NEW HD2012

A. L. LIGHTech
INCORPORATED

Shells® Reflector LED and Digibulb® Digital LED Technology

Founded in 1996, **A.L. LIGHTech, Inc.** has been carrying out research and development on SHELLS™ LED and DIGIBULB™ digital LED lighting technology for heavy-duty truck, automobiles, interior and exterior warning signals and other high intensity lighting systems. We specialize in providing custom and standard optoelectronic products for customers worldwide. Our patented technology and many years of design experience, combined with a self owned R&D research/designing center and manufacturing site (49,000 sq-ft, DAR TÜV certified ISO9001) in Shanghai China, allow us to offer world leading technology products at very competitive prices.

Why Select A.L. Lightech Product

Quality assurance with our self owned IS09001 (DAR TÜV-Certified) manufacturing site includes:

DESIGN

- 5 hours components testing at – 35C°/0F°
- 200 hours continued operation at 65C°/148F°
- 10G vibration tested
- Weather pack connectors to prevent corrosion
- Sonic weld, potted circuit boards to prevent leakage
- Polycarbonate material

LIGHT OUTPUT

- SHELLS® DIGIBULB® technology is the brightest of all and is the most reliable LED light.

QUALITY ASSURANCES

- 100% of all products prior to assembly, undergo a 100 hours age test
- 100% photometric point check on all products

WARRANTY

- Limited Lifetime (Please see warrant details)

U. S. independent laboratory testing reports show that all of our heavy-duty SHELLS™ LED and DIGIBULB™ digital LED lighting products meets or exceedssss latest FMVSS 108, DOT and SAE standards.

To order A.L. LIGHTech products, please call toll-free number
1-866-634-0887 or fax **1-866-634-0888**

What does LED stand for?

Light Emitting Diode.

Incandescent vs. LED

An incandescent lamp is essentially a piece of wire in a bottle. Every incandescent lamp contains a tungsten filament. When current flows through the filament, it encounters resistance and the wire heats and glows very brightly. Overtime the tungsten evaporates and the filament wire burns out. This failure can occur between 200 and 15,000 hours – depending on the type of bulb and the environment it is exposed to.

An LED is a solid state electronic component. When current flows through the semi-conductor compounds, light is emitted. Because there is no evaporation of components and it is solid, LED service life is significantly longer. On average, LEDs remain effective for approximately 100,000 hours which equals running for 24 hours a day for 11years.

Major Benefits of LED's

SAFETY

LEDs turn on instantly. An LED illuminates 2/10's of a second faster than incandescent lamps. If a vehicle was traveling at 65mph behind an LED stop lamp, the driver would have an additional effective stopping distance of 15-24 feet.

LOWER AMPERAGE DRAW

The average LED stop lamp requires 0.5 amps at 12.8 volts, and a typical incandescent stop lamp requires 2.1 amps. A standard trailer outfitted with incandescent lamps draws 18.02 amps. The same trailer outfitted with LED lights draws 2.85 amps. That's approximately 84% less current draw by using LED lights.

LONGEVITY

LED's remain effective for approximately 100,000 hours. LEDs have no element to fail. Since an LED is a solid state electronic component it is not susceptible to vibration.

The Number #1 Reason Lamps Fail is Due to Vibration

A. Corrosion in the terminals causes the bulb to short out.

The Number #2 Reason of Lamp Failure is Connection Related

B. Waterproof connections are necessary for long life.

Design

LIGHT OUTPUT

Evaluate the LED that offers the best Diode-to-Light output ratio.

COMPATIBILITY PROBLEMS

LEDs that are not interchangeable with existing incandescent lamps and connectors add unnecessary costs.

You Get What You Pay For

FACT – 16% of failures are caused by poor connections

FACT – The diode will last 100,000 hours but the lamp may not

        Evaluate the construction

        Evaluate the terminals

FACT – Over 85% of the cost of a lamp is in the maintenance costs.

FACT – Design and reliability are the most important criteria for selecting LEDs

Questions You Should Ask When Selecting A LED

1. Are there ways for the circuit board to short out?

2. Are the circuit boards potted?

3. Do the terminals act as an open door for corrosion?

4. Are the terminals designed to last the life of the diodes?

A.L. Lightech answers all these questions

100% A.L. Lightech LEDs tested for 100 hrs.

A.L. Lightech LEDs are continuously monitored for DOT compliance

A. L. LIGHTech
INCORPORATED

SHELLS® Reflector LED &
DIGIBULB® Digital LED technology

- State of the art light emission area
- Overall greater visibility
- Low amperage draw
- Virtually shockproof design for heavy-duty applications
- Life expectancy of 100,000 hours
- Reduce maintenance expense and replacements costs
- Meets or exceeds latest DOT FMVSS108 requirements and SAE standards

Heavy-Duty Products

Quality assurance with our self owned ISO9001 (DAR TÜV certified) manufacturing site.

SHELLS® Super High Emission LED Light Source

SHELLS® LED 4" Round, 6" Oval & 3" x 5" Rectangular Heavy-Duty Truck and Trailer Lights. 7" Round School Bus STT & Warning Light

SPECIFICATIONS

Features a sealed, water-resistant, polycarbonate lens and housing
Operating Voltage: 12VDC, 24VDC and 12V-24V

DIGIBULB® New Digital Lighting Technology Design of A Single LED Light Source and Multi-Diode LED – Clearance & Side Marker Light

SPECIFICATIONS

Features a sealed, water-resistant, polycarbonate lens and housing
Operating Voltage: 12VDC

A. L. LiGHTech
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ELITE SERIES: Red STT & Amber Signal Light Kit

- Convex optical lens along with A.L. Lightech's patented SHELLS® technology provides light output at all angles
- Entire lens illuminates unlike normal LED dot look
- Sonic welded optical lens to housing, weather-pack wire harness, potted circuitry, and a lifetime warranty makes this the best possible choice for a series 40 and series 60 light kit

Heavy-Duty Products

SHELLS®   Super High Emission LED Light Source

Elite Series
4" Round LED Red STT/Amber
Turn Light and Light Kit

Order Number

019-01-120: Elite Series Amber 4" Round Turn Signal Light, CONVEX LENS

019-01-125: Elite Series Amber 4" Round Turn Signal Light, CONVEX LENS, 8" Wire Harness, Rubber Grommet

019-01-126: Elite Series Amber 4" Round STT Signal Light, CONVEX LENS, 8" Wire Harness, Stainless Flange Ring

019-01-320: Elite Series Red 4" Round STT Signal Light, CONVEX LENS

019-01-325: Elite Series Red 4" Round STT Signal Light, CONVEX LENS, 8" Wire Harness, Rubber Grommet

019-01-326: Elite Series Red 4" Round STT Signal Light, CONVEX LENS, 8" Wire Harness, Stainless Flange Ring

019-10-053: 4" Round Stainless Snap-in Ring
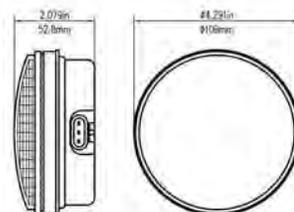
Elite Series 6" Oval LED Red
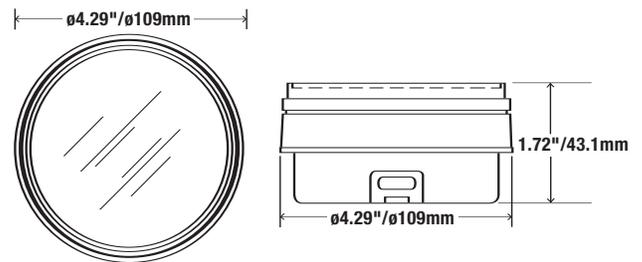## STT/Amber Turn Light and Light Kit

Order Number

019-03-120: Elite Series Amber 6" Oval Signal Light, CONVEX LENS

019-03-125: Elite Series Amber 6" Oval Signal Light, CONVEX LENS, 8" Wire Harness, Rubber Grommet

019-03-126: Elite Series Amber 6" Oval Signal Light, CONVEX LENS, 8" Wire Harness, Stainless Flange Ring

019-03-320: Elite Series Red 6" Oval Signal Light, CONVEX LENS

019-03-325: Elite Series Red 6" Oval Signal Light, CONVEX LENS, 8" Wire Harness, Rubber Grommet

019-03-326: Elite Series Red 6" Oval Signal Light, CONVEX LENS, 8" Wire Harness, Stainless Flange Ring
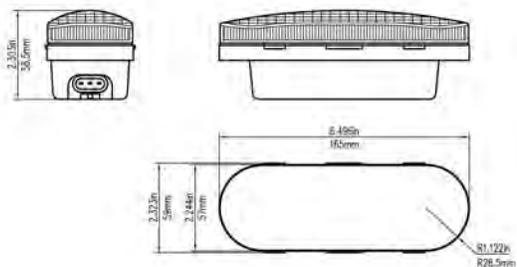
4" Round LED Red STT/Amber Turn Light Head (Series 40)

Order Number

019-01-100:	12V, Amber Turn Light Head
019-01-104:	12V, Amber Turn Light Head and Harness
019-01-181:	12V-24V, Amber Turn Light Head
019-01-182:	12V-24V, Amber Turn Light Head Harness
019-01-300:	12V, Red, STT Light Head
019-01-304:	12V, Red, STT Light Head and Harness
019-01-381:	12V-24V, Red, STT Light Head
019-01-382:	12-24V, Red, STT Light Head and Harness

ø4.29"/ø109mm

1.72"/43.1mm

ø4.29"/ø109mm

4" Round LED Red STT/Amber Turn Light Kit (Series 40)

Kit includes: one 4" round LED light head, heavy-duty oil resistant rubber grommet and weatherproof harness.

