100+ YEARS
OF PROTECTING PROFESSIONALS
THROUGH INNOVATIVE LIGHTING
Koehler – Bright Star LLC is located in Hanover Township, Pennsylvania, USA and is a member of the Marmon Group/Berkshire Hathaway Company. The Marmon Group is an international association of manufacturing and service companies which consists of over 150 autonomously run business units, located in 300 facilities in 22 countries and employs 17,000 employees.

Bright-Star was founded in 1909 as a battery manufacturer. In the 1930’s Bright Star developed and produced the first plastic safety certified flashlight for use in hazardous locations. During the past century, the technology has changed significantly, but the extreme conditions that our products operate in have not.

Today, we still develop and manufacture most products in Pennsylvania. Likewise, our business focus remains on markets that require products that will normally operate in extreme and hazardous environments. Our R&D, Supply Chain, Manufacturing and Quality Systems are structured to integrate top technology into durable and safe lighting products. Bright Star products are offered through our global distributor network. If durability and safety are a requirement, then Bright Star is the right choice.

I: RAZOR LED P. 6-7
Maximum LED brightness at 125 lumens with the highest safety ratings

II: LIGHTHAWK GENII P. 8-9
Super Bright, long run time and lightweight

III: LIGHTHAWK VISION 600 P. 10-11
Powerful 600 Lumens with a flood beam

IV: RIGHT ANGLE LED ALKALINE P. 12-13
Optimal brightness, safety, and weight

V: RA LED RECHARGEABLE P. 14-15
Intrinsically safe and rechargeable li-ion battery

VI: WORKSAFE LED P. 16-17
Most affordable and safest lights on the market

VII: WORKSAFE LED ATEX P. 18-19
 Safest in hazardous environments

VIII: INDUSTRIAL 2618 P. 20
Extremely durable industrial grade switch with a super tough polycarbonate lens

IX: RESPONDER VISION P. 21
Lightweight rechargeable 300-lumen flashlight

X: .VISION LED HEADLAMP P. 22-23
Hands-free, lightweight, spot and flood

Safety Ratings: P. 4-5
Learn about key ratings and guidelines for testing our entire product line.
Understanding Intrinsic Safety Ratings

**UNDERSTANDING CLASSES:** The National Electric Code (NEC) defines hazardous locations by “Class” & “Division.” There are 3 classes:

- **Class 1** locations are made hazardous by the presence of flammable gases, liquids, or vapors.
- **Class 2** locations are hazardous because combustible dusts are present.
- **Class 3** locations contain easily ignitable fibers or flyings.

**UNDERSTANDING GROUPS:** Hazardous classes are further defined by “groups” based on the physical properties of their combustible materials. There groups include:

- **Group A** Acetylene
- **Group B** Hydrogen
- **Group C** Ethylene, and carbon monoxide
- **Group D** Propane, gasoline, naphtha, benzene, butane, ethyl alcohol, acetone, and methane
- **Group E** Metals including aluminum, and magnesium (Div. 1 only)
- **Group F** Carbonaceous dusts including coal, carbon black, and coke
- **Group G** Dusts not included in E and F including wood, plastics, flour, starch, and grain dusts

**UNDERSTANDING DIVISIONS:** The “division” designation refers to the likelihood that ignitable concentrations of flammable materials are present. There are two divisions:

- **Division 1** designates an environment where ignitable concentrations of flammable gases, liquids, vapors, or dust can exist some of the time or all of the time under normal operating conditions, or where easily ignitable fibers and flyings are manufactured, handled, or used.
- **Division 2** locations are where ignitable concentrations are not likely to exist under normal operating conditions or where Class 3 materials are stored or handled.

**WHAT’S IN A RATING?:**

<table>
<thead>
<tr>
<th>NORTH AMERICAN CLASSIFICATION</th>
<th>EUROPEAN &amp; IEC CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I Division I (gases)</td>
<td>Zone 0 (gases)</td>
</tr>
<tr>
<td>Class II Division I (gases)</td>
<td>Zone 20 (gases)</td>
</tr>
<tr>
<td>Class I Division I (dusts)</td>
<td>Zone 1 (dusts)</td>
</tr>
<tr>
<td>Class II Division I (dusts)</td>
<td>Zone 21 (dusts)</td>
</tr>
<tr>
<td>Class I Division II (gases)</td>
<td>Zone 2 (gases)</td>
</tr>
<tr>
<td>Class II Division II (gases)</td>
<td>Zone 22 (dusts)</td>
</tr>
</tbody>
</table>

If you may be working in a hazardous location, choose a flashlight designed to meet global protection methods, both UL and ATEX/IECEx for use under the type of conditions you could encounter there.

