

**Hamsar** DIVERSCO INC.

Innovative Lighting and Electronic Solutions

**2016  
PRODUCT  
CATALOGUE**



**Visi-Light**<sup>®</sup>



# **Hamsar** DIVERSCO INC.

**ISO9001:2008**

**OHSAS 18001:2007**

**ISO14001:2004**

## **OUR STORY**

Hamsar originated with the entrepreneurial spirit of the President, Fred Kelly to create his own company more than 30 years ago. From a humble beginning starting out in his garage to now one of the world's leaders in lighting and technology, the company still reflects his attitude and commitment to innovation and customer service today.

Hamsar has grown to be a world leader in manufacturing and distributing automotive lighting, heavy equipment work lights, daytime running lights, high intensity discharge lighting, bulbs, silkscreen promotional products, electronics, printed circuit boards, flex strip lighting and many other electronic products.

At Hamsar we have an in-house engineering department and testing facility with up-to-the-minute design capabilities that meet SAE, DOT and ECE STANDARDS. Our on-site testing facility includes a photometric light tunnel, audio chamber, environmental chamber, salt spray chamber and life cycle test area. This allows us to create a customized and comprehensive solution for projects with even the most stringent specifications and timelines from concept to final product.

With a manufacturing and distribution centre in our Canadian Head Office and a second distribution centre in Temecula, California we have established ourselves as a reliable supplier of ISO quality products with an exemplary fill rate and a dependable shipping record.



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**Website**      **www.hamsar.com**



# NEW PRODUCTS



**XTL-800  
LED WORK LIGHT**  
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**XWL-800 • SOFT START  
LED WORK LIGHT**  
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**MODEL XTL-810  
LED WORK LIGHT**  
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**XWL-810 • SOFT START  
LED WORK LIGHT**  
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**XWL-812 2000 & 3000  
LED WORK LIGHT**  
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**XWL-812 • POWER BURST  
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**XWL-813 5000 • HDM  
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**XWL-813 5000  
LED WORK LIGHT**  
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**RD-1800  
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**OL-1800  
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**SQ-3000  
LED WORK LIGHT**  
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**RG-1300  
LED WORK LIGHT**  
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**RG-2600  
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**RD-1400 • PAR 36  
LED WORK LIGHT**  
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**HALOGEN HEADLIGHT**  
5" x 7" (200mm)  
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**XWL-812  
RED LED FORKLIFT LIGHT**  
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**LED  
LIFTGATE FLASHER**  
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**AMBER / BLUE  
LED MICRO LIGHT BAR**  
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**CHMSL  
BACK-UP CAMERA**  
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**MAGNETIC  
SHELF LIGHTING**  
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**LED  
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**MAGNETIC  
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## CAPABILITIES

### LEADING EDGE CAPABILITIES

The combined strength of an in-house engineering department and an on-site testing facility has made Hamsar Diversco the preferred choice for Original Equipment customers seeking innovation and dependability. When coupled with our ability to take a project from concept to completion it's easy to understand why companies across a range of industries turn to us for solutions in the design, development and mass production of lighting and electronic products.

CAD files are brought to life by our rapid prototyping 3D printing capabilities. Delivering prototype models enhances visualization and provides the ability to check fit and look before committing to hard tooling.

**Other Manufacturing Capabilities Include:**

- Electronic Insertion
- Wave Soldering
- SMT Insertion and Reflow
- Wire Termination and Crimping
- Software Development
- Robot Assisted Production

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### FIRST RATE QUALITY CONTROL

Full in-house testing facilities mean outstanding accuracy, efficiency and short turnarounds. All design, production and delivery processes are governed by an ISO 9001:2008 registered quality control system.

- Photometer and Goniometer to Ensure Regulatory Compliances
- Environmental Test Chambers for Thermal Humidity and Thermal Shock Testing
- Cad Equipped Work Stations for Accurate Data
- Salt Spray Chamber to Conduct Corrosive Endurance Tests
- Trained In-House Quality Control Personnel

# WHAT IS THE NOMINAL AMP DRAW DIFFERENCE BETWEEN HALOGEN, HID/XENON & LED?

Halogen Work Lights	35W	55W	65W	75W
12Vdc	2.9A	4.6A		
24Vdc	1.5A	2.3A	2.7A	2.9A

HID/Xenon Work Lights	35W	45W		
12Vdc	<4A	4.6A		
24Vdc	1.5A	2.3A	2.7A	2.9A

LED work lights have up to 75% less amp draw than Halogen & HID/Xenon work lights.

# WHAT IS THE DIFFERENCE BETWEEN LUMENS & LUX?

The Lumen (a unit of luminous flux) is a measure of the total amount of visible light emitted by a source. The Lux takes into account the area over which the luminous flux is spread.

Lux = Lumens per Square Metre

ie. 1000 lumens spread out over 1 square metre = 1000 lux or 1000 lumens spread out over 10 square metres = 100 lux

Light	Lumen Output
Halogen 12V 35W	700 Lumens
Halogen 12V 55W	1200 Lumens
Halogen 24V 70W	1700 Lumens
HID/Xenon 12V or 24V 35W	3200 Lumens
HID/Xenon 12V or 24V 45W	4200 Lumens

# WHAT IS THE EXPECTED SERVICE LIFE WITH HALOGEN, HID/XENON & LED?

Light Source	Service Life
Halogen	500 - 1000 Hours
HID/Xenon	4000 - 6000 Hours
LED	40,000+ Hours

# CALCULATING WATTAGE, VOLTAGE & AMPERAGE

Watts = Volts x Amps

Volts = Watts x Amps

Amps = Watts x Volts

# SAE CLASS RATINGS



## BACK-UP ALARMS

Hamsar Diversco provides a variety of back-up alarms to suit multiple applications. The Society of Automotive Engineers (SAE) provides a class system for back-up alarms to categorize each class with a sound level. The sound level tolerance for each class is +/- 4dB (A).

Class	Sound Level
A	112dB (A)
B	107dB (A)
C	97dB (A)
D	87dB (A)
E	77dB (A)
F	Other

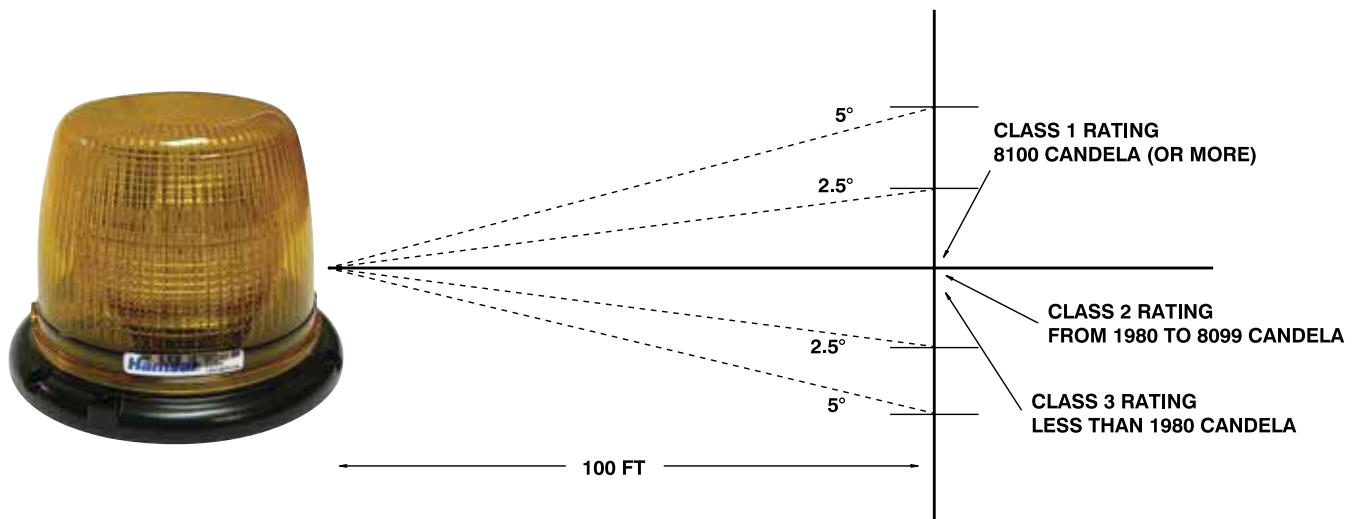
## STROBE BEACONS

Hamsar Diversco also provides multiple beacon lights. The three classes are described by the SAE standard (J1318). Each class is based on certain criteria measured by flash brightness and distribution.

### HOW SAE MEASUREMENTS ARE DONE

- 100 foot tunnel
- Various test points from 5° up to 5° down
- Main test point - Horizontal Vertical H-V Point

Class	Intended Function
1	Emergency Response
2	Warning
3	Identification



- Measuring Light Intensity (in Candela) - The amount of light radiated by a light source in a given direction



# WHY CHOOSE LED?

## Fuel Savings Per Vehicle:

**\$204**

	H11 - 55W	LED
Watts/Hour	110	26
Hours/Week	72	72
Litres/Hour	0.091	0.022
Litres/Week	6.55	1.55
\$/Week	\$5.19	\$1.22
\$Fuel/Year	\$269.88	\$63.44
Based on \$3.00 per gallon USD		

## Maintenance Savings Per Vehicle:

**\$240**

	H11 - 55W	LED
Cost of Bulb x2	\$40	\$0
Service (Labour) x2	\$80	\$0
Total	\$120	\$0
Twice a Year	\$240	\$0

## Inventory Savings Per Vehicle:

**\$116**

	H11 - 55W	LED
Cost of Bulb x2	\$40	\$0
Cost of PO Issue	\$4	\$0
Inventory Carrying Cost	\$14	\$0
Total (Twice a Year)	\$116	\$0
Based on 25 vehicle fleet		

## Downtime Savings Per Vehicle:

**\$352**

	H11 - 55W	LED
Driver	\$65/hr	\$0/hr
Service	\$55/hr	\$0/hr
Bus Time	\$115/hr	\$0/hr
Downtime/Bulb Change	45 min	0 min
Total (Twice a Year)	\$352.50	\$0

## Reduced Amperage Per Vehicle:

**84W**

	H11 - 55W	LED
Watts/Hour	110	26

## CO<sup>2</sup> Reduction:

**1547 lbs**

	H11 - 55W	LED
Watts/Hour	110	26
Hours/Week	72	72
Litres/Hour	0.091	0.022
Litres/Week	6.55	1.55
Litres/Year	240.6	80.6
CO <sup>2</sup> /Year	2026.6	479.6
Based on 5.95 lbs CO2 per 1 litre of fuel		





## LIMITED ONE (1) YEAR WARRANTY

Hamsar Diversco Inc. products have been manufactured under the highest standards of quality and workmanship. The following warranty is exclusive and in lieu of all other warranties, whether expressed, implied or statutory with respect to or relating to any product shipped hereunder (the "Product"). Hamsar Diversco Inc. warrants that the Product is, at the time of shipment to the Purchaser, free of material and workmanship defects provided that there shall be no warranty with respect to any Product which has been repaired or altered in any way, which has been subject to negligence, accident, improper storage or damaged in shipment without the fault of Hamsar Diversco Inc. or has not been installed, used or maintained in accordance with normal practice and in conformity with the recommendations or the published specifications of Hamsar Diversco Inc.

Hamsar Diversco Inc. shall, at its option, repair or replace any defective Product or refund the purchase price of a Product provided a warranty claim is made within one (1) year of the date of shipment of the Product and this shall be the full extent of Hamsar Diversco Inc.'s liability for breach of warranty. Exclusions to this Policy are all bulbs fitted with all lamps and all replacement bulbs, which are not covered under this policy.

Additional Exclusions to this Policy include the following:

- XWL-800, XTL-800, XWL-810, XTL-810, XWL-812, XWL-813 Series of Products – **Limited Five (5) Year Warranty**
- LED Headlights – **Limited Three (3) Year Warranty**
- All Bulbs – **Limited Ninety (90) Day Warranty After Shipment Date**

Proof of purchase (original sales receipt) must accompany all warranty claims. If you have any questions regarding technical support, installation or concerns regarding our warranty policy, please contact our customer service team at (905) 332-4094 or e-mail us at [sales@hamsar.com](mailto:sales@hamsar.com).

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## FUSING STATEMENT

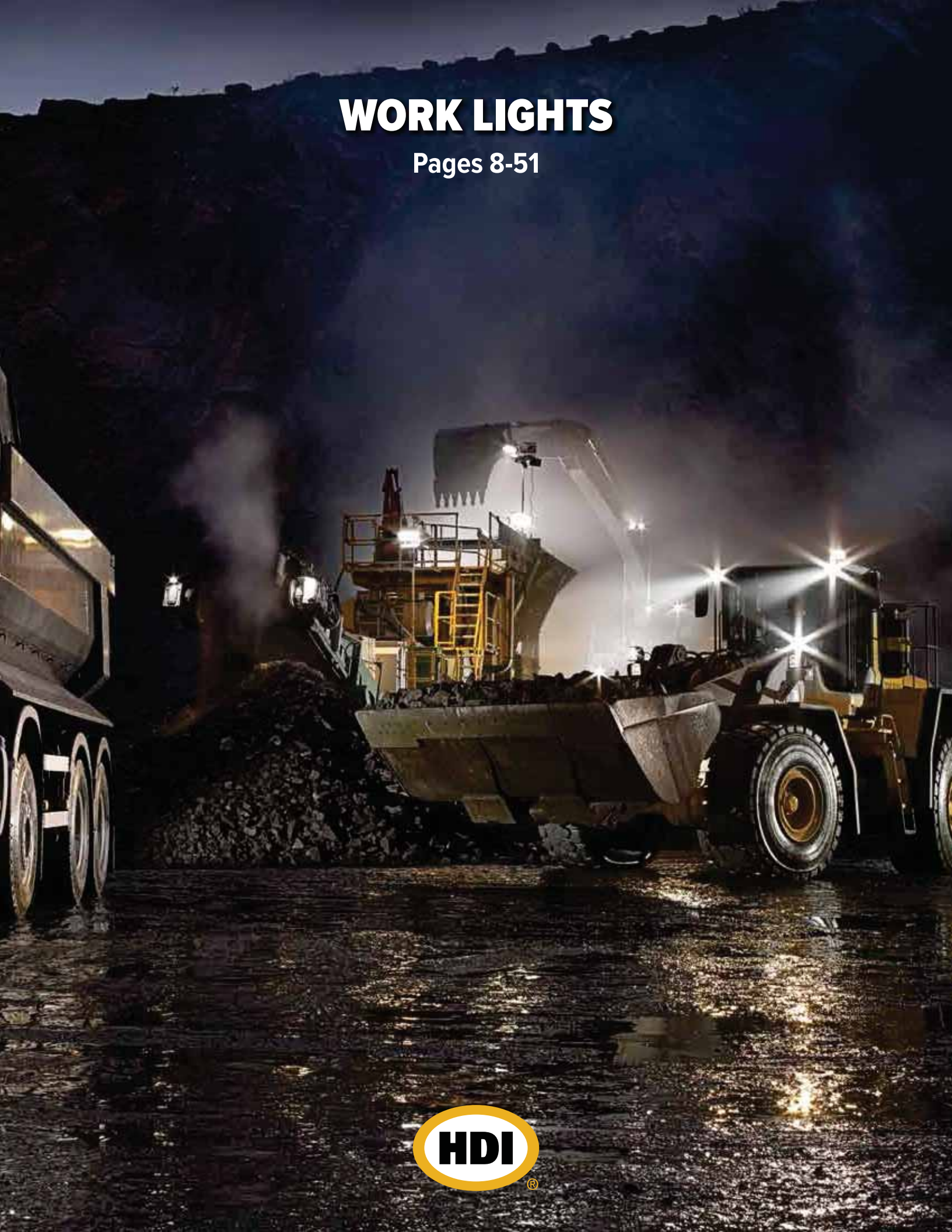


Hamsar lighting and electronic products must be fused appropriately in all instances. If you are in doubt, consult with a Hamsar service representative at 1-800-567-5483 or email [sales@hamsar.com](mailto:sales@hamsar.com).

**NOTE: Improperly fused/installed product will invalidate the warranty.**

# WORK LIGHTS

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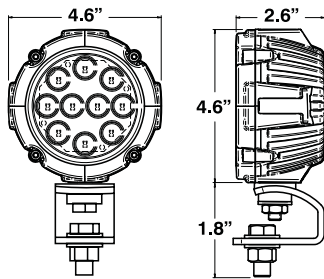
## MODEL XWL-800 • HIGH OUTPUT



81281/HO

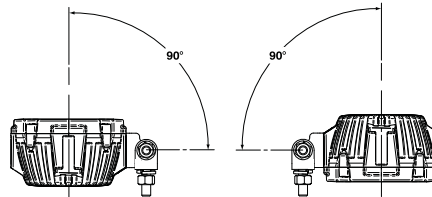
### FEATURES & BENEFITS

- 2500 lumens - super bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 4 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (22W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 4 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product

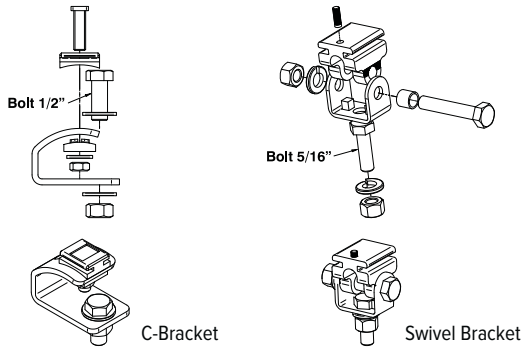


### Swivel Bracket

- Allows 360° rotation plus 90° tilt forwards & backwards

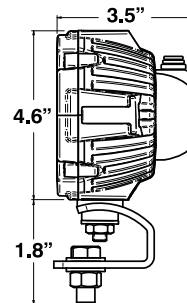


81266/HO



### ON/OFF Switch

- Automatic switch on/switch off function



81261/HO/S

### "4 Lives in 1" Mount System

- 4 attachment points





MODEL XLW-800 • HIGH OUTPUT

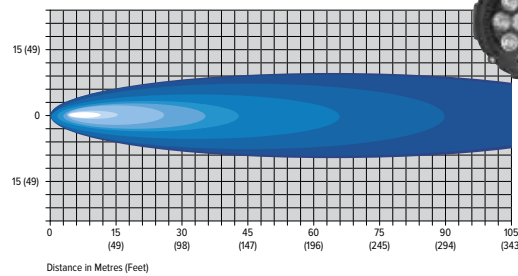
Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.8A @ 12Vdc 0.9A @ 24Vdc
Power Consumption:	22W
Temperature Range:	-40°C to +80°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	1.0kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	6" Wire
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	C-Bracket or Swivel Bracket
EMC Rated:	EMC EN 13309: 2010

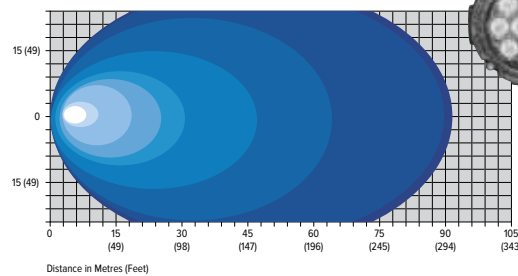
Part #	Beam Pattern	Lumens	Voltage Range
81261/HO	Spot	2500	12 - 24Vdc
81262/HO	Wide Flood	2500	12 - 24Vdc
81263/HO	Medium Flood	2500	12 - 24Vdc
81281/HO	Hybrid Spot/Flood	2500	12 - 24Vdc
<b>SWIVEL BRACKET</b>			
81264/HO	Spot	2500	12 - 24Vdc
81265/HO	Wide Flood	2500	12 - 24Vdc
81266/HO	Medium Flood	2500	12 - 24Vdc
81267/HO	Hybrid Spot/Flood	2500	12 - 24Vdc
<b>ON/OFF SWITCH</b>			
81261/HO/S	Spot	2500	12 - 24Vdc
81262/HO/S	Wide Flood	2500	12 - 24Vdc
81263/HO/S	Medium Flood	2500	12 - 24Vdc
81281/HO/S	Hybrid Spot/Flood	2500	12 - 24Vdc
98189	Swivel Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		

Beam Patterns

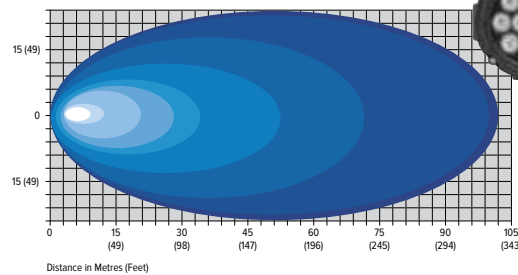
Spot Pattern



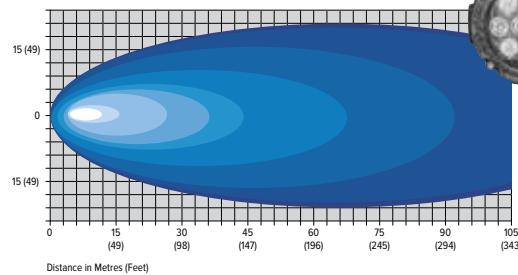
Wide Flood Pattern



Medium Flood Pattern



Hybrid Spot/Flood Pattern





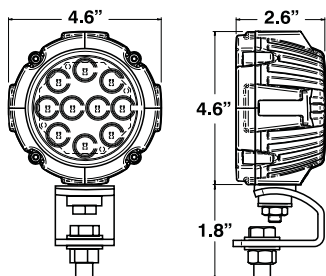
## MODEL XTL-800 • HIGH OUTPUT



81881/HO/B  
Black Bezel

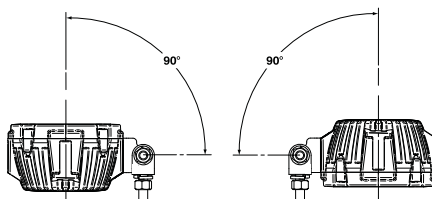
### FEATURES & BENEFITS

- Robust coloured bezel - enhanced style & look, with added lens protection
- 2500 lumens - super bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 4 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (22W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 3 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product

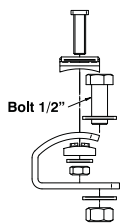


### Swivel Bracket

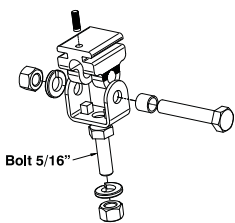
- Allows 360° rotation plus 90° tilt forwards & backwards



81864/HO/B



C-Bracket



Swivel Bracket

### "4 Lives in 1" Mount System

- 4 attachment points



81881/HO/G  
Green Bezel



81881/HO/BL  
Blue Bezel



## MODEL XTL-800 • HIGH OUTPUT

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.8A @ 12Vdc 0.9A @ 24Vdc
Power Consumption:	22W
Temperature Range:	-40°C to +80°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	1.0kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	6" Wire
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	C-Bracket or Swivel Bracket
EMC Rated:	EMC EN 13309: 2010

Part #	Beam Pattern	Lumens	Voltage Range
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#### BLACK BEZEL

81861/HO/B	Spot	2500	12 - 24Vdc
81863/HO/B	Medium Flood	2500	12 - 24Vdc
81881/HO/B	Hybrid Spot/Flood	2500	12 - 24Vdc

#### SWIVEL BRACKET

81864/HO/B	Spot	2500	12 - 24Vdc
81866/HO/B	Medium Flood	2500	12 - 24Vdc
81867/HO/B	Hybrid Spot/Flood	2500	12 - 24Vdc

#### BLUE BEZEL

81861/HO/BL	Spot	2500	12 - 24Vdc
81863/HO/BL	Medium Flood	2500	12 - 24Vdc
81881/HO/BL	Hybrid Spot/Flood	2500	12 - 24Vdc

#### SWIVEL BRACKET

81864/HO/BL	Spot	2500	12 - 24Vdc
81866/HO/BL	Medium Flood	2500	12 - 24Vdc
81867/HO/BL	Hybrid Spot/Flood	2500	12 - 24Vdc

#### GREEN BEZEL

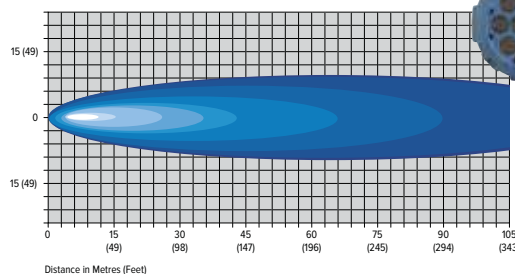
81861/HO/G	Spot	2500	12 - 24Vdc
81863/HO/G	Medium Flood	2500	12 - 24Vdc
81881/HO/G	Hybrid Spot/Flood	2500	12 - 24Vdc

#### SWIVEL BRACKET

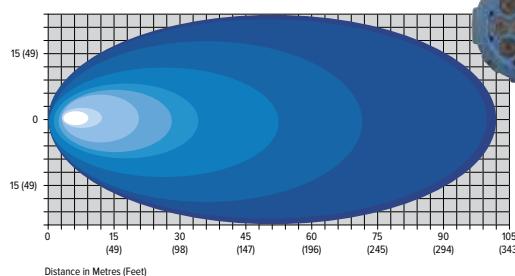
81864/HO/G	Spot	2500	12 - 24Vdc
81866/HO/G	Medium Flood	2500	12 - 24Vdc
81867/HO/G	Hybrid Spot/Flood	2500	12 - 24Vdc

### Beam Patterns

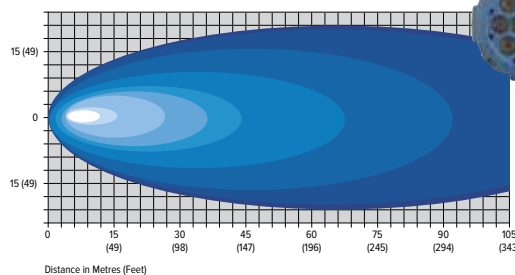
#### Spot Pattern



#### Medium Flood Pattern



#### Hybrid Spot/Flood Pattern

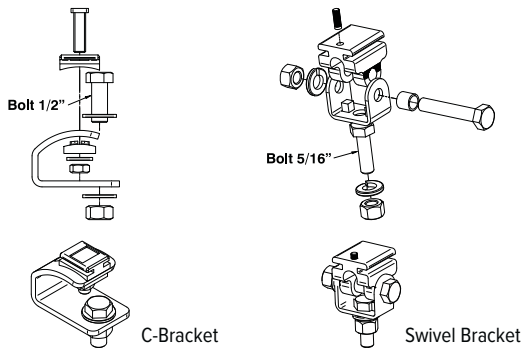
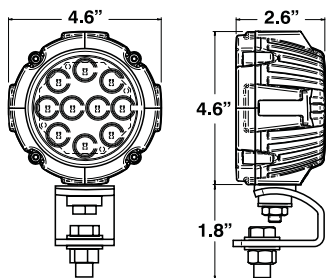




## MODEL XLW-800 • HIGH OUTPUT • SOFT START



81904



### FEATURES & BENEFITS

- Gradual Illumination - allows eyes to adjust to the bright light, improving safety
- Eases load on electronic components - reduces the “in rush current”, improving electronic component life and easing the load on existing wiring and battery
- 2500 lumens - super bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 4 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (22W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 4 beam patterns - get light where it’s needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.8A @ 12Vdc 0.9A @ 24Vdc
Power Consumption:	22W
Temperature Range:	-40°C to +80°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	1.0kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	6" Wire
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	C-Bracket or Swivel Bracket
EMC Rated:	EMC EN 13309: 2010

Part #	Beam Pattern	Lumens	Voltage Range
81901	Spot	2500	12 - 24Vdc
81902	Medium Flood	2500	12 - 24Vdc
81903	Wide Flood	2500	12 - 24Vdc
81904	Hybrid Spot/Flood	2500	12 - 24Vdc
<b>SWIVEL BRACKET</b>			
81911	Spot	2500	12 - 24Vdc
81912	Medium Flood	2500	12 - 24Vdc
81913	Wide Flood	2500	12 - 24Vdc
81914	Hybrid Spot/Flood	2500	12 - 24Vdc
98189	Swivel Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue		(see page 27)





## MODEL XLW-800 • HIGH OUTPUT • CHROME

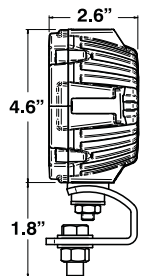
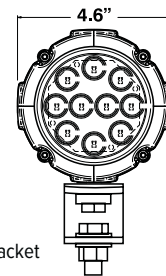
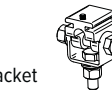
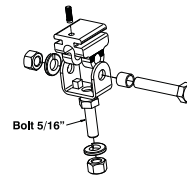
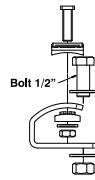
### FEATURES & BENEFITS

- Chrome plated housing
- 2500 lumens - super bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 4 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (22W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 4 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product



81261/HO/C

Part #	Beam Pattern	Lumens	Voltage Range
81261/HO/C	Spot	2500	12 - 24Vdc
81262/HO/C	Wide Flood	2500	12 - 24Vdc
81263/HO/C	Medium Flood	2500	12 - 24Vdc
81281/HO/C	Hybrid Spot/Flood	2500	12 - 24Vdc
98189	Swivel Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		



## MODEL XLW-800 • HIGH OUTPUT • MARINE

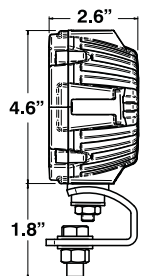
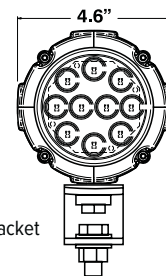
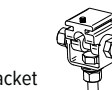
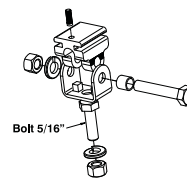
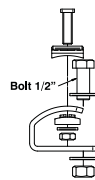
### FEATURES & BENEFITS

- Weather resistant housing - ideal for marine applications
- 316 Grade stainless steel mounting bracket & hardware
- 2500 lumens - super bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 4 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (22W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 4 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product



88261/HO

Part #	Beam Pattern	Lumens	Voltage Range
88261/HO	Spot	2500	12 - 24Vdc
88262/HO	Wide Flood	2500	12 - 24Vdc
88263/HO	Medium Flood	2500	12 - 24Vdc
88281/HO	Hybrid Spot/Flood	2500	12 - 24Vdc
98189	Swivel Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		





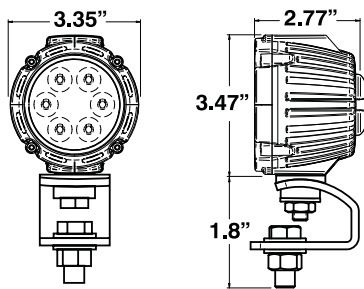
## MODEL XWL-810



### FEATURES & BENEFITS

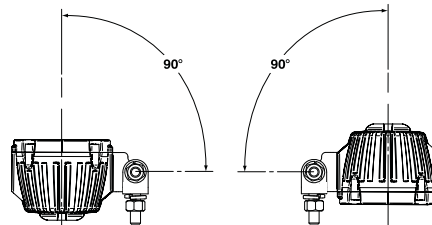
- 1260 lumens
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 2 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (14W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 4 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product

81274

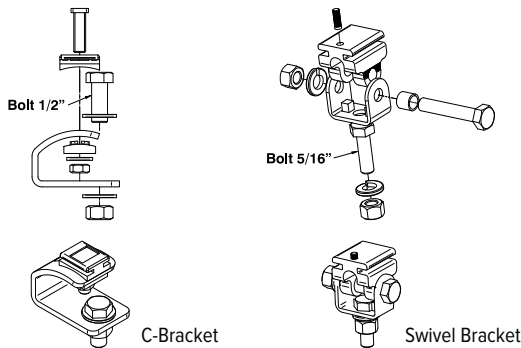


### Swivel Bracket

- Allows 360° rotation plus 90° tilt forwards & backwards

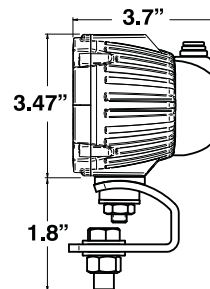


81277



### ON/OFF Switch

- Automatic switch on/switch off function



81271/S

### "2 Lives in 1" Mount System

- 2 attachment points





## MODEL XLW-810

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.2A @ 12Vdc 0.6A @ 24Vdc
Power Consumption:	14W
Temperature Range:	-40°C to +80°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	0.6kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	6" Wire
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	C-Bracket or Swivel Bracket
EMC Rated:	EMC EN 13309: 2010