Order Number

019-01-105:	12V, Amber Turn Light, Rubber Grommet and Harness
019-01-184:	12V-24V, Amber Turn Light, Rubber Grommet and Harness
019-01-305:	12V, Red, STT Light, Rubber Grommet and Harness.
019-01-384:	12V-24V, Red, STT Light, Rubber Grommet and Harness

ø5.35"/ø136mm

1.72"/43.1mm

Mounting Hole Size:
ø4.5"/ø114mm

SHELLS® Super High Emission LED Light Source
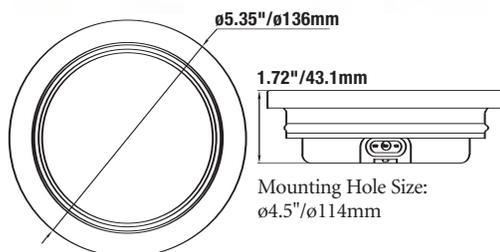
4" LED Red STT/Amber Turn Light Kit (Series 40)

Kit includes: one 4" round LED light head, anti-theft stainless flange ring and weatherproof harness.
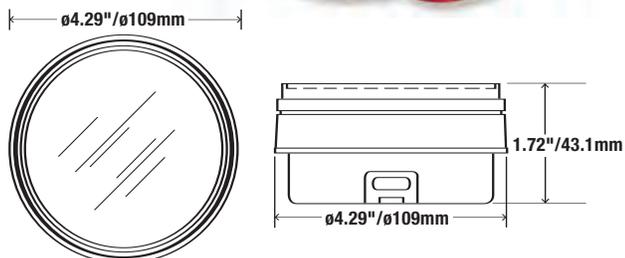
Order Number

019-01-106: 12V, Amber Turn Light, Stainless Flange Ring and Harness

019-01-186: 12V-24V, Amber Turn Light, Stainless Flange Ring and Harness

019-01-306: 12V, Red STT Light, Stainless Flange Ring and Harness

019-01-386: 12V-24V, Red STT Light, Stainless Flange Ring and Harness
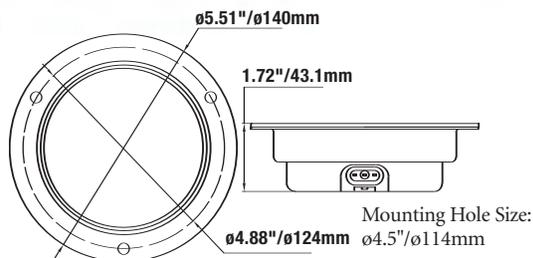
ø5.51"/ø140mm

1.72"/43.1mm

ø4.88"/ø124mm

Mounting Hole Size: ø4.5"/ø114mm

4" Round "CLEAR LENS SERIES" LED Red Color STT/ Amber Color Turn Light and Light Kit

Order Number

019-01-110: 12V, Clear Lens, Amber Color, Turn Light Head

019-01-115: 12V, Clear Lens, Amber Color, Turn Light, Rubber Grommet and Harness

019-01-116: 12V, Clear Lens, Amber Color, Turn Light, Stainless Flange Ring and Harness

019-01-310: 12V, Clear Lens, Red Color, STT Light Head

019-01-315: 12V, Clear Lens, Red Color, STT Light, Rubber Grommet and Harness

019-01-316: 12V, Clear Lens, Red Color, STT Light, Stainless Flange Ring and Harness

ø4.29"/ø109mm

1.72"/43.1mm

ø4.29"/ø109mm

4" Round and 6" Oval LED White Backup Light Head (Series 40 and 60)

Order Number
019-01-590:   12V-24V, 4" Round White Backup Light Head
019-03-590:   12V-24V, 6" Oval White Backup Light Head
019-03-520:   12V-24V, 6" Oval White Backup Light Head, CONVEX LENS

4" Round and 6" Oval LED White Backup Light Kit (Series 40 and 60)

Order Number
019-01-595:   12V-24V, 4" Round, White Backup Light, Rubber Grommet and Harness
019-03-595:   12V-24V, 6" Oval, White Backup Light, Rubber Grommet and Harness
019-03-525:   12V-24V, 6" Oval, White Backup Light, CONVEX LENS, Rubber Grommet and Harness

SHELLS® Super High Emission LED Light Source

4" Round and 6" Oval LED White Backup Light Kit (Series 40 and 60)

Order Number

019-01-596: 12V-24V, 4" Round, White Backup light, Stainless Flange Ring and Harness

019-03-596: 12V-24V, 6" Oval, White Backup light, Stainless Flange Ring and Harness

019-03-526: 12V-24V, 6" Oval, White Backup light, CONVEX LENS, Stainless Flange Ring and Harness

4" Round and 6" Oval White LED Dome Light Head (Series 40 and 60)

Order Number

019-01-500: 12V-24V, 4" Round, White Dome Light Head

019-03-500: 12V-24V, 6" Oval, White Dome Light Head

4" Round and 6" Oval White LED Dome Light Kit (Series 40 and 60)

Order Number

019-01-505:   12V-24V, 4" Round, White LED
Dome Light, Rubber Grommet and Harness

019-03-505:   12V-24V, 6" Oval, White LED
Dome Light, Rubber Grommet and Harness

4" Round and 6" Oval White LED Dome Light Kit (Series 40 and 60)
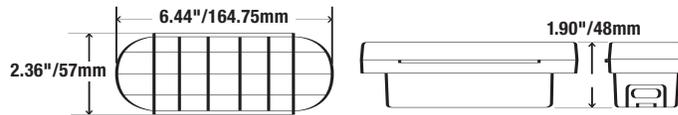
Order Number

019-01-506:   12V-24V, 4" Round, White LED Dome Light,
Stainless Flange Ring and Harness

019-03-506:   12V-24V, 6" Oval, White LED Dome Light,
Stainless Flange Ring and Harness

SHELLS® Super High Emission LED Light Source

6" Oval LED Red STT/Amber Turn Light Head (Series 60)

Order Number

019-03-100: 12V, Amber Turn Light Head
019-03-110: 12V, Amber LED, Clear Lens, Turn Light Head
019-03-181: 12V-24V, Amber Turn Light Head
019-03-300: 12V, Red STT Light Head
019-03-310: 12V, Red LED, Clear Lens STT Light Head
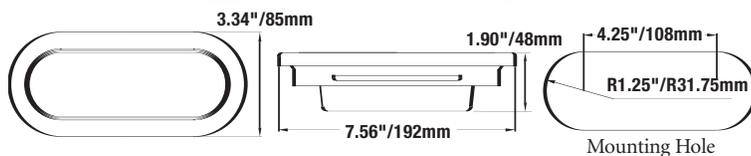**019-03-381:** 12V-24V, Red STT Light Head

6.44"/164.75mm
2.36"/57mm
1.90"/48mm

6" Oval LED Red STT/Amber Turn Light Kit (Series 60)

Kit includes: one 6" oval LED light head, heavy-duty oil resistant rubber grommet and weatherproof harness.

Order Number

019-03-104: 12V, Amber Turn Light and Harness
019-03-105: 12V, Amber Turn Light, Rubber Grommet and Harness
019-03-175: 12V-24V, Amber Turn Light, Rubber Grommet and Harness
019-03-304: 12V, Red STT Light and Harness
019-03-305: 12V, Red STT Light, Rubber Grommet and Harness
019-03-375: 12V-24V, Red STT Light, Rubber Grommet and Harness

3.34"/85mm
1.90"/48mm
4.25"/108mm
7.56"/192mm
R1.25"/R31.75mm
Mounting Hole

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6" Oval LED Red STT/Amber Turn Light Kit (Series 60)

Kit includes: one 6" oval LED light head, anti-theft stainless flange ring and weatherproof harness.