**UNDERSTANDING FL1 STANDARDS:**

- **Light Output** is the total lumens a light produces. It is the overall quantity of emitted visible light energy as measured by integrating the entire angular output of the portable light source. Light output in this standard is expressed in units of lumens.

- **Run Time** is defined as the duration of time from the initial light output value - defined as 30 seconds after the point the device is first turned on - using fresh batteries, until the light output reaches 10% of the initial value.

- **Beam Distance** is defined as the distance from the device to which the light beam is 0.25 lux (0.25 lux is approximately the equivalent of the light emitted from the full moon “on a clear night in an open field”).

- **Impact Resistance** is the height, measured in meters, from which the light can be dropped onto cured concrete and still work properly. Dropped samples cannot have any visible cracks or breaks and must remain fully functional to receive rating.

- **Peak Beam Intensity** is the brightest point in the beam measured in candlepower. The modern unit of measurement is the lumen, replacing the now obsolete unit known as candlepower.

If you may be working in a hazardous location, choose a flashlight designed to meet global protection methods, both UL and ATEX/IECEx for use under the type of conditions you could encounter there.

Bright Star is a participating member of Plato.
The Razor was designed for the most demanding needs in mind. It is
constructed from a durable polypropylene that can withstand
the most abusive environments. The Razor has an ergonomically
designed push button switch for easy accessibility and tactical knurled
design for maximum grip and comfort in the hand. The super tough
body is designed to withstand the most abusive environments.
Intrinsically Safe UL Protection Methods Class I Division I and
ATEX / IECEx Zone Zero safety classification.

**Lumen Info:** Maximum LED brightness at 125 lumens with the highest
safety ratings. The Razor LED flashlight exhibits a piercing beam
supported by its deep dish reflector.

**Trusted by the Following Professions:**
Designed to meet the needs of all that demand the safest light of the
Utility, Petro Chemical, Oi/Gas Refining and Transportation Markets.

**Outshines at 125 Lumens**

**FL1 Standards**
- 125 Lumens
- 1 M
- 24 H
- 1 M
- 170 M
- 7,000 CD

**Features**
- Focused optic with high output LED
- Ergonomic push button switch
- Knurled design allows for maximum grip & total control
- Watertight seal
- Chemical resistant
- Static dissipative

**Accessories**
- Optional Holster
  - PART # 27425

**Dimensions:** 7.125” X 1.75” X 2”
**Weight:** 7 oz.
**Color:** Black, Safety Orange, Hi-Vis Green

**Safety**

**UL Protection Methods**
- UL913 CSA C22.2 NO 157
- Intrinsically Safe
- Class I, Div I, Groups A - D
- Class II, Div I, Groups E - G
- Class III, T3

**ATEX / IECEx Protection Methods:**
- Zone 0    1725
- Baseefa 13 ATEX 00256       IECEx BAS 13.0138
- Ex ia IIc T3 Ga                 II 1 GD Ex ia IIIB T195

**Flashlight.com**
The Lighthawk Lantern was the first lantern developed with Lithium Ion Rechargeable Battery Technology, bringing the most reliable battery technology to the flashlight market. Long run times, fast recharge times and extremely lightweight.

Developed to reduce the overall weight of equipment carried into a fire scene or work place. Extremely lightweight for the hand lantern class at 1.9lbs with a smoke piercing beam at 300 Lumens.

TRUSTED BY THE FOLLOWING PROFESSIONS:

**MODELS**

- #07612 4 CELL YELLOW LANTERN W/ 120V AC CHARGER
- #07632 4 CELL YELLOW LANTERN W/ DC CHARGER
- #07652 4 CELL YELLOW LANTERN W/ 220V AC CHARGER
- #07672 4 CELL, YELLOW, DIRECT WIRE
- #07612 UTIL 4 CELL, YELLOW 120V & DC
- #07630 4 CELL ORANGE LANTERN W/ DC CHARGER
- #07650 4 CELL ORANGE LANTERN W/ 220V AC CHARGER
- #07670 4 CELL, ORANGE, DIRECT WIRE
- #07611 UTIL 4 CELL, ORANGE 120V & DC
- #07611 4 CELL BLACK LANTERN W/ 120V AC CHARGER
- #07631 4 CELL BLACK LANTERN W/ DC CHARGER
- #07651 4 CELL BLACK LANTERN W/ 220V AC CHARGER
- #07671 4 CELL, BLACK, DIRECT WIRE
- #07611 UTIL 4 CELL, BLACK 120V & DC