Part #	Beam Pattern	Lumens	Voltage Range
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81271	Spot	1260	12 - 24Vdc
81272	Wide Flood	1260	12 - 24Vdc
81273	Medium Flood	1260	12 - 24Vdc
81274	Hybrid Spot/Flood	1260	12 - 24Vdc

#### SWIVEL BRACKET

81275	Spot	1260	12 - 24Vdc
81276	Wide Flood	1260	12 - 24Vdc
81277	Medium Flood	1260	12 - 24Vdc
81278	Hybrid Spot/Flood	1260	12 - 24Vdc

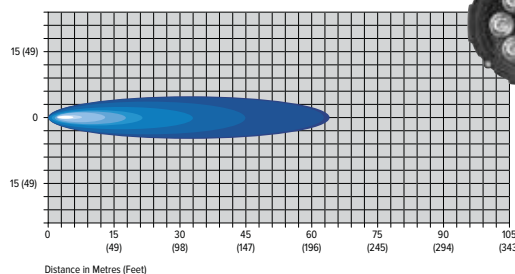
#### ON/OFF SWITCH

81271/S	Spot	1260	12 - 24Vdc
81272/S	Wide Flood	1260	12 - 24Vdc
81273/S	Medium Flood	1260	12 - 24Vdc
81274/S	Hybrid Spot/Flood	1260	12 - 24Vdc

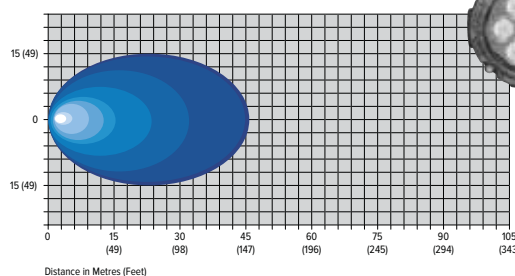
98189	Swivel Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		

### Beam Patterns

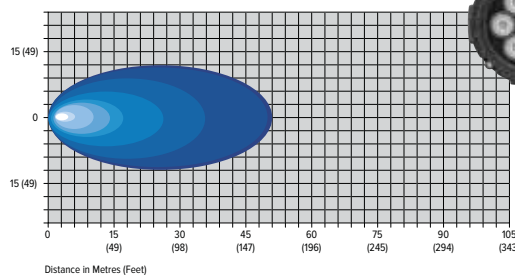
#### Spot Pattern



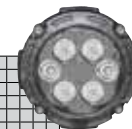
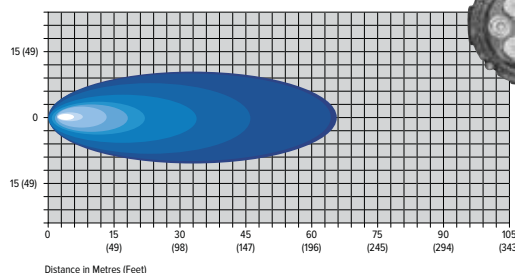
#### Wide Flood Pattern



#### Medium Flood Pattern



#### Hybrid Spot/Flood Pattern





## MODEL XTL-810

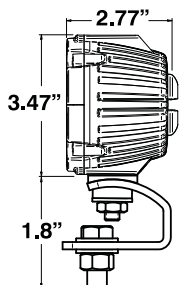
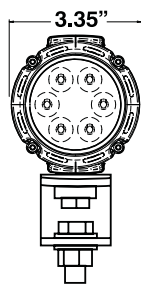


### FEATURES & BENEFITS

- Robust coloured bezel - enhanced style & look, with added lens protection
- 1260 lumens
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 2 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (14W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 3 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product



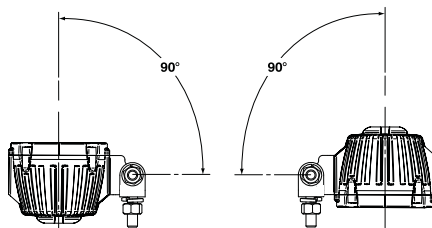
81871/B



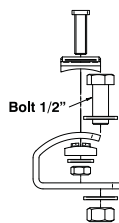
1.8"

### Swivel Bracket

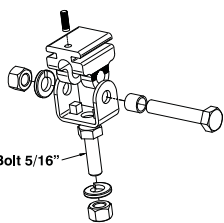
- Allows 360° rotation plus 90° tilt forwards & backwards



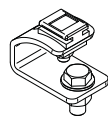
81875/B



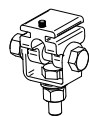
Bolt 1/2"



Bolt 5/16"



C-Bracket



Swivel Bracket

### "2 Lives in 1" Mount System

- 2 attachment points



81871/BL  
Blue Bezel



81871/G  
Green Bezel



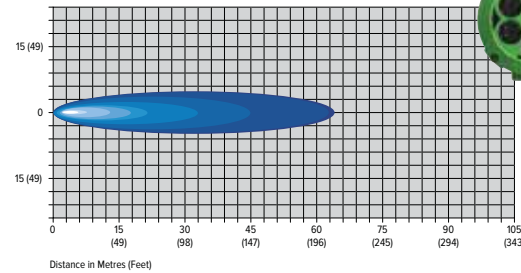
## MODEL XTL-810

Specifications	
Operating Voltage:	12 - 24Vdc
Operating Current:	1.2A @ 12Vdc 0.6A @ 24Vdc
Power Consumption:	14W
Temperature Range:	-40°C to +80°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	0.6kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	6" Wire
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	C-Bracket or Swivel Bracket
EMC Rated:	EMC EN 13309: 2010

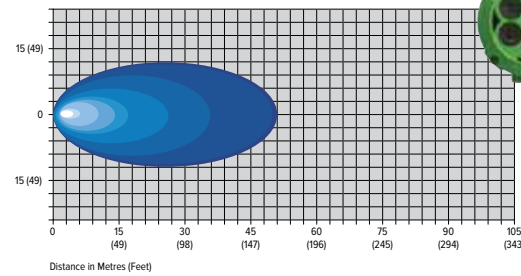
Part #	Beam Pattern	Lumens	Voltage Range
<b>BLACK BEZEL</b>			
81871/B	Spot	1260	12 - 24Vdc
81873/B	Medium Flood	1260	12 - 24Vdc
81874/B	Hybrid Spot/Flood	1260	12 - 24Vdc
<b>SWIVEL BRACKET</b>			
81875/B	Spot	1260	12 - 24Vdc
81877/B	Medium Flood	1260	12 - 24Vdc
81878/B	Hybrid Spot/Flood	1260	12 - 24Vdc
<b>BLUE BEZEL</b>			
81871/BL	Spot	1260	12 - 24Vdc
81873/BL	Medium Flood	1260	12 - 24Vdc
81874/BL	Hybrid Spot/Flood	1260	12 - 24Vdc
<b>SWIVEL BRACKET</b>			
81875/BL	Spot	1260	12 - 24Vdc
81877/BL	Medium Flood	1260	12 - 24Vdc
81878/BL	Hybrid Spot/Flood	1260	12 - 24Vdc
<b>GREEN BEZEL</b>			
81871/G	Spot	1260	12 - 24Vdc
81873/G	Medium Flood	1260	12 - 24Vdc
81874/G	Hybrid Spot/Flood	1260	12 - 24Vdc
<b>SWIVEL BRACKET</b>			
81875/G	Spot	1260	12 - 24Vdc
81877/G	Medium Flood	1260	12 - 24Vdc
81878/G	Hybrid Spot/Flood	1260	12 - 24Vdc

### Beam Patterns

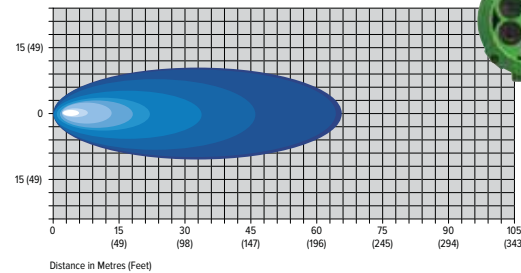
Spot Pattern



Medium Flood Pattern



Hybrid Spot/Flood Pattern



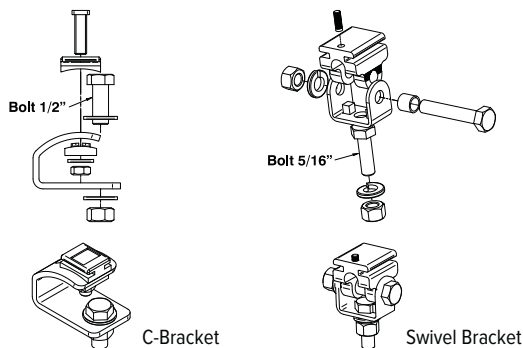
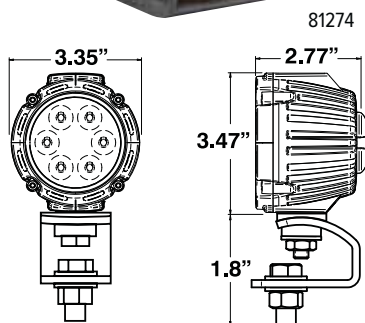


## MODEL XWL-810 • SOFT START



### FEATURES & BENEFITS

- Gradual Illumination - allows eyes to adjust to the bright light, improving safety
- Eases load on electronic components - reduces the "in rush current", improving electronic component life and easing the load on existing wiring and battery
- 1260 lumens
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 2 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (14W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 4 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.2A @ 12Vdc 0.6A @ 24Vdc
Power Consumption:	14W
Temperature Range:	-40°C to +80°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	0.6kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	6" Wire
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	C-Bracket or Swivel Bracket
EMC Rated:	EMC EN 13309: 2010

Part #	Beam Pattern	Lumens	Voltage Range
81801	Spot	1260	12 - 24Vdc
81802	Medium Flood	1260	12 - 24Vdc
81803	Wide Flood	1260	12 - 24Vdc
81804	Hybrid Spot/Flood	1260	12 - 24Vdc
<b>SWIVEL BRACKET</b>			
81811	Spot	1260	12 - 24Vdc
81812	Medium Flood	1260	12 - 24Vdc
81813	Wide Flood	1260	12 - 24Vdc
81814	Hybrid Spot/Flood	1260	12 - 24Vdc
98189	Swivel Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		



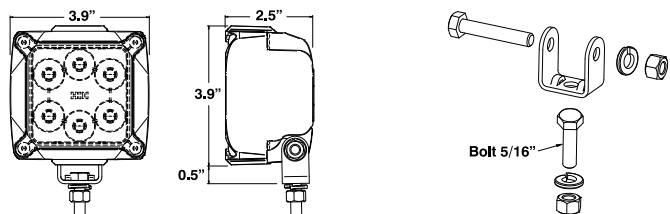
## MODEL XWL-812 • PREMIUM



82291/B

### FEATURES & BENEFITS

- 12 - 76Vdc - wide range of vehicles
- 1380 lumens
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (14W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 3 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product

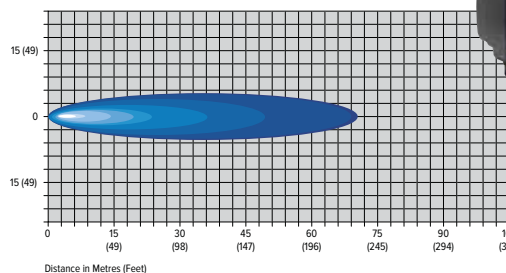


### Specifications

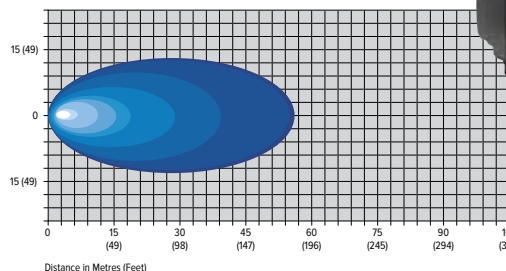
Operating Voltage:	12 - 76Vdc
Operating Current:	1.2A @ 12Vdc 0.18A @ 76Vdc
Power Consumption:	14W
Temperature Range:	-40°C to +60°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	0.7kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	Swivel Bracket
EMC Rated:	EMC EN 13309: 2010

### Beam Patterns

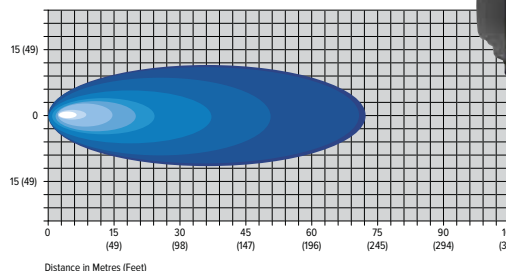
#### Spot Pattern



#### Medium Flood Pattern



#### Hybrid Spot/Flood Pattern



Tyco Connector



Deutsch Connector



Part #	Connector	Lumens	Voltage Range
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#### SPOT

82291/B	Tyco	1380	12 - 76Vdc
82291/C	Deutsch	1380	12 - 76Vdc

#### MEDIUM FLOOD

82293/B	Tyco	1380	12 - 76Vdc
82293/C	Deutsch	1380	12 - 76Vdc

#### HYBRID SPOT/FLOOD

82294/B	Tyco	1380	12 - 76Vdc
82294/C	Deutsch	1380	12 - 76Vdc
81291HW	Hardware Package - U-Bolt & Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		



81636

## MODEL XWL-812 2000

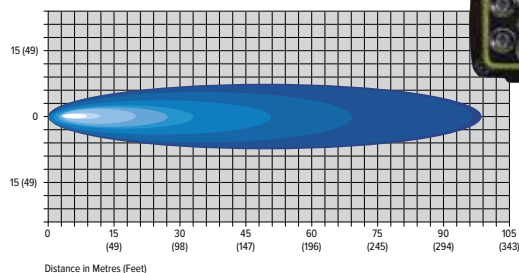
### FEATURES & BENEFITS

- 2000 lumens - bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (24W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 3 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product
- **Electronic Thermal Management System** - self-regulates to prevent damage due to overheating
- **Built in Spread Spectrum Frequency Modulation (SSFM)** - internal SSF improves EMC performance

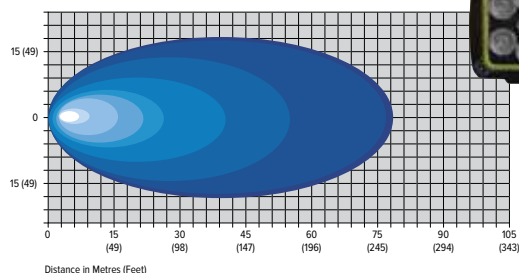


### Beam Patterns

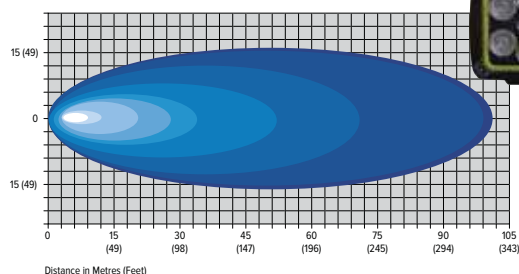
#### Spot Pattern



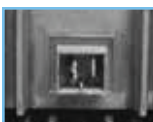
#### Medium Flood Pattern



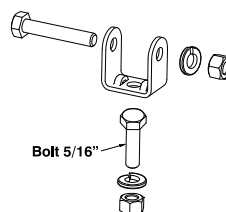
#### Hybrid Spot/Flood Pattern



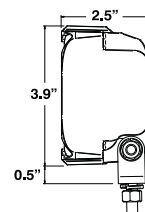
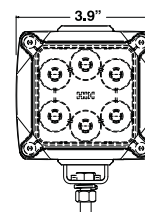
Tyco Connector



Deutsch Connector



Bolt 5/16"



### Specifications

Operating Voltage: 12 - 24Vdc  
 Operating Current: 2.0A @ 12Vdc  
 1.0A @ 24Vdc

Power Consumption: 24W  
 Temperature Range: -40°C to +60°C

IP Rating: IP68  
 Environmental Rating: IP69K

Weight: 0.7kg

Housing: Die Cast Aluminum - Black E-Coat

Lens: Automotive Optical Grade, Hard-Coated Polycarbonate

Polarity: Reverse Voltage Protected

Vibration Resistance: 10-500Hz @ 5Grms

Mounting: Swivel Bracket

EMC Rated: EMC EN 13309: 2010

Part #	Connector	Lumens	Voltage Range
<b>SPOT</b>			
81635	Tyco	2000	12 - 24Vdc
81638	Deutsch	2000	12 - 24Vdc
<b>MEDIUM FLOOD</b>			
81636	Tyco	2000	12 - 24Vdc
81639	Deutsch	2000	12 - 24Vdc
<b>HYBRID SPOT/FLOOD</b>			
81637	Tyco	2000	12 - 24Vdc
81640	Deutsch	2000	12 - 24Vdc
81291HW	Hardware Package - U-Bolt & Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		





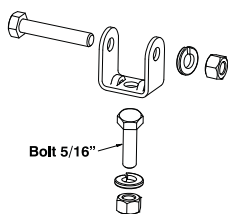
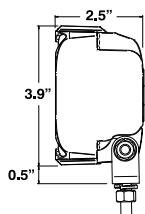
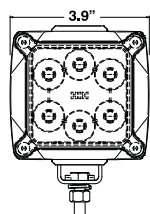
## MODEL XWL-812 3000



81283/B

### FEATURES & BENEFITS

- 3000 lumens - super bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (33W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 3 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product
- **Electronic Thermal Management System** - self-regulates to prevent damage due to overheating
- **Built in Spread Spectrum Frequency Modulation (SSFM)** - internal SSF improves EMC performance



### Specifications

Operating Voltage: 12 - 24Vdc

Operating Current: 2.75A @ 12Vdc  
1.38A @ 24Vdc

Power Consumption: 33W

Temperature Range: -40°C to +60°C

IP Rating: IP68

Environmental Rating: IP69K

Weight: 0.7kg

Housing: Die Cast Aluminum - Black E-Coat

Lens: Automotive Optical Grade, Hard-Coated Polycarbonate

Polarity: Reverse Voltage Protected

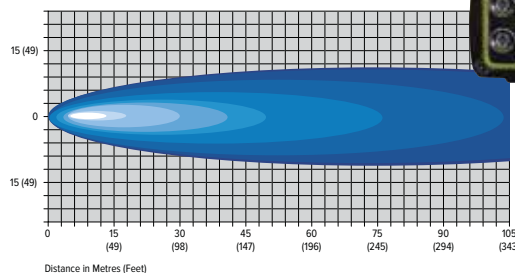
Vibration Resistance: 10-500Hz @ 5Grms

Mounting: Swivel Bracket

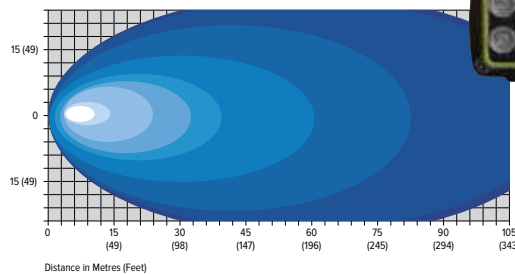
EMC Rated: EMC EN 13309: 2010

### Beam Patterns

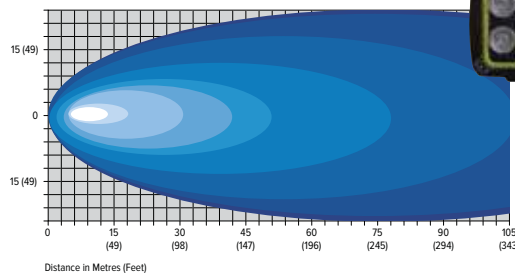
#### Spot Pattern



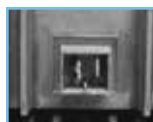
#### Medium Flood Pattern



#### Hybrid Spot/Flood Pattern



Tyco Connector



Deutsch Connector



Part #	Connector	Lumens	Voltage Range
--------	-----------	--------	---------------

#### SPOT

81282/B	Tyco	3000	12 - 24Vdc
81282/C	Deutsch	3000	12 - 24Vdc

#### MEDIUM FLOOD

81283/B	Tyco	3000	12 - 24Vdc
81283/C	Deutsch	3000	12 - 24Vdc

#### HYBRID SPOT/FLOOD

81284/B	Tyco	3000	12 - 24Vdc
81284/C	Deutsch	3000	12 - 24Vdc

81291HW Hardware Package - U-Bolt & Bracket

98195 Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)



81656

## MODEL XWL-812 • POWER BURST

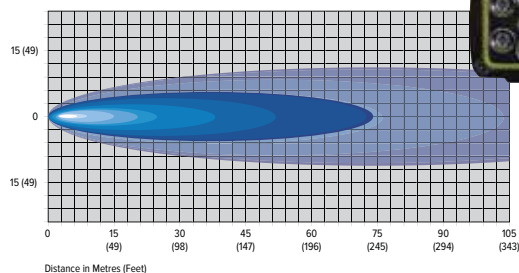
### FEATURES & BENEFITS

- 1500 lumens, power burst to 3000 lumens
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (normal power level: 11W • power burst: 35W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 3 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product
- **Electronic Thermal Management System** - self-regulates to prevent damage due to overheating
- **Built in Spread Spectrum Frequency Modulation (SSFM)** - internal SSF improves EMC performance

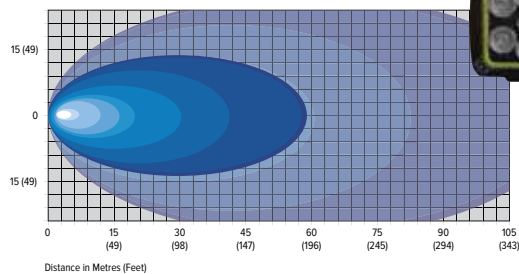


### Beam Patterns

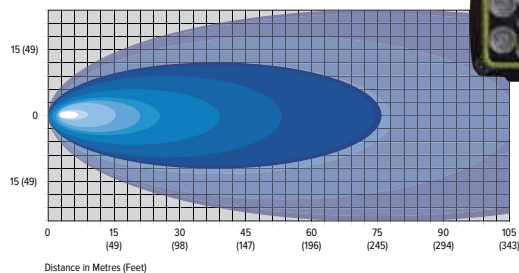
#### Spot Pattern



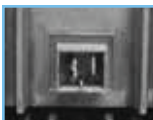
#### Medium Flood Pattern



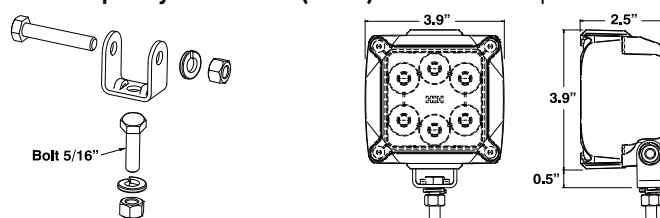
#### Hybrid Spot/Flood Pattern



Tyco Connector



Deutsch Connector



### Specifications

Operating Voltage:	12 - 24Vdc	
Operating Current:	Normal: 0.91A @ 12Vdc	Power Burst: 2.88A @ 12Vdc
	0.45A @ 24Vdc	1.38A @ 24Vdc
Power Consumption:	Normal: 11W • Power Burst: 35W	
Temperature Range:	-40°C to +60°C	
IP Rating:	IP68	
Environmental Rating:	IP69K	
Weight:	0.7kg	
Housing:	Die Cast Aluminum - Black E-Coat	
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate	
Polarity:	Reverse Voltage Protected	
Vibration Resistance:	10-500Hz @ 5Grms	
Mounting:	Swivel Bracket	
EMC Rated:	EMC EN 13309: 2010	

Part #	Connector	Lumens	Voltage Range
<b>SPOT</b>			
81655	Tyco	1500	12 - 24Vdc
81658	Deutsch	1500	12 - 24Vdc
<b>MEDIUM FLOOD</b>			
81656	Tyco	1500	12 - 24Vdc
81659	Deutsch	1500	12 - 24Vdc
<b>HYBRID SPOT/FLOOD</b>			
81657	Tyco	1500	12 - 24Vdc
81660	Deutsch	1500	12 - 24Vdc
81291HW	Hardware Package - U-Bolt & Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		



## MODEL XWL-812 • WHITE SPOT POWER BEAM



81295/B

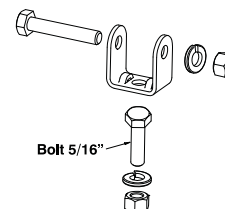
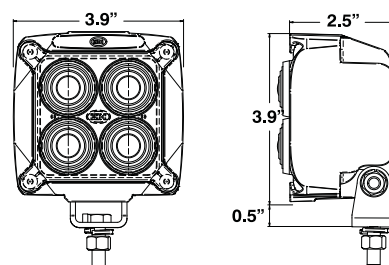
### FEATURES & BENEFITS

- Produces a sharp crisp spot beam pattern, minimizes reflected light, directs light to where it is needed
- Highly concentrated high voltage approaching 80,000 candela, making it brighter than a vehicle high beam
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP67 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (10W)



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	0.83A @ 12Vdc 0.42A @ 24Vdc
Power Consumption:	10W
Temperature Range:	-40°C to +85°C
IP Rating:	IP67
Environmental Rating:	IP69K
Weight:	0.7kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	Swivel Bracket
EMC Rated:	EMC EN 13309: 2010



Part #	Connector	Candela	Voltage Range
81295/B	Tyco	76000	12 - 24Vdc
81295/C	Deutsch	76000	12 - 24Vdc
81291HW	Hardware Package - U-Bolt & Bracket		
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		

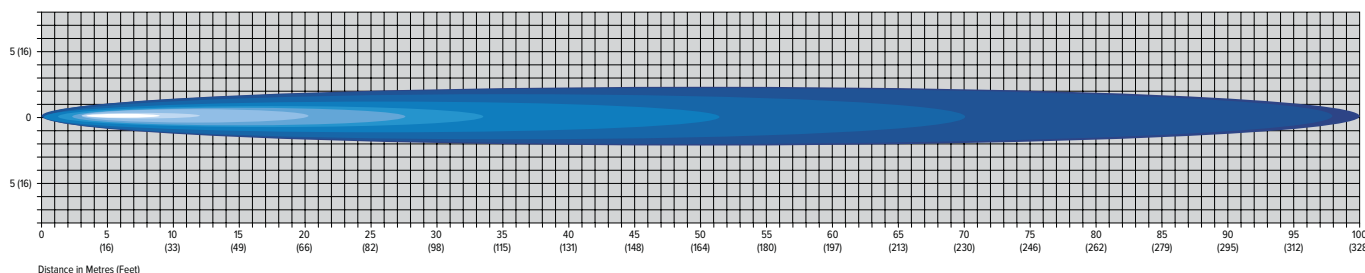
Tyco Connector



Deutsch Connector

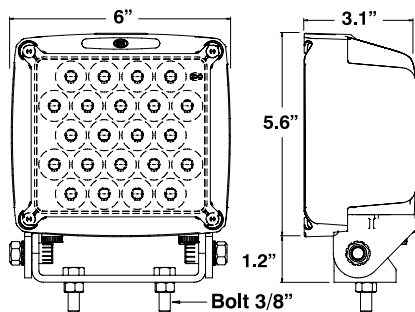


### Beam Pattern





81667



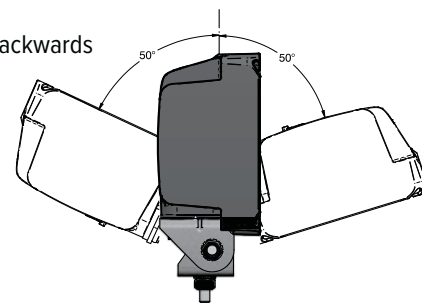
### FEATURES & BENEFITS

- 5000 lumens - super bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (50W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- Built-in vibration dampeners - reduces the intensity of shock and vibrations
- 3 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product

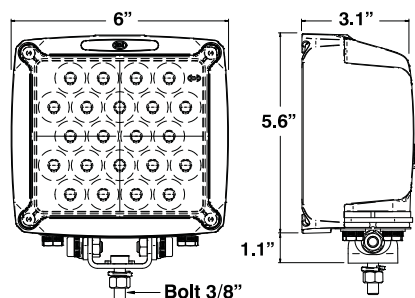


### Heavy Duty Mounting Bracket

- Allows 360° rotation plus 50° tilt forwards & backwards



81298/V/B



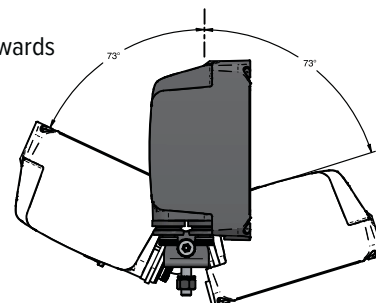
### FEATURES & BENEFITS

- 5000 lumens - super bright illumination
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (50W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- Built-in vibration dampeners - reduces the intensity of shock and vibrations
- 3 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product



### Swivel Bracket

- Allows 360° rotation plus 73° tilt forwards & backwards



## MODEL XWL-813 5000



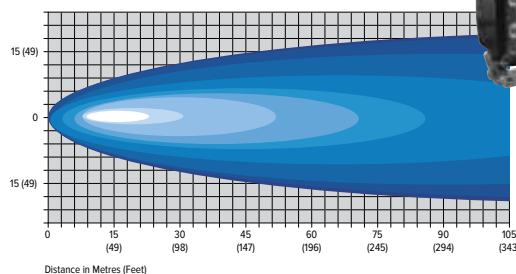
## MODEL XWL-813 5000 • XWL-813 5000 HDM

Specifications	
Operating Voltage:	12 - 24Vdc
Operating Current:	4.2A @ 12Vdc 2.1A @ 24Vdc
Power Consumption:	50W
Temperature Range:	-40°C to +60°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	1.59kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms, Built-In Vibration Dampener
Mounting:	Swivel Bracket or Heavy Duty Bracket
EMC Rated:	EMC EN 13309: 2010

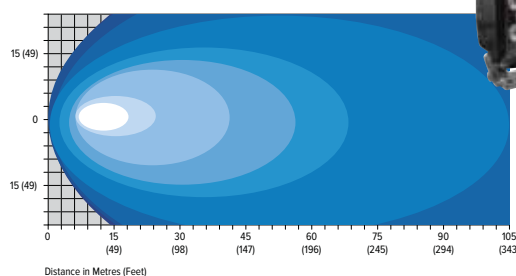
Part #	Connector	Lumens	Voltage Range
<b>XWL-813 5000 HDM</b>			
<b>SPOT</b>			
81665	Tyco	5000	12 - 24Vdc
81668	Deutsch	5000	12 - 24Vdc
<b>MEDIUM FLOOD</b>			
81666	Tyco	5000	12 - 24Vdc
81669	Deutsch	5000	12 - 24Vdc
<b>HYBRID SPOT/FLOOD</b>			
81667	Tyco	5000	12 - 24Vdc
81670	Deutsch	5000	12 - 24Vdc
<b>XWL-813 5000</b>			
<b>SPOT</b>			
81296/V/B	Tyco	5000	12 - 24Vdc
81296/V/C	Deutsch	5000	12 - 24Vdc
<b>MEDIUM FLOOD</b>			
81297/V/B	Tyco	5000	12 - 24Vdc
81297/V/C	Deutsch	5000	12 - 24Vdc
<b>HYBRID SPOT/FLOOD</b>			
81298/V/B	Tyco	5000	12 - 24Vdc
81298/V/C	Deutsch	5000	12 - 24Vdc
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)		