Order Number

019-03-106: 12V, Amber Turn Light,
Stainless Flange Ring and Harness
019-03-176: 12V-24V, Amber Turn Light,
Stainless Flange Ring and Harness
019-03-306: 12V, Red STT Light,
Stainless Flange Ring and Harness
019-03-376: 12V-24V, Red STT Light,
Stainless Flange Ring and Harness

3.42"/87mm
1.90"/48mm
4.25"/108mm
R1.25"/R31.75mm
7.83"/199mm
Mounting Hole
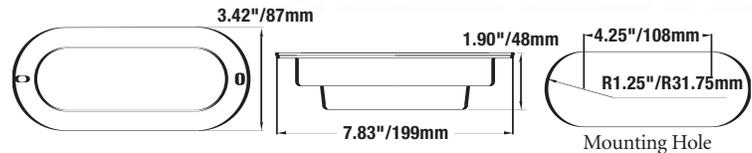
6" Oval "CLEAR LENS SERIES" LED Red Color STT/Amber Color Turn Light (Series 60)

Order Number

019-03-110: 12V, Clear Lens, Amber Color,
Turn Light Head
019-03-115: 12V, Clear Lens, Amber Color, Turn Light,
Rubber Grommet and Harness
019-03-116: 12V, Clear Lens, Amber Color, Turn Light,
Stainless Flange Ring and Harness
019-03-310: 12V, Clear Lens, Red Color, STT Light Head
019-03-315: 12V, Clear Lens, Red Color, STT Light,
Rubber Grommet and Harness
019-03-316: 12V, Clear Lens, Red Color, STT Light,
Stainless Flange Ring and Harness

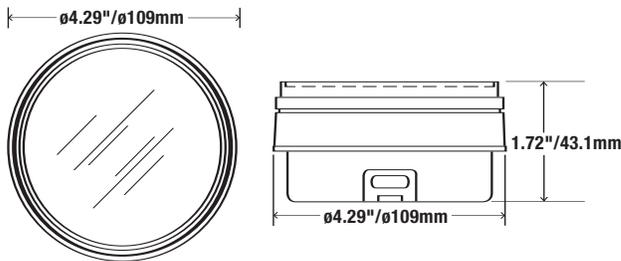# *SHELLS*® Super High Emission LED Light Source

SHELLS® 4" Round and 6" Oval "CLEAR LENS SERIES" LED Red STT/Amber Turn Light

A. L. LiGHTech
INCORPORATED

4" Round "CLEAR LENS SERIES" LED Red STT/Amber Turn Light

Order Number
019-01-110:   12V, Clear Lens, Amber, Turn Light Head
019-01-115:   12V, Clear Lens, Amber, Turn Light, Rubber Grommet and Harness
019-01-116:   12V, Clear Lens, Amber, Turn Light, Stainless Flange Ring and Harness
019-01-310:   12V, Clear Lens, Red, STT Light Head
019-01-315:   12V, Clear Lens, Red, STT Light, Rubber Grommet and Harness
019-01-316:   12V, Clear Lens, Red, STT Light, Stainless Flange Ring and Harness
019-10-053:   4" Round Anti-theft Stainless Snap-in Ring

ø4.29"/ø109mm

1.72"/43.1mm

ø4.29"/ø109mm

6" Oval "CLEAR LENS SERIES" LED Red STT/Amber Turn Light
(Series 60)

Order Number
019-03-110:   12V, Clear Lens, Amber, Turn Light Head
019-03-115:   12V, Clear Lens, Amber, Turn Light, Rubber Grommet and Harness
019-03-116:   12V, Clear Lens, Amber, Turn Light, Stainless Flange Ring and Harness
019-03-310:   12V, Clear Lens, Red, STT Light Head
019-03-315:   12V, Clear Lens, Red, STT Light, Rubber Grommet and Harness
019-03-316:   12V, Clear Lens, Red, STT Light, Stainless Flange Ring and Harness

6.44"/164.75mm

2.36"/57mm

1.90"/48mm
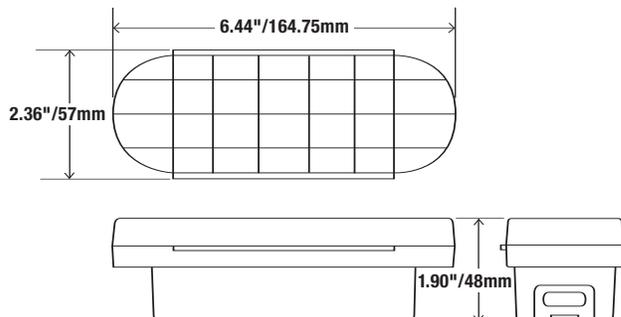
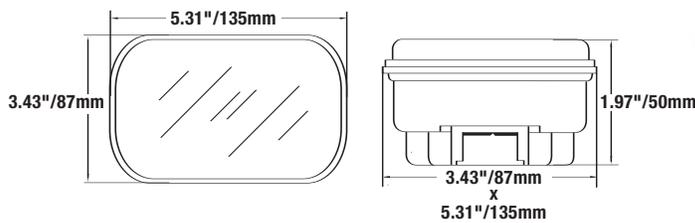# *SHELLS*® Super High Emission LED Light Source

SHELLS® 3" x 5" Rectangular LED Red STT/ Amber Turn Light (Series 45)

3" x 5" Rectangular LED Red STT/Amber Turn Light Head Mounting Use for Horizontal or Vertical Mount (Series 45)

Order Number

024-05-100: 12V, Amber Turn Light Head
024-05-110: 12V-24V, Amber Turn Light Head
024-05-300: 12V, Red STT Light Head
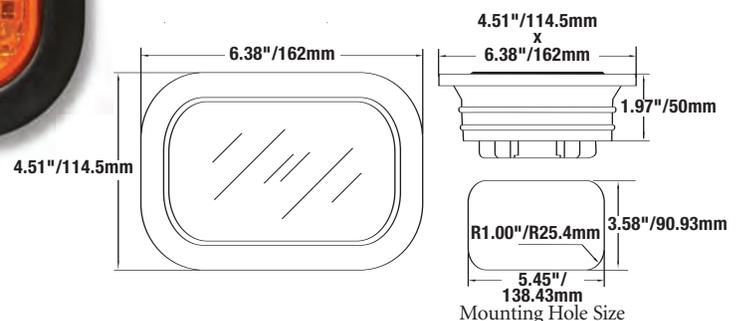**024-05-310:** 12V-24V, Red STT Light Head

5.31"/135mm

3.43"/87mm

1.97"/50mm

3.43"/87mm
x
5.31"/135mm

3"x 5" Rectangular LED Red STT/Amber Turn Light Kit

(Series 45)

Kit includes: one 3"x 5" LED light head, heavy-duty oil resistant rubber grommet and weatherproof harness.

Order Number

024-05-105: 12V, Amber Turn Light, Rubber Grommet and Harness
024-05-115: 12V-24V, Amber Turn Light, Rubber Grommet and Harness
024-05-305: 12V, Red STT Light, Rubber Grommet and Harness
024-05-315: 12V-24V, Red STT Light, Rubber Grommet and Harness

4.51"/114.5mm
x
6.38"/162mm

6.38"/162mm

1.97"/50mm

4.51"/114.5mm

R1.00"/R25.4mm

3.58"/90.93mm

5.45"/
138.43mm
Mounting Hole Size

SHELLS® Super High Emission LED Light Source

Par36 & Par46
Multi-Purpose Worklights

Par36 (4" Round) Rubber Housing Multi-Purpose Worklight

Specification:
Patented reflecting LED technology. Features a sealed, water-resistant, white LED, polycarbonate lens and rubber housing with a 3ft heavy-duty cord.
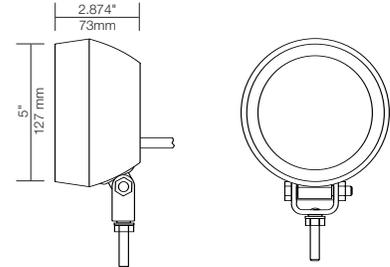Operating Voltage: 12V-24V DC (10-32Volts)
Operating Current: < 0.4 Amps (tested at 12.8V)

Order Number:
019-01-500: Par36 Sealed White LED Worklight
019-11-501: Par36 White LED Worklight with Rubber Housing
019-11-011: Par36 Rubber Housing

Par46 (5" Round) Rubber Housing Multi-Purpose Worklight

Specification:
Patented reflecting LED technology. Features a sealed, water-resistant, polycarbonate optical lens and rubber housing with a 3ft heavy-duty cord.
Operating Voltage: 12V-24V DC (10-32Volts)
Operating Current: < 0.5 Amps (amber, tested at 12.8V),
< 0.3 Amps (white, tested at 12.8V)