**ACCESSORIES**

- # 07690 Gen II Charger Base
- # 07870 12/24V DC Cord
- # 20628 120V AC Cord
- # 20629 220V Euro Cord
- # 20627 240V British Cord
- #10B-1926 Magnet Kit
- #10B-1926-I Magnet Installed
- #98-1962-1 4-cell Replacement Lithium-Ion Battery Pack
- #98-1963-2 6-cell Replacement Lithium-Ion Battery Pack

**FEATURES**

- Multi-Function switch:
  - Main light with high / low mode
  - Rear signaling light
  - Steady on / flashing modes

- Battery Charge Indicator: Red for charging / Green for fully charged

- Low Battery Indicator: When 30 minutes of run time remain, high mode automatically switches to low mode and the front beam will begin to flash 3 times every 5 minutes.

**SAFETY**

- UL Protection Methods
  - UL 913 CSA 22.2 NO 157
  - CLASS I, II, III DIV I GROUPS C-G, T1
  - CLASS I, II, III DIV II GROUPS A-G, T5
  - INGRESS PROTECTION LEVEL: IP67

- Intrinsically Safe
  - Class I, II, III Div I Groups C-G, T1
  - Class I, II, III Div II Groups A-G, T5
  - Ingress Protection Level: IP67

**SAFETY CERTIFICATIONS**

- UL Protection Methods
  - UL 913 CSA 22.2 NO 157
  - CLASS I, II, III DIV I GROUPS C-G, T1
  - CLASS I, II, III DIV II GROUPS A-G, T5
  - INGRESS PROTECTION LEVEL: IP67

- Intrinsically Safe
  - Class I, II, III Div I Groups C-G, T1
  - Class I, II, III Div II Groups A-G, T5
  - Ingress Protection Level: IP67

- Magnetic Option

**FL1 STANDARDS**

- 300 LUMENS
- 1M
- 7H / 14H
- 1M
- 447 M
- 70,000 CD

- UL Protection Methods
  - UL 913 CSA 22.2 NO 157
  - CLASS I, II, III DIV I GROUPS C-G, T1
  - CLASS I, II, III DIV II GROUPS A-G, T5
  - INGRESS PROTECTION LEVEL: IP67

- Intrinsically Safe
  - Class I, II, III Div I Groups C-G, T1
  - Class I, II, III Div II Groups A-G, T5
  - Ingress Protection Level: IP67

- Magnetic Option
The Lighthawk Vision 600 offers a powerful 600 Lumens with a flood beam and articulating head to light up a large field of vision in a work area. So powerful you can use it as an area light. Finally a long running area light that only weighs 1.9 lbs.

TRUSTED BY THE FOLLOWING PROFESSIONS:

OUR TECHNOLOGY:
The Lighthawk Lantern was the first lantern developed with Lithium Ion Rechargeable Battery Technology, bringing the most reliable battery technology to the flashlight market. Long run times, fast recharge times and extremely lightweight.

FEATURES
Wall and vehicle mountable
Microprocessor controlled
Super tough nylon construction
LED charge status indicator
Non-Slip rubber bottom and handle
Low battery indicator
High visibility flashing LED tail light
Waterproof for 24 hours at 1 M

DIMENSIONS: 9.5” X 3.125” X 5.125”
WEIGHT: 1.9 Lbs
COLOR: HI-VIS GREEN

ACCESSORIES
#9B-1962-1: 4-Cell Replacement Li-Ion Battery Pack
#07890: Charger Base with 120V AC Cord
#20628: 120V AC Adapter
#21132: Shoulder strap
#21134: Seat Belt Style Strap
#20629: 220V Euro Cord
#07870: 12/24V DC Cord
#108-1926: Magnet Kit
#108-1926-I: Magnet Installed
#9B-1963-2: 6-cell Replacement Li-Ion Battery Pack

MODEL OPTIONS
07712
High Vis Green Lantern w/120V AC Charger
07752
High Vis Green Lantern w/220V AC Charger
07732
High-Vis Green Lantern w/12/24V DC Charger
07712 UTIL
High Vis Green Lantern w/120V AC & 12/24V DC Chargers
The Right Angle LED offers optimal brightness, safety, and weight. The alkaline model can be used as a rechargeable with the addition of a lithium ion battery pack, charging base and cord. The low profile R/A LED also offers a smoke cutting beam with intrinsically safe certifications.