### Beam Patterns

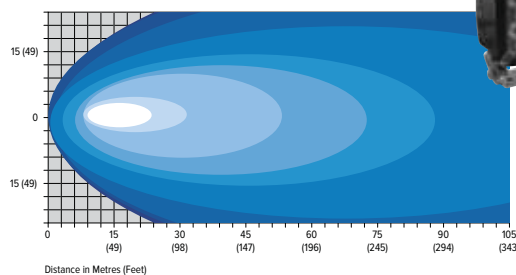
Spot Pattern



Medium Flood Pattern



Hybrid Spot/Flood Pattern

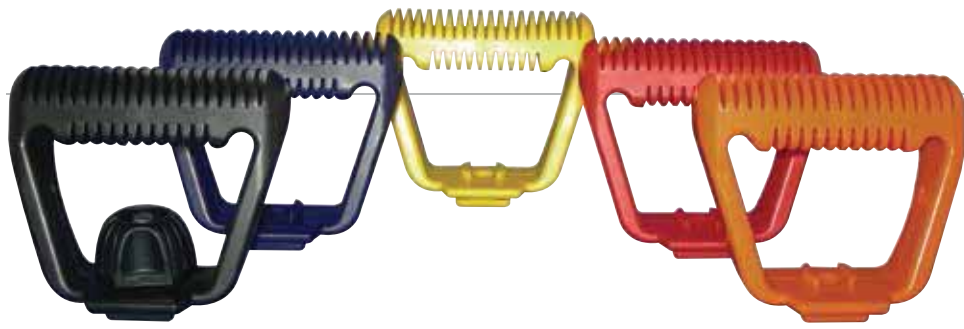


Tyco Connector

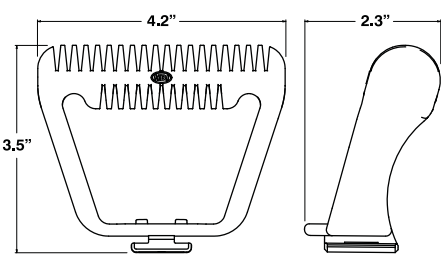


Deutsch Connector





## EASY-GRIP HANDLES



### FEATURES & BENEFITS

- Easily installs on all XWL-800, XWL-810, XWL-812, XWL-813 & XWL-700 models
- Weather resistant
- Easily adjust light beam
- Durable & versatile for the most demanding conditions

Part #	Description
98195	Easy Grip Handle - Black
98195/B	Easy Grip Handle - Blue
98195/O	Easy Grip Handle - Orange
98195/R	Easy Grip Handle - Red
98195/Y	Easy Grip Handle - Yellow





## MODEL XWL-800 • MAGNETIC MOUNT

### FEATURES & BENEFITS

- Connects to standard 12V socket
- Magnetic mounting bracket
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- 4 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (22W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 4 beam patterns - get light where it's needed for the job
- 50,000+ hours LED service life & 5 year warranty - long lasting investment, quality product



81263/HO/M

### Specifications

Operating Voltage: 12 - 24Vdc

Operating Current: 1.8A @ 12Vdc  
0.9A @ 24Vdc

Power Consumption: 22W

Temperature Range: -40°C to +80°C

IP Rating: IP68

Environmental Rating: IP69K

Weight: 1.67kg

Housing: Die Cast Aluminum - Black E-Coat

Lens: Automotive Optical Grade, Hard-Coated Polycarbonate

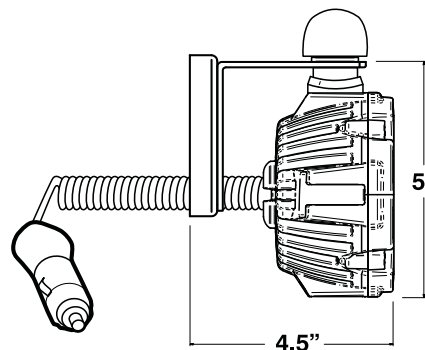
Connection: 12V Socket

Polarity: Reverse Voltage Protected

Vibration Resistance: 10-500Hz @ 5Grms

Mounting: Magnetic Bracket

EMC Rated: EMC EN 13309: 2010



### Part # Beam Pattern Lumens Voltage Range

81261/HO/M Spot 2500 12 - 24Vdc

81262/HO/M Wide Flood 2500 12 - 24Vdc

81263/HO/M Medium Flood 2500 12 - 24Vdc

81281/HO/M Hybrid Spot/Flood 2500 12 - 24Vdc



## MODEL XLW-820

### FEATURES & BENEFITS

- Available with 4, 8, 12, 14, 18 or 22 LEDs
- High lumen output
- Extruded aluminum housing & polycarbonate lens
- Cross slider, multi-angle mounting bracket
- 50,000+ hours LED service life & 1 year warranty

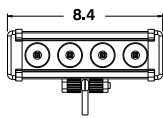
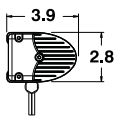
### Specifications

Operating Voltage:	12 - 24Vdc
Temperature Range:	-40°C to +80°C
IP Rating:	IP67
Housing:	Extruded Aluminum
Lens:	Polycarbonate
Connection:	Deutsch with Plug and Play Harness
Polarity:	Reverse Voltage Protected
Mounting:	Cross Slider, Multi-Angle Mounting Bracket



81711

Part #81711 • 4 LED • SPOT



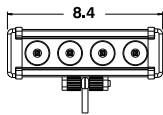
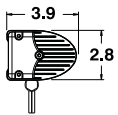
### Specifications

Running Amp Draw (12Vdc):	3.33A
Weight:	1.3kg
Bracket:	1 pc
Lumens:	3400



81712

81712 • 4 LED • FLOOD



### Specifications

Running Amp Draw (12Vdc):	3.33A
Weight:	1.3kg
Bracket:	1 pc
Lumens:	3400



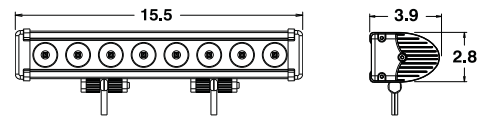
## MODEL XLW-820



81713

### Part #81713 • 8 LED

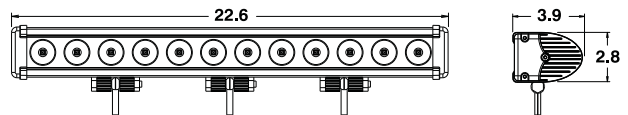
Specifications	
Running Amp Draw (12Vdc):	6.67A
Weight:	3.1kg
Bracket:	2 pcs
Lumens:	6800



81714

### Part #81714 • 12 LED

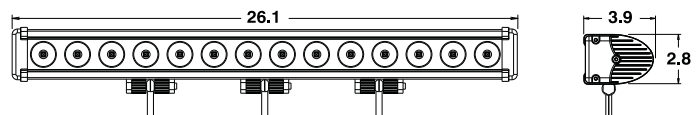
Specifications	
Running Amp Draw (12Vdc):	10.0A
Weight:	4.4kg
Bracket:	3 pcs
Lumens:	10000



81715

### Part #81715 • 14 LED

Specifications	
Running Amp Draw (12Vdc):	11.6A
Weight:	5.2kg
Bracket:	3 pcs
Lumens:	12000

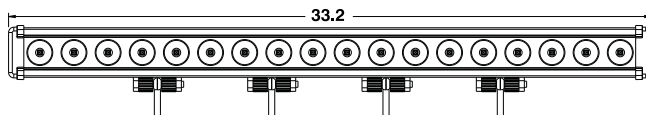
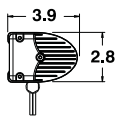


## MODEL XLW-820



81716

Part #81716 • 18 LED



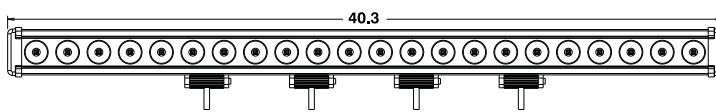
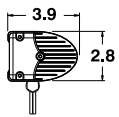
### Specifications

Running Amp Draw (12Vdc):	15.0A
Weight:	6.5kg
Bracket:	4 pcs
Lumens:	15000



81717

Part #81717 • 22 LED



### Specifications

Running Amp Draw (12Vdc):	18.3A
Weight:	7.5kg
Bracket:	4 pcs
Lumens:	18000

Part #	Beam Pattern	Lumens	Watts	Beam Angle	Vibration Rating	Dimensions (in) LxWxH	Weight (kg)
81711 (4 LED)	Spot	3400	40	30°	15.6G	8.4 x 3.9 x 2.8	1.3
81712 (4 LED)	Flood	3400	40	60°	15.6G	8.4 x 3.9 x 2.8	1.3
81713 (8 LED)	Hybrid	6800	80	60°	15.6G	15.5 x 3.9 x 2.8	3.1
81714 (12 LED)	Hybrid	10000	120	60°	15.6G	22.6 x 3.9 x 2.8	4.4
81715 (14 LED)	Hybrid	12000	140	60°	15.6G	26.1 x 3.9 x 2.8	5.2
81716 (18 LED)	Hybrid	15000	180	60°	15.6G	33.2 x 3.9 x 2.8	6.5
81717 (22 LED)	Hybrid	18000	220	60°	15.6G	40.3 x 3.9 x 2.8	7.5

## MODEL RD-1800

### FEATURES & BENEFITS

- 1800 lumens - bright illumination
- CREE LED - superior lighting technology
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- Stainless steel mounting hardware - strong and flexible mounting capabilities
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (20W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 30,000+ hours LED service life - long lasting investment, quality product

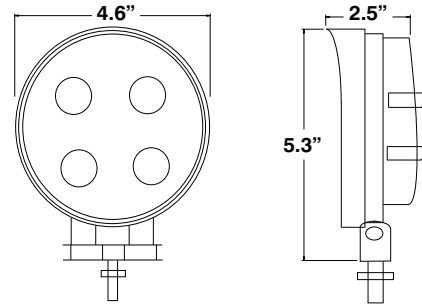
### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.6A @ 12Vdc 0.8A @ 24Vdc
Power Consumption:	20W
Temperature Range:	-40°C to +85°C
IP Rating:	IP68
Weight:	0.89kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Polycarbonate
Beam Pattern:	Spot @ 30° • Flood @ 60°
Connection:	Terminal Wires
Polarity:	Reverse Voltage Protected
Mounting:	Stainless Steel Mounting Bracket

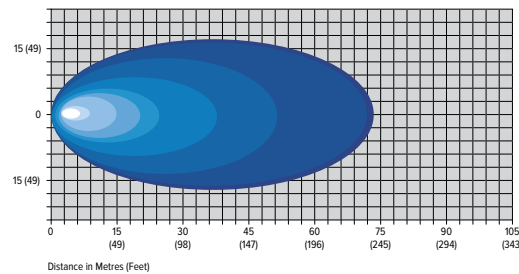
Part #	Beam Pattern	Lumens	Voltage Range
81256/2	Spot/Flood	1800	12 - 24Vdc



81256/2



### Beam Pattern



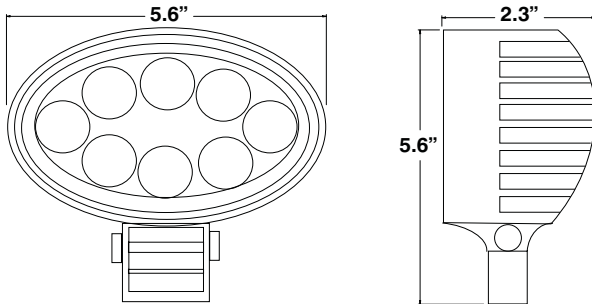
## MODEL OL-1800



81257

### FEATURES & BENEFITS

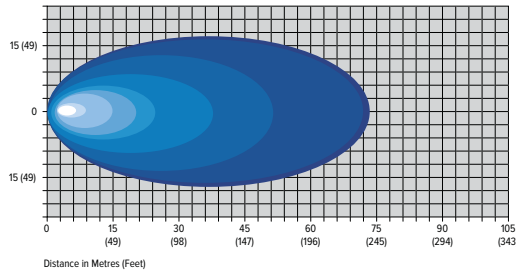
- 1800 lumens - bright illumination
- CREE LED - superior lighting technology
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- Stainless steel mounting hardware - strong and flexible mounting capabilities
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (18W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 30,000+ hours LED service life - long lasting investment, quality product



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.4A @ 12Vdc 0.7A @ 24Vdc
Power Consumption:	18W
Temperature Range:	-40°C to +85°C
IP Rating:	IP68
Weight:	0.65kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Polycarbonate
Beam Pattern:	Flood @ 60°
Connection:	Terminal Wires
Polarity:	Reverse Voltage Protected
Mounting:	Stainless Steel Mounting Bracket

### Beam Pattern



Part #	Beam Pattern	Lumens	Voltage Range
81257	Flood	1800	12 - 24Vdc

## MODEL SQ-3000

### FEATURES & BENEFITS

- 3000 lumens - super bright illumination
- EPISTAR LED - superior lighting technology
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- Stainless steel mounting hardware - strong and flexible mounting capabilities
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (48W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 30,000+ hours LED service life - long lasting investment, quality product

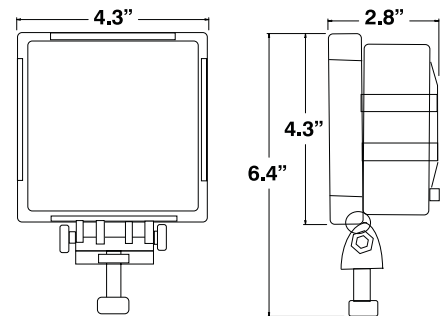
### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	4.0A @ 12Vdc 2.0A @ 24Vdc
Power Consumption:	48W
Temperature Range:	-40°C to +85°C
IP Rating:	IP68
Weight:	0.84kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Polycarbonate
Beam Pattern:	Spot @ 30° • Flood @ 60°
Connection:	Terminal Wires
Polarity:	Reverse Voltage Protected
Mounting:	Stainless Steel Mounting Bracket

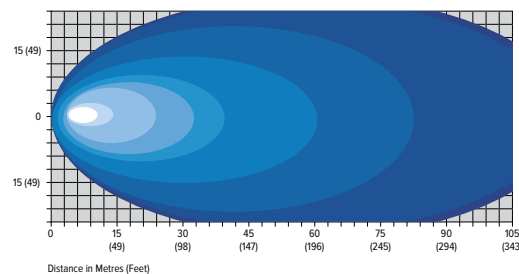
Part #	Beam Pattern	Lumens	Voltage Range
81258	Spot/Flood	3000	12 - 24Vdc



81258



### Beam Pattern





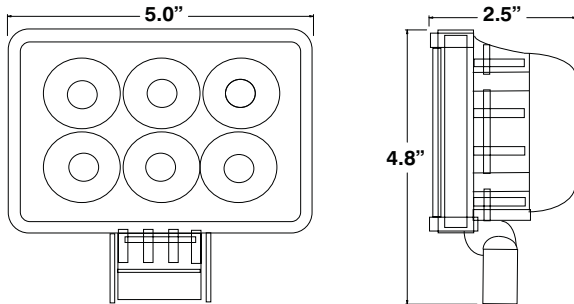
81259

## MODEL RG-1300



### FEATURES & BENEFITS

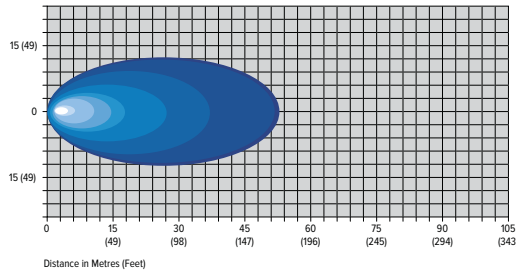
- 1300 lumens - bright illumination
- EPISTAR LED - superior lighting technology
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- Stainless steel mounting hardware - strong and flexible mounting capabilities
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (18W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 30,000+ hours LED service life - long lasting investment, quality product



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.4A @ 12Vdc 0.7A @ 24Vdc
Power Consumption:	18W
Temperature Range:	-40°C to +85°C
IP Rating:	IP68
Weight:	0.54kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Polycarbonate
Beam Pattern:	Spot @ 30° • Flood @ 60°
Connection:	Terminal Wires
Polarity:	Reverse Voltage Protected
Mounting:	Stainless Steel Mounting Bracket

### Beam Pattern



Part #	Beam Pattern	Lumens	Voltage Range
81259	Spot/Flood	1300	12 - 24Vdc

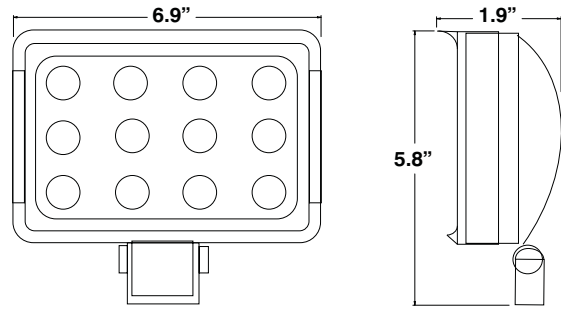
## MODEL RG-2600

### FEATURES & BENEFITS

- 2600 lumens - super bright illumination
- EPISTAR LED - superior lighting technology
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- Stainless steel mounting hardware - strong and flexible mounting capabilities
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (36W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 30,000+ hours LED service life - long lasting investment, quality product



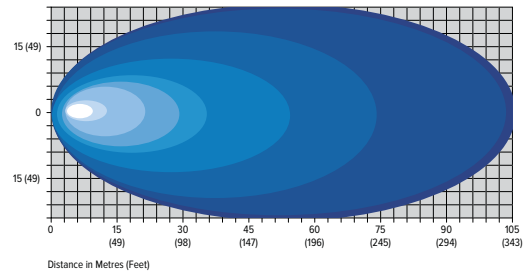
81259-1



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	3.0A @ 12Vdc 1.5A @ 24Vdc
Power Consumption:	36W
Temperature Range:	-40°C to +85°C
IP Rating:	IP67
Weight:	0.89kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Polycarbonate
Beam Pattern:	Spot @ 30° • Flood @ 60°
Connection:	Terminal Wires
Polarity:	Reverse Voltage Protected
Mounting:	Stainless Steel Mounting Bracket

### Beam Pattern



Part #	Beam Pattern	Lumens	Voltage Range
81259/1	Spot/Flood	2600	12 - 24Vdc

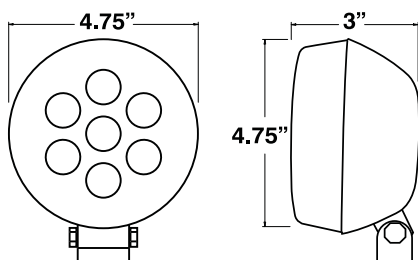
## MODEL RD-1400 • 6 LED FLOOD • PAR 36



81256/1

### FEATURES & BENEFITS

- 1400 lumens - bright illumination
- Corrosion proof rubber housing - durable & protective
- Direct replacement - LED fits right into existing housing of Par 36
- Stainless steel mounting hardware - strong and flexible mounting capabilities
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (8W)
- 30,000+ hours LED service life - long lasting investment, quality product

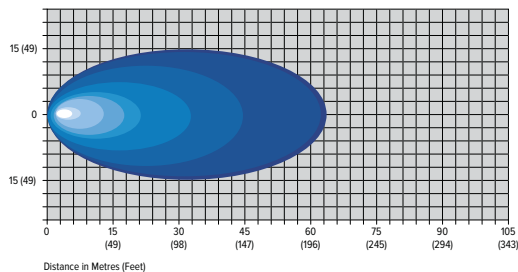


### Specifications

Operating Voltage:	12 - 30Vdc
Operating Current:	0.67A @ 12Vdc 0.27A @ 30Vdc
Power Consumption:	8W
Temperature Range:	-40°C to +85°C
IP Rating:	IP66
Weight:	0.89kg
Housing:	EPDM Rubber
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Beam Pattern:	Flood
Connection:	Bullet Connection
Polarity:	Reverse Voltage Protected
Vibration Resistance:	SAE J575
Mounting:	Stainless Steel U-Bracket
EMC Rated:	EMC EN 13309: 2010

Part #	Beam Pattern	Lumens	Voltage Range
81256/1	Flood	1400	12 - 30Vdc

### Beam Pattern





## 2 LED FLOOD

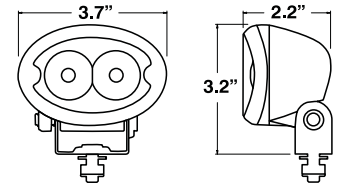
### FEATURES & BENEFITS

- 550 lumens
- Polymer housing & polycarbonate lens - virtually unbreakable
- Stainless steel mounting hardware - strong and flexible mounting capabilities
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (4.3W)
- 50,000+ hours LED service life - long lasting investment, quality product

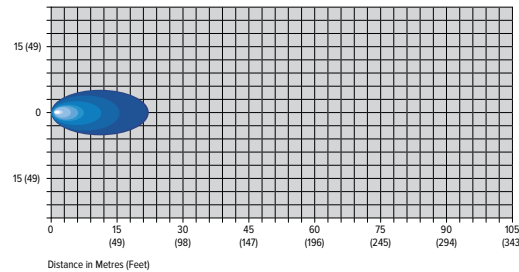
### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	0.36A @ 12Vdc 0.18A @ 24Vdc
Power Consumption:	4.3W
Temperature Range:	-40°C to +85°C
IP Rating:	IP66
Weight:	0.28kg
Lens:	Polycarbonate

Part #	Beam Pattern	Lumens	Voltage Range
81625	Flood	550	12 - 24Vdc



### Beam Pattern



## 6 LED FLOOD

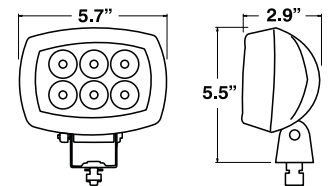
### FEATURES & BENEFITS

- 2000 lumens
- Polymer housing & polycarbonate lens - virtually unbreakable
- Stainless steel mounting hardware - strong and flexible mounting capabilities
- Low current draw - energy efficient, save on fuel costs as it consumes less energy (14W)
- 50,000+ hours LED service life - long lasting investment, quality product

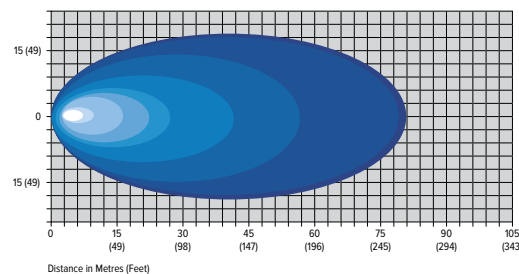
### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.2A @ 12Vdc 0.6A @ 24Vdc
Power Consumption:	14W
Temperature Range:	-40°C to +85°C
IP Rating:	IP66
Weight:	0.89kg
Lens:	Polycarbonate

Part #	Beam Pattern	Lumens	Voltage Range
81626	Flood	2000	12 - 24Vdc



### Beam Pattern





## DID YOU KNOW ...

HID Xenon Lighting provides outstanding illumination that is very close in colour spectrum to natural daylight. It provides twice the amount of light output than conventional halogen bulbs. The xenon capsule contains a five times greater lifespan than halogen, and only draws 3 amps of current. Due to the absence of a bulb filament, the Xenon light is durable for extremely rugged conditions.

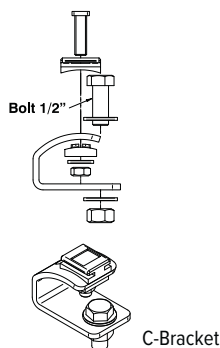
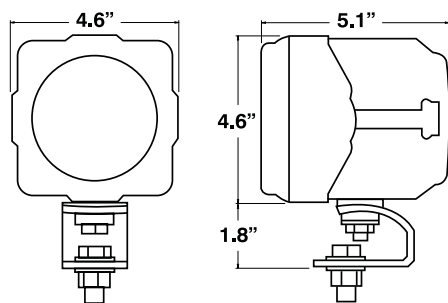


81233

## MODEL XWL-700 • HIGH OUTPUT

### FEATURES & BENEFITS

- 3800 lumens - super bright illumination
- New 35W D1S HID Xenon light bulb makes it brighter than the standard bulb
- Built in D1S internal ballast - no external ballast mounting required
- Polymer housing & hardened glass lens - virtually unbreakable
- 4 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Superior lens optics for efficient light output
- No filaments to burn out - lower maintenance costs
- Low amperage draw will not compromise electrical system
- 3 beam patterns - get light where it's needed for the job



C-Bracket

### Stone Guard Grille



81233-1

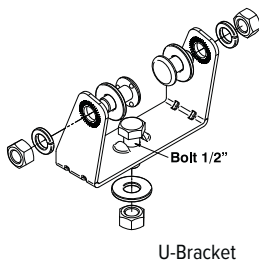


98190

### Clear PC Stone Shield



81233-2



U-Bracket



## MODEL XWL-700 • HIGH OUTPUT

### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	2.90A @ 12Vdc 1.45A @ 24Vdc
Power Consumption:	35W
Colour Temperature:	4200k
Temperature Range:	-40°C to +45°C
IP Rating:	IP67
Weight:	1.12kg
Vibration:	Exceeds SAE J2139
Salt Mist:	Exceeds ASTM B1117 & SAE J2139 (500 hours)
Lens:	Hardened Glass
Housing:	Glass Filled Black Nylon
Mounting Hardware:	Stainless Steel
Mounting Bracket:	Powder Coated Metal
Fully Serviceable:	Available Replacements for Each Component

Part #	Beam Pattern	Lumens	Operating Voltage
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81233	Medium Flood	3800	12Vdc
82233	Medium Flood	3800	24Vdc
81234	Wide Flood	3800	12Vdc
82234	Wide Flood	3800	24Vdc
81235	Spot	3800	12Vdc
82235	Spot	3800	24Vdc

### STONE GUARD GRILLE

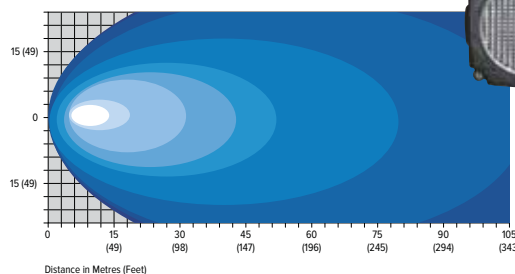
81233-1	Medium Flood	3800	12Vdc
82233-1	Medium Flood	3800	24Vdc
81234-1	Wide Flood	3800	12Vdc
82234-1	Wide Flood	3800	24Vdc
81235-1	Spot	3800	12Vdc
82235-1	Spot	3800	24Vdc

### CLEAR PC STONE SHIELD

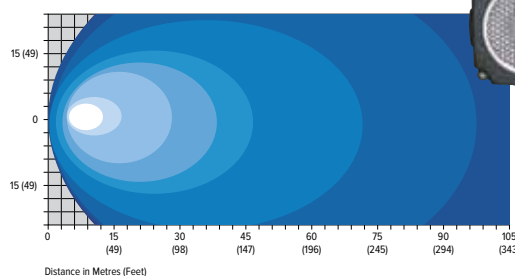
81233-2	Medium Flood	3800	12Vdc
82233-2	Medium Flood	3800	24Vdc
81234-2	Wide Flood	3800	12Vdc
82234-2	Wide Flood	3800	24Vdc
81235-2	Spot	3800	12Vdc
82235-2	Spot	3800	24Vdc

### Beam Patterns

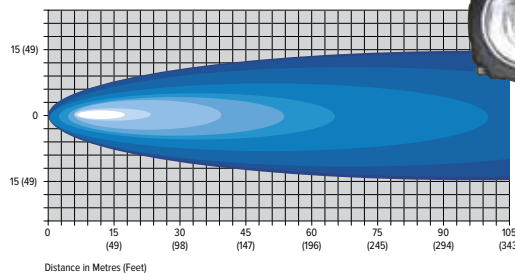
Medium Flood Pattern



Wide Flood Pattern



Spot Pattern



Part #	Description
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81230H	Replacement Housing & Bezel (all part numbers)
81230MF	Replacement Lens / Reflector / Bezel for Medium Flood
81231WF	Replacement Lens / Reflector / Bezel for Wide Flood
81232D	Replacement Lens / Reflector / Bezel for Spot
85109	High Output Bulb Capsule • D1S 12V 35W 3.5A
98063	Ballast • D1S 12V 35W
98064	Ballast • D1S 24V 35W
98190	U-Bracket
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue (see page 27)



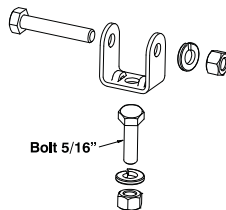
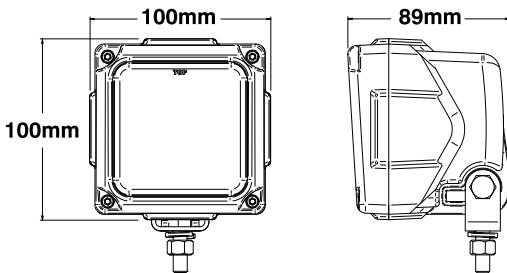
81418



Standard Mount



Vibration Mount



Bolt 5/16"

## 100mm WORK LIGHT • FLOOD

### FEATURES & BENEFITS

- 1200 lumens
- 3 wiring systems available (2 Wire, Tyco, Deutsch)
- Tempered hardened glass lens
- Available with standard mount & vibration mount
- Lightweight rugged polymer housing

### Specifications

Lumens:	1200
Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
IP Rating:	IP67
Weight:	0.33kg
Housing:	Polymer
Lens:	Hardened Glass
Connection:	2 Wire Pigtail • Tyco • Deutsch

### Part # Beam Pattern Connector Operating Voltage

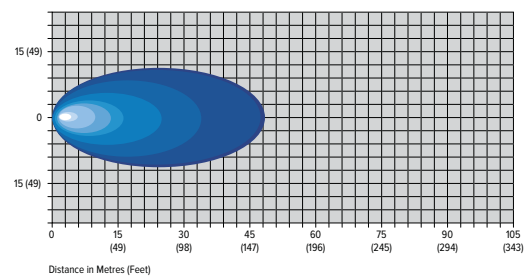
#### STANDARD MOUNT

81418	Flood	2 Wire	12Vdc 55W
82418	Flood	2 Wire	24Vdc 70W
81418/B	Flood	Tyco	12Vdc 55W
82418/B	Flood	Tyco	24Vdc 70W
81418/C	Flood	Deutsch	12Vdc 55W
82418C	Flood	Deutsch	24Vdc 70W

#### VIBRATION MOUNT

81418/V	Flood	2 Wire	12Vdc 55W
82418/V	Flood	2 Wire	24Vdc 70W
81418/V/B	Flood	Tyco	12Vdc 55W
82418/V/B	Flood	Tyco	24Vdc 70W
81418/V/C	Flood	Deutsch	12Vdc 55W
82418/V/C	Flood	Deutsch	24Vdc 70W

### Beam Pattern





## 100mm WORK LIGHT • SPOT

### FEATURES & BENEFITS

- 1200 lumens
- 3 wiring systems available (2 Wire, Tyco, Deutsch)
- Tempered hardened glass lens
- Available with standard mount & vibration mount
- Lightweight rugged polymer housing

### Specifications

Lumens:	1200
Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
IP Rating:	IP67
Weight:	0.33kg
Housing:	Polymer
Lens:	Hardened Glass
Connection:	2 Wire Pigtail • Tyco • Deutsch

Part #	Beam Pattern	Connector	Operating Voltage
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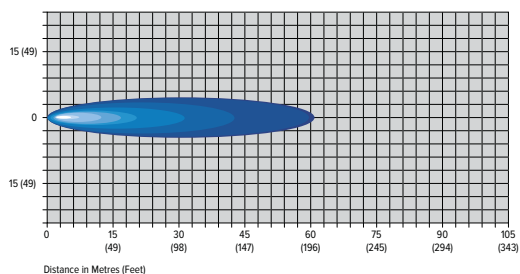
#### STANDARD MOUNT

81419	Spot	2 Wire	12Vdc 55W
82419	Spot	2 Wire	24Vdc 70W
81419/B	Spot	Tyco	12Vdc 55W
82419/B	Spot	Tyco	24Vdc 70W
81419/C	Spot	Deutsch	12Vdc 55W
82419C	Spot	Deutsch	24Vdc 70W

#### VIBRATION MOUNT

81419/V	Spot	2 Wire	12Vdc 55W
82419/V	Spot	2 Wire	24Vdc 70W
81419/V/B	Spot	Tyco	12Vdc 55W
82419/V/B	Spot	Tyco	24Vdc 70W
81419/V/C	Spot	Deutsch	12Vdc 55W
82419/V/C	Spot	Deutsch	24Vdc 70W

### Beam Pattern



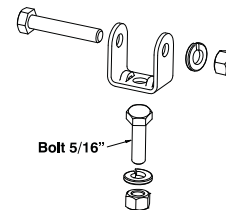
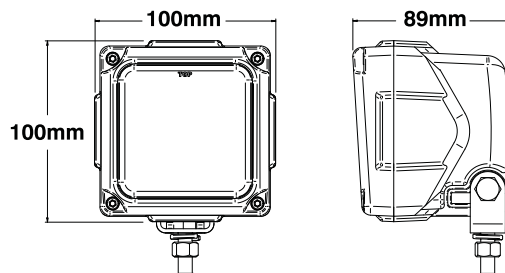
81419