Order Number:
035-01-100: Par46 Amber LED Snowplow Light Head
035-01-101: Par46 Amber LED Snowplow Worklight Rubber Housing
035-01-500: Par46 White LED Worklight
035-01-501: Par46 White LED Worklight with Rubber Housing
035-10-001: Par46 Rubber Housing
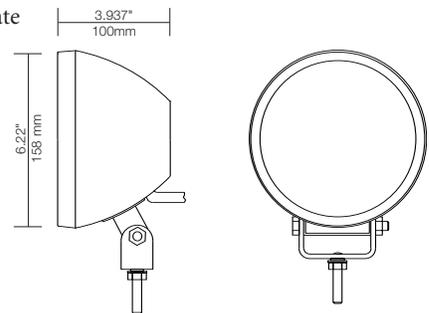
Par36 (4" Round) High Intensity Aluminum Alloy Housing Multi-Purpose Worklight

Specification:
High intensity LED heavy-duty work light. Features a sealed, water-resistant, PMMA lens, aluminum alloy housing with a 1ft heavy-duty cord.
Operating Voltage: 12V-24V DC (10-32Volts)
Operating Current: < 1.33 Amps (tested at 12.8V) for 1350 lumen
2.25 Amps (White, tested at 12.8V) for 2150 lumen

Order Number:
W0604500: Par36 White High Intensity LED, Heavy-Duty Work Light with Aluminum Alloy Housing, Spot Beam, **1350 Lumen** Output
W0604510: Par36 White High Intensity LED, Heavy-Duty Work Light with Aluminum Alloy Housing, Flood Beam, **1350 Lumen** Output
W0904500: Par36 White Super High Intensity LED, Heavy-Duty Work Light with Aluminum Alloy Housing, Spot Beam, **2150 Lumen** Output
W0904510: Par36 White Super High Intensity LED, Heavy-Duty Work Light with Aluminum Alloy Housing, Flood Beam, **2150 Lumen** Output

SHELLS® Super High Emission LED Light Source

SHELLS® 7" Round LED, STT, Back-up Signal Light and School Bus Emergency Warning Light

7" Round LED, STT, Back-Up Signal Light

7" Round, LED light functions as a STOP, TURN, and TAIL light for school buses, heavy-duty construction trucks, and trailers. US independent laboratory tested, meets or exceeds latest DOT FMVSS 108 and SAE standards.

The design is in accordance with the **Department of California Highway Patrol,** California Vehicle Code (VC) Section 24003 and Section 24607's noted in an information bulletin published on November 18, 2002.

Specifications
Features a sealed, water-resistant, polycarbonate optical lens and housing.
Operating Voltage: 12V DC (8-16V), or 12V-24V DC (8-32V)
Operating Current: <0.60 A (test at 12.8V)

Order Number:
055-01-100:   12V DC, Amber Turning Light
055-01-120:   12V-24V DC, Amber Turning Light
055-01-300:   12VDC, Red STT Light
055-01-320:   12V-24V DC, Red STT Light
055-01-520:   12V-24V DC, White Back-up light

1.70"/45mm
ø6.25"/158.75mm
ø0.18"/4.5mm
ø7.2"/183mm
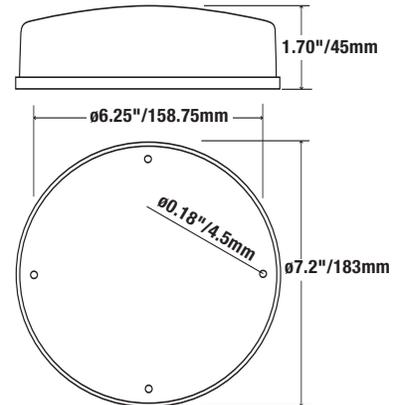
7" School Bus Emergency Warning Light

7" Round LED light that functions as a EMERGENCY WARNING light for school buses. U.S. independent laboratory tested meets or exceeds latest DOT FMVSS 108 and SAE standards, SAE J887 approved for School Bus Emergency Warning Light use.

Specifications
Features a sealed, water-resistant, polycarbonate optical lens and housing. Internal built in single standard flashing and strobe flashing pattern, operate with freedom, alternating and simultaneous flashing controller.
Operating Voltage: 12V-24V DC (8-32V)
Operating Current: <2.0 A (tested at 12.8V)

Order Number:
055-02-120:   12V-24V DC, Amber LED, School Bus Warning Light.
055-02-320:   12V-24V DC, Red LED, School Bus Warning Light.

7" Emergency Warning Light

7" Round LED light that functions as a EMERGENCY WARNING light for primary warning systems. U.S. independent laboratory tested meets or exceeds latest DOT FMVSS 108 and SAE standards, SAE J595 class 1 approved for Primary Emergency Warning Light use.

Specifications

Features a sealed, water-resistant, polycarbonate optical lens and housing. Built in quad flashing pattern with simultaneous controller.
Operating Voltage: 12V-24V DC (8-32V)
Operating Current: <1.0 A (tested at 12.8V)

Order Number

055-04-120: 12V-24V DC, Amber LED, Warning Light
055-04-220: 12V-24V DC, Blue LED, Warning Light
055-04-320: 12V-24V DC, Red LED, Warning Light

Tri-Angle Bus Marker Light

Specifications

Features a sealed, water-resistant, polycarbonate optical lens and housing.
Operating Voltage: 12V DC
Operating Current: <0.04 A (tested at 12.8V)

Order Number:

004-01-100: 12V DC, Amber LED, Bus Marker Light
004-01-300: 12V DC, Red LED, Bus Marker Light

Center High Mount Stop Lamp (CHMSL)

15 Series that meets or exceeds SAE specifications for high mount lamp. Dual function clearance and stop lamps. Designed to fit applications requiring minimal space.

Order Number

004-06-300:   12V. Center High Mount Clearance and Stop Lamp
003-10-052:   Flush Mount Rubber Grommet (Series 15). Recommended Panel Thickness $^1/_{64}$"
003-10-053:   Flush Mount Rubber Grommet (Series 15). Recommended Panel Thickness $^1/_4$"
003-10-054:   Mounting Bracket (Series 15)

DIGIBULB® Digital LED Lighting Technology

DIGIBULB®

Multi-Diode Digital LED Lighting Technology Clearance & Side Marker Lights

Side Marker light for heavy-duty trucks, trailers and vehicles 2032mm/80inch or more in overall width. U.S. independent laboratory tested, meets or exceeds latest FMVSS 108, DOT and SAE requirements and is PC Rated.

Specifications
Features a sealed, water-resistant, polycarbonate optical lens and housing.
Operating Voltage: 12V DC
Operating Current: < 0.04A (tested at 12.8 V DC)

A.L. Lightech Inc., 1525-B West Orange Grove Avenue, Orange, California 92868 U.S.A. Tel: (714) 634-1000 Fax: (714) 634-0888 www.allightech.com

A. L. LIGHTech
I N C O R P O R A T E D
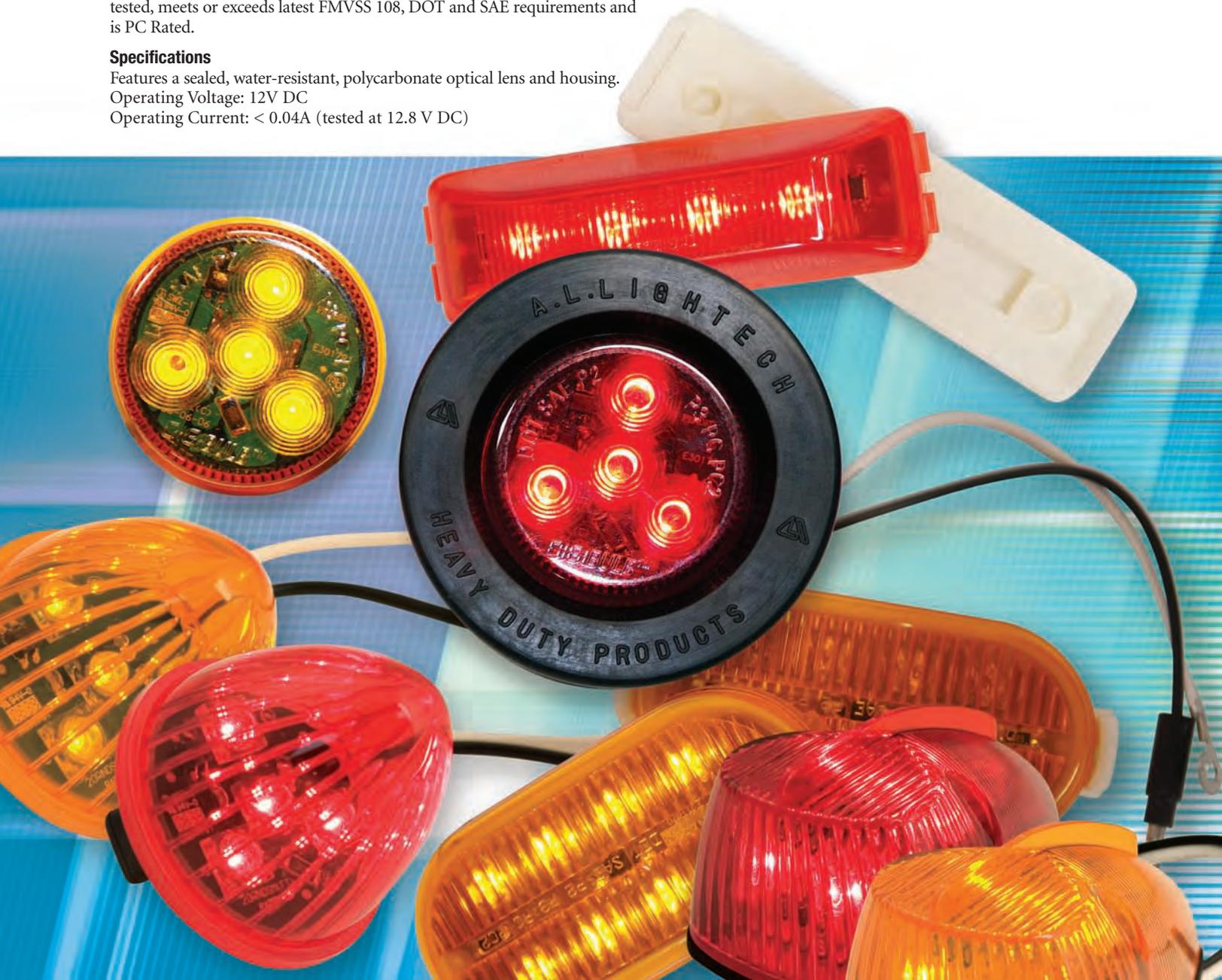
2" Round Multi-Diode Digital LED Side Marker Light