OPTIC TECHNOLOGY:
Bright Star utilizes the latest optic technology to maximize light output with 220 Lumens. The RA’s optic distributes light into a custom beam pattern that pierces smoke and dust with 60,000 CD. Additionally, the optics enable the RA body to maintain a slim profile and keep the light focused in the proper direction at all times. This slim profile also keeps the light tight against the body preventing entanglement in air packs.

220 Lumens and 60,000 Candelas FOR CUTTING THROUGH THE THICKEST DARKEST SMOKE CONDITIONS

Extremely durable
Oversized push button switch for gloved hands
Stainless steel clip
Smoke cutting beam with advanced optic technology from its wide eye lens
6AA-Cell Alkaline (batteries not included)
Super-tough nylon construction
Some light used in both alkaline and rechargeable models

UL PROTECTION METHODS
UL913 CSA C22.2 NO 157 INTRINSICALLY SAFE
CLASS I, II, III, DIV I GROUPS A - G
CLASS I, II, III, DIV II GROUPS A - G
OPERATING TEMP CODE T3

DIMENSIONS: 7.2” X 3.2” X 1.8”
WEIGHT: 15 OZ. (WITH BATTERIES)
COLOR: SAFETY ORANGE
Once again Bright Star brings out a first of its kind in technology with the release of the Right Angle LED with Lithium Ion Rechargeable Battery Technology!

Bright Star’s proven Lithium Ion technology has now been released in the new RA LED, giving the user the best in battery reliability and reducing the overall weight of the light. No more maintenance on your rechargeable battery and any concerns with the run time or life span of the battery. Finally a dependable rechargeable battery in a Right Angle light with a beam distance of 477 meters and 205 Lumens!

**RECHARGEABLE BATTERY PACK:** First Lithium Ion Rechargeable on the market that is extremely lightweight and compact for close placement near the body.

**A BEAM DISTANCE OF 477 m and A SMOKE CUTTING BEAM OF 205 lumens**
The WorkSAFE LED series was developed using a proven product platform and integrating the highest LED technology. The LED technology significantly increased light output and run-time.

**INTRINSICALLY SAFE:** The intrinsically safe certification on these lights gives you the absolute confidence to use our lights in the most hazardous environments without concern of any safety issues.

**THE WORKSAFE LED SERIES OFFER THE HIGHEST GLOBAL SAFETY APPROVALS AT THE MOST AFFORDABLE PRICE.**

- **PART #15720**
  - #2224 LED
  - #2224 LED
  - #2206 LED
  - #2206 LED
  - #2217 LED
  - #2217 LED

- **PART #15460**
  - #2224 LED
  - #2224 LED
  - #2206 LED
  - #2206 LED
  - #2217 LED
  - #2217 LED

**Features & Safety**

- **Waterproof**
- **Switch Guard Protects Switch on Impact**
- **3-Way Switch for Signaling Capability for Marine Applications**
- **S-Biner Clip Included for Belt Attachment on 2217 and 2224 Models**
- **Crush-Resistant Case**
- **Polycarbonate Lens**
- **Faceted Reflector**
- **Anti-Roll Tube**
- **Chemical Resistant**
- **Non-Slip Grip**

**UL Protection Methods:**
- **Class I, II, III, Div I, Groups A - G**
- **Class I, II, III, Div 2, Groups A - G**
- **Operating Temp: T5**

**Flashlights Accept Optional Wands**

- **PART #23853 (Red)**
- **PART #23860 (Yellow)**

**FL1 Standards**

- **2206 LED**
  - 4 D-cell batteries (not included)
  - Battery tray included
  - **90 LUMENS**
  - **1 M**
  - **150 H**
  - **1,080 M**
  - **7,000 CD**

- **2217 LED**
  - 2 D-cell batteries (not included)
  - **80 LUMENS**
  - **1 M**
  - **200 H**
  - **100 M**
  - **2,450 CD**

- **2224 LED**
  - 3 D-cell batteries (not included)
  - **60 LUMENS**
  - **1 M**
  - **250 H**
  - **88 M**
  - **1,930 CD**
The WorkSAFE LED ATEX / IECEx series offers the highest global safety certification at the most affordable price. Our WorkSAFE LED ATEX / IECEx Series offers both ATEX / IECEx Zone 0 & Zone II as well as Class I Division I Groups A-G intrinsically safe certifications.