Standard Mount



Vibration Mount



Bolt 5/16"

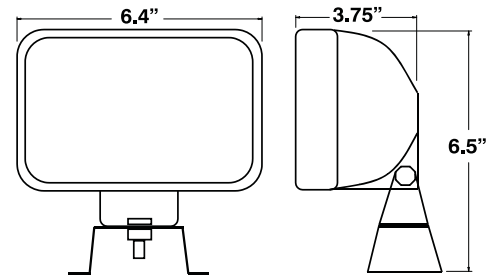


81015

## MODEL TB-100, 200 & 300 • WITHOUT HANDLE

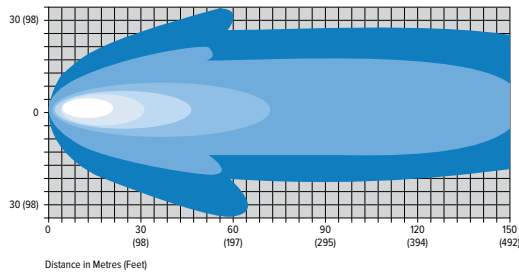
### FEATURES & BENEFITS

- Twin bulb system
- Polymer housing
- Bracket allows full tilt and 360° rotation adjustment
- Pre-wired with two H3 bulbs
- Sold individually

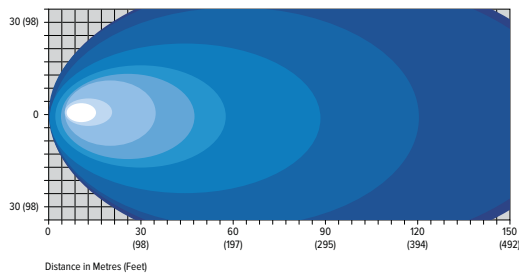


### Beam Patterns

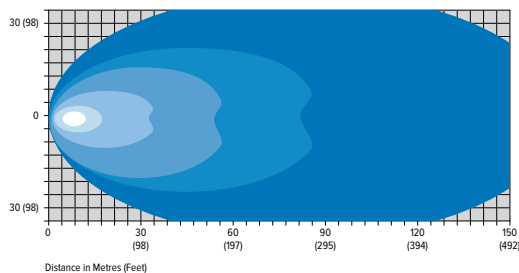
Trapezoid Pattern • Model TB-100



Flood Pattern • Model TB-200



Spot Pattern • Model TB-300



### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	9.2A @ 12Vdc 5.8A @ 24Vdc
Power Consumption:	2 x 55W or 2 x 70W
IP Rating:	IP67
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3 x 2

### Part # Beam Pattern Operating Voltage

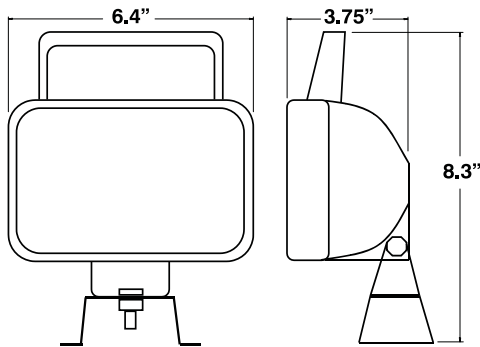
81015	Trapezoid	12Vdc 55W
82015	Trapezoid	24Vdc 70W
81016	Flood	12Vdc 55W
82016	Flood	24Vdc 70W
81018	Spot	12Vdc 55W
82018	Spot	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	



## MODEL TB-100H, 200H & 300H • WITH HANDLE

### FEATURES & BENEFITS

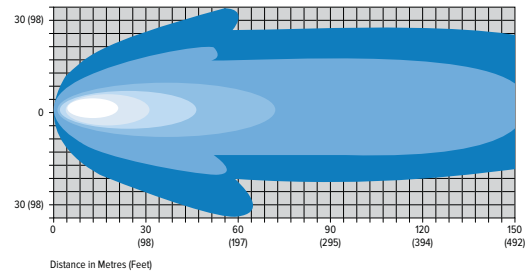
- Twin bulb system
- Polymer housing
- Bracket allows full tilt and 360° rotation adjustment
- Pre-wired with two H3 bulbs
- Sold individually



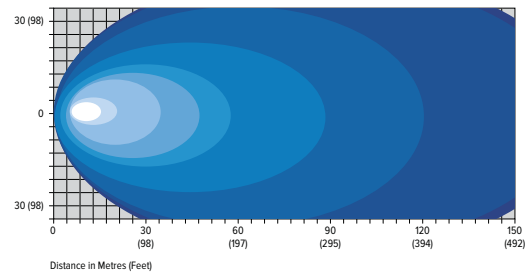
81019

### Beam Patterns

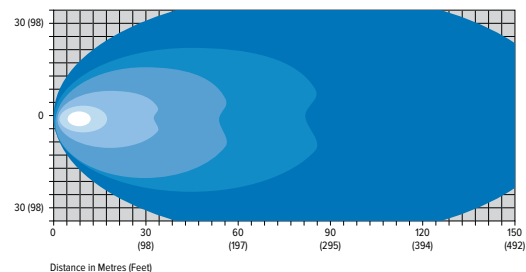
Trapezoid Pattern • Model TB-100H



Flood Pattern • Model TB-200H



Spot Pattern • Model TB-300H



### Specifications

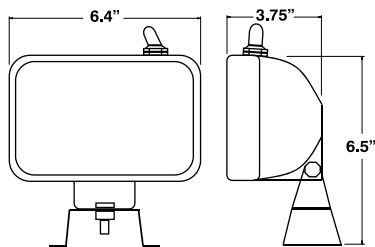
Operating Voltage:	12 or 24Vdc
Operating Current:	9.2A @ 12Vdc 5.8A @ 24Vdc
Power Consumption:	2 x 55W or 2 x 70W
IP Rating:	IP67
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3 x 2

Part #	Beam Pattern	Operating Voltage
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81019	Trapezoid	12Vdc 55W
82019	Trapezoid	24Vdc 70W
81017	Flood	12Vdc 55W
82017	Flood	24Vdc 70W
81022	Spot	12Vdc 55W
82022	Spot	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	



81021



## MODEL TB-200S • WITH SWITCH

### FEATURES & BENEFITS

- Twin bulb system
- Built-in ON/OFF switch
- Polymer housing
- Bracket allows full tilt and 360° rotation adjustment
- Pre-wired with two H3 bulbs
- Sold individually

### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	9.2A @ 12Vdc 5.8A @ 24Vdc
Power Consumption:	2 x 55W or 2 x 70W
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3 x 2

Part #	Beam Pattern	Operating Voltage
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81021	Flood	12Vdc 55W
82021	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	

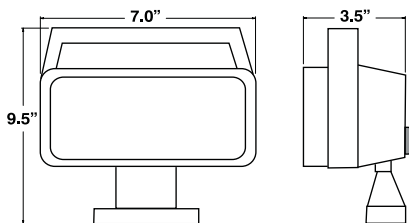
## MODEL SWL-200 • WITH SWITCH & HANDLE

### FEATURES & BENEFITS

- Built-in waterproof ON/OFF switch
- Polymer housing with handle
- Bracket allows full tilt and 270° rotation adjustment
- Pre-wired with H3 bulb
- Sold Individually



81056



### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Polycarbonate
Bulb:	H3

Part #	Beam Pattern	Operating Voltage
--------	--------------	-------------------

81056	Flood	12Vdc 55W
82056	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	





## MODEL SWL-100 • WITH SWITCH & HANDLE

### FEATURES & BENEFITS

- Built-in waterproof ON/OFF switch
- Polymer housing with handle
- Bracket allows full tilt and 270° rotation adjustment
- Pre-wired with H3 bulb
- Sold individually

### Specifications

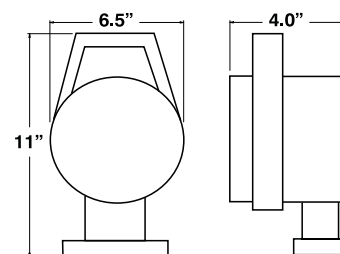
Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Polycarbonate
Bulb:	H3

### Part # Beam Pattern Operating Voltage

81055	Flood	12Vdc 55W
82055	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	



81055



## MODEL HWL-200 • WITH SWITCH

### FEATURES & BENEFITS

- With ON/OFF switch
- Polymer housing
- Bracket allows full tilt and 360° rotation adjustment
- Pre-wired with H3 bulb
- Sold individually

### Specifications

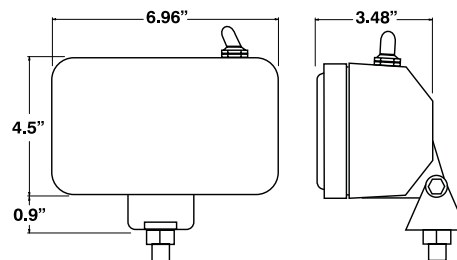
Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Polycarbonate
Bulb:	H3

### Part # Beam Pattern Operating Voltage

81139	Flood	12Vdc 55W
82139	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	

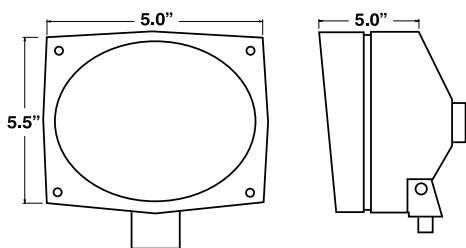


81139





81041



## MODEL ORH-200 • H3 HI-LO

### FEATURES & BENEFITS

- Polymer housing & hardened glass lens
- Bracket allows full tilt and 360° rotation adjustment
- Quick change bulb system
- Pre-wired with H3 bulb

### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3

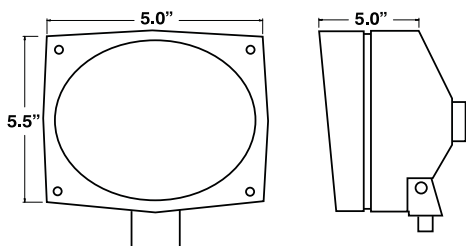
### Part # Beam Pattern Operating Voltage

81041	Spot	12Vdc 55W
82041	Spot	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	

## MODEL ORW-300 • H3 SINGLE BEAM



81042



### FEATURES & BENEFITS

- Polymer housing & hardened glass lens
- Bracket allows full tilt and 360° rotation adjustment
- Quick change bulb system
- Pre-wired with H3 bulb

### Specifications

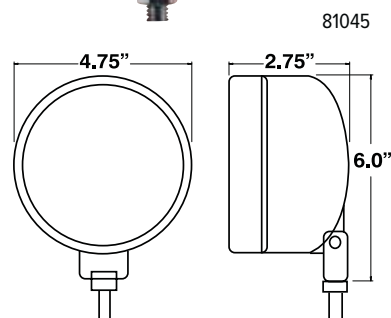
Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3

### Part # Beam Pattern Operating Voltage

81042	Flood	12Vdc 55W
82042	Flood	24Vdc 70W
81043	Flood	12Vdc 100W
82043	Flood	24Vdc 100W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	



## MODEL UFL-100 • PAR 36



### FEATURES & BENEFITS

- Corrosion proof rubber housing - durable & protective
- Lens can be removed for PAR 36 replacement
- Bracket allows full tilt and 360° rotation adjustment
- Hardened glass lens
- Pre-wired with H3 bulb

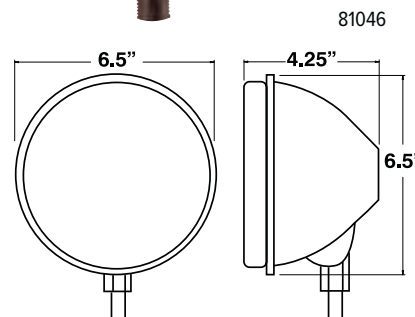
### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	EPDM Rubber
Lens:	Hardened Glass
Bulb:	H3

### Part # Beam Pattern Operating Voltage

81045	Flood	12Vdc 55W
82045	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	

## MODEL UFL-200 • PAR 46



### FEATURES & BENEFITS

- Corrosion proof rubber housing - durable & protective
- Lens can be removed for PAR 46 replacement
- Bracket allows full tilt and 360° rotation adjustment
- Hardened glass lens
- Pre-wired with H3 bulb

### Specifications

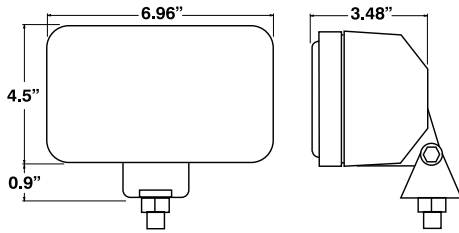
Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	EPDM Rubber
Lens:	Hardened Glass
Bulb:	H3

### Part # Beam Pattern Operating Voltage

81046	Flood	12Vdc 55W
82046	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	



81135



### FEATURES & BENEFITS

- Heavy duty polymer housing
- Ideal for fitting forklifts, agriculture machinery & heavy duty applications
- Bracket allows full tilt and 360° rotation adjustment
- Hardened glass lens
- Pre-wired with H3 bulb

### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3

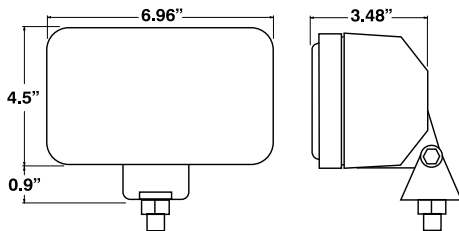
### Part # Beam Pattern Operating Voltage

81135	Trapezoid	12Vdc 55W
82135	Trapezoid	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	

## MODEL HWL-200



81136



### FEATURES & BENEFITS

- Heavy duty polymer housing
- Ideal for fitting forklifts, agriculture machinery & heavy duty applications
- Bracket allows full tilt and 360° rotation adjustment
- Hardened glass lens
- Pre-wired with H3 bulb

### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3

### Part # Beam Pattern Operating Voltage

81136	Flood	12Vdc 55W
82136	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	



## MODEL HWL-300

### FEATURES & BENEFITS

- Heavy duty polymer housing
- Ideal for fitting forklifts, agriculture machinery & heavy duty applications
- Bracket allows full tilt and 360° rotation adjustment
- Hardened glass lens
- Pre-wired with H3 bulb

### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3

Part #	Beam Pattern	Operating Voltage
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81137	Spot	12Vdc 55W
82137	Spot	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	

## MODEL HWL-400

### FEATURES & BENEFITS

- Heavy duty polymer housing
- Ideal for fitting forklifts, agriculture machinery & heavy duty applications
- Bracket allows full tilt and 360° rotation adjustment
- Hardened glass lens
- Pre-wired with H3 bulb

### Specifications

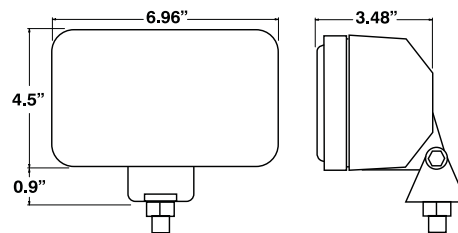
Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3

Part #	Beam Pattern	Operating Voltage
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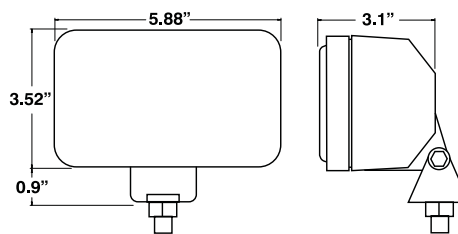
81138	Trapezoid	12Vdc 55W
82138	Trapezoid	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	



81137

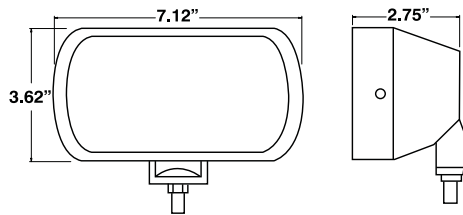


81138





81030



### FEATURES & BENEFITS

- Heavy duty polymer housing
- Ideal for fitting forklifts, agriculture machinery & heavy duty applications
- Bracket allows full tilt and 360° rotation adjustment
- Hardened glass lens
- Pre-wired with H3 bulb

### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Polymer
Lens:	Hardened Glass
Bulb:	H3

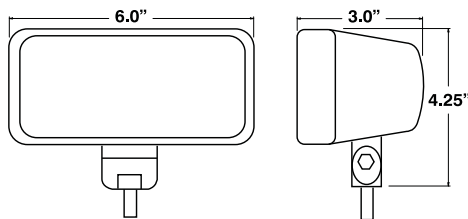
Part #	Beam Pattern	Operating Voltage
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81030	Flood	12Vdc 55W
82030	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	

## MODEL RWL-300



81034



### FEATURES & BENEFITS

- Rubber housing
- Ideal for fitting forklifts, agriculture machinery & heavy duty applications
- Bracket allows full tilt and 360° rotation adjustment
- Hardened glass lens
- Pre-wired with H3 bulb

### Specifications

Operating Voltage:	12 or 24Vdc
Operating Current:	4.6A @ 12Vdc 2.9A @ 24Vdc
Power Consumption:	55W or 70W
Housing:	Rubber
Lens:	Hardened Glass
Bulb:	H3

Part #	Beam Pattern	Operating Voltage
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81034	Flood	12Vdc 55W
82034	Flood	24Vdc 70W
85066	H3 Bulb • 12V 55W	
85070	H3 Bulb • 24V 70W	

# FORWARD LIGHTING

Pages 52-67





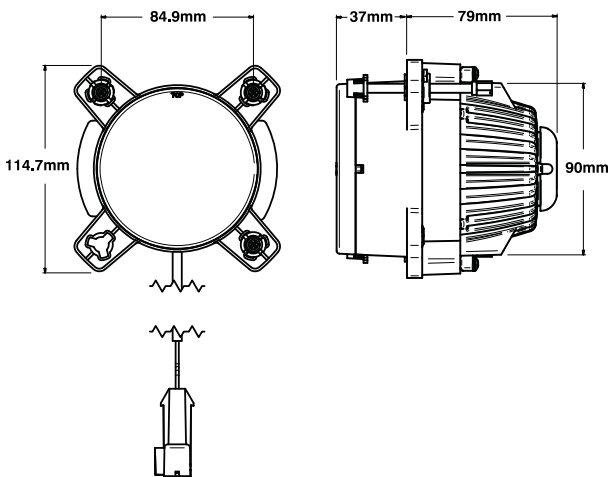
## LOW & HIGH BEAM HEADLIGHT • 90mm



71075



71079



### FEATURES & BENEFITS

- Bright, white light - enhances illumination and reduces driver fatigue
- Total internal reflector - improves driver's visibility, enhancing safety
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Extremely low current draw - energy efficient, save on fuel costs as it consumes less energy (13W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 12Vdc & 24Vdc - can be used on light duty trucks to heavy duty vehicles
- Hassle-free installation - "drop-in" design easily replaces standard 90mm headlight systems without any need for retooling
- SAE/DOT compliant - compliant to US/CDN federal regulations
- 50,000+ hours LED service life & 3 year warranty - long lasting investment, quality product



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	Low Beam: 1.1A @ 12Vdc • 0.55A @ 24Vdc High Beam: 1.2A @ 12Vdc • 0.6A @ 24Vdc
Power Consumption:	Low Beam: 13W High Beam: 14W
Temperature Range:	-40°C to +65°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	0.9kg
Housing:	Die-Cast Aluminum, Black Polycarbonate
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	Low Beam: 3 Position Connector High Beam: 2 Position Connector
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
SAE/DOT Compliance:	FMVSS108 and CMVSS108
EMC Rated:	EMC EN 13309: 2010

Part #	Description	Operating Voltage
71075	Low Beam 90mm LED	12 - 24Vdc 13W
71079	High Beam 90mm LED	12 - 24Vdc 14W

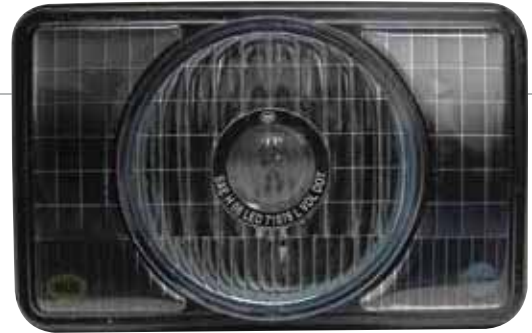




## LOW & HIGH BEAM HEADLIGHT • 4" x 6"

### FEATURES & BENEFITS

- Bright, white light - enhances illumination and reduces driver fatigue
- Total internal reflector - improves driver's visibility, enhancing safety
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Extremely low current draw - energy efficient, save on fuel costs as it consumes less energy (13W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 12Vdc & 24Vdc - can be used on light duty trucks to heavy duty vehicles
- Hassle-free installation - "drop-in" design easily replaces standard 4" x 6" (165mm) headlight systems without any need for retooling
- SAE/DOT compliant - compliant to US/CDN federal regulations
- 50,000+ hours LED service life & 3 year warranty - long lasting investment, quality product



71076/1



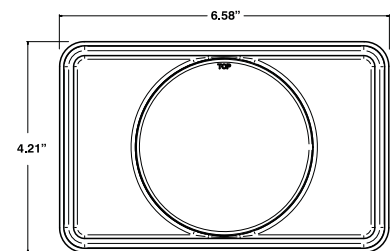
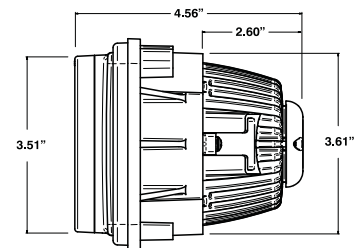
71078/1

### Specifications

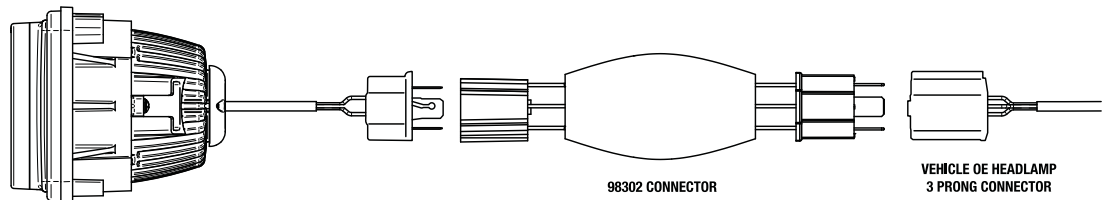
Operating Voltage:	12 - 24Vdc
Operating Current:	Low Beam: 1.1A @ 12Vdc • 0.55A @ 24Vdc High Beam: 1.2A @ 12Vdc • 0.6A @ 24Vdc
Power Consumption:	Low Beam: 13W High Beam: 14W
Temperature Range:	-40°C to +65°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	0.94kg
Housing:	Die-Cast Aluminum, Black Polycarbonate
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	Low Beam: 3 Position Connector High Beam: 2 Position Connector
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
SAE/DOT Compliance:	FMVSS108 and CMVSS108
EMC Rated:	EMC EN 13309: 2010

### Part # Description Operating Voltage

71076/1	Low Beam 165mm LED	12 - 24Vdc 13W
71078/1	High Beam 165mm LED	12 - 24Vdc 14W



Each 165mm low beam or high beam headlight comes with a wire harness adapter that prevents vehicles with bulb outage warning indicators from engaging due to low current draw.

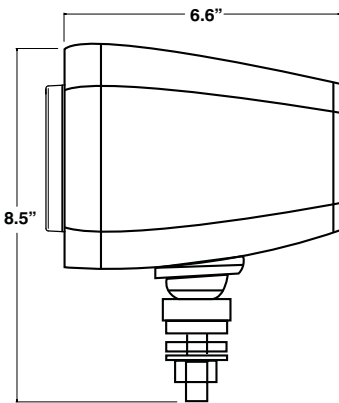
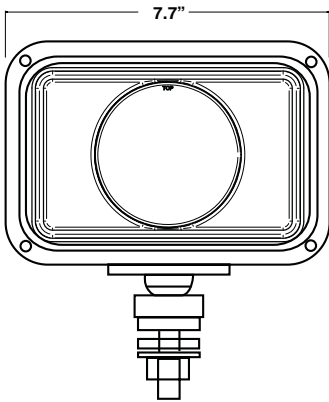




71082



71083



## LOW & HIGH BEAM AUXILIARY “ON ROAD” LIGHT

### FEATURES & BENEFITS

- Bright, white light - enhances illumination and reduces driver fatigue
- Total internal reflector - improves driver's visibility, enhancing safety
- IP68 / IP69K - dust protected and waterproof to 2m with the ability to resist ingress of high temperature and water pressure
- Extremely low current draw - energy efficient, save on fuel costs as it consumes less energy (13W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 12Vdc & 24Vdc - can be used on light duty trucks to heavy duty vehicles
- SAE/DOT compliant - compliant to US/CDN federal regulations
- 50,000+ hours LED service life & 3 year warranty - long lasting investment, quality product



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	Low Beam: 1.1A @ 12Vdc • 0.55A @ 24Vdc High Beam: 1.2A @ 12Vdc • 0.6A @ 24Vdc
Power Consumption:	Low Beam: 13W High Beam: 14W
Temperature Range:	-40°C to +65°C
IP Rating:	IP68
Environmental Rating:	IP69K
Weight:	1.88kg
Housing:	Die-Cast Aluminum, Black Polycarbonate
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	Low Beam: 3 Position Connector High Beam: 2 Position Connector
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
SAE/DOT Compliance:	FMVSS108 and CMVSS108
EMC Rated:	EMC EN 13309: 2010

Part #	Description	Operating Voltage
71082	Low Beam LED	12 - 24Vdc 13W
71083	High Beam LED	12 - 24Vdc 14W



## HIGH/LOW BEAM HEADLIGHT • 7" ROUND

### FEATURES & BENEFITS

- Bright, white light - enhances illumination and reduces driver fatigue
- Total internal reflector - improves driver's visibility, enhancing safety
- Integrated high/low beam - low beam remains illuminated when high beam selected
- Extremely low current draw - energy efficient, save on fuel costs as it consumes less energy (13W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 12Vdc & 24Vdc - can be used on light duty trucks to heavy duty vehicles
- SAE/DOT compliant - compliant to US/CDN federal regulations
- 50,000+ hours LED service life & 3 year warranty - long lasting investment, quality product



71077/B



71077

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.1A @ 12Vdc 0.55A @ 24Vdc
Power Consumption:	13W
Temperature Range:	-40°C to +65°C
IP Rating:	IP67
Weight:	1.5kg
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	3 Position Connector
SAE/DOT Compliance:	FMVSS108 and CMVSS108

Part #	Description	Operating Voltage
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#### CHROME REFLECTOR

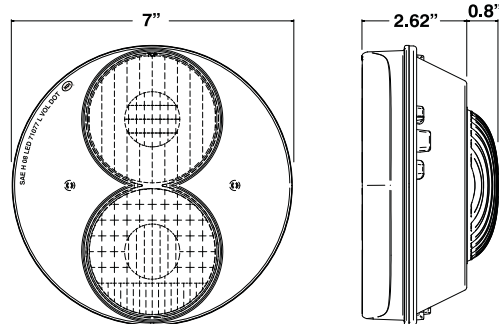
71077	High/Low Beam 7" Round LED	12 - 24Vdc 13W • Single
71077/2	High/Low Beam 7" Round LED	12 - 24Vdc 13W • Pair

#### BLACK REFLECTOR

71077/B	High/Low Beam 7" Round LED	12 - 24Vdc 13W • Single
71077/B/2	High/Low Beam 7" Round LED	12 - 24Vdc 13W • Pair

#### BEZEL OPTIONS

7016-CB	Headlight 7" Round Chrome Bezel
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## FOG & DRIVING LIGHTS



83231/B



83232/B



83231/C



83232/C

### FEATURES & BENEFITS

- Compact design
- Kit includes 2 lights, mounting bracket & wiring harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.1A @ 12Vdc 0.55A @ 24Vdc
Power Consumption:	13W
Temperature Range:	-40°C to +65°C
Connection:	2 Position Connector
SAE/DOT Compliance:	FMVSS108 and CMVSS108

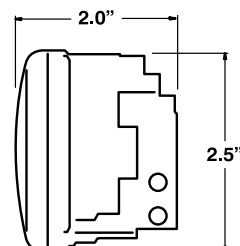
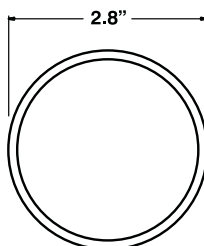
Part #	Description	Operating Voltage
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#### BLACK REFLECTOR

83231/B	Fog Light 70mm LED	12 - 24Vdc 13W
83232/B	Driving Light 70mm LED	12 - 24Vdc 13W

#### CHROME REFLECTOR

83231/C	Fog Light 70mm LED	12 - 24Vdc 13W
83232/C	Driving Light 70mm LED	12 - 24Vdc 13W





## FOG & DRIVING LIGHTS

### FEATURES & BENEFITS

- Compact design
- Kit includes 2 lights, mounting bracket & wiring harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	Fog Light: 0.75A @ 12Vdc • 0.38A @ 24Vdc Driving Light: 1.0A @ 12Vdc • 0.5A @ 24Vdc
Power Consumption:	Fog Light: 9W Driving Light: 12W
Temperature Range:	-40°C to +65°C
Connection:	2 Position Connector
SAE/DOT Compliance:	FMVSS108 and CMVSS108

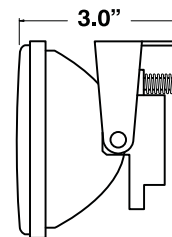
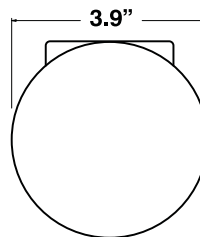
Part #	Description	Operating Voltage
83236	Fog Light 100mm LED	12 - 24Vdc 9W
83237	Driving Light 100mm LED	12 - 24Vdc 12W



83236



83237



## FOG LIGHTS

### FEATURES & BENEFITS

- Compact design
- Kit includes 2 lights, mounting bracket & wiring harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.1A @ 12Vdc 0.55A @ 24Vdc
Power Consumption:	13W
Temperature Range:	-40°C to +65°C
Connection:	2 Position Connector
SAE/DOT Compliance:	FMVSS108 and CMVSS108

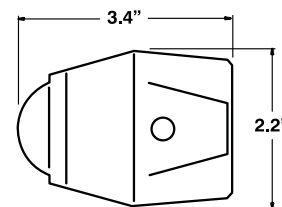
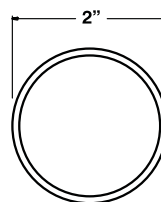
Part #	Description	Operating Voltage
83233	Fog Light 50mm LED	12 - 24Vdc 13W
83234	Grey Bezel • Sold Separately	



83234



83233





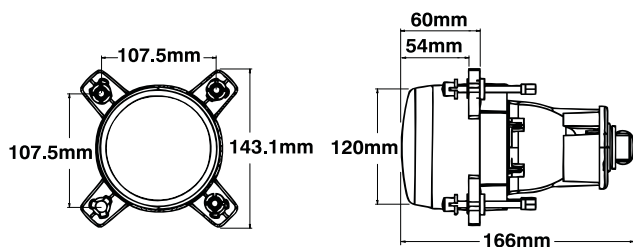
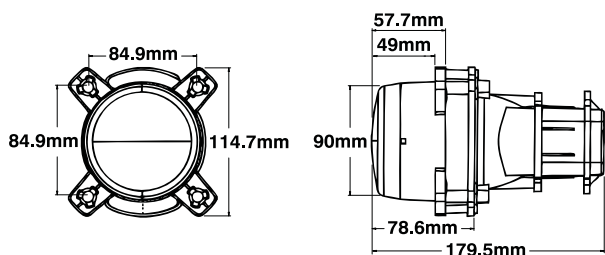
## LOW BEAM HEADLIGHT



71052

### FEATURES & BENEFITS

- Chrome inner reflector design
- Black aluminum alloy die-cast housing & weatherproof design
- Three tab adjustment plus one mounting tab
- Includes long life Xenon D1S 35W capsule, external D1S ballast & heavy duty cable
- SAE/DOT compliant - compliant to US/CDN federal regulations