(Series 30)

Order Number

003-01-140:	12V Amber, Multi-Diode Light Head
003-01-141:	12V Amber, Multi-Diode Marker Light, Rubber Grommet and Harness
003-01-340:	12V Red, Multi-Diode Light Head
003-01-341:	12V Red, Multi-Diode Marker Light, Rubber Grommet and Harness

ø1.92"/48.8mm

0.72"/18.2mm

ø2.07"/52.6mm
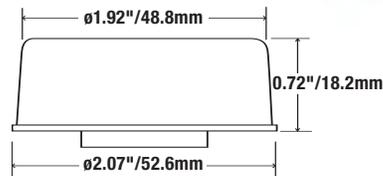
2 1/2" Round Multi-Diode Digital LED Side Marker Light

(Series 10)

Order Number

003-02-140:	12V Amber, Multi-Diode Light Head
003-02-141:	12V Amber, Multi-Diode Marker Light, 2.91" Rubber Grommet and Harness
003-02-142:	12V Amber, Multi-Diode Marker Light, 2.75" Mounting Rubber Grommet and Harness
003-02-340:	12V Red, Multi-Diode Light Head
003-02-341:	12V Red, Multi-Diode Marker Light, 2.91" Rubber Grommet and Harness
003-02-342:	12V Red, Multi-Diode Marker Light, 2.75" mounting Rubber Grommet and Harness

ø2.36"/60mm

0.71"/18mm

ø2.52"/64mm
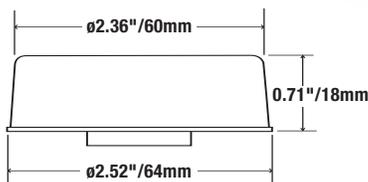
4" Rectangle Multi-Diode Digital LED Side Marker Light

(Series 19)

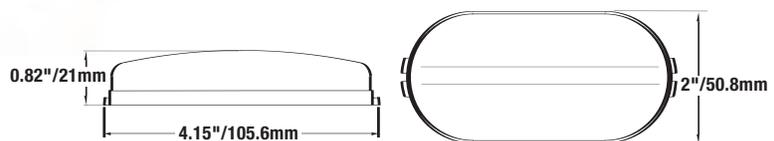**Order Number**

003-03-111:	12V Amber, Multi-Diode Snap-In Marker Light
003-03-140:	12V Amber, Multi-Diode Marker Light – Hard Wired
003-03-141:	12V Amber, Multi-Diode Marker Light, Bracket
003-03-311:	12V Red, Multi-Diode Snap-In Marker Light
003-03-340:	12V Red, Multi-Diode Marker Light – Hard Wired
003-03-341:	12V Red, Multi-Diode Market Light, Bracket

0.71"/18mm
3.91"/99.3mm
1.21"/30.7mm
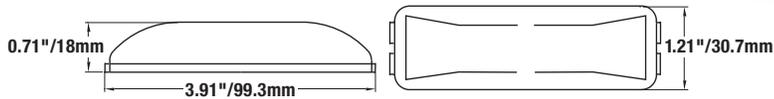
4" Oval Digital LED Multi-Diode Side Marker Light (Series 26)

Order Number

003-04-140:	12V Amber, Multi-Diode Marker Light
003-04-141:	12V Amber, Multi-Diode Marker Light, Bracket
003-04-340:	12V Red, Multi-Diode Marker Light
003-04-341:	12V Red, Multi-Diode Marker Light, Bracket

0.82"/21mm
4.15"/105.6mm
2"/50.8mm

Tri-Angle Bus Marker Light

Specifications
Features a sealed, water-resistant, polycarbonate optical lens and housing.
Operating Voltage: 12V DC
Operating Current: <0.04 A (tested at 12.8V)

Order Number
004-01-100:   12V DC, Amber LED, Bus Marker Light
004-01-300:   12V DC, Red LED, Bus Marker Light
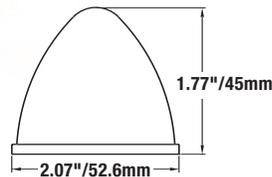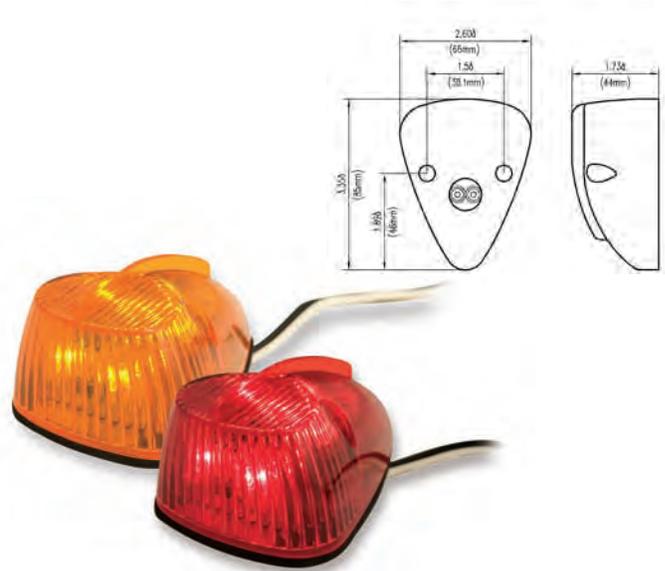
## 2" Beehive Multi-Diode Digital LED Side Marker Light (Series 30)

Order Number
003-07-140:   12V Amber, Marker Light
003-07-141:   12V Amber, Marker Light with Grommet Harness Kit
003-07-340:   12V Red, Marker Light
003-07-341:   12V Red, Marker Light with Grommet Harness Kit

1.77"/45mm

2.07"/52.6mm

2 1/2" Beehive Multi-Diode Digital LED Side Marker Light

(Series 10)

Order Number
003-08-140:   12V Amber, Marker Light
003-08-141:   12V Amber, Marker Light with Grommet Harness Kit
003-08-340:   12V Red, Marker Light
003-08-341:   12V Red, Marker Light with Grommet Harness Kit

2.21"/56.1mm

2.52"/64mm
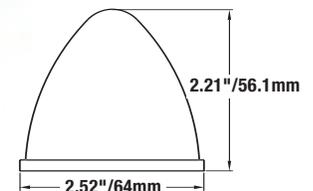
DIGIBULB®

Digital LED Lighting Technology Design of Clearance & Side Marker Lights

Our new LED digital lighting technology design functions as a Clearance & Side Marker lights for heavy-duty trucks, trailers and vehicles 2032mm/80inch or more in overall width. U.S. independent laboratory tested, exceed latest FMVSS 108, DOT and SAE requirements.

Specifications
Features a sealed, water-resistant, polycarbonate optical lens and housing.
Operating Voltage: 12V DC, 24V DC and 12V-24V
Operating Current: <0.04A (tested at 12.8 V DC)

PC Rated

A.L. Lightech Inc., 1525-B West Orange Grove Avenue, Orange, California 92868 U.S.A. Tel: (714) 634-1000 Fax: (714) 634-0888 www.allightech.com

A. L. LiGHTech
INCORPORATED

2" Round Digital Lighting LED Head (Series 30)

Order Number
003-01-100:   12V, Amber, Light Head
**003-01-300:**   12V, Red, Light Head

ø1.92"/48.8mm
0.72"/18.2mm
ø2.07"/52.6mm
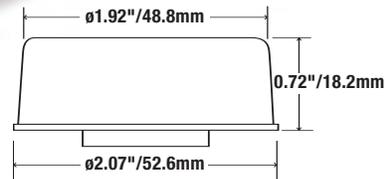
2" Round Digital LED Side Marker Kit (Series 30)

Kit includes: one 2" round Digital LED light head, heavy-duty oil resistant rubber grommet and weatherproof harness.