The intrinsically safe certification on these lights gives you the absolute confidence to use our lights in the most hazardous environments without concern of any safety issues.
From the original designers of the industrial work light, Bright Star advances the technology in this lighting category with the new 2618 LED industrial light.

A great all around industrial work light, designed for the toughest environments at an affordable price.

**Lumen Info:** Super bright for the industrial light category at 60 Lumens with one of the longest run times at 200 Hours all with a budget in mind.

**Features:**
- 200 hours run time
- Crush-resistant case
- Switch guard protects switch on impact
- Chemical/grease resistant
- Deep ribbed case for non-slip grip
- Very economical and reliable LED flashlight
- Anti-roll tube
- 2 D-Cell (batteries not included)

**Accessories:**
- Lens ring accepts snap-in wands. Highly visible, bright & durable director lights. The removable tip allows you to direct the light beam.

**Wands / Director Lights:**
- PART #23633 (Red) | PART #23650 (Yellow)

**FL1 Standards #11500**
- 60 LUMENS
- 200 H
- IMPACT RESISTANCE
- BEAM DISTANCE
- PEAK BEAM INTENSITY
- OUTPUT
- RUN TIME
- IMPACT RESISTANCE
- BEAM DISTANCE
- PEAK BEAM INTENSITY
- WATERPROOF

**FL1 Standards #19124**
- 800 LUMENS
- 5 H
- IMPACT RESISTANCE
- BEAM DISTANCE
- PEAK BEAM INTENSITY
- WATERPROOF

**Responder Vision Rechargeable**
- Integrates Bright Star’s proven Lithium Ion technology offering an extremely lightweight, 300-lumen, waterproof flashlight. A super tough clip, braided nylon lanyard, charger base with 120V cord and the Lithium Ion battery are all included.

**Features:**
- Rechargeable Battery
- Waterproof
- Rear Pushbutton Switch
- Self-Venting
- Pre-focused Spot Beam
- Lanyard and Belt Clip Standard

**Accessories:**
- #38-2144 Charger Base with 120V AC cord
- #38-2139 Replacement Li-Ion Battery Pack
VISION LED HEADLAMP

BRIGHT STAR TECHNOLOGY FOR BEST IN CLASS OPTICAL VISION

The Vision LED Headlamp provides lightweight, hands-free illumination up to 185 lumens. The user has the ability to switch from spot to flood in both high and low modes.

A great all around headlamp, designed for a variety of environments at an affordable price.

4 LIGHT MODES

HIGH SPOT, LOW SPOT, HIGH FLOOD, LOW FLOOD

ALLOWS USER TO CHOOSE BEAM THAT BEST SUITS THEIR NEED AT ANY GIVEN TIME

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4 Light Modes: High Spot, Low Spot, High Flood, Low Flood allows user to choose beam that best suits their need at any given time

- Large push button switch
- Lightweight polymer housing design
- Adjustable mount for greater vision
- Multi-use adjustable strap securely adheres to helmets, hardhats and heads
- IPx4 rated water-resistant design suitable for outdoor use in wet environment

**MODES**

- **SPOT**
  - HIGH: 185 LUMENS, 63 M, 6.75 H
  - LOW: 65 LUMENS, 35 M, >140hrs

- **FLOODLIGHT**
  - HIGH: 2000 LUMENS, 6 M, >70hrs
  - LOW: 1000 LUMENS, 4 M, >140hrs

**FEATURES**

- **BRIGHT STAR TECHNOLOGY FOR BEST IN CLASS OPTICAL VISION**
  - Lets you see better!

**FL1 STANDARDS**

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**#200501**

3 AAA Cell Alkaline Batteries (sold separately)

- 185 LUMENS
- 6.75 H
- 1 M
- 63 M
- 1,000 CD

**OUTPUT**

**WATER RESISTANCE**

**RUN TIME**

**IMPACT RESISTANCE**

**BEAM DISTANCE**

**PEAK BEAM INTENSITY**

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www.flashlight.com

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DIMENSIONS: 2.4" X 1.3" X 1.75"

WEIGHT: 3.5 oz. with Batteries

COLOR: Hi-Vis Green