### Specifications

Operating Voltage:	12Vdc
Operating Current:	2.9A
Power Consumption:	35W
Bulb:	D1S 12V 35W 3.5A
Housing:	Die-Cast Aluminum, Black Alloy
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

71052	Low Beam 90mm HID/Xenon • D1S 12V 35W
71056	Low Beam 120mm HID/Xenon • D1S 12V 35W
85105	Bulb Capsule • D1S 12V 35W 3.5A
98063	Ballast • D1S 12V 35W
98135	Adjustment Bolts (Can Be Adjusted From The Front & Back)



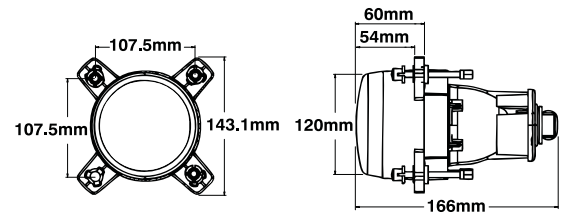
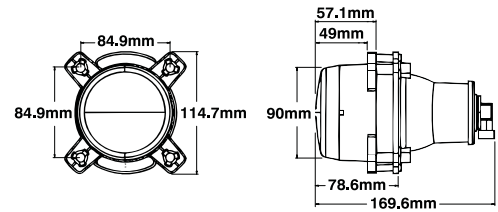
## LOW & HIGH BEAM HEADLIGHTS

### FEATURES & BENEFITS

- Chrome inner reflector design
- Black aluminum alloy die-cast housing & weatherproof design
- Three tab adjustment plus one mounting tab
- Includes an easy access/easy change bayonet style H9 halogen bulb or long life H11 bulb
- SAE/DOT compliant - compliant to US/CDN federal regulations



71057



### Specifications

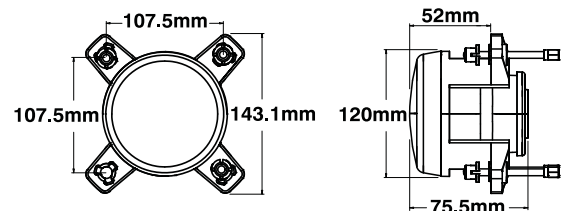
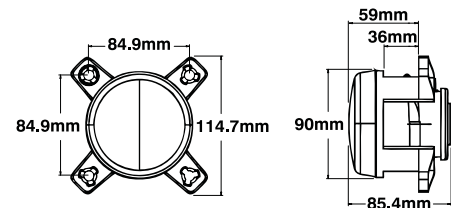
Operating Voltage:	12 or 24Vdc
Operating Current:	Low Beam: 4.6A @ 12Vdc • 2.3A @ 24Vdc High Beam: 5.4A @ 12Vdc • 2.7A @ 24Vdc
Power Consumption:	Low Beam: 55W High Beam: 65W
Bulb:	H9 12V 65W H11 12V 55W
Housing:	Die-Cast Aluminum, Black Alloy
SAE/DOT Compliance:	FMVSS108 and CMVSS108

Part #	Description	Operating Voltage
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71057	Low Beam 90mm Halogen H11	12Vdc 55W
71058	Low Beam 120mm Halogen H11	12Vdc 55W
71051	High Beam 90mm Halogen H9	12Vdc 65W • Complex Reflector
71055	High Beam 120mm Halogen H9	12Vdc 65W • Complex Reflector
71065/15	Low Beam 90mm Halogen H11 Left Hand Traffic • E Mark • 15°	24Vdc 55W
71066	High Beam 90mm Halogen H11	24Vdc 55W • E Mark
85115	H9 Bulb • 12V 65W	
85116	H11 Bulb • 12V 55W	
98135	Adjustment Bolts (Can Be Adjusted From The Front & Back)	



71051



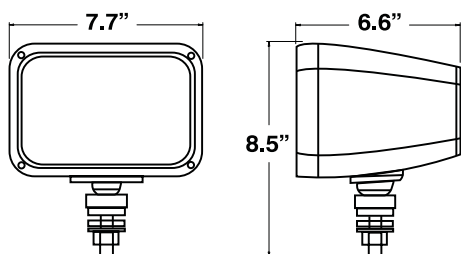


71007

## HIGH/LOW BEAM HEADLIGHT ASSEMBLY

### FEATURES & BENEFITS

- Ideal for mining, forestry, agriculture & construction
- Crack resistant polycarbonate or glass lens
- Pre-wired with H4 bulb
- Anti-vibration mounting hardware reduces shock & increases service life
- Sold individually
- 12Vdc & 24Vdc - can be used on light duty trucks to heavy duty vehicles
- SAE/DOT compliant - compliant to US/CDN federal regulations



Specifications	71007	72007
Operating Voltage:	12Vdc	24Vdc
Operating Current:	5.0/4.6A	3.1/3.0A
Power Consumption:	60/55W	75/70W
Bulb:	H4 12V 60/55W H4 24V 75/70W	
Housing:	Die-Cast Aluminum, Black Polycarbonate	
SAE/DOT Compliance:	FMVSS108 and CMVSS108	

Part #	Description	Operating Voltage
71007	High/Low Beam Halogen H4	12Vdc 60/55W
72007	High/Low Beam Halogen H4	24Vdc 75/70W
85086	H4 Bulb • 12V 60/55W	
85094	H4 Bulb • 24V 75/70W	





## HEADLIGHT ASSEMBLY • 5" x 7" (200mm)

### FEATURES & BENEFITS



- Bright, white halogen light - delivers superior illumination, compared to traditional sealed beam headlights
- Complex reflector technology - produces a longer, wider and larger beam of light, improving driver visibility and safety
- Standard H4 connector - plug & play into existing sealed beam connection
- Replaceable standard H7 & H1 bulbs - easily replace the bulb, not the entire unit, saving time and money
- High temperature nylon reflector & polycarbonate lens - strong, durable & chip resistant
- SAE/DOT compliant - compliant to US/CDN federal regulations
- 2 year warranty - long lasting investment, quality product

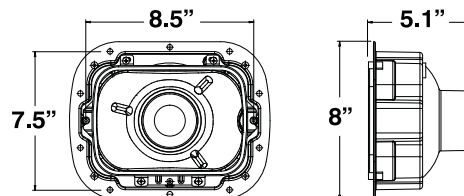


71022



### Specifications

Operating Voltage:	12Vdc
Operating Current:	Low Beam: 4.6A @ 12Vdc High Beam: 4.6A @ 12Vdc
Power Consumption:	Low Beam: 55W High Beam: 55W
Temperature Range:	-20°C to +65°C
IP Rating:	IP65
Weight:	0.6kg
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Connection:	3 Position Connector
Bulb:	H1 12V 55W H7 12V 55W
Housing:	High Temperature Nylon Reflector
SAE/DOT Compliance:	FMVSS108 and CMVSS108

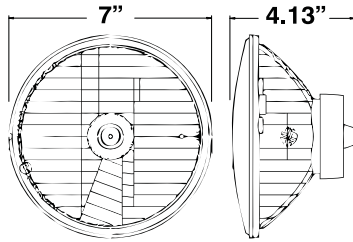


### Part # Description Operating Voltage

71022	Headlight Assembly • Left	12Vdc 55W
71023	Headlight Assembly • Right	12Vdc 55W
71024	Headlight Assembly Kit Includes 71022 & 71023	12Vdc 55W
85045	H1 Bulb • 12V 55W • High Beam	
85101	H7 Bulb • 12V 55W • Low Beam	



81125



## COMPLEX REFLECTOR HEADLIGHT • 7" ROUND

### FEATURES & BENEFITS

- Die-cast aluminum housing - strong and durable for tough conditions
- Solid glass lens with chrome bulb shield for maximum performance
- Up to 60% more light output than standard sealed beam headlamps
- Applications include all vehicles using sealed beams today
- Lights can be upgraded for off-road applications
- Sold as a kit with 2 lights & 2 bulbs
- SAE/DOT compliant - compliant to US/CDN federal regulations



### Specifications

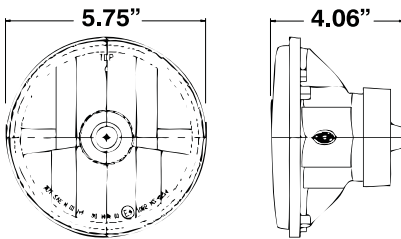
Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H4 12V 60/55W

### Part # Description

71125X	7" Round Complex Reflector Kit H4	12Vdc 60/55W
85086	H4 Bulb	12V 60/55W
85234	Bulb Upgrade • XenonMax H4 100%	12V 60/55W (DOT)
85089	Bulb Upgrade For Off-Road Use	H4 100/55W
85090	Bulb Upgrade For Off-Road Use	H4 100/80W
81125	Single Lamp • No Bulb	



81126



## COMPLEX REFLECTOR HEADLIGHT • 5 3/4" ROUND

### FEATURES & BENEFITS

- Die-cast aluminum housing
- Solid glass lens with chrome bulb shield for maximum performance
- Up to 60% more light output than standard sealed beam headlamps
- Applications include all vehicles using sealed beams today
- Lights can be upgraded for off-road applications
- Sold as a kit with 2 lights & 2 bulbs
- SAE/DOT compliant - compliant to US/CDN federal regulations



### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H4 12V 60/55W

### Part # Description

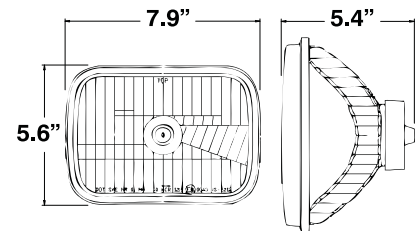
71126X	5 3/4" Round Complex Reflector Kit H4	12Vdc 60/55W
85086	H4 Bulb	12V 60/55W
85234	Bulb Upgrade • XenonMax H4 100%	12V 60/55W (DOT)
85089	Bulb Upgrade For Off-Road Use	H4 100/55W
85090	Bulb Upgrade For Off-Road Use	H4 100/80W
81126	Single Lamp • No Bulb	



## COMPLEX REFLECTOR HEADLIGHT • 5" X 7"



81127



### FEATURES & BENEFITS

- Die-cast aluminum housing
- Solid glass lens with chrome bulb shield for maximum performance
- Up to 60% more light output than standard sealed beam headlamps
- Applications include all vehicles using sealed beams today
- Lights can be upgraded for off-road applications
- Sold as a kit with 2 lights & 2 bulbs
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H4 12V 60/55W

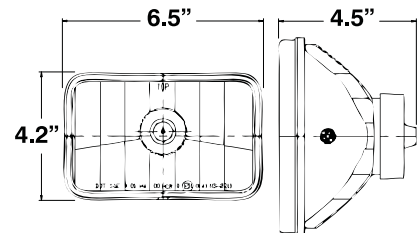
### Part # Description

71127X	200mm Rectangular Complex Reflector Kit H4	12Vdc 60/55W
85086	H4 Bulb	12V 60/55W
85234	Bulb Upgrade • XenonMax H4 100%	12V 60/55W (DOT)
85089	Bulb Upgrade For Off-Road Use	H4 100/55W
85090	Bulb Upgrade For Off-Road Use	H4 100/80W
81127	Single Lamp • No Bulb	

## COMPLEX REFLECTOR HEADLIGHT • 4" X 6"



81128



### FEATURES & BENEFITS

- Die-cast aluminum housing
- Solid glass lens with chrome bulb shield for maximum performance
- Up to 60% more light output than standard sealed beam headlamps
- Applications include all vehicles using sealed beams today
- Lights can be upgraded for off-road applications
- Sold as a kit with 2 lights & 2 bulbs
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H4 12V 60/55W

### Part # Description

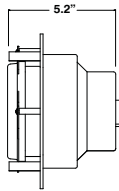
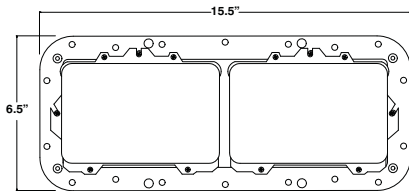
71128X	200mm Rectangular Complex Reflector Kit H4	12Vdc 60/55W
85086	H4 Bulb	12V 60/55W
85234	Bulb Upgrade • XenonMax H4 100%	12V 60/55W (DOT)
85089	Bulb Upgrade For Off-Road Use	H4 100/55W
85090	Bulb Upgrade For Off-Road Use	H4 100/80W
81128	Single Lamp • No Bulb	

FORWARD LIGHTING

HALOGEN



71005/L



## HALOGEN COMPLEX REFLECTOR HEADLIGHT ASSEMBLY KIT • 4" x 6"

### FEATURES & BENEFITS

- Popular emergency vehicle assembly
- Suitable for all 4" x 6" - 4 headlight system upgrades
- Co-polymer bucket
- Galvanized metal buckets
- Triple chrome-plated plastic bezel - will not rust
- Packed individually - 8 per carton
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

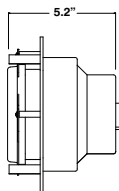
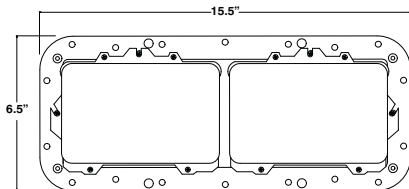
Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H4 12V 60/55W

### Part # Description

71005/L	High/Low Beam 165mm H4 • Left	12Vdc 60/55W
71005/R	High/Low Beam 165mm H4 • Right	12Vdc 60/55W
85086	H4 Bulb	12V 60/55W
7015-10030H/L	Bucket Only • Left	
7015-10030H/R	Bucket Only • Right	
7015-CB	Chrome Bezel	



71076/R/1



## LED HEADLIGHT ASSEMBLY KIT • 4" x 6"

### FEATURES & BENEFITS

- Popular emergency vehicle assembly
- Suitable for all 4" x 6" - 4 headlight system upgrades
- Co-polymer bucket
- Galvanized metal buckets
- Triple chrome-plated plastic bezel - will not rust
- Packed individually - 8 per carton
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	1.1A @ 12Vdc 0.55A @ 24Vdc
Power Consumption:	13W

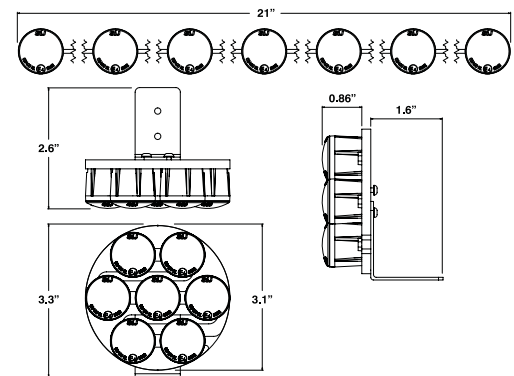
### Part # Description

71076/L/1	High/Low Beam 165mm LED • Left	12Vdc 13W
71076/R/1	High/Low Beam 165mm LED • Right	12Vdc 13W
7015-10030H/L	Bucket Only • Left	
7015-10030H/R	Bucket Only • Right	
7015-CB	Chrome Bezel	

## LED DRL KIT



45210



### FEATURES & BENEFITS

- 7 high power LEDs
- Low power consumption
- Waterproof for exterior use
- Automatic switch-on/switch-off function
- Kit includes 2 light sets, wiring, mounting brackets, and installation instructions
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12Vdc
Operating Current:	1.2A
Power Consumption:	14W
Weight:	0.79kg
Housing:	Metal
Lens:	Glass
Connection:	Circuit Control Wire Kit • Easy Install 16 GA Wire
Dimensions:	2.6" x 3.1" • Circled • Individual LED 1" Diameter
SAE/DOT Compliance:	FMVSS108 and CMVSS108

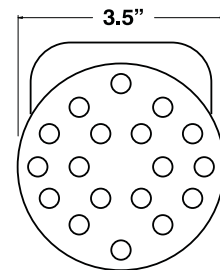
Part #	Description
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45210	LED Daytime Running Light Kit • 7 String • 12Vdc
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## LED DRL KIT



45215



### FEATURES & BENEFITS

- 18 high power LEDs
- Low power consumption
- Waterproof for exterior use
- Automatic switch-on/switch-off function
- Kit includes 2 light sets, wiring, mounting brackets, and installation instructions
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

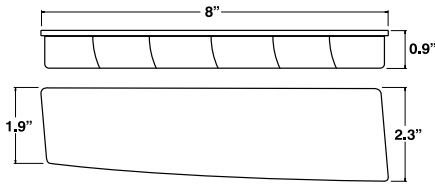
Operating Voltage:	12 - 24Vdc
Operating Current:	0.5A @ 12Vdc • 0.25A @ 24Vdc
Power Consumption:	6W
Weight:	0.15kg
Housing:	ABS
Lens:	Polycarbonate
SAE/DOT Compliance:	FMVSS108 and CMVSS108

Part #	Description
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45215	LED Daytime Running Light Kit • 12 - 24Vdc
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45220



## LED DRL KIT

### FEATURES & BENEFITS

- 6 high power LEDs
- Low power consumption
- Waterproof for exterior use
- Automatic switch-on/switch-off function
- Kit includes 2 lights, wiring, mounting brackets, and installation instructions
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

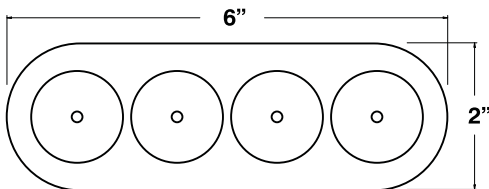
Operating Voltage:	12Vdc
Operating Current:	0.6A
Power Consumption:	7W
Weight:	0.17kg
Housing:	ABS
Lens:	Polycarbonate
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

45220	LED Daytime Running Light Kit • 12Vdc
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45221



## LED DRL KIT

### FEATURES & BENEFITS

- 4 high power LEDs
- Low power consumption
- Waterproof for exterior use
- Automatic switch-on/switch-off function
- Kit includes 2 lights, wiring, mounting brackets, and installation instructions
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.6A
Power Consumption:	7W
Weight:	0.15kg
Housing:	ABS
Lens:	Polycarbonate
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

45221	LED Daytime Running Light Kit • 12Vdc
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# AUXILIARY LIGHTS

Pages 68-77





## AUXILIARY DRIVING LIGHT KITS

FOR OFF-ROAD USE ONLY



83227  
HID/Xenon



83225  
Halogen

### FEATURES & BENEFITS

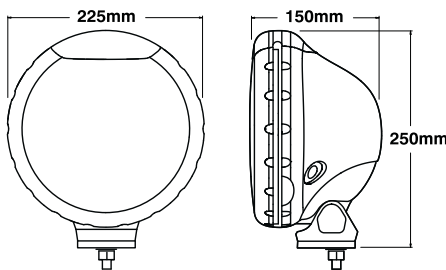
- Unique glare shield
- Advanced free form reflectors
- Stainless steel bolts & nuts
- Polycarbonate lens is virtually unbreakable, resistant to chemicals, for the most demanding conditions
- Versatile four position mounting system - ability to mount in 4 different directions
- Pre-wired with waterproof connectors
- Extra tough glass reinforced polymer housing
- Takes 12V D1S 35W bulb (HID/Xenon kit only)
- HID/Xenon kit includes 2 lights with pre-wired waterproof connectors, bulbs, ballasts, wiring harness, switch & relay
- Halogen kit includes 2 lights with pre-wired waterproof connectors, bulbs, wiring harness, switch & relay

### Specifications

Operating Voltage:	12Vdc
Operating Current:	8.3A
Power Consumption:	100W

### Part # Description

83227	Driving Light Kit 225mm Round HID/Xenon • D1S 12V 35W
83228	Medium Flood Kit 225mm Round HID/Xenon • D1S 12V 35W
83225	Driving Light Kit 225mm Round H1 Halogen • 12Vdc 100W
83226	Medium Flood Kit 225mm Round H1 Halogen • 12Vdc 100W
85046	H1 Bulb • 12V 100W
85105	Bulb Capsule • D1S 12V 35W 3.5A
98063	Ballast • D1S 12V 35W







## MODEL CAL-200

### FEATURES & BENEFITS

- Heavy duty die-cast metal housing
- Very compact - fits smaller spaces
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

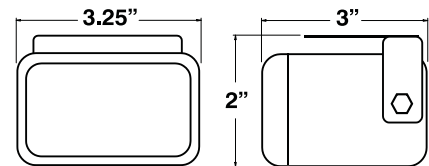
Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

83035	Driving Light Halogen H3 • 12Vdc 55W
85066	H3 Bulb • 12V 55W



83035



## MODEL CAL-300

### FEATURES & BENEFITS

- Heavy duty die-cast metal housing, chrome finish
- Powerful projector lamp
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

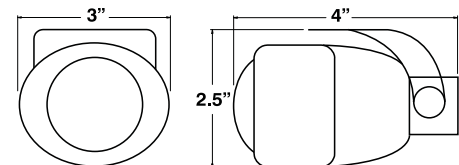
Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

83040	Chrome Fog Light Halogen H3 • 12Vdc 55W
85066	H3 Bulb • 12V 55W



83040

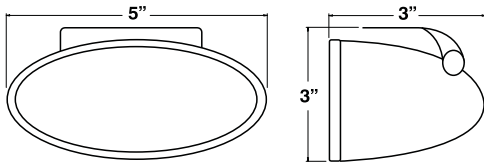




83041

### FEATURES & BENEFITS

- Heavy duty die-cast metal housing, chrome finish
- Polycarbonate lens
- Powerful projector lamp
- Kit includes 2 lamps with bulbs, switch, relay & harness
- CMVSS - compliant to CDN federal regulations



### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3

### Part # Description

83041	Blue Fog Light Halogen H3 • 12Vdc 55W
85066	H3 Bulb • 12V 55W

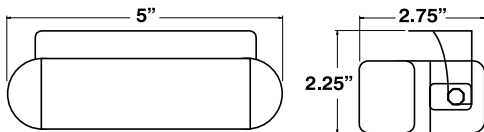
## MODEL CAL-400



83032

### FEATURES & BENEFITS

- Heavy duty die-cast metal housing
- Glass rainbow lens for enhanced visibility
- Projects crisp blue-white light for quality precision light
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations



### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

83032	Fog Light Halogen H3 • 12Vdc 55W
85066	H3 Bulb • 12V 55W

## MODEL CAL-500



## MODEL CAL-800

### FEATURES & BENEFITS

- Heavy duty round metal housing
- Glass lens
- Very compact, ideal for limited spaces
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

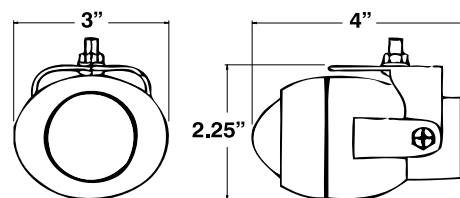
Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

83043	Fog Light Halogen H3 • 12Vdc 55W
85066	H3 Bulb • 12V 55W



83043



## MODEL CAL-1000

### FEATURES & BENEFITS

- Lightweight polymer housing
- Complex reflector
- Reversible mount
- Combination glass fog/driving lens
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations (83081 only)

### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108 (83081 only)

### Part # Description

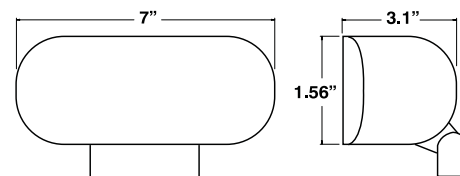
83080	Fog/Driving Light Halogen H3 • 12Vdc 55W (off-road use only)
83081	Clear Fog Light Halogen H3 • 12Vdc 55W (SAE/DOT compliant)
85066	H3 Bulb • 12V 55W



83080



83081



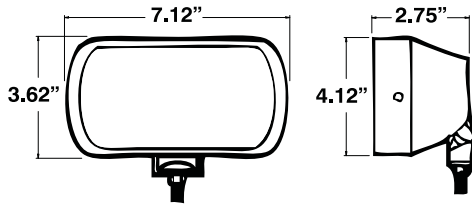


83045

## MODEL RAL-100

### FEATURES & BENEFITS

- Lightweight polymer housing
- Precision glass lens
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations



### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

83045	Driving Light Halogen H3 • 12Vdc 55W
83046	Clear Fog Light Halogen H3 • 12Vdc 55W
83047	Amber Fog Light Halogen H3 • 12Vdc 55W (available - call for details)
85066	H3 Bulb • 12V 55W

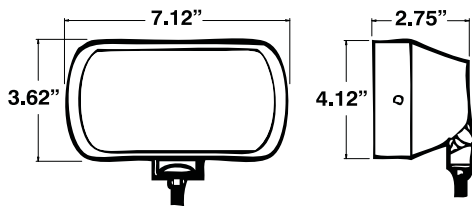


83065

## MODEL RAL-200

### FEATURES & BENEFITS

- Lightweight polymer housing
- Shatterproof lexan lens
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations



### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

83065	Driving Light Halogen H3 • 12Vdc 55W
83066	Clear Fog Light Halogen H3 • 12Vdc 55W
83067	Amber Fog Light Halogen H3 • 12Vdc 55W
85066	H3 Bulb • 12V 55W



## MODEL MAL-300

### FEATURES & BENEFITS

- Lightweight round polymer housing
- Versatile single-bolt mounting system
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

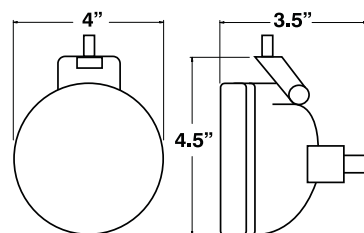
Operating Voltage:	12Vdc
Operating Current:	3.1A
Power Consumption:	37.5W
Bulb:	893
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

83055	Clear Driving Light Halogen 893 • 12Vdc 37.5W (available - call for details)
83056	Rainbow Driving Light Halogen 893 • 12Vdc 37.5W
83057	Amber Fog Light Halogen 893 • 12Vdc 37.5W
83058	Clear Fog Light Halogen 893 • 12Vdc 37.5W
85155	893 Bulb • 12V 37.5W



83056



## MODEL MAL-400

### FEATURES & BENEFITS

- Die-cast metal housing
- Glass lens
- Versatile single-bolt mounting system
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

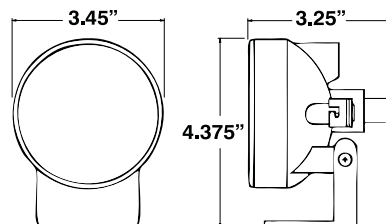
Operating Voltage:	12Vdc
Operating Current:	2.25A
Power Consumption:	27W
Bulb:	880
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

83145	Fog Light Halogen 880 • 12Vdc 27W
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83145

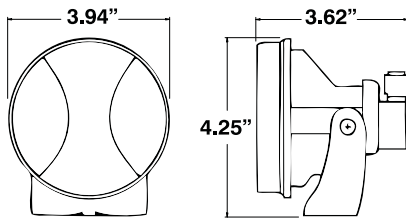




## MODEL MAL-500



83059



### FEATURES & BENEFITS

- Rugged die-cast metal housing
- Versatile single-bolt mounting system
- Kit includes 2 lamps with bulbs, switch, relay & harness
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108

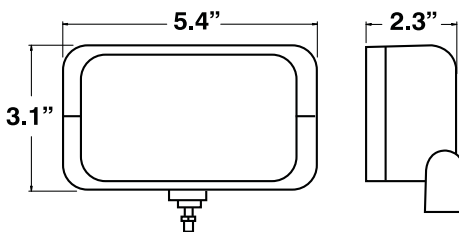
### Part # Description

83059	Clear Fog Light Halogen H3 • Glass Lens • 12Vdc 55W
83059J	Clear Fog Light Halogen H3 • Polycarbonate Lens • 12Vdc 55W
83060	Driving Light Halogen H3 • Glass Lens • 12Vdc 55W
83060J	Driving Light Halogen H3 • Polycarbonate Lens • 12Vdc 55W
85066	H3 Bulb • 12V 55W

## MODEL MAL-800



83125



### FEATURES & BENEFITS

- Lightweight polymer housing
- Reversible mount
- Glass lens for crisp, clear quality precision light
- Kit includes 2 lamps with bulbs, switch, relay & harness
- Comes with covers (83126)
- SAE/DOT compliant - compliant to US/CDN federal regulations (83125 only)

### Specifications

Operating Voltage:	12Vdc
Operating Current:	4.6A
Power Consumption:	55W
Bulb:	H3
SAE/DOT Compliance:	FMVSS108 and CMVSS108 (83125 only)

### Part # Description

83125	Clear Driving Light Halogen H3 • 12Vdc 55W • SAE/DOT Compliant (available - call for details)
83126	Amber Fog Light Halogen H3 • 12Vdc 55W • Off-Road Use Only (available - call for details)
85066	H3 Bulb • 12V 55W



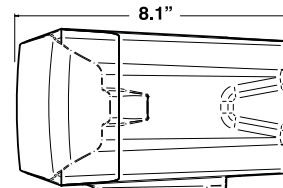
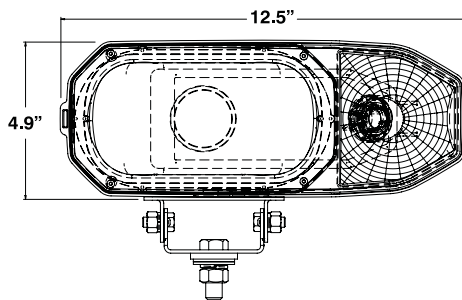
## SNOW PLOW LIGHT • COMBINATION HEADLIGHT DUAL HIGH/LOW BULB



81091

### FEATURES & BENEFITS

- Clear optics - increased light output
- Quick and accurate mounting
- Easy bulb upgrade
- Sold in pairs, complete with wiring harness
- Highly visible park/turn lamp
- Pre-wired
- Durable
- SAE/DOT compliant - compliant to US/CDN federal regulations



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	4.6A @ 12Vdc 2.3A @ 24Vdc
Power Consumption:	55W
Housing:	Polymer
Lens:	Polycarbonate
Connection:	Universal Wire Harness
Bulb:	1157NA Amber HB2 (9003)
SAE/DOT Compliance:	FMVSS108 and CMVSS108

### Part # Description

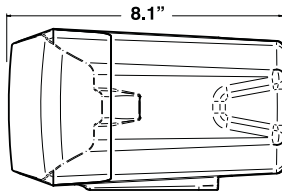
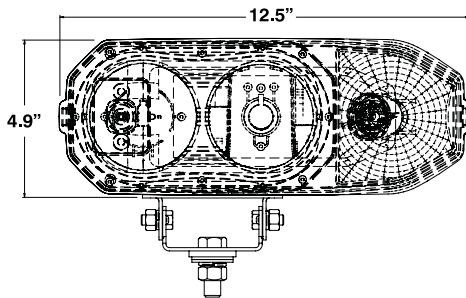
81091	Auxiliary Combination Headlight • 12Vdc
82091	Auxiliary Combination Headlight • 24Vdc
10-1157NA	1157NA Bulb • Amber
85128	HB2 (9003) Bulb • 12V 60/55W





81091/2

## SNOW PLOW LIGHT • COMBINATION HEADLIGHT DEDICATED HIGH/LOW BULB



### FEATURES & BENEFITS

- Clear optics - increased light output
- Quick and accurate mounting
- Easy bulb upgrade
- Sold in pairs, complete with wiring harness
- Highly visible park/turn lamp
- Pre-wired
- Durable
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	4.6A @ 12Vdc 2.3A @ 24Vdc
Power Consumption:	55W
Housing:	Polymer
Lens:	Polycarbonate
Connection:	Universal Wire Harness
Bulb:	1157NA Amber H1 • H7
SAE/DOT Compliance:	FMVSS108 and CMVSS108



### Part # Description

81091/2	Auxiliary Combination Headlight • 12Vdc
82091/2	Auxiliary Combination Headlight • 24Vdc
10-1157NA	1157NA Bulb • Amber
85045	H1 Bulb • 12V 55W • High Beam
85101	H7 Bulb • 12V 55W • Low Beam



# WARNING & SAFETY

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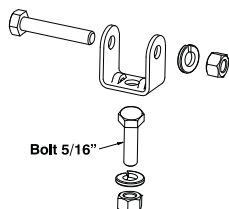
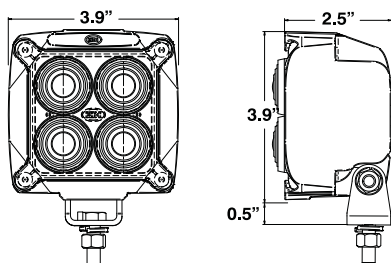