Order Number
003-01-101:   12V Amber, Marker Light,
                    Rubber Grommet and Harness
003-01-301:   12V Red, Marker Light,
                    Rubber Grommet and Harness

0.91"/23mm
ø3.21"/ø81.6mm

Mounting Hole Size:
ø2.5"/ø58.7mm

2 1/2" Round Digital Lighting LED Head (Series 10)

Order Number
003-02-100:   12V, Amber, Marker Light Head
003-02-300:   12V, Red, Marker Light Head

ø2.36"/60mm
0.71"/18mm
ø2.52"/64mm

DIGIBULB® Digital LED Lighting Technology
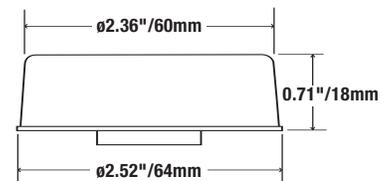
2 ¹/₂" Round Digital LED Side Marker Flush Mount Kit

Kit includes: one 2¹/₂" round Digital LED light head, heavy-duty oil resistant rubber grommet and weatherproof harness.

Order Number

003-02-101: 12V Amber, Marker Light, Rubber Grommet and Harness (2.91" Mounting Hole)

003-02-103: 12V Amber, Marker Light, Rubber Grommet and Harness (2.75" Mounting Hole)
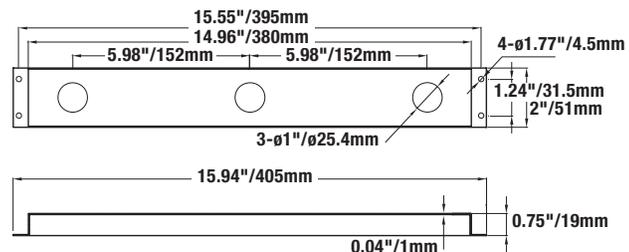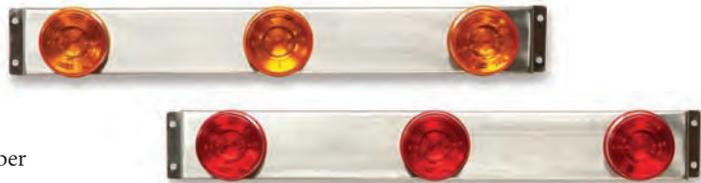
003-02-301: 12V Red, Marker Light, Rubber Grommet and Harness (2.91" Mounting Hole)

003-02-303: 12V Red, Marker Light, Rubber Grommet and Harness (2.75" Mounting Hole)

0.91"/23mm

3.66"/93mm

Mounting Hole Size:
ø2.91"/ø74mm   ø2.75"/ø70.6mm
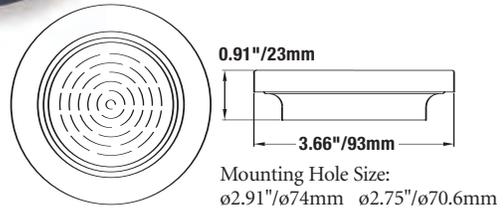
2 ¹/₂" Round Digital LED Side Marker Edge Mount Kit

Kit includes: one 2¹/₂" round Digital LED light head, heavy-duty oil resistant rubber grommet and weatherproof harness.

Order Number

003-02-102: 12V Amber, Marker Light, Rubber Grommet and Harness

003-02-302: 12V Red, Marker Light, Rubber Grommet and Harness

ø2.78"/ø71mm

1.6"/40mm

ø3.42"/87mm

Mounting Hole Size:
ø2.78"/ø71mm
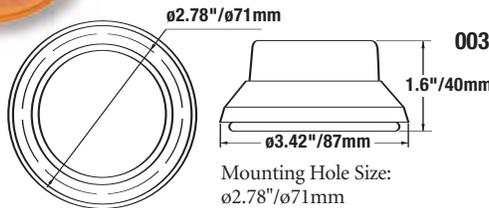
2" Round Digital LED Side Marker ID Bar

Order Number

003-01-110: Stainless Steel Bar with Three 12V 2" Amber Marker Lights, Weatherproof Connector

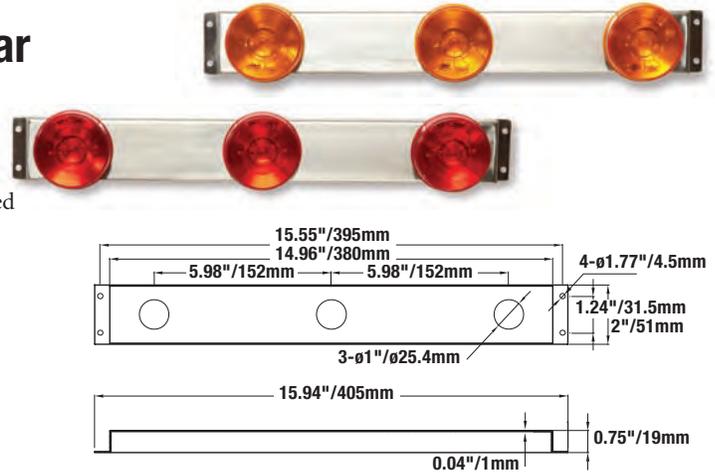**003-01-310:** Stainless Steel Bar with Three 12V 2" Red Marker Lights, Weatherproof Connector

15.55"/395mm

14.96"/380mm

5.98"/152mm   5.98"/152mm

4-ø1.77"/4.5mm

1.24"/31.5mm

2"/51mm

3-ø1"/ø25.4mm

15.94"/405mm

0.75"/19mm

0.04"/1mm

30

2 $\frac{1}{2}$" Round Digital LED ID Bar

Order Number

003-02-110: Stainless Steel Bar with Three 12V 2 $\frac{1}{2}$" Amber Marker Lights, Weatherproof Connector

003-02-310: Stainless Steel Bar with Three 12V 2 $\frac{1}{2}$" Red Marker Lights, Weatherproof Connector

15.55"/395mm
14.96"/380mm
5.98"/152mm
5.98"/152mm
4-ø1.77"/4.5mm
1.24"/31.5mm
2"/51mm
3-ø1"/ø25.4mm
15.94"/405mm
0.75"/19mm
0.04"/1mm

4" Rectangle Digital LED Snap-In Replacement Light Head (Series 19)

Order Number

003-03-110: 12V Amber, Snap-In Marker Light

003-03-310: 12V Red, Snap-In Marker Light

0.71"/18mm
3.91"/99.3mm
1.21"/30.7mm
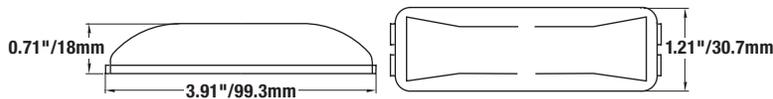
4" Rectangle Digital LED "Hard Wire" Light Head

(Series 19)

Order Number

003-03-100: 12V Amber, Marker Light

003-03-300: 12V Red, Marker Light

0.71"/18mm
3.91"/99.3mm
1.21"/30.7mm

DIGIBULB® Digital LED Lighting Technology
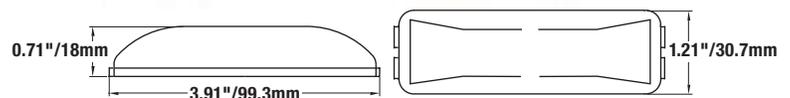
4" Rectangle Digital Side Marker Kit (Series 19)

Order Number
003-03-101:   12V, Amber, Marker Light, Mounting Bracket
003-03-301:   12V, Red, Market Light, Mounting Bracket

1.2"/30.4mm
4.06"/103.2mm
1.21"/30.7mm
3"/76.2mm
1.06"/27mm
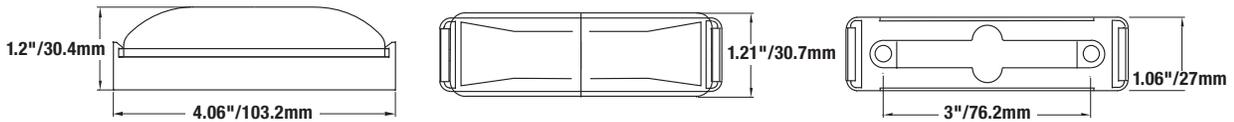
4" Oval Digital LED Side Marker Light Head (Series 26)

Order Number
003-04-100:   12V Amber, Marker Light
003-04-300:   12V Red, Marker Light

