Lighting Solutions
HIGH INTENSITY SCENE LIGHTING

FRC
A Safe Fleet Brand
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MORE Light LESS Power

LEDs produce more than 5 times the amount of light as an incandescent bulb while consuming the same amount of power.

Actual side-by-side comparison of Halogen vs LED lighting
FIRE RESEARCH LED lampheads are designed to operate in a range that is as close to natural daylight as possible. All FRC LED Lampheads are rated 5500 - 7000K, as close to natural daylight as a light can get.

Visible light has a color temperature scale from 1800 to 12,000 Kelvins (K). As you can see, a candle burns at around 1800K and a blue sky is at 10,000K. Daylight is between 5000K and 6500K. Different types of light sources emit a different color of light. The color of the light is measured in Kelvins and is not a measure of brightness.

LED lighting is whiter, brighter, and will outlast traditional bulbs. LEDs Outlast Traditional Bulbs:

- The typical operational life of an LED is 50,000 hours compared to the average life of an incandescent bulb, which is approximately 2,000 hours.
- LEDs can operate well past the lifetime of the average apparatus.
- Because of their inherent solid state design without filaments, LEDs are much more rugged than incandescent bulbs and can better withstand shock and vibrations.

Closer to Natural Daylight:

<table>
<thead>
<tr>
<th>Candlelight</th>
<th>Incandescent Bulb</th>
<th>Quartz Halogen Bulb</th>
<th>HID Bulb</th>
<th>Daylight</th>
<th>Blue Sky</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1800-1900)</td>
<td>(2500-2900)</td>
<td>(3300-3500)</td>
<td>(4200-4500)</td>
<td>(5000-7500)</td>
<td>(10000-12000)</td>
</tr>
</tbody>
</table>

Color Temperature (measured in Kelvins)

All FRC LED Lampheads are rated 5500 - 7000K. As close to natural daylight as a light can get.
**SPECTRA**

20,000 Lumens of Bright Light

- Slimmest LED Profile in the Industry
- Unique Combination of Flood / Spot LEDs
- Instant-On at Full Intensity
- Longer LED Life Rated at 50,000 Hours
- Available in 15,000 or 20,000 Lumens
- Five Year LED Lighting Warranty
- Innovative Cooling Fins Provide Higher Efficiency
- Available on FRC Pole, Brow, Fixed or Surface Mounts

“SURE GRIP” HANDLE STAYS COOL TO THE TOUCH WHEN HOLDING LAMPHEAD

FLOOD LEDS (TOP & BOTTOM ROWS) ILLUMINATE THE WORK AREA

SPOT LEDS (MIDDLE ROW) PROVIDE LONG DISTANCE ILLUMINATION

UNIQUE LENS DESIGNED TO ILLUMINATE AREA DIRECTLY BELOW LAMPHEAD

Shown with standard white bezel—black & chrome also available

Puts All Light Directly on the Work Area & Scene Beyond

Three rows of LEDs - Top and bottom rows are flood LEDs designed to light up the work area. The middle row of focused spot LEDs provide long distance illumination.

SPECTRA’s unique lens design provides a smooth and uniform flood and spot combination bringing firefighters the widest light pattern for improved work area visibility as well as illuminating objects at a farther distance.

SPECTRA’s advanced lens design and arrangement of powerful LEDs deliver bright LED light where its needed.

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SPECTRA Surface Mount

15,000 Lumens of Bright Light

- RUBBER GASKET PROTECTS VEHICLE SURFACE
- SPOT LEDS PROVIDE LONG DISTANCE ILLUMINATION
- ROW OF FLOOD LEDS (TOP & BOTTOM) ILLUMINATE THE WORK AREA
- SLIMMEST PROFILE SURFACE MOUNT - ONLY 1 3/4"
- UNIQUE LENS DESIGNED TO ILLUMINATE AREA DIRECTLY BELOW LAMPHEAD

Shown with standard chrome bezel - white and black also available

SPECTRA surface mount has an extremely low profile extending less than 1-3/4" from the panel.

- Surface Mount LED Lamphead Generates a Combined Flood & Spot Light Pattern
- Slim Body Design Depth of Only 1 3/4" Keeps Lamphead Closer to Vehicle
- Surface Mount is Easier and Faster to Install
- Available in 12/24 VDC or 120/240 VAC

AC surface mount model SPA260 requires 6 3/8" w x 4 11/16" h cut-out

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**SPECTRA MAX**

The Brightest LED Scene Light Available

- **“SURE GRIP” HANDLE STAYS COOL TO THE TOUCH WHEN HOLDING LAMPHEAD**
- **2 ROWS OF INTENSE FLOOD LEDS PROVIDE THE ULTIMATE IN SCENE & WORK AREA ILLUMINATION**
- **CENTER ROW OF BRIGHT SPOT LEDS OFFER LONG DISTANCE ILLUMINATION**

28,000 Lumens of Ultrabright Light

- Available in 12/24 VDC or 120/240 VAC
- Choose Pole, Brow, Fixed or Surface Mounts

The Brightest Surface Mounted LED Lamphead Available

- **SPECTRA-MAX Surface Mount**
  - 20,000 Lumens of ultrabright light to improve vehicle performance

Shown with standard white bezel—black & chrome also available

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SPECTRA MAX-S

Maximum Spot & Flood Light Capability

“SURE GRIP” HANDLE STAYS COOL TO THE TOUCH WHEN HOLDING LAMPHEAD

3 ROWS OF POWERFUL SPOT LEDs ILLUMINATE OBJECTS FARTHER AWAY

BOTTOM ROW OF INTENSE FLOOD LEDs ILLUMINATE ENTIRE SCENE & WORK AREA

Shown with standard white bezel – black & chrome also available

28,000 Lumens of Bright Spot/Flood Light

• SPECTRA MAX-S combines a flood light with an intense long-distance spotlight to let you see objects farther away
• Select Spot (14,000 Lumens) or Flood (14,000 Lumens) Light Patterns or 28,000 Lumens Spot/Flood Combination
• Available in 12/24 VDC or 120/240 VAC
• Choose Pole, Brow, or Fixed Mounts

SPECTRA MAX Series Lampheads deliver maximum scene & work area visibility

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Slim, Compact & Powerful

14,000 Lumens of Bright Light

- SPECTRA MS combines spot & flood LEDs for a uniform light pattern
- Compact & Powerful - Measures just 8 3/4” wide by 3 1/4” deep
- Efficient - More LED Light Using Less Power
- Economical LED solution for Upgrading Your Vehicle
- Available in 12/24 VDC or 120/240 VAC
- Choose Pole, Brow, or Fixed Mounts
SPECTRA 950 Perimeter Illumination

- 5,000 Lumens of light projects 170° illuminating underneath and across to light up the body of vehicle and immediate work area
- Complex single lens optic design engineered for unmatched performance
- Easy installation, no panel cut-out. Rubber gasket protects vehicle surface
- Operating hours: 50,000+

SPECTRA 900 Scene Illumination