82295/B

## MODEL XLW-812 • BLUE LED FORKLIFT LIGHT

### FEATURES & BENEFITS

- At 480nm, the blue LED forklift light is visible in warehouse environments, making it ideal for forklifts, load trucks, AGVs and other industrial vehicles used in close proximity to pedestrians
- Beam precedes vehicle by 5 metres (16 feet) - provides visual warning to alert pedestrians of approaching machinery before it is heard or seen
- Round beam pattern - blue round shape projected to the ground, alerts pedestrians of proximity to moving vehicle
- Versatile & compact design - only 4" x 4", lightweight and mounts easily on the front or back of vehicle
- 12 - 48Vdc - can be used on heavy duty machines



### Specifications

Operating Voltage:	12 - 48Vdc
Operating Current:	0.83A @ 12Vdc 0.20A @ 48Vdc
Power Consumption:	10W
Temperature Range:	-40°C to +85°C
IP Rating:	IP67
Environmental Rating:	IP69K
Weight:	0.707kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Beam Pattern:	Spot
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	U-Bracket
EMC Rated:	EMC EN 13309: 2010
UL:	8750 (Tyco Connector Only)



Part #	Connector	Lumens	Voltage Range
82295/B	Tyco	150	12 - 48Vdc
82295/C	Deutsch	150	12 - 48Vdc

Tyco Connector



Deutsch Connector



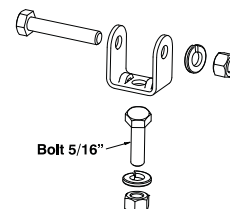
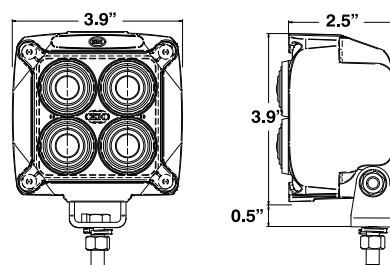
82295/B only



**MODEL XWL-812 • RED LED FORKLIFT LIGHT**



82296/B



**FEATURES & BENEFITS**

- The red LED forklift light is visible in warehouse environments, warning workers of approaching vehicle or lift apparatus above, making it ideal for forklifts, load trucks, AGVs and other industrial vehicles used in close proximity to pedestrians
- Beam precedes vehicle by 5 metres (16 feet) - provides visual warning to alert pedestrians of approaching machinery before it is heard or seen
- Round beam pattern - red round shape projected to the ground, alerts pedestrians of proximity to moving vehicle
- Versatile & compact design - only 4" x 4", lightweight and mounts easily on the front or back of vehicle
- 12 - 48Vdc - can be used on heavy duty machines

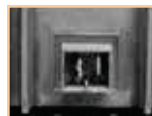
**Specifications**

Operating Voltage:	12 - 48Vdc
Operating Current:	0.83A @ 12Vdc 0.20A @ 48Vdc
Power Consumption:	10W
Temperature Range:	-40°C to +85°C
IP Rating:	IP67
Environmental Rating:	IP69K
Weight:	0.707kg
Housing:	Die Cast Aluminum - Black E-Coat
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate
Beam Pattern:	Spot
Polarity:	Reverse Voltage Protected
Vibration Resistance:	10-500Hz @ 5Grms
Mounting:	U-Bracket
EMC Rated:	EMC EN 13309: 2010

Part #	Connector	Lumens	Voltage Range
82296/B	Tyco	150	12 - 48Vdc
82296/C	Deutsch	150	12 - 48Vdc



Tyco Connector



Deutsch Connector



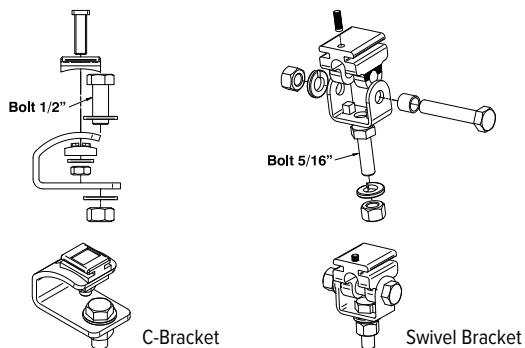
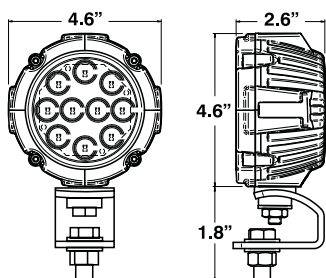


## MODEL XLW-800

## FLASHING AMBER WARNING LIGHT



81561



### FEATURES & BENEFITS

- 2500 lumens - super bright illumination
- Dual “multi-purpose” lighting - work light and warning light, versatile for the most demanding conditions
- Die cast aluminum housing & polycarbonate lens - virtually unbreakable
- 4 attachment points - if one attachment point fails due to a collision, rotate to the next channel point and re-mount the light
- Low current draw - energy efficient, run more lights with the same amperage & save on fuel costs as it draws less energy (22W)
- Constant current circuit draw - light does not dim even if voltage fluctuates
- 4 beam patterns - get light where it’s needed most in the light pattern required for the job
- 50,000+ hours LED service life & 5 year warranty - this means 5.7 years running 24 hours per day and 365 days per year



### Specifications

Operating Voltage:	12 - 24Vdc	
Operating Current:	Work Light:	1.8A @ 12Vdc
	Amber Warning Light:	0.9A @ 12Vdc
	Both:	2.7A @ 12Vdc
Power Consumption:	Work Light:	22W
	Amber Warning Light:	10W
	Both:	32W
Temperature Range:	-40°C to +80°C	
IP Rating:	IP68	
Environmental Rating:	IP69K	
Weight:	1kg	
Housing:	Die Cast Aluminum - Black E-Coat	
Lens:	Automotive Optical Grade, Hard-Coated Polycarbonate	
Connection:	6" Wire	
Polarity:	Reverse Voltage Protected	
Vibration Resistance:	10-500Hz @ 5Grms	
Mounting:	C-Bracket or Swivel Bracket	
EMC Rated:	EMC EN 13309: 2010	

### “4 Lives in 1” Mount System

- 4 attachment points



Part #	Beam Pattern	Lumens	Voltage Range
81561	Spot	2500	12 - 24Vdc
81562	Wide Flood	2500	12 - 24Vdc
81563	Medium Flood	2500	12 - 24Vdc
81564	Hybrid Spot/Flood	2500	12 - 24Vdc
98195	Easy Grip Handle - Black/Orange/Yellow/Red/Blue		



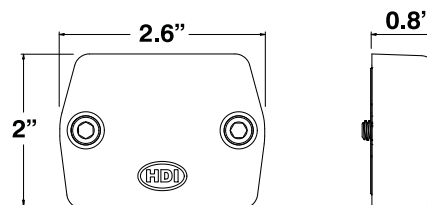
## LED LIFTGATE FLASHER

### FEATURES & BENEFITS

- Smart sensor technology automatically triggers LED illumination in non-vertical orientation
- Bright flashing LEDs raise pedestrian awareness in close proximity to vehicle
- Includes a one-time activation switch, simplifying the installation process as there are no wires to cut
- 3 LEDs - bright warning lights
- 60 pulses/minute - distinct and noticeable pulse rate, visible warning to pedestrians in close proximity
- Long life battery - 500+ hours
- Fully submersible - can be used in wet environments



44110



### Specifications

Number of LEDs:	3
LED Colour:	Amber
Activation:	Non-Vertical Orientation • Vertical OFF
Battery:	Non-Replaceable 2.7Vdc Lithium-Ion
Battery Life:	500+ hours
Operating Temperature:	-25°C to +70°C
Storage Temperature:	-40°C to +65°C
IP Rating:	IP67
Housing:	Automotive Grade Polycarbonate
Mounting:	2 x 1/4" Screw Holes 50mm Apart for #8 Screws

### Part # Description

44110	LED Liftgate Flasher
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## 360° AMBER LED BEACONS • CLASS 3

### FEATURES & BENEFITS

- Permanent mount or magnetic mount option
- SAE class 3 certified
- Single flash pattern, 6 flashes per cycle, 60 cycles per minute
- Increased visibility

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	0.8A @ 12Vdc 0.4A @ 24Vdc
Compliance:	SAE Class 3

### Part # Description

Part #	Description	Operating Voltage
81512	360° Amber LED Beacon Permanent Mount • 30 Square LEDs • Low Profile	12 - 24Vdc
81516	360° Amber LED Beacon Magnetic Mount • 30 Square LEDs • Low Profile	12 - 24Vdc
81519	360° Amber LED Beacon Permanent Mount • 60 Square LEDs • High Profile	12 - 24Vdc
81522	360° Amber LED Beacon Magnetic Mount • 60 Square LEDs • High Profile	12 - 24Vdc
81525	360° Amber LED Beacon Permanent Mount • 120 Square LEDs	12 - 24Vdc



81512



81516



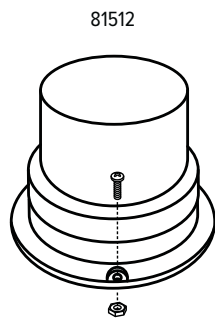
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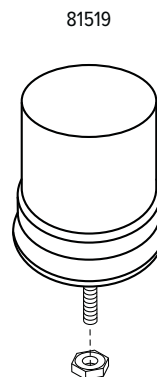
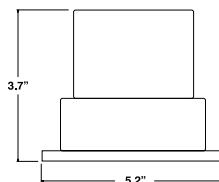
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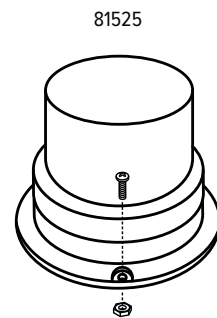
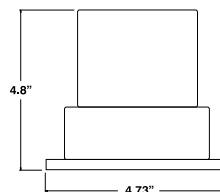
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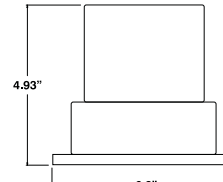
81512



81519



81525



## 360° AMBER LED BEACONS • CLASS 1

### FEATURES & BENEFITS

- Permanent mount or magnetic mount option
- SAE class 1 certified
- Zero EMI radiation
- Long life - 50,000+ hours
- 75 SignalAlert™ flashes per minute
- 25 total selectable flash patterns
- Moisture & vibration resistant
- Low current draw will not compromise electrical system

### Specifications

Operating Voltage: 12 - 24Vdc

Operating Current: 0.8A @ 12Vdc  
0.4A @ 24Vdc

#### Mount:

81537 Permanent • J-Hook • 1" NPT Pipe

81536 Magnetic

#### Connection:

81537 12 - 24Vdc Hardwired to a Switched Power Source

81536 12 - 24Vdc Power Socket with Illuminated On/Off Switch  
Plus Pattern Control Switch

#### Cable Length:

81537 Fire Wire • 6" Pigtail

81536 10' Straight Cord

Flash Pulse: 75 SignalAlert™ Flashes Per Minute,  
25 Total Selectable Flash Patterns

Weight: 0.82kg

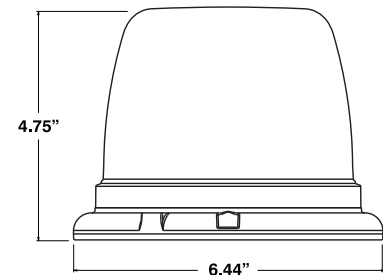
Lens: Polycarbonate

Base: Powder Coated Cast Aluminum

Compliance: SAE Class 1

### Part # Description

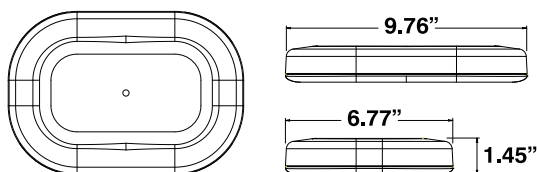
81537	360° Amber LED Beacon Permanent Mount	12 - 24Vdc
81536	360° Amber LED Beacon Magnetic Mount	12 - 24Vdc





81542

\* Amber colour shown, other colour options available



## LED MICRO LIGHT BAR

### FEATURES & BENEFITS

- 12 - 24Vdc - use on pick-up trucks, cars or heavy duty vehicles
- Built-in 23 selectable flash patterns - highly visible, multiple configurations
- Multiple unit synchronization - allows for consistency among vehicles
- Full 360° light output with super wide angle optics - provides effective warning at all angles
- Compact, low-profile design (1.45" tall) - provides more stability and better weight distribution, as well as fuel savings
- 100,000+ hours LED service life - lasts longer than traditional halogen, long term cost savings

FP #	Flash Pattern
0	Random
1	Rotating
2	Single (split)
3	Double (split)
4	Quad (split)
5	Quint (split)
6	Mega (split)
7	Ultra (split)
8	Single-Quad (split)
9	Single H/L (split)
10	Single (all)
11	Double (all)
12	Quad (all)
13	Quint (all)
14	Mega (all)
15	Ultra (all)
16	Single-Quad (all)
17	Single H/L (all)
18	Steady 2 (california)
19	Single (2Hz)
20	Double (2Hz)
21	Triple (2Hz)
22	Quad (2Hz)

\*SPLIT = Left alternate Right

\*ALL = all LEDs on

Specifications	
Operating Voltage:	12 - 24Vdc
Operating Current:	2.1A @ 12Vdc (varies with flash pattern)
Max. Current:	4.2A @ 12Vdc 2.1A @ 24Vdc
Power Consumption:	25.2W (varies with flash pattern)
Max. Power Consumption:	50.4W
Mount:	
81542	Permanent
81543	Magnetic
Connection:	Red - Vcc: 10cm (18AWG) Black - GND: 30cm (18AWG) Blue - Flash Patterns & Sync: 30cm (18AWG) Magnetic Mount: 12V Auxiliary Power Outlet
Warning Patterns:	23 Flash Patterns
Bulb:	High Intensity 1W LED x 30pcs
Fuse Recommended:	7A
In Stock Colour:	Amber
Optional Colours:	Red, Blue, Red/Blue
Compliance:	SAE, Title XIII

Part #	Description	
81542	LED Micro Light Bar Permanent Mount	12 - 24Vdc
81543	LED Micro Light Bar Magnetic Mount	12 - 24Vdc



### LED MINI LIGHT BAR

#### FEATURES & BENEFITS

- Built-in 19 selectable flash patterns - highly visible, multiple configurations
- Multiple unit synchronization - allows for consistency among vehicles
- Full 360° light output with super wide angle optics - provides effective warning at all angles
- Compact, low-profile design (2.9" tall) - provides more stability and better weight distribution, as well as fuel savings
- 100,000+ hours LED service life - lasts longer than traditional halogen, long term cost savings

#### Specifications

Operating Voltage:	12Vdc
Operating Current:	1.6A @ 12Vdc (varies with flash pattern)
Max. Current:	3.2A @ 12Vdc
Power Consumption:	19.2W (varies with flash pattern)
Max. Power Consumption:	38.4W
Mount:	
81544	Permanent
81545	Magnetic
Connection:	Red - Vcc: 30cm (18AWG) Black - GND: 30cm (18AWG) Blue - Flash Patterns & Sync: 30cm (18AWG) Magnetic Mount: 12V Auxiliary Power Outlet
Warning Patterns:	19 Flash Patterns
Bulb:	High Intensity 1W LED x 30pcs
Fuse Recommended:	5A
In Stock Colour:	Amber
Optional Colours:	Red, Blue, Red/Blue
Compliance:	SAE & CA13

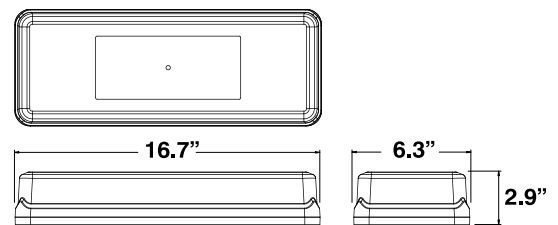
#### Part # Description

81544	LED Mini Light Bar Permanent Mount	12Vdc
81545	LED Mini Light Bar Magnetic Mount	12Vdc



81544

\* Amber colour shown, other colour options available



#### FP # Flash Pattern

0	Random
1	Single (split)
2	Double (split)
3	Quad (split)
4	Quint (split)
5	Mega (split)
6	Ultra (split)
7	Single-Quad (split)
8	Single H/L (split)
9	Single (all)
10	Double (all)
11	Quad (all)
12	Quint (all)
13	Mega (all)
14	Ultra (all)
15	Single-Quad (all)
16	Single H/L (all)
17	Steady 2 (california)
18	Steady 4 (all)

\*SPLIT = Left alternate Right

\*ALL = all LEDs on



81542/A/B



81542/A/B

## AMBER / BLUE LED MICRO LIGHT BAR



### FEATURES & BENEFITS

- 12 - 24Vdc - use on pick-up trucks, cars or heavy duty vehicles
- Dual colour capability & dual memory function - instant switch between 2 pre-selected patterns & colours
- Built-in 24 selectable flash patterns - highly visible, multiple configurations
- Multiple unit synchronization - allows for consistency among vehicles
- Full 360° light output with super wide angle optics - provides effective warning at all angles
- Compact, low-profile design (1.45" tall) - provides more stability and better weight distribution, as well as fuel savings
- 100,000+ hours LED service life - lasts longer than traditional halogen, long term cost savings

### FP # Flash Pattern

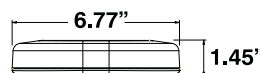
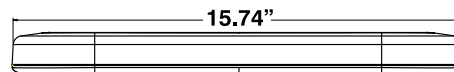
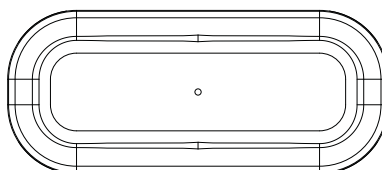
1	Random
2	Rotating (slow)
3	Rotating (fast)
4	Single (split)
5	Double (split)
6	Quad (split)
7	Quint (split)
8	Mega (split)
9	Ultra (split)
10	Single-Quad (split)
11	Single H/L (split)
12	Single (all) (SAE)
13	Double (all) (SAE)
14	Quad (all) (SAE)
15	Quint (all) (SAE)
16	Mega (all)
17	Ultra (all) (SAE)
18	Single-Quad (all)
19	Single H/L (all)
20	Steady (half)
21	Single (2Hz)
22	Double (2Hz)
23	Triple (2Hz)
24	Quad (2Hz)

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	3.0A @ 12Vdc (varies with flash pattern) 1.5A @ 24Vdc (varies with flash pattern)
Max Current:	4.2A @ 12Vdc 2.1A @ 24Vdc
Power Consumption:	36W (varies with flash pattern)
Max Power Consumption:	50.4W
Mount:	Permanent - 4 Bolt, 3 Wire
Connection:	Red - Vcc: 30cm (18AWG) Black - GND: 30cm (18AWG) Blue - Memory, Flash Patterns & Sync: 30cm (18AWG)
Environmental Rating:	IP68
Polarity:	Reverse Voltage Protected
Bulb:	High Intensity LED x 72 pcs
Fuse Recommended:	9A
Multi-Unit Synchronization:	Over 15 Units
Compliance:	SAE J845 Class 1, CA13 Class E

### Part # Description

81542/A/B	Amber / Blue LED Micro Light Bar	12 - 24Vdc
	Permanent Mount • 6 Lighthoods (12 LEDs/Head) • 24 Flash Patterns	



### DRILL-FREE ROOFTOP MOUNTING PLATFORM

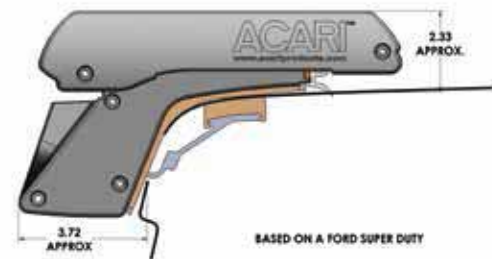


WARNING & SAFETY

#### FEATURES & BENEFITS

- Simple bolt on assembly is all that is required - bolts into existing third brake light opening
- FAST easy installation, no dropping the headliner to fasten rooftop devices
- No drilling required! The mounting platform can be removed easily, restoring the vehicle its original condition
- Eliminates lease penalties for cab roof holes and paint damage
- Fully encapsulated to provide moisture and vibration protection
- Low profile design will not hinder access to garages, etc.
- Sleek, aerodynamic, anodized aluminum housing designed for improved fuel economy

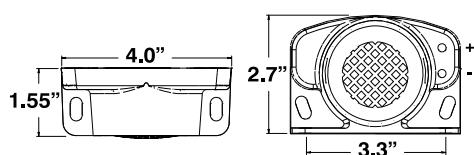
Part #	Description	Vehicle Model
98500	22" Rooftop Mounting Platform	
98503	Mounting Kit R-GM15-1	Chevy/GM 1500 2014
98504	Mounting Kit R-GM-1	Chevy/GM 1500 2007-2013
98505	Mounting Kit R-CGM-1	Chevy/GM 4 DR Crew CAB 2007-2014
98506	Mounting Kit RTM-100-D-1	Dodge Full Size Ram Only 2010-2014
98507	Mounting Kit RTM-100-150-1	Ford F-150 2009-2014
98508	Mounting Kit RTM-100-SD-1	Ford Super Duty 2006-2014
98509	Mounting Kit RTM-101-22-1	Ford F-150 2015



ROOFTOP MOUNT



51008



## 51008 BACK UP ALARM

### FEATURES & BENEFITS

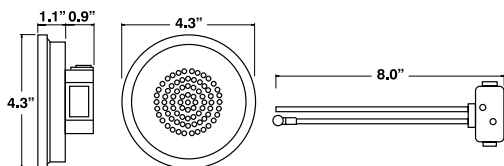
- Self grounding
- Glass filled nylon housing
- Steam cleanable
- Horizontal or vertical mounting
- Applications: cars, pickups & light duty vehicles
- Epoxy encapsulated solid state electronics
- Polarity protected
- Operating range of -30°C to +55°C
- Connect a positive wire with #8 ring terminal to top stud
- Connect a ground wire with #8 ring terminal to bottom ground stud
- SAE/DOT compliant - compliant to US/CDN federal regulations

Part #	Description
--------	-------------

51008	97dB • 12 - 24Vdc
-------	-------------------



51030



## 51030 • 51031 BACK UP ALARM

### FEATURES & BENEFITS

- Glass filled nylon housing
- Steam cleanable
- Horizontal or vertical mounting
- Applications: school buses, trailers, wreckers & heavy duty vehicles
- Epoxy encapsulated solid state electronics
- Polarity protected
- Operating range of -30°C to +55°C
- Connects to the 2 way reverse light connector
- Connect BLACK wire to positive circuit and WHITE wire to ground circuit
- SAE/DOT compliant - compliant to US/CDN federal regulations

Part #	Description
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51030	97dB • 12 - 24Vdc
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51031	107dB • 12 - 24Vdc
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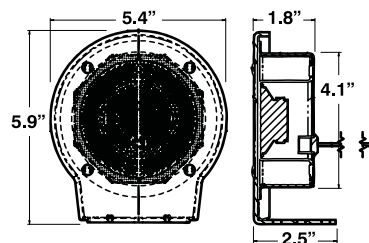
## 51045 BACK UP ALARM

### FEATURES & BENEFITS

- All metal powder coated housing
- Steam cleanable
- Horizontal or vertical mounting
- Applications: on & off-road equipment & heavy duty vehicles
- Epoxy encapsulated solid state electronics
- Polarity protected - electrically protected
- Comes with 250mm Red/Black 16 ga wire
- Connect RED wire to positive circuit and BLACK wire to ground circuit
- SAE/DOT compliant - compliant to US/CDN federal regulations



51045



Part #	Description
51045	107dB • 12 - 24Vdc

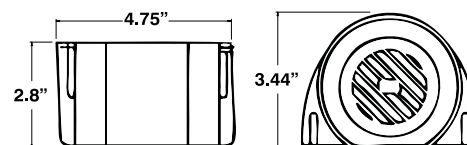
## 51020 • 51025 • 51026 BACK UP ALARM

### FEATURES & BENEFITS

- Glass filled nylon housing
- Steam cleanable
- Horizontal or vertical mounting
- Applications: school buses, trailers, wreckers, heavy equipment & tow motors
- Epoxy encapsulated solid state electronics
- Polarity protected
- Comes with 250mm Red/Black 16 ga wire
- Connect RED wire to positive circuit and BLACK wire to ground circuit
- SAE/DOT compliant - compliant to US/CDN federal regulations



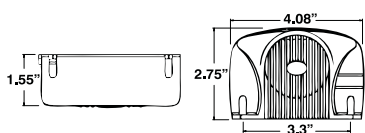
51025



Part #	Description
51020	112dB • 12 - 24Vdc
51025	82dB - 107dB (Self-Adjusting) • 12 - 24Vdc
51026	87dB - 112dB (Self-Adjusting) • 12 - 24Vdc



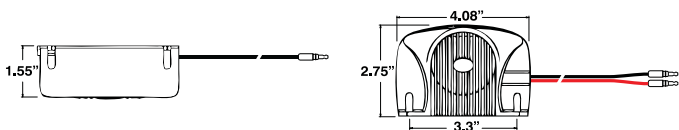
51010



## 51006 • 51010 • 51012 BACK UP ALARM

### FEATURES & BENEFITS

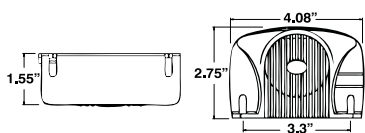
- Glass filled nylon housing
- Steam cleanable
- Horizontal or vertical mounting
- Applications: cars, pickups, light & heavy duty vehicles, heavy equipment & tow motors
- Epoxy encapsulated solid state electronics
- Polarity protected
- Operating range of -30°C to +55°C
- Comes with 250mm Red/Black 16 ga wire
- Connect RED wire to positive circuit and BLACK wire to ground circuit
- SAE/DOT compliant - compliant to US/CDN federal regulations



Part #	Description
51006	97dB With Bulleted Wires • 12 - 24Vdc
51010	87dB • 12 - 24Vdc
51011	97dB • 12 - 24Vdc
51012	107dB • 12 - 24Vdc



51015



## 51015 • 51016 • 51050 BACK UP ALARM

### FEATURES & BENEFITS

- Glass filled nylon housing
- Steam cleanable
- Horizontal or vertical mounting
- Applications: cars, pickups, light & heavy duty vehicles, heavy equipment & tow motors
- Epoxy encapsulated solid state electronics
- Polarity protected
- Operating range of -30°C to +55°C
- Comes with 250mm Red/Black 16 ga wire
- Connect RED wire to positive circuit and BLACK wire to ground circuit
- SAE/DOT compliant - compliant to US/CDN federal regulations

Part #	Description
51015	97dB • 24 - 48Vdc
51016	107dB • 24 - 48Vdc
51050	97dB (if Red is connected to +, and Black to -) • 12 - 36Vdc 107dB (if Black is connected to +, and Red to -) • 12 - 36Vdc

# REAR LIGHTING

Pages 92-97





84005

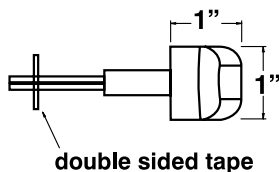
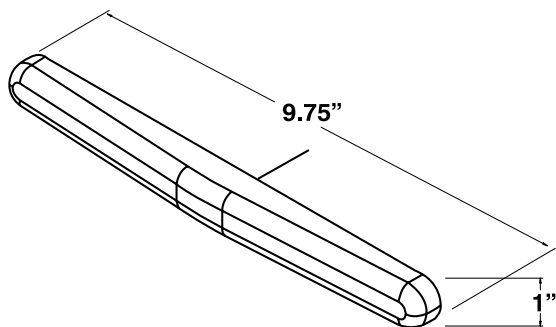


84001

## MODEL CHMSL-100

### FEATURES & BENEFITS

- UV resistant for many years of outdoor use
- Polycarbonate lens will not break
- Flat adhesive back design makes for a tight seal
- 60" wire lead makes wiring easier
- SAE/DOT compliant - compliant to US/CDN federal regulations



### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.17A
Power Consumption:	2W

### Part # Description

84005	CHMSL • Red Lens • Flat Back • 9 LED
84001	CHMSL • Clear Lens • Flat Back • 9 LED



Part #84195



Part #84198

## CHMSL BACK-UP CAMERA



### FEATURES & BENEFITS

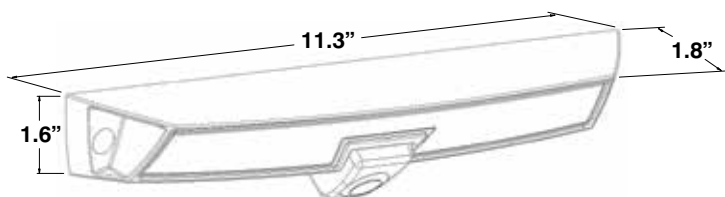
- Provides clean and up to date look to CHMSL and camera
- Camera provides high resolution images
- Hard wired with monitor standard
- Rear view option available
- Courtesy lighting option available – only one in industry
- SAE/DOT compliant - compliant to US/CDN federal regulations

### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.17A
Power Consumption:	2W

### Part # Description

84190	CHMSL (not pictured)
84195	CHMSL + Back-Up Camera
84198	CHMSL + Back-Up Camera + Courtesy Lights







## MODEL STL-300

### FEATURES & BENEFITS

- Includes grommet
- Corrosion proof, water tight & shock proof
- Polycarbonate lens is virtually unbreakable
- SAE/DOT compliant

### Specifications

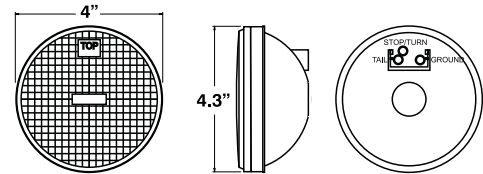
Operating Voltage:	12 - 24Vdc
Operating Current:	0.25A - 0.70A
Power Consumption:	3W - 16W

### Part # Description

84055	Stop/Tail/Turn Light • Red • Round • 12 - 24Vdc
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84055



## MODEL STL-400

### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.25A
Power Consumption:	3W

### Part # Description

84045	Stop/Tail/Turn Light • Red • Oval • 12Vdc
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84045



## MODEL STL-500

### Specifications

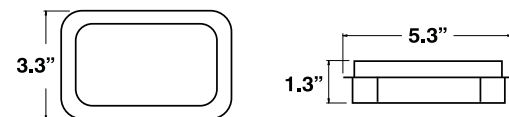
Operating Voltage:	12 - 24Vdc
Operating Current:	0.25A - 0.70A
Power Consumption:	3W - 16W

### Part # Description

84050	Stop/Tail/Turn Light • Red • Rectangular • 12Vdc
84065	Stop/Tail/Turn Light • Red • Rectangular • 12 - 24Vdc



84050

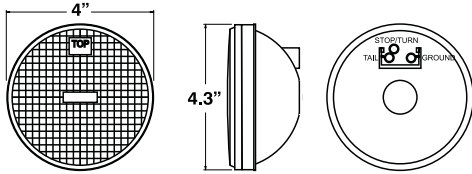


REAR LIGHTING

LED STOP/TAIL/TURN LIGHTS



84041



### FEATURES & BENEFITS

- Includes grommet
- Corrosion proof, water tight & shock proof
- Polycarbonate lens is virtually unbreakable
- SAE/DOT compliant

## MODEL STL-300

### Specifications

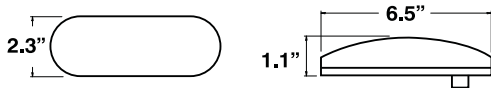
Operating Voltage:	12 - 24Vdc
Operating Current:	0.25A • 0.70A
Power Consumption:	3W • 16W

### Part # Description

84041	Tail/Turn Light • Amber • Round • 12Vdc
84056	Tail/Turn Light • Amber • Round • 12 - 24Vdc



84046



## MODEL STL-400

### Specifications

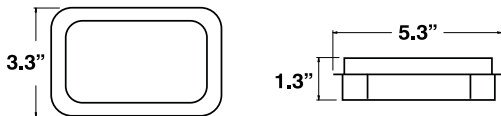
Operating Voltage:	12Vdc
Operating Current:	0.25A
Power Consumption:	3W