0.82"/21mm
4.15"/105.6mm
2"/50.8mm
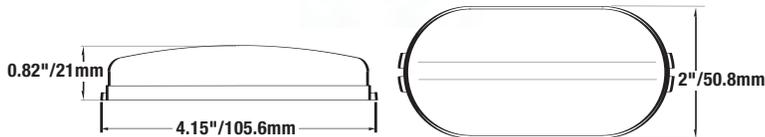
4" Oval Digital LED Side Marker Light Kit (Series 26)

Order Number
003-04-101:   12V, Amber, Marker Light, Bracket
003-04-301:   12V, Red, Marker Light, Bracket

1.14"/29mm
4.33"/110mm
2"/50.8mm
3"/76.2mm
2"/50.8mm

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I N C O R P O R A T E D
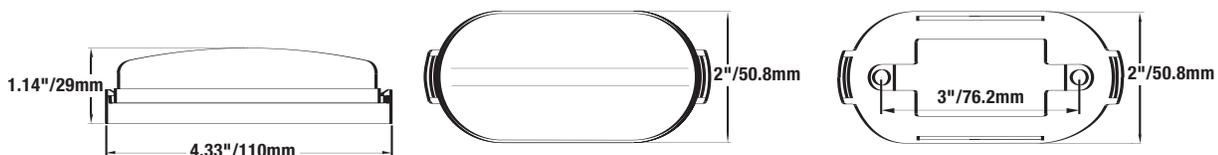
4" Slim Line Digital LED Side Marker Light Head

Order Number
003-05-100:   12V Amber, Marker Light
003-05-300:   12V Red, Marker Light

1.36"/34.5mm

3.98"/101mm

0.75"/19mm

3"/76mm
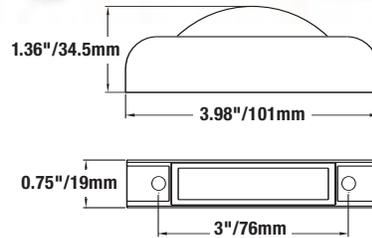
4" Slim Line Digital LED Side Marker Light KIT

Order Number
003-05-101:   12V Amber, Marker Light, Harness
003-05-301:   12V Red, Marker Light, Harness

4" Slim Line ID Bar

Order Number
003-05-110:   Aluminum Bar With 12V 4" Slim Line
                   Amber, Marker Light
003-05-310:   Aluminum Bar With 12V 4" Slim Line
                   Red, Marker Light
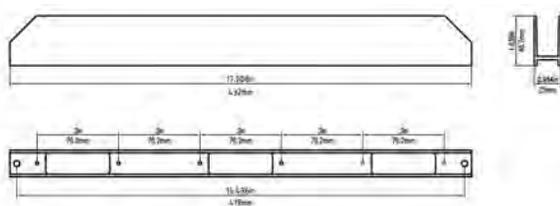
2 $^1/_2$" Rectangle Digital LED Side Marker Lights and Kit

(Series 15)

Order Number

003-06-100: 12V Amber, Marker Light
003-06-101: 12V, Amber, Marker Light, Bracket, Harness
003-06-300: 12V Red, Marker Light
003-06-301: 12V, Red, Marker Light, Bracket, Harness
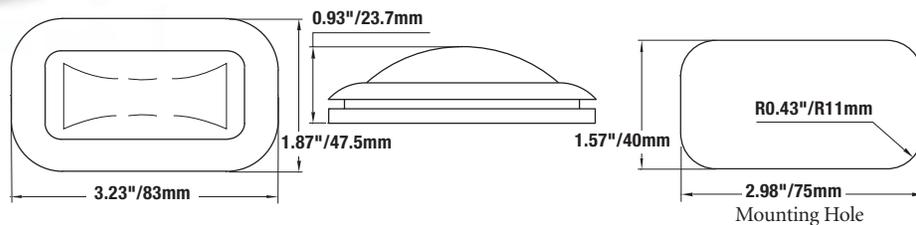**003-10-054:** 2.5" Rectandle PC Mounting Brecket

0.82"/20.7mm
1.2"/30.7mm
2.6"/66mm

0.93"/23.7mm
1.5"/38mm
2.9"/73.8mm
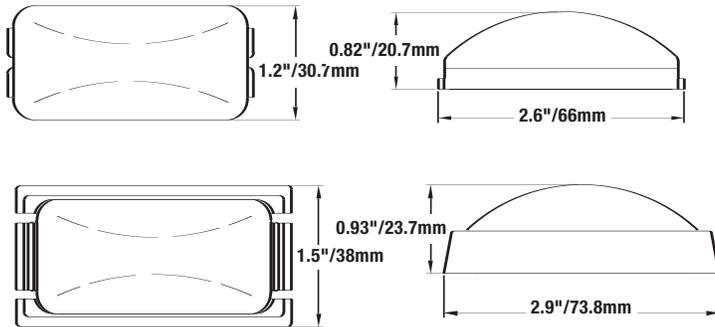
2 $^1/_2$" Rectangle Digital LED Side Marker Kit

Order Number

003-06-102: 12V, Amber, Marker Light, Grommet, Harness
**003-06-302:** 12V, Red, Marker Light, Grommet, Harness

003-06-103: 12V, Amber, Marker Light, Grommet, Harness
003-06-303: 12V, Red, Marker Light, Grommet, Harness

0.93"/23.7mm
1.87"/47.5mm
3.23"/83mm

1.57"/40mm

R0.43"/R11mm
2.98"/75mm
Mounting Hole

A.L. Lightech Inc., 1525-B West Orange Grove Avenue, Orange, California 92868 U.S.A. Tel: (714) 634-1000 Fax: (714) 634-0888 www.allightech.com

A. L. LIGHTech
I N C O R P O R A T E D

2 ¹/₂" Rectangle ID Bar

Order Number
003-06-110   Stainless Bar with Three 12V DC Amber
Side Marker Lights, Weatherproof Connector
003-06-310   Stainless Bar with Three 12V DC Red
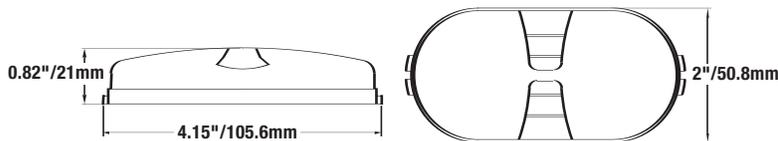Side Marker Lights, Weatherproof Connector
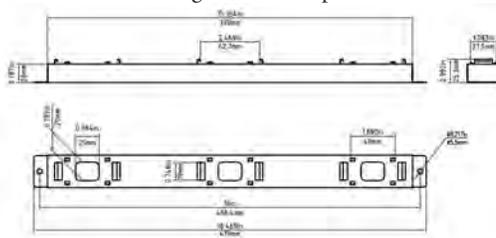
4" Oval "Bull's Eye" Digital LED Side Marker Light Head

(Series 26)

Order Number
003-09-100:   12V Amber, Marker Light
003-09-300:   12V Red, Marker Light

0.82"/21mm

2"/50.8mm

4.15"/105.6mm

4" Oval "Bull's Eye" Digital LED Side Marker Light Kit (Series 26)

Order Number
003-09-101:   12V Amber, Marker Light, Bracket
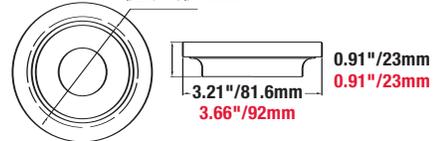**003-09-301:**   12V Red, Marker Light, Bracket

1.14"/29mm

2"/50.8mm

2"/50.8mm

3"/76.2mm
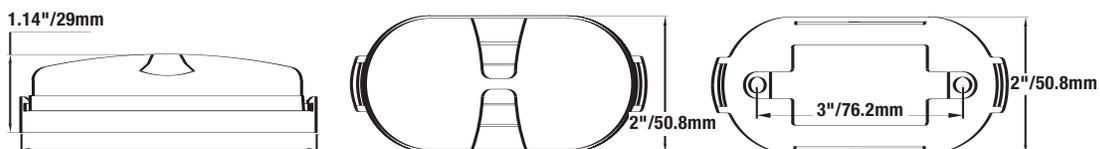
Accessories

2" & 2¹/₂" Round Heavy-Duty Oil Resistant Flush Mount Rubber Grommet

Order Number
003-10-011: 2¹/₂" Round, ø2.91" Mounting Grommet
003-10-013: 2" Round, ø2.46" Mounting Grommet
003-10-014: 2¹/₂" Round, ø2.75" Mounting Grommet

