models come with a 25' six wire cable, (power, ground, program wire, left enable, right enable, warn enable, center-out = L + R)
- Ideal for front push bumpers, pickup trucks, headache rack, running board lights
- Weatherproof interior or exterior mount
- 5 year warranty

**Voltage:** 12 VDC

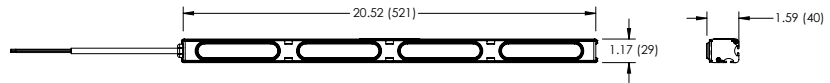
**Amp draw:** 2 amps average (4 head), 3 amps average (6 head), 4 amps average (8 head) @ 12V

**APPROVALS:** SAE J575 CLASS I

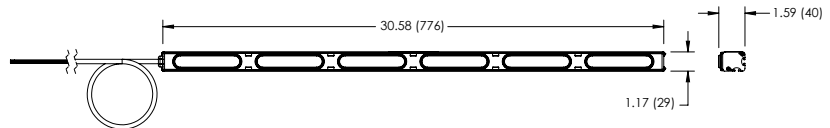
PART #	DESCRIPTION	COLOR
78370	20" LED 4 Module Warning Stick	Amber
78380	30" LED 6 Modules Traffic Director	Amber
78410	40" LED 8 Modules Traffic Director	Amber
<b>SERVICE PARTS</b>		
98343	Replacement Module	Amber



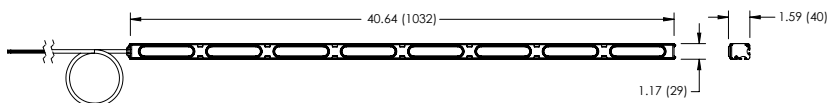
78370



78380



78410



**BRITEZONE™ LED WORK LIGHTS**

**NOT ONLY DO YOU NEED TO BE VISIBLE TO BE SAFE, YOU MUST BE ABLE TO SEE PROPERLY IN THE AREAS YOU ARE WORKING**

**GROTE BRITEZONE LED WORK LAMPS ARE THE PERFECT SOLUTION FOR LIGHT WHERE YOU NEED IT WHEN YOU NEED IT!**

Grote's line of affordable LED lamps are designed to work when you need them — no excuses. Rain or shine, day or night, wet or dry — Grote's signature design, quality and performance are on display. With rugged, durable construction and LED power that far outshines halogen, BriteZone™ lamps get the job done.

Boating. Mowing. Off-roading. Working. Long after the sun goes down, you're still out there doing your thing—and you need a lamp that's as tough and tireless as you are. Grote's BriteZone™ range has the LED lamp to shed light on any use — even tow trucks, garbage trucks and forklifts — without breaking the bank.



BZ101-5



BZ201-5



BZ601-5



BZ301-5



BZ401-5



BZ501-5



BZ111-5



BZ551-5



BZ511-5

PART #	DESCRIPTION
<b>BZ101-5</b>	BriteZone™ Forward Lighting, Round, LED Work Lamp Assembly
<b>BZ201-5</b>	BriteZone™ Forward Lighting, Square, LED Work Lamp Assembly
<b>BZ301-5</b>	BriteZone™ Forward Lighting, Slim, LED Work Lamp Assembly
<b>BZ401-5</b>	BriteZone™ Forward Lighting, EZ Grip Hand Held, LED Work Lamp Assembly
<b>BZ501-5</b>	BriteZone™ Forward Lighting, Go Anywhere Hand Held, LED Work Lamp Assembly
<b>BZ601-5</b>	BriteZone™ Forward Lighting, Mini Square, LED Work Lamp Assembly
<b>BZ111-5</b>	BriteZone™ Forward Lighting, Round, LED Work Lamp Assembly
<b>BZ551-5</b>	BriteZone™ Forward Lighting, Square, LED Work Lamp Assembly
<b>BZ511-5</b>	BriteZone™ Forward Lighting, Go Anywhere Hand Held, LED Work Lamp Assembly





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