### Part # Description

84046	Tail/Turn Light • Amber • Oval • 12Vdc
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84051



## MODEL STL-500

### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	0.25A • 0.70A
Power Consumption:	3W • 16W

### Part # Description

84051	Tail/Turn Light • Amber • Rectangular • 12Vdc
84066	Tail/Turn Light • Amber • Rectangular • 12 - 24Vdc



## MODEL STL-300

### FEATURES & BENEFITS

- Includes grommet
- Corrosion proof, water tight & shock proof
- Polycarbonate lens is virtually unbreakable
- Long life, high quality, super bright LEDs
- SAE/DOT compliant

### Specifications

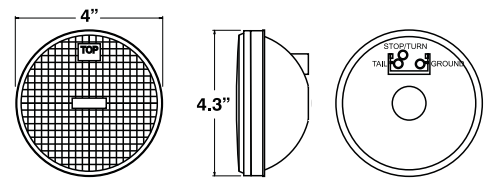
Operating Voltage:	12Vdc
Operating Current:	0.25A
Power Consumption:	3W

### Part # Description

84070	Reversing/Tail Light • Clear • Round • 12Vdc
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84070

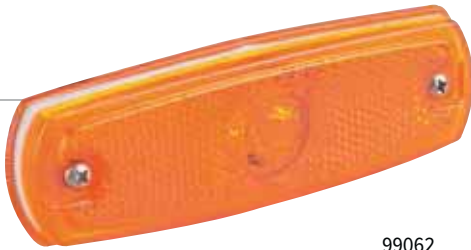


REAR LIGHTING

LED REVERSING/TAIL LIGHTS



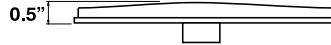
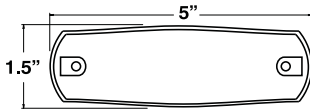
## MODEL SML-500



99062



99063



### FEATURES & BENEFITS

- Acrylic lens with reflex
- 2-screw, recessed mount
- Includes lamp & bulb
- Sold individually
- 2 LEDs

### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.05A
Power Consumption:	1W

### Part # Description

99062	Marker Light • Amber • 2 LEDs • 12Vdc
99063	Marker Light • Red • 2 LEDs • 12Vdc

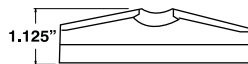
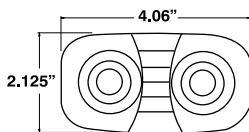
## MODEL SML-600



99069/L



99070/L



### FEATURES & BENEFITS

- Popular “double bubble” style
- 2-screw, recessed mount
- Sealed acrylic lens & ABS housing

### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.07A
Power Consumption:	1W

### Part # Description

99069/L	Marker Light • Amber • Double Bubble • Plastic Base • 12Vdc
99070/L	Marker Light • Red • Double Bubble • Plastic Base • 12Vdc

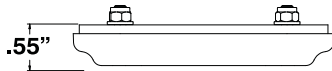
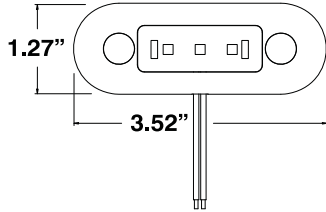
# ACCESSORY LIGHTING

Pages 98-108





81117



## COURTESY UTILITY LIGHT • 3 LED

### FEATURES & BENEFITS

- Ideal for dome lighting, cargo areas, under hood or rocker panels
- Screw mount
- Bezel and 2 screws included
- Single light, 2 light kit or 6 light kits available
- Ask about ordering in Amber, Blue & Red

### Specifications

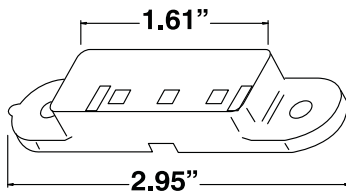
Operating Voltage:	12Vdc
Operating Current:	0.1A
Power Consumption:	1.2W
Lumens:	60

### Part # Description

81117	Single Light • Bezel • 2 Screws • 12Vdc
81141	Single Light • Connectors • Bezel • 2 Screws • 12Vdc
81119	2 Light • Bezel • 2 Screws • 12Vdc
81143	2 Light • Connectors • Bezel • 2 Screws • 12Vdc
81117/K	6 Light • Wiring, Fuse Assembly & Hardware • Bezel • 12Vdc
81117/HO	Single Light • High Output • Bezel • 2 Screws • 12Vdc



81116



## COURTESY UTILITY LIGHT • 3 LED

### FEATURES & BENEFITS

- Ideal for dome lighting, cargo areas, under hood or rocker panels
- Adhesive mount
- Single light, 2 light kit or 6 light kits available
- Ask about ordering in Amber, Blue & Red

### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.1A
Power Consumption:	1.2W
Lumens:	60

### Part # Description

81116	Single Light • Adhesive Mount • 12Vdc
81140	Single Light • Connectors • Adhesive Mount • 12Vdc
81118	2 Light • Adhesive Mount • 12Vdc
81142	2 Light • Connectors • Adhesive Mount • 12Vdc
81116/K	6 Light • Wiring, Fuse Assembly & Hardware • 12Vdc
81116/HO	Single Light • High Output • Adhesive Mount • 12Vdc



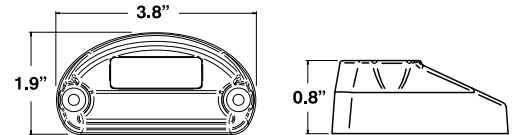
## MODEL LED-730 COURTESY UTILITY LIGHT • 3 LED



81196



81196W



### FEATURES & BENEFITS

- Small compact size
- Screw mount
- Tough & rugged design for exterior or interior applications
- Low power consumption - long life

### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.1A
Power Consumption:	1.2W
Lumens:	60

### Part # Description

81196	Single Light • Black Bezel • 2 Screws • 12Vdc
81196W	Single Light • White Bezel • 2 Screws • 12Vdc

## COURTESY UTILITY LIGHT • 2 LED

### FEATURES & BENEFITS

- Very slim & compact
- Ideal for under the hood, as a step light, or a tool box light
- Strong adhesive, mounts to most surfaces

### Specifications

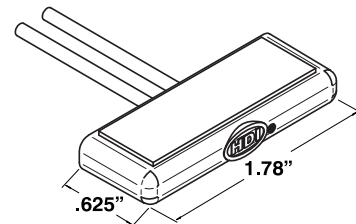
Operating Voltage:	12Vdc
Operating Current:	0.0001A
Power Consumption:	0.0012W

### Part # Description

81103	Single Light • Slimline • Adhesive Mount • 12Vdc
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81103





81109

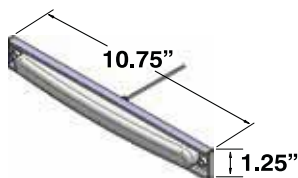
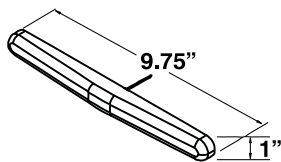


81114

## COURTESY UTILITY LIGHT

### FEATURES & BENEFITS

- High output LEDs
- Ideal for RV's, conversion vans, light trucks, marine and busses
- Strong adhesive, mounts to most surfaces
- 2 hole mount black plastic channel bracket available



### Specifications

Operating Voltage:	12Vdc
Operating Current:	0.25A
Power Consumption:	3W

### Part # Description

81109	Adhesive Mount • 12Vdc
81141	Plastic Channel with 2 Screw Mount • 12Vdc

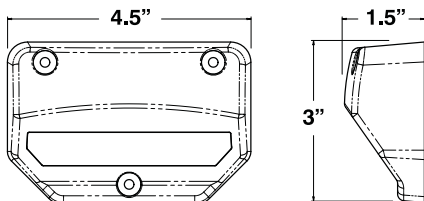


81145

## COURTESY UTILITY LIGHT

### FEATURES & BENEFITS

- Use for step lighting, under dashboard, dome light & cargo areas
- Rugged polymer housing for exterior or interior applications
- Polycarbonate lens with advanced optics
- Screw mount
- Very low power consumption & long lasting life



### Specifications

Operating Voltage:	12 - 24Vdc
Operating Current:	0.4A @ 12Vdc 0.1A @ 24Vdc
Power Consumption:	4.8W @ 12Vdc 2.4W @ 24Vdc

### Part # Description

81145	Single Light • Black Bezel • 3 Screws • 12Vdc
81146	Single Light • White Bezel • 3 Screws • 12Vdc
81147	Single Light • Grey Bezel • 3 Screws • 12Vdc



## FLEX-STRIP LIGHTS

### FEATURES & BENEFITS

- 420 lumens / metre - effective bright illumination
- Low power consumption - energy efficient while providing superior illumination
- Multiple colour options - enhance applications with colour accents
- Clear cut lines 2" apart - easily cut to any length required
- 3M adhesive or attachment clip - secure, versatile and flexible mounting options



81214

### Specifications

Lumens / Metre:	420
Operating Voltage:	12Vdc
Operating Current:	2.0A @ 12Vdc
Power Consumption:	24W
Temperature Range:	-25°C to +60°C
Weight:	0.17kg (adhesive mount) 0.38kg (clip mount)
Connection:	2 Position Connection
Polarity:	Reverse Voltage Protected
Diodes:	3 every 2"

Part #	Mount Type	IP	LED Colour	PCB	Length
81214	Adhesive	IP65	White	White	5m
81214/A	Adhesive	IP65	Amber	White	5m
81214/B	Adhesive	IP65	Blue	White	5m
81214/G	Adhesive	IP65	Green	White	5m
81214/P	Adhesive	IP65	Purple	White	5m
81214/R	Adhesive	IP65	Red	White	5m
81215	Clip	IP68	White	White	5m
81216	Adhesive	IP65	White	Black	5m
81217	Adhesive	IP65	White	Black	30cm
81218	Adhesive	IP65	White	Black	90cm
81219	Clip	IP68	White	Black	5m

### Mounting Accessories

81215/C	Clips - 10 Pack
---------	-----------------



White



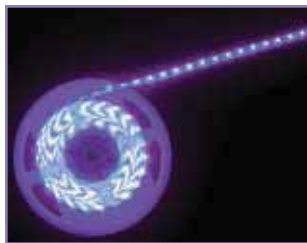
Amber



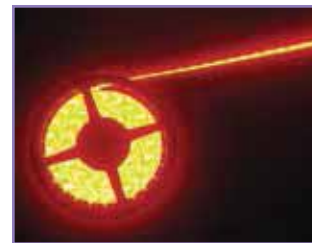
Blue



Green

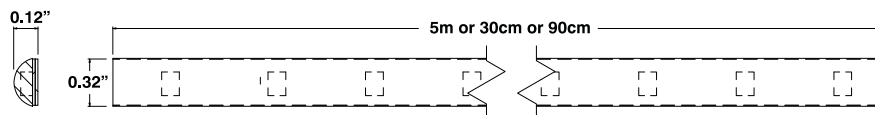


Purple

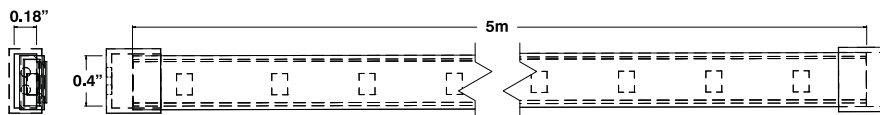


Red

Adhesive Mount (IP65)



Clip Mount (IP68)





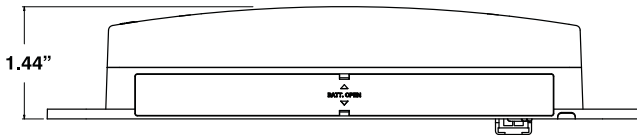
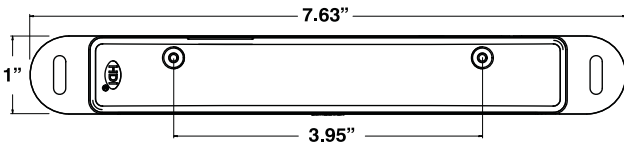
MODEL LED-720 • DOME LIGHT • 1 LED



80110

FEATURES & BENEFITS

- Battery operation - uses 3 "AAA" batteries
- Large tabs for easy mounting
- Compact size
- Low power consumption - long life



Part #	Description
80110	No Wire • 1 LED Dome Light • Battery
80112	38" Wire • 1 LED Dome Light • Battery Wire is used as an input for an external switch for position "I"

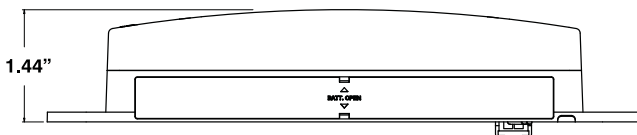
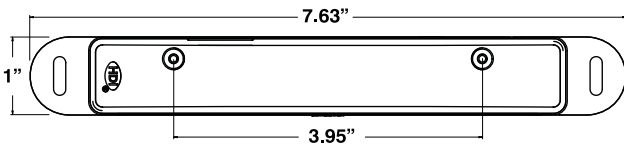
MODEL LED-720 • DOME LIGHT • 3 LED



80110/3

FEATURES & BENEFITS

- High output
- Battery operation - uses 3 "AAA" batteries
- Large tabs for easy mounting
- Compact size
- Low power consumption - long life



Part #	Description
80110/3	No Wire • 3 LED Dome Light • Battery • High Output
80112/HO	38" Wire • 3 LED Dome Light • Battery • High Output Wire is used as an input for an external switch for position "I"



## MODEL LED-720 • DOME LIGHT • 3 LED

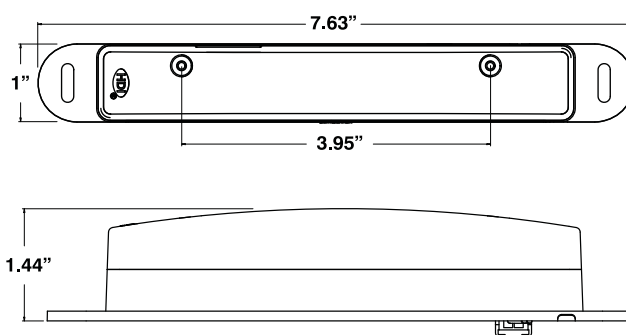
### FEATURES & BENEFITS

- High output
- 12Vdc operation
- Large tabs for easy mounting
- Compact size
- Low power consumption - long life

Part #	Description
80113/HO	38" Wire • 3 LED Dome Light • 12Vdc • High Output Wire is used as a 12V power source



80113/HO



## DOME LIGHT • 3 LED

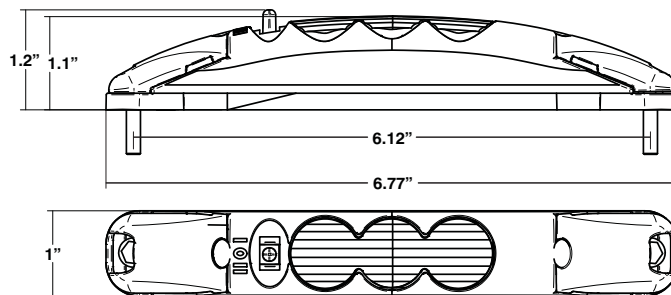
### FEATURES & BENEFITS

- 12Vdc operation
- Polycarbonate lens is virtually unbreakable
- Black ABS housing
- Compact size
- 3 position switch

Part #	Description
80115	3 LED Dome Light • 12Vdc



80115



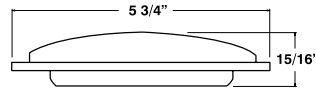
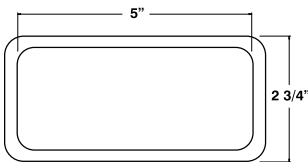


80125

## RECESSED DOME LIGHT

### FEATURES & BENEFITS

- Long life LED surpasses incandescent lights
- Faster startup than incandescent
- LEDs sealed for long life and reliable operation
- Increased service life - 50X greater than incandescent
- 70% more energy efficient than incandescent bulb dome light
- Sold in cases of 10 (minimum 5 per order - 10% premium for broken case orders)



Part #	Description
80125	LED Recessed Dome Light • 12Vdc



81613

## SURFACE MOUNT DOME LIGHT

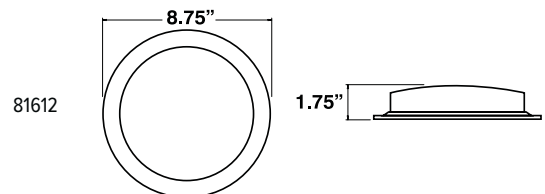
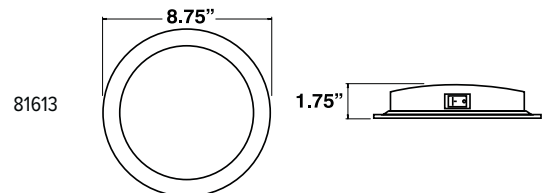
### FEATURES & BENEFITS

- 12 - 24Vdc
- Drop in LED replacement for standard 7" round incandescent dome light
- Excellent light output - 1260 lumens
- Surface mount



81612

Part #	Description
81613	Surface Mount Dome Light • Switched • 6 LED • 12 - 24Vdc
81612	Surface Mount Dome Light • Unswitched • 6 LED • 12 - 24Vdc





## MODEL LED-710 • STRIP LIGHT



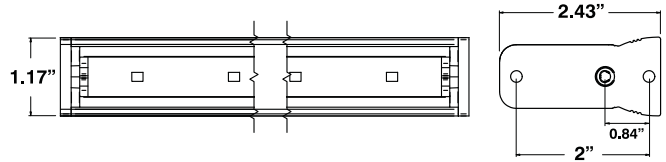
81208



UL8750  
UL2108



Intertek



### FEATURES & BENEFITS

- Available in 12", 24", 36" & 48" lengths with 8 LEDs per foot
- Intricately patterned diffuser lens
- Simple two-screw surface mount installation
- NOTE: This Product must be connected to a UL approved power supply Hamsar Part #98255

Part #	Length	Operating Current	Power Consumption
81208	12"	0.4A @ 12Vdc	5W
81209	24"	0.8A @ 12Vdc	10W
81210	36"	1.2A @ 12Vdc	15W
81211	48"	1.6A @ 12Vdc	20W

Part #	Power Supply	Input Voltage	Output Voltage
98255	12Vdc 30W	90-265Vac 47-63Hz • 1A	12Vdc • 2.5A

## MODEL LED-710 • STRIP LIGHT



81208/X

### FEATURES & BENEFITS

- Available in 12", 24", 36" & 48" lengths with 8 LEDs per foot
- Intricately patterned diffuser lens
- Simple two-screw surface mount installation

Part #	Description
81208/X	12" • LED Strip Light w/ Aluminum Channel • 12 - 24Vdc
81209/X	24" • LED Strip Light w/ Aluminum Channel • 12 - 24Vdc
81210/X	36" • LED Strip Light w/ Aluminum Channel • 12 - 24Vdc
81211/X	48" • LED Strip Light w/ Aluminum Channel • 12 - 24Vdc



98170



**Kit Includes:**

- 5x LED Magnetic Reflective Aluminum Channels
- 1x Door Switch
- 5x 3-Way Harnesses
- 1x 12Vdc 2.0A Power Adapter with Rubber Grommet
- 10x Flat Adhesive C-Clamps
- 1x 36" Length 3/8" Black Convolute

## MAGNETIC SHELF LIGHTING



Designed for metal cabinets and shelves, delivering bright white LED illumination, providing light for hard to reach places. An excellent application for industrial work areas, each aluminum channel is equipped with a magnetic strip which easily mounts to the underside of metal shelves. Each kit includes a door switch for automatic illumination and shuts off when the door is closed, saving energy costs. Low profile design, makes each channel easy to install and easy to hide.

### FEATURES & BENEFITS

- 140 lumens per channel, 700 lumens per kit - bright white LED illumination, providing light for hard to see shelf areas
- Aluminum extrusion acts as a reflector, enhancing illumination
- Door switch - automatic illumination when cabinet door is opened, shuts off when door is closed, saving energy costs
- Low power consumption
- Low profile magnetic channels - easy to install and easy to hide
- Long life LEDs - 5+ years

### Specifications

Operating Current:	0.65A
Lumens:	140 per Channel • 700 per Kit
Mounting:	Magnetic Channels • Adhesive C-Clamps for Wires
Environmental Rating:	IP65
Weight:	1.1kg
Channel Dimensions:	Length: 12" • Width: 3/4"
Channel Housing:	Extruded Aluminum
Power Supply:	12Vdc 2.0A Adapter

### Part # Description

98170	LED Magnetic Shelf Lighting Kit • 110Vac
-------	--





# MODEL IL-100 • DOME LIGHT

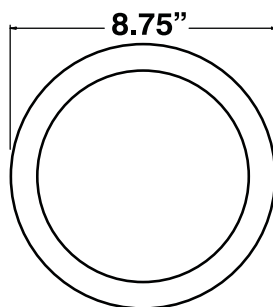
### FEATURES & BENEFITS

- Large diameter provides wide area illumination
- Flush mount
- Interior or exterior applications



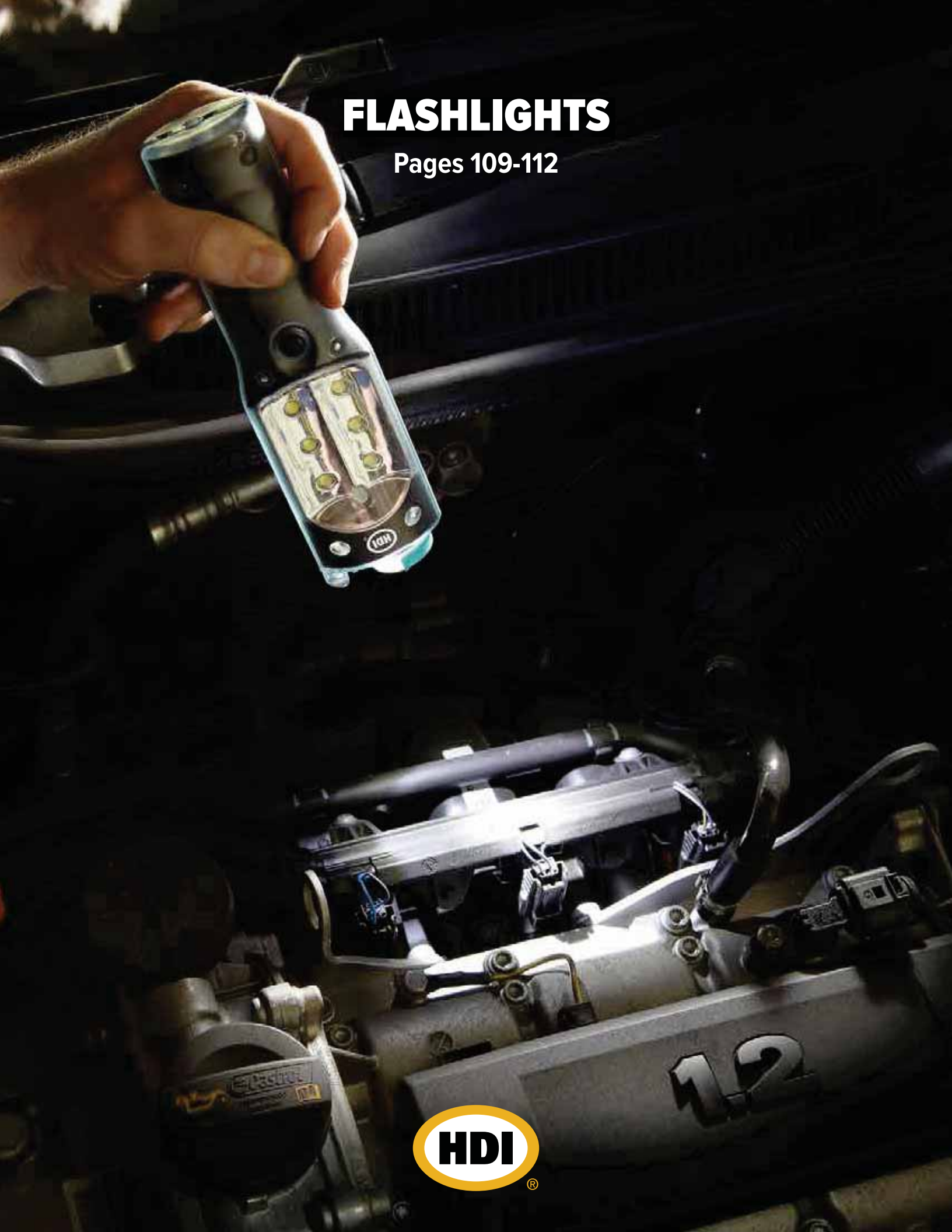
81070

Part #	Description
81070	Flush Mount Dome Light • 7" Round • Incandescent • 12Vdc 21W



# FLASHLIGHTS

Pages 109-112







## INSPECTION LIGHT

### FEATURES & BENEFITS

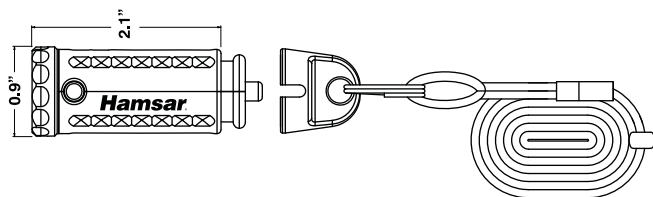
- Compact and convenient
- Includes handy clip-on key ring and lanyard
- Recharges from 12V power socket for convenient emergency lighting
- Intense LED light output, low current draw and maintenance-free



81303

### Part # Description

81303	Single Light
81304	Display Carton 10 Pack

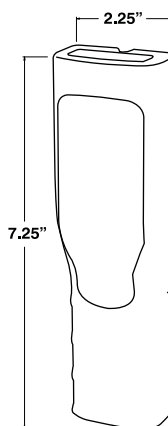


81304

## MAGNETIC INSPECTION LIGHT • 18 LEDs

### FEATURES & BENEFITS

- Extremely powerful light output - 540 lux
- Cordless and rechargeable
- Wide angle beam pattern
- Tough robust polycarbonat lens
- Ratchet hinge design for multi-positional use
- Magnetic base
- Complete with 110Vac charger
- Flashlight & torch function
- Integral hanging hook



81305

### Part # Description

81305	18 LED • Compact Magnetic Inspection Light w/ AC Charger • 540 Lux
-------	---



### IMPORTANT - DO NOT OVERCHARGE

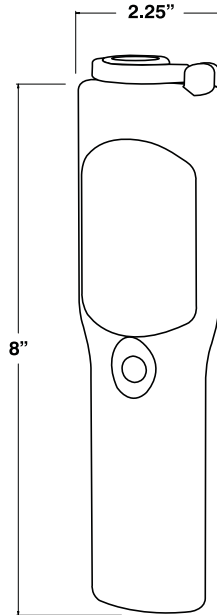
This product should not be modified. If any modification is made, it will invalidate the warranty and render the product unsafe for use. Refer to our website for detailed instructions.



## MAGNETIC INSPECTION LIGHT • 6 LEDS



81307



### FEATURES & BENEFITS

- Cordless and rechargeable Integral hanging hook & magnetic clip
- Wide angle beam pattern flashlight & torch function
- High / low settings
- Complete with 110Vac charger & 12Vdc car charger
- High power flashlight function provides up to 1200 lux light output

### Part # Description

81307	6 LED • Compact High Power Inspection Lamp with 110Vac Wall Charger & 12Vdc Car Charger • 1200 Lux
-------	--



### IMPORTANT - DO NOT OVERCHARGE

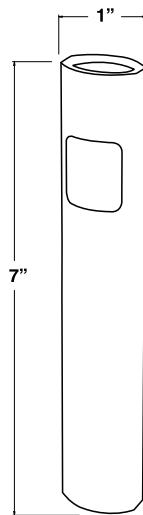
This product should not be modified. If any modification is made, it will invalidate the warranty and render the product unsafe for use. Refer to our website for detailed instructions.



## LED HANDLIGHT



81312



### FEATURES & BENEFITS

- Lamp & torch function - Use as a flashlight or a lamp
- Wrist strap - convenient and mobile
- Batteries included - flashlights come ready to use with 4 AAA batteries
- 9 hour operating time - long service life
- Operating current: 0.5A

### Part # Description

81312	Single Light
81310	Display Carton 16 Pack



81310



## MAGNETIC TOOL LIGHT

### FEATURES & BENEFITS

- Automatic - conveniently and automatically lights up when attached to any metal surface which is conductive
- Magnetic & versatile - V-shape magnetic cavity will attach to tool with diameter 3mm to 10mm (1/8" - 3/8")
- Compact & mobile - easy to store and carry
- 2x LED - bright illumination in tough to reach places
- 8 hour operating time - Includes batteries



81311

Part #	Description
81311	Single Light
81309	Display Carton 12 Pack



81309

# BULBS

Pages 113-123





BALLASTS

Part #	Description
98063	D1S • 12V • 35W • Osram
98064	D1S • 24V • 35W • Osram



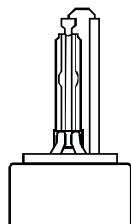
98063

BULB CAPSULES

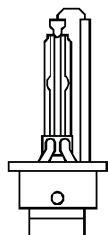
Part #	Description	SAE/DOT
85105	D1S • 35W • 3.5 A	SAE/DOT
85106	D2S • 35W • 3.5 A	SAE/DOT
85108	D2R • 35W • 3.5 A	SAE/DOT
85109	D1S • 35W • 3.5 A • High Output	SAE/DOT



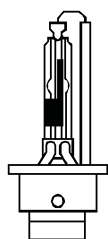
85105



D1S



D2S



D2R



85106



85109



**LED MINI BULBS • OFF-ROAD**

Part #	Description	Colour
84175	1156	White
84175R	1156	Red
84175A	1156	Amber
84175G	1156	Green
84175B	1156	Blue
84176	1157 (Dual Filament)	White
84176R	1157 (Dual Filament)	Red
84176A	1157 (Dual Filament)	Amber
84176G	1157 (Dual Filament)	Green
84176B	1157 (Dual Filament)	Blue



**LED MINI BULBS • OFF-ROAD**

Part #	Description	Colour
84177	3156	White
84177R	3156	Red
84177A	3156	Amber
84177G	3156	Green
84177B	3156	Blue
84178	3157 (Dual Filament)	White
84178R	3157 (Dual Filament)	Red
84178A	3157 (Dual Filament)	Amber
84178G	3157 (Dual Filament)	Green
84178B	3157 (Dual Filament)	Blue



**LED MINI BULBS • OFF-ROAD**

Part #	Description	Colour
84184	194 (Dual Filament)	White
84184A	194 (Dual Filament)	Amber
84184R	194 (Dual Filament)	Red

**LED MINI BULBS • OFF-ROAD • 360°**

Part #	Description	Colour
84180	1156	White
84180R	1156	Red
84180A	1156	Amber
84180G	1156	Green
84180B	1156	Blue
84181	1157 (Dual Filament)	White
84181R	1157 (Dual Filament)	Red
84181A	1157 (Dual Filament)	Amber
84181G	1157 (Dual Filament)	Green
84181B	1157 (Dual Filament)	Blue



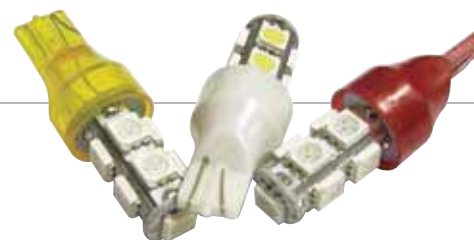
**LED MINI BULBS • OFF-ROAD • 360°**

Part #	Description	Colour
84182	3156	White
84182R	3156	Red
84182A	3156	Amber
84182G	3156	Green
84182B	3156	Blue
84183	3157 (Dual Filament)	White
84183R	3157 (Dual Filament)	Red
84183A	3157 (Dual Filament)	Amber
84183G	3157 (Dual Filament)	Green
84183B	3157 (Dual Filament)	Blue



**LED MINI BULBS • OFF-ROAD • 360°**

Part #	Description	Colour
84185	921 (Dual Filament)	White
84185A	921 (Dual Filament)	Amber
84185R	921 (Dual Filament)	Red





85243

**RING**  
Automotive  
**xenonultima**

**+120%**  
more light



85260

## XENONULTIMA PERFORMANCE BULBS

### FEATURES & BENEFITS

**E** Street Legal • CMVSS Compliant

- 100% Xenon gas filled bulb - exceptional night driving performance
- Precision designed filament - improved beam focus and pattern
- Longer beam patterns - see more clearly and further, allowing for more time to react to potential hazards
- Increased light output - better reflections from road markings and signs
- No wiring or bulb holder changes - quick and easy installation

Part #	Description
85241	9005 / HB3 12V 60W
85242	9006 / HB4 12V 51W
85243	9003 / HB2 / H4 12V 60/55W
85244	H7 12V 55W
85245	H11 12V 55W
85246	H1 12V 55W
85260	Retail counter display unit



85235

**RING**  
Automotive  
**xenonmax**

**+100%**  
more light



85239

## XENONMAX PERFORMANCE BULBS

### FEATURES & BENEFITS

**E** Street Legal • CMVSS Compliant

- 100% more light than standard bulbs - better visibility for longer distances
- Xenon gas filled bulb capsule - bright white output
- Precision designed filament - light is concentrated exactly where it is needed
- Increased light output - improves driver's comfort reducing eye strain
- Better visibility - improves road safety
- No wiring or bulb holder changes - quick and easy replacement
- UV cut - won't damage plastic headlamps

Part #	Description
85230	9005 / HB3 12V 60W
85231	9006 / HB4 12V 51W
85232	H11 12V 55W
85233	H1 12V 55W
85234	9003 / HB2 / H4 12V 60/55W
85235	H7 12V 55W
85236	H3 12V 55W
85239	Retail counter display unit





## XENON4400k PERFORMANCE BULBS

### FEATURES & BENEFITS

**E** Street Legal • CMVSS Compliant

- Up to 30% more light on the road - for improved visibility
- HID look - get the cool white look without the expensive hassle
- Produces a light closer to daylight - reduces eye strain & fatigue, improving safety
- Stylish silver tip - blends in with reflector when unlit
- No wiring or bulb holder changes - quick and easy installation

**RING**  
Automotive  
**xenon4400k**  
**+30%**

**+30%**  
more light



85262



85248

Part #	Description
85247	9003 / HB2 / H4 12V 60/55W
85248	H7 12V 55W
85249	H1 12V 55W
85262	Retail counter display unit

## XTREMEBLUE PERFORMANCE BULBS

### FEATURES & BENEFITS

**E** Street Legal • CMVSS Compliant

- Up to 50% more light on the road - for improved visibility
- HID look - white light with an HID blue hue
- Produces a crisp light up to 3700k - closer to daylight, reducing eye strain & fatigue
- See pedestrians and road markings more clearly - improves road safety
- No wiring or bulb holder changes - quick and easy installation

**RING**  
Automotive  
**xtremebblue**

**+50%**  
more light

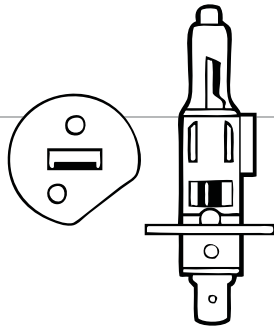


85261



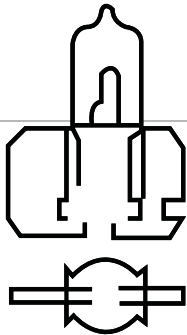
85253

Part #	Description
85251	9005 / HB3 12V 60W
85252	9006 / HB4 12V 51W
85253	9003 / HB2 / H4 12V 60/55W
85254	H7 12V 55W
85255	H1 12V 55W
85261	Retail counter display unit



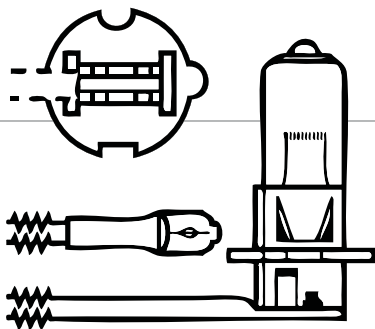
**H1 HALOGEN BULBS • BASE P14.5s**

Part #	Description					
85044	H1	12V	55W	P14.5s	Heavy Duty Long Life	SAE/DOT
85045	H1	12V	55W	P14.5s		SAE/DOT
85046	H1	12V	100W	P14.5s		Off Road Only
85047	H1	24V	70W	P14.5s		SAE/DOT
85048	H1	24V	100W	P14.5s		Off Road Only
85049	H1	24V	70W	P14.5s	Heavy Duty Long Life	SAE/DOT



**H2 HALOGEN BULBS • BASE X511**

Part #	Description					
85055	H2	12V	55W	X511		SAE/DOT
85056	H2	12V	100W	X511		Off Road Only
85057	H2	24V	70W	X511		SAE/DOT
85058	H2	24V	100W	X511		Off Road Only



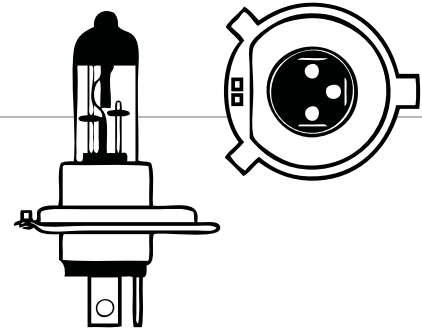
**H3 HALOGEN BULBS • BASE PK22s**

Part #	Description					
85065	H3	12V	35W	PK22s		SAE/DOT
85066	H3	12V	55W	PK22s		SAE/DOT
85067	H3	12V	100W	PK22s		Off Road Only
85068	H3	24V	130W	PK22s		Off Road Only
85069	H3	24V	65W	PK22s	Dresser	SAE/DOT
85070	H3	24V	70W	PK22s		SAE/DOT
85071	H3	24V	100W	PK22s		Off Road Only
85072	H3	36V	45W	PK22s		Off Road Only
85073	H3	48V	45W	PK22s		Off Road Only
85074	H3	24V	70W	PK22s	Ring	SAE/DOT
85075	H3	24V	70W	PK22s	Heavy Duty Long Life	SAE/DOT
85076	H3	12V	55W	PK22s	Heavy Duty Long Life	SAE/DOT



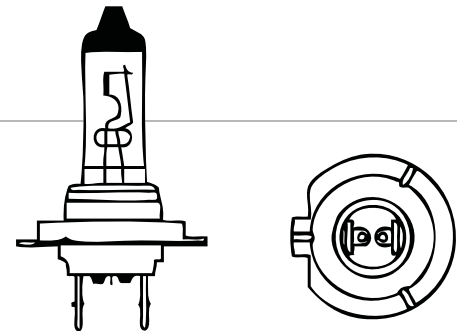
### H4 HALOGEN BULBS • BASE P43t & P45t

Part #	Description
85085	H4 12V 45/40W P45t Off Road Only
85086	H4 12V 60/55W P43t Off Road Only
85087	H4 12V 60/55W P43t HD Off Road Only
85088	H4 12V 60/55W P45t Off Road Only
85089	H4 12V 100/55W P43t Off Road Only
85090	H4 12V 100/80W P43t Off Road Only
85091	H4 12V 100/80W P45t Off Road Only
85092	H4 12V 130/90W P43t Off Road Only
85093	H4 12V 160/160W P43t Off Road Only
85094	H4 24V 75/70W P43t Off Road Only
85095	H4 24V 75/70W P43t HD Off Road Only
85096	H4 24V 100/80W P43t Off Road Only



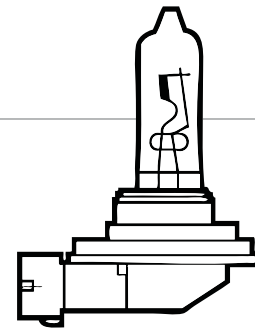
### H7 HALOGEN BULBS • BASE PX26d

Part #	Description
85100	H7 24V 70W PX26d
85101	H7 12V 55W PX26d



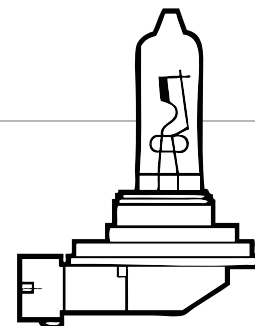
### H9 HALOGEN BULBS • BASE PGJ19-5

Part #	Description
85115	H9 12V 65W PGJ19-5



### H11 HALOGEN BULBS • BASE PGJ19-2

Part #	Description
85116	H11 12V 55W PGJ19-2



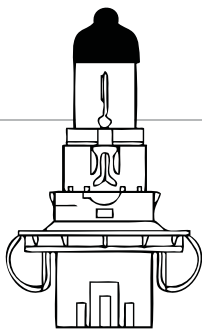
BULBS

HALOGEN



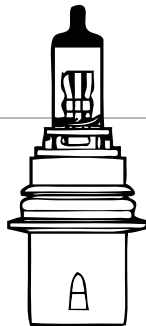
**H11B HALOGEN BULBS • BASE PGJY19-2**

Part #	Description				
85120	H11B	12V	55W	PGJY19-2	



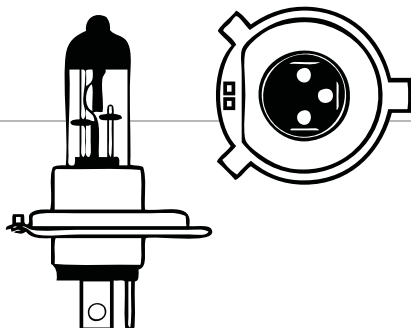
**H13 (9008) HALOGEN BULBS • BASE P26.4t**

Part #	Description				
85117	H13 (9008)	12V	60/55W	P26.4t	



**HB1 (9004) HALOGEN BULBS • BASE P29t**

Part #	Description				
85125	HB1 (9004)	12V	65/45W	P29t	SAE/DOT
85126	HB1 (9004)	12V	100/55W	P29t	Off Road Only
85127	HB1 (9004)	12V	100/80W	P29t	Off Road Only



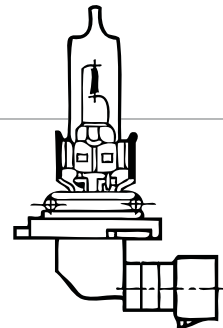
**HB2 (9003) HALOGEN BULBS • BASE P43t**

Part #	Description				
85128	HB2 (9003)	12V	60/55W	P43t	SAE/DOT



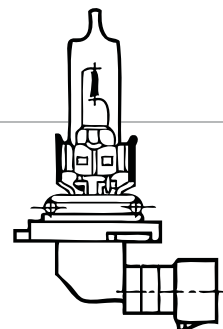
### HB3 (9005) HALOGEN BULBS • BASE P20d

Part #	Description					
85129	HB3 (9005)	12V	65W	P20d	SAE/DOT	
85130	HB3 (9005)	12V	100W	P20d	Off Road Only	



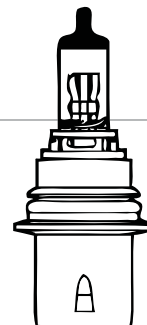
### HB4 (9006) HALOGEN BULBS • BASE P22d

Part #	Description					
85131	HB4 (9006)	12V	55W	P22d	SAE/DOT	
85132	HB4 (9006)	12V	80W	P22d	Off Road Only	



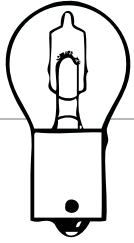
### HB5 (9007) HALOGEN BULBS • BASE P29t

Part #	Description					
85133	HB5 (9007)	12V	65/55W	P29t	SAE/DOT	
85134	HB5 (9007)	12V	100/65W	P29t	Off Road Only	
85135	HB5 (9007)	12V	100/80W	P29t	Off Road Only	

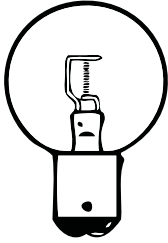




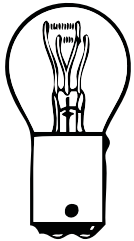
## INCANDESCENT BULBS (Stop • Tail • Turn • Reverse)



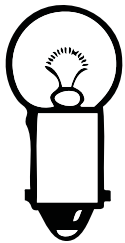
CAP BA15s



CAP BA15d



CAP BAY15d



CAP BA9s



CAP B8.5d

Part #	Base	Description
--------	------	-------------

**Base BA15s**

85136	BA15s	12V 10W 1156
85137	BA15s	24V 5W 1156
85153	BA15s	24V 10W 1156

**Base BA15d**

85138	BA15d	24V 5W 1157
85139	BA15d	24V 21W 1157
10-1157NA	BA15d	1157NA Amber
85158	BA15d	12V 32/3 CP1157 Bayonet

**Base BAY15d**

85140	BAY15d	24V 21/5W 1004
-------	--------	----------------

**Base BA9s**

85141	BA9s	24V 5W 1445 • T4W
85142	BA9s	24V 4W 1445 • T4W

**Base B8.5d**

85144	B8.5d	12V 1.2W Tachograph
85145	B8.5d	24V 1.2W Tachograph
85146	B8.5d	24V 5W PCB Tachograph

**Base E10/13**

85147	E10/13	24V 2.8W
85148	E10/13	24V 2.8W
85149	E10/13	24V 2.8W
85150	E10/13	24V 2.8W

**Miscellaneous Bulbs**

85151	194	24V 3W W2.1 x 9.50 • T10 Wedge
85152	194	24V 5W W2.1 x 9.50 • T10 Wedge
85154		12.8V
85155	880	12V 37.5W 893
85156	881	12V 37.5W 894
85160		Incandescent #18

# ELECTRONIC PRODUCTS

Pages 124-132





A relay is an electrically activated switch that shortens the distance current has to travel from the battery to whatever device is being powered. This ensures that the optimum amount of current is efficiently delivered to lights, horns, or any other accessory.

Consult the formula to determine what size relay you require.

$$\text{Total Watts} \div \text{Voltage} = \text{Required Amperage}$$

Step up one level from the indicated amperage load

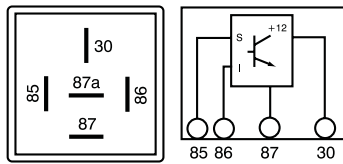
Eg.  $2 \times 55 \text{ Watts} = 110 \div 12 \text{ Volts} = 9.17 \text{ Amps}$

Use a 20 Amp Relay

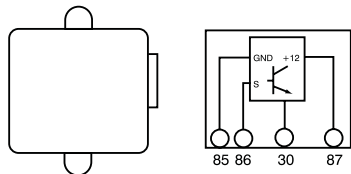
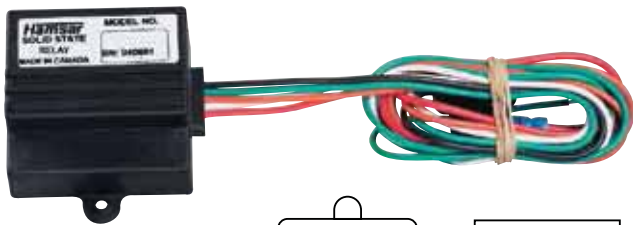
## ELECTROMECHANICAL RELAYS

### FEATURES & BENEFITS

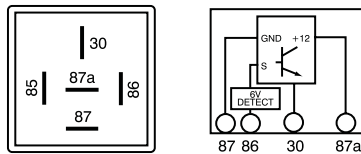
- Solid state construction provides reliable long term operation
- Compact size fits into conventional ISO 5 pin socket
- Low power enable operation
- Fast turn on / shut off
- Water & dust protected



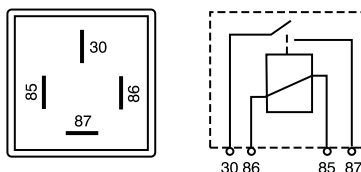
Part #	Description
41040	12V • 6A • Solid State
41045	12V • 12A • Solid State



Part #	Description
41055	12V • 20A • Solid State
41060	12V • 40A • Solid State



Part #	Description
41120	12V • Solid State • 6V Detection Relay



Part #	Description
41005	12V • 30A • SPST • Bulk 10
41010	12V • 30A • SPST • w/ Tab • Bulk 10



## ELECTROMECHANICAL RELAYS

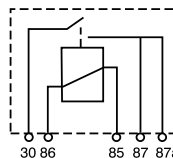
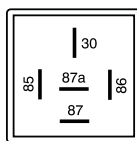
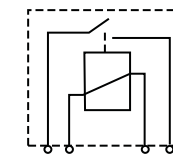
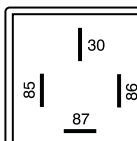
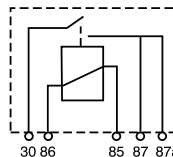
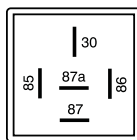
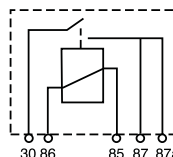
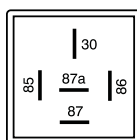
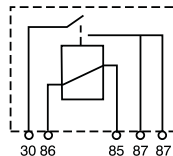
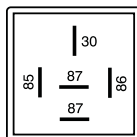
Part #	Description
41015	12V • 40A • SPST • Dual Output • Bulk 10
41020	12V • 40A • SPST • Dual Output w/ Tab • Bulk 10

Part #	Description
41025	12V • 40A • SPDT • Bulk 10
41030	12V • 40A • SPDT • w/ Tab • Bulk 10

Part #	Description
41035	12V • 40A • SPDT • Skirted • Waterproof • Bulk 10

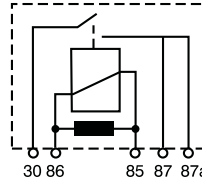
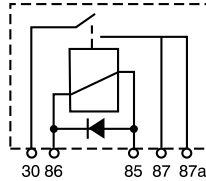
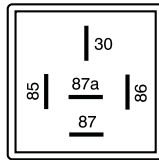
Part #	Description
41065	12V • 70A • SPST • Heavy Duty w/ Tab

Part #	Description
42005	24V • 40A • SPDT • Bulk 10
42006	24V • 40A • SPDT • Bulk 100

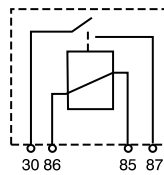
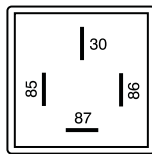




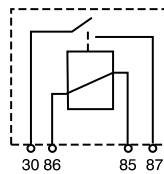
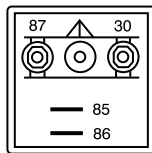
ELECTROMECHANICAL RELAYS



Part #	Description
41075	12V • 40A • SPDT • Diode Supressed
41080	12V • 40A • SPDT • w/ Resistor



Part #	Description
41085	12V • 70A • SPST • Heavy Duty



Part #	Description
41050	12V • 80A • SPST • Screw Terminals w/ Tab
42050	24V • 60A • SPST • Screw Terminals w/ Tab



Part #	Description
41201	12V • 100A • Solenoid Relay Switch HD • w/ Grounding Lug



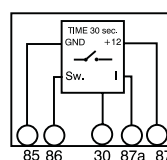
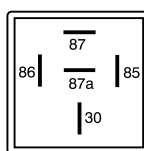
Part #	Description
42201	24V • 80A • Solenoid Relay Switch HD • w/ Grounding Lug

# TIMERS & DELAY MODULES

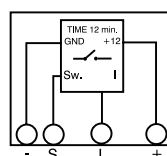
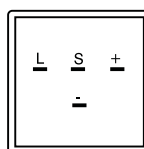
## FEATURES & BENEFITS

- Solid state construction provides reliable long term operation
- Compact size fits into conventional ISO 5 pin socket
- Low power enable operation
- Fast turn on / shut off
- Water & dust protected

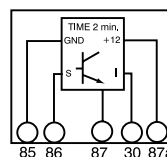
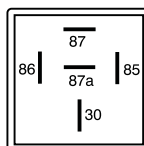
Part #	Description
41105	12V • 30 Second Light Timer w/ Relay



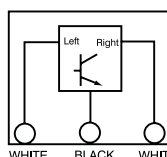
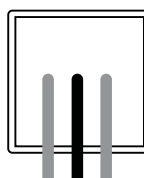
Part #	Description
41110	12V • 12 Minute Mirror Heater Timer



Part #	Description
41115	12V • 2 Minute Door Timer



Part #	Description
41125	12V • 2A • Solid State • Brake CHMSL Logic Mode



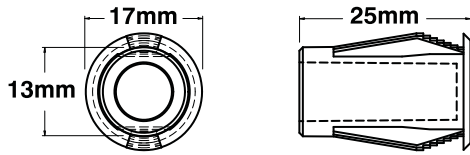


## MAGNET & DETECTION SWITCH ASSEMBLY



### FEATURES & BENEFITS

- Heavy duty high vibration applications
- 500mA switch output
- 3/4" to 1" detection range
- N/C (normally closed) switch arrangement
- Easy installation requires 13mm drill hole
- Accepts a wide range of sheet metal thickness
- Fully sealed construction for humid locations
- Applications include: automatic light on/off, alarm detection, sensor distance detection



### Specifications

Housing:	White ABS
Max. Rated Current:	500mA
Max. Rated Voltage:	100Vdc
Wire Length:	305mm

### Part # Description

41094	1" Range • Magnet & Detection Switch Assembly
-------	---



### BATTERY ANALYZER



#### FEATURES & BENEFITS

- Digital voltage display
- Plugs directly into vehicle DC socket
- Functions between 5Vdc and 30Vdc
- Suitable for 12V and 24V vehicles
- Automatic 12V/24V circuit selection

Part #	Description
98224	12V - 24V Voltmeter w/ DC Plug

### WIRING KITS



#### FEATURES & BENEFITS

- Both standard & heavy duty wiring kit includes:  
Relay • Wire • Rocker Switch • Connectors

Part #	Description
98070	12V • Standard Wiring Kit • 40A Relay
98071	12V • Heavy Duty Wiring Kit • 70A Relay
98072	24V • Heavy Duty Wiring Kit • 80A Relay

### WIRING HARNESS



#### FEATURES & BENEFITS

- Universal heavy duty harness can be used with any fog or driving lamp system
- Includes 40A relay, fuse & switch
- Wire length 96"

Part #	Description
98045	Heavy Duty Wiring Harness

ELECTRONIC PRODUCTS ACCESSORIES



41090

TERMINALS & SWITCHES

FEATURES & BENEFITS

- For door activation of multiple devices



41095

Part #	Description
41090	6 Contact Jamb Switch • Female
41095	6 Contact Jamb Switch • Male



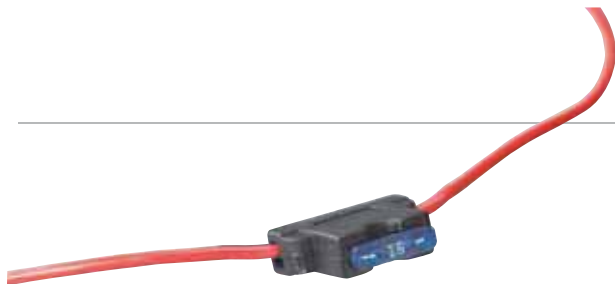
98015

REMOTE CONTROL

FEATURES & BENEFITS

- Works with any fog or driving light system, and many other accessories

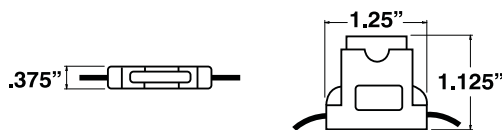
Part #	Description
98015	12V • RF Remote Control & Switch Kit



98030

IN-LINE FUSE HOLDER

Part #	Description
98030	In-Line Fuse • 10A • 14 Gauge
98031	In-Line Fuse • 15A • 14 Gauge
98032	In-Line Fuse • 20A • 14 Gauge





### WIRE HARNESS

Part #	Description
98094	Pigtail Wire Harness • 2 Pin • For LED Lights



98094

### TERMINAL BLOCKS

Part #	Description
<b>Works With Any 5-Pin Relay</b>	
98035	5 Wire • 12 Gauge Pigtail • 12"
98036	5 Wire • 14 Gauge Pigtail • 12"
98037	5 Wire • 16 Gauge Pigtail • 12"



98035

# VEHICLE ACCESSORIES

Pages 133-144







# BUNGEE CLIC LOAD SECURING KIT

## FEATURES & BENEFITS

- Easy to use - choose bungee cord length, select connection, twist & lock
- Versatile systems - can be used at work, at home, or for leisure
- Various lengths, connections, and locks - allows you to custom build flexible systems to suit any load or object you need secured
- Extendable and adjustable lengths - The various lengths (12", 24", 35", or 43") extend, providing quick adjustments and safety when securing load or objects



98612

### Part # Description

**98612 BUNGEE CLIC LOAD SECURING KIT INCLUDES:**

98602	Hooks x2
98603	Locking Hooks x2
98604	Straight Connector x1
98608	30cm (12") Cord
98609	60cm (24") Cord
98610	90cm (35") Cord



Choose your length.



Build your connection.



98601

### Part # Description

**98601 Display Carton 6 Pack**

**BUNGEE CLIC ACCESSORIES**

98602	Hooks x2
98603	Locking Hooks x2
98604	Straight Connector x2
98605	Y Connector
98606	Wall Mount x2
98607	Adjustable Hooks x2
98608	30cm (12") Cord x2
98609	60cm (24") Cord x2
98610	90cm (35") Cord x2
98611	120cm (43") Cord x2



98602



98603



98604



98605



98606



98607



98608



98609



98610



98611

VEHICLE ACCESSORIES

BUNGEE CLIC



## 12V AIR COMPRESSOR w/ LED LIGHT

### FEATURES & BENEFITS

- Fitted with fused 12V power plug & 3m cable
- Inflates tire to 35psi in 4.5 min
- Air line length approx. 48cm
- Red light for SOS & white light for nighttime illumination
- Complete with handy storage case
- 3 piece adapter kit

Part #	Description
--------	-------------

98262	12V Air Compressor w/ LED Light & 3 Piece Adapter Kit • 85W
-------	---



## 12V DIGITAL AIR COMPRESSOR w/ LED LIGHT

### FEATURES & BENEFITS

- Preset pressure mode with automatic cut off
- Inflates tire to 35psi in 3 min
- Red light for SOS & white light for night time illumination
- Complete with handy storage case and a tire deflation valve
- 3 piece adapter kit

Part #	Description
--------	-------------

98263	12V Digital Air Compressor w/ LED Light & 3 Piece Adapter Kit • 95W
-------	---



### BORESCOPE INSPECTION CAMERAS

#### FEATURES & BENEFITS

- Connects via USB port to record photos & video direct to a PC
- Waterproof 11.5mm camera with integral LED illumination
- Complete with mirror, hook & magnet clip-on tools



98270

#### Part # Description

98270	5V • USB Borescope Inspection Camera
-------	--------------------------------------

#### FEATURES & BENEFITS

- Fixed 9.8mm camera with integral LED illumination & clip-on tools
- Video output for connection to TV
- Accessories available



98281



98271



98282

#### Part # Description

98271	6V • 1.3W • 9.8mm Fixed Camera • Boreoscope
-------	---

#### ACCESSORIES

98281	3m Extension Probe
-------	--------------------

98282	Clip-On Tool Set
-------	------------------

#### FEATURES & BENEFITS

- Digital photo & video storage
- Fixed 9.8mm camera with integral LED illumination & clip-on tools
- Image download via USB port
- Video output for connection to TV
- Accessories available



98281



98272



98282

#### Part # Description

98272	6V • 1.3W • 9.8mm Fixed Camera • Digital Storage Boreoscope
-------	---

#### ACCESSORIES

98281	3m Extension Probe
-------	--------------------

98282	Clip-On Tool Set
-------	------------------



**TWIN SOCKET w/ USB CHARGING SOCKET**

**FEATURES & BENEFITS**

- Twin socket
- 8A 12Vdc multisolet
- Coiled cable
- 4 LED battery analyzer
- Width adjusting fitment collar
- Mounting arms
- USB charging socket allows the recharging of mobile devices
- 4 3/4" W x 3 1/8" D x 1 5/8" H



**Part # Description**

98236	12V Multisolet Adapter Twin Socket w/ USB Charging Socket
-------	--



**TWIN SOCKET w/ TWIN USB • CAN SHAPED**

**FEATURES & BENEFITS**

- Twin socket
- 2 USB charging sockets
- 8A 12Vdc multisolet
- Coiled cable
- 4 LED battery analyzer
- Width adjusting fitment collar
- Can shaped design for easy use in cup holders



**Part # Description**

98238	12V Multisolet Adapter Twin Socket w/ Twin USB • Can Shaped
-------	--



### TWIN SOCKET

#### FEATURES & BENEFITS

- 0° to 90° 4 position adjustable plug
- Width adjusting fitment collar
- 10A 12Vdc multisocket
- 2 1/2" W x 3" D x 1 1/2" H



Part #	Description
--------	-------------

98230	12V Multisocket Adapter Twin Socket
-------	--

### TWIN SOCKET w/ LED BATTERY ANALYZER

#### FEATURES & BENEFITS

- 3 LED battery analyzer
- Width adjusting fitment collar
- Mounting arms
- 8A 12Vdc multisocket
- Coiled cable
- 3 3/8" W x 2 3/4" D x 1 1/2" H



Part #	Description
--------	-------------

98231	12V Multisocket Adapter Twin Socket w/ 3 LED Battery Analyzer
-------	--



## TRIPLE SOCKET w/ LED BATTERY ANALYZER



### FEATURES & BENEFITS

- 4 LED battery analyzer
- Width adjusting fitment collar
- Mounting arms
- 8A 12Vdc multisolet
- Coiled cable
- 4 3/4" W x 3 1/8" D x 1 5/8" H

Part #	Description
98232	12V Multisolet Adapter Triple Socket w/ 4 LED Battery Analyzer



## QUADRUPLE SOCKET w/ LED BATTERY ANALYZER



### FEATURES & BENEFITS

- 4 LED battery analyzer & cigarette lighter socket
- Width adjusting fitment collar
- Mounting arms
- 8A 12Vdc multisolet
- Coiled cable
- 5 1/4" W x 2 3/4" D x 1 1/2" H

Part #	Description
98233	12V Multisolet Adapter Quadruple Socket w/ 4 LED Battery Analyzer Cigarette Lighter Socket





### USB CHARGING SOCKET

#### FEATURES & BENEFITS

- Input 12/24Vdc
- Shock resistant ABS
- Output 5V • 0.5A max
- 2A blade fuse
- LED power indicator



Part #	Description
98234	12V USB Charging Socket



### HARDWIRED 12V SOCKETS

#### FEATURES & BENEFITS

- Twin socket
- 8A 12Vdc multisocket
- Hardwired
- Integral protective caps



Part #	Description
98240	Hardwired 12V Sockets



VEHICLE ACCESSORIES

MULTISOCKETS



12V SINGLE POWER OUTLET

Part #	Description
98226	12V Single Power Outlet



12V TWIN MULTISOCKET

Part #	Description
98228	Permanent Mount • 12V Twin Multisocket



12V TRIPLE MULTISOCKET

Part #	Description
98229	Permanent Mount • 12V Triple Multisocket





## LICENSE PLATE FRAME

Part #	Description
99-300	License Plate Frame • Polystyrene • Black • 2 Pack



## LICENSE PLATE FRAME

Part #	Description
99-350	License Plate Frame • Polystyrene • Chrome • 2 Pack



## LICENSE PLATE HOLDER

Part #	Description
100-011	License Plate Holder • Polystyrene



## LICENSE PLATE PROTECTOR

Part #	Description
100-004	License Plate Protector • Polycarbonate • Clear





## LICENSE PLATE PROTECTOR

Part #	Description
100-005	License Plate Protector • Polycarbonate • Smoked



## LICENSE PLATE PROTECTOR

Part #	Description
100-062	License Plate Protector • Polycarbonate • Blue



## LICENSE PLATE PROTECTOR

Part #	Description
100-007	Economy License Plate Protector • Acrylic • Clear



## MOTORCYCLE LICENSE PLATE PROTECTOR

Part #	Description
1000-1	Motorcycle License Plate Protector • Polycarbonate • Clear



## 6 TIERED DISPLAY ASSORTED FRAMES & PROTECTORS

Part #	Description
100-30	6 Tiered Display w/ Assorted Protectors
100-31	6 Tiered Display w/ Assorted Frames & Protectors
100-10	6 Tiered Rack



100-30



100-31

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PPPC #690601



ASI #59481



SAGE #25077







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