ø2.46"/ø62.6mm
ø2.75"/ø70.6mm
ø2.91"/ø74mm

0.91"/23mm
0.91"/23mm

3.21"/81.6mm
3.66"/92mm

2¹/₂" Round Heavy-Duty Oil Resistant Edge Mount Rubber Grommet

ø2.78"/ø71mm

Order Number
003-10-015: 2" Rubber Edge Mount Grommet
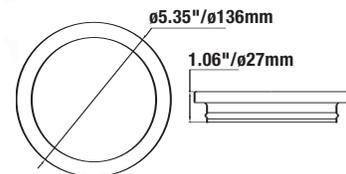**003-10-012:** 2¹/₂" Rubber Edge Mount Grommet

0.91"/23mm

3.42"/87mm
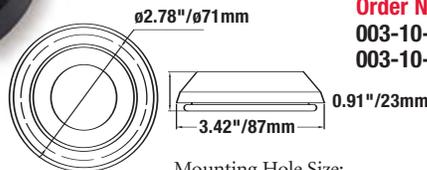
Mounting Hole Size:
ø2.46"/ø62.6mm

4" Round Heavy-Duty Oil Resistant Rubber Grommet

Order Number
019-10-011: 4" Round Rubber Grommet

ø5.35"/ø136mm

1.06"/ø27mm

4" Round Anti-Theft Stainless Steel Flange Ring

Order Number
019-10-050: 4" Round Stainless Steel Ring

ø5.51"/ø140mm

0.85"/21.5mm

Mounting Hole Size:
ø4.5"/ø114mm

A. L. LIGHTech
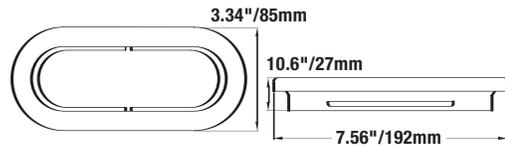I N C O R P O R A T E D
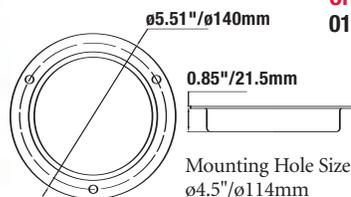
4" Round Anti-Theft Stainless Snap-In Ring

Order Number
019-10-053:   4" Round Stainless Steel Snap-in Ring

6" Oval Heavy-Duty Oil Resistant Rubber Grommet

Order Number
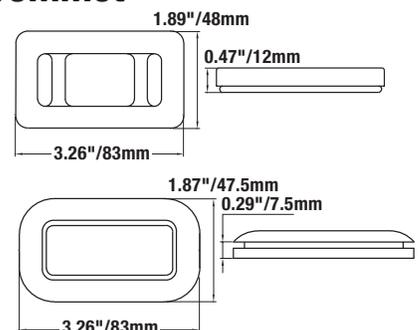**019-10-013:**   6" Oval Rubber Grommet

3.34"/85mm
10.6"/27mm
7.56"/192mm

6" Oval Anti-Theft Stainless Steel Flange Ring

Order Number
019-10-060:   6" Oval Stainless Steel Ring

3.4"/87mm
1"/25.5mm
7.79"/198mm
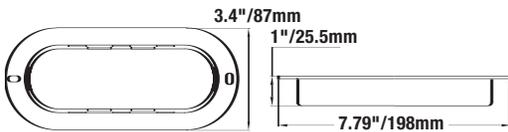
2 1/2" Rectangle Mounting Rubber Grommet

Order Number
003-10-052
003-10-053

1.89"/48mm
0.47"/12mm
3.26"/83mm

1.87"/47.5mm
0.29"/7.5mm
3.26"/83mm

Accessories

Weatherproof Harness

Order Number
019-10-040

Weatherproof Flashing Delay Harness

Order Number
019-10-042   PL3 with Weather RAK
019-10-044   PL3 with Standard 3 PIN

WAC-Weatherproof Connecter With Three 8" Wire

Order Number
019-10-020

WAC-Weatherproof Connecter With Two 8" Wire

Order Number
019-10-030

WAC-Weatherproof Connecter With Three 8" Wire

Order Number
024-10-003

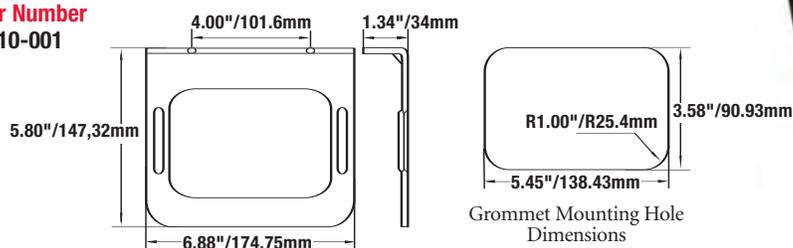# WAC-Weatherproof Connecter With Two 8" Wire

Order Number
003-10-000

Power Source Tester with Multi-Connector for Truck LED Lights, 8 AB Batteries Included

Order Number
000-20-005

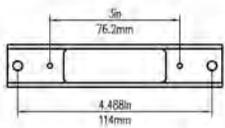# Heavy-Duty "L" Bracket for 3"x5" Light (Series 45)

Order Number
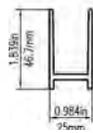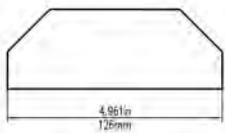024-10-001

4.00"/101.6mm

1.34"/34mm

5.80"/147,32mm

R1.00"/R25.4mm

3.58"/90.93mm

5.45"/138.43mm

6.88"/174.75mm

Grommet Mounting Hole Dimensions

Heavy-Duty Flush Mount Bracket For 4" Round (Series 40)

Order Number
019-11-001

Accessories

Heavy-Duty Flush Mount Bracket For 6" Oval (Series 60)

Order Number
019-11-002

Armor Bracket for 4" Slim Line Marker Light

Order Number
003-05-020   Signal Aluminium Protection Bar for 4" Slim Line Side Marker. (Light sold separately)

1 ¹/₂" Round LED License Plate Light

Order Number
006-01-500

6" LED Accessory and License Plate Mounting Light

Order Number
008-01-500

Limited Lifetime Warranty

A.L. LIGHTech, Inc., warrants each new product to be free from defects in material and workmanship, under normal use and service, for a lifetime period from the date of delivery throughout the lifetime of use by the original user/purchaser (customer), except for noted products. Each SHELLS® and DIGIBULB® lighting products Limited Warranty as applicable is not transferable and applies to the original installation of the A.L. LIGHTech product. To be eligible for the SHELLS® and DIGIBULB® lighting products Limited Warranty, A.L. LIGHTech products must remain intact, free from physical abuse, and not subject to improper installation or inadequate maintenance, nor to units that have problems relating to service or modification at any facility other than the A.L. LIGHTech factory or authorized warranty service center. SHELLS® and DIGIBULB® lighting products Limited Lifetime Warranty applies only to LED light sources. All other components; lens, light housing, connector, and assembly kit are limited to a three year warranty. The SHELLS® and DIGIBULB® lighting products Limited Warranty does not apply to several applications such as construction equipment and off-road vehicles. These are some examples of excluded applications. Unless expressly agreed to in writing by A.L. LIGHTech, Inc., A.L. LIGHTech, Inc. does not warranty its products as to their fitness for any special use or function. MANY CHEMICALS AND/OR CLEANERS ARE INCOMPATIBLE with A.L. LIGHTech sealed SHELLS® LED and DIGIBULB® digital LED lighting products. The SHELLS® and DIGIBULB® lighting products Limited Warranty does not apply to damage associated with incompatible chemicals or cleaners. A.L. LIGHTech's sealed products are to REMAIN INTACT, FREE FROM PHYSICAL ABUSE AND MUST BE USED ONLY WITH A.L. LIGHTECH APPROVED WIRING ACCESSORIES. ANY VIOLATION OF THESE CONDITIONS WILL VOID THE SHELLS® and DIGIBULB® lighting products Limited Warranty. Our laboratory may inspect products submitted for SHELLS® and DIGIBULB® lighting products Limited Warranty consideration. During this warranty period, the obligation of A.L. LIGHTech is limited to repairing or replacing, as A.L. LIGHTech may select. A.L. LIGHTech will provide warranty for any unit that is delivered, transported prepaid, to A.L. LIGHTech, Inc. or designated authorized warranty service center for examination. If such examination reveals a defect in material and/or workmanship, a replacement will be issued. This warranty does not cover travel expenses, the cost of specialized equipment for gaining access to the product, or labor charges for removal and re-installation of the product. There are no warranties, expressed or implied (including any warranty of merchantability or fitness), which extend beyond the SHELLS® and DIGIBULB® lighting products Warranty. Any inconveniences such as the loss of use of the product, loss of time, commercial loss, incidental or consequential damages are not to be covered under warranty. The A.L. LIGHTech, Inc. reserves the right to change the design of the product without assuming any obligation to modify any product previously manufactured or to replace warranted product other than with redesigned product. We believe our products should provide good service under proper operation conditions, and this will be reflected in our consideration of items returned for examination.

To purchase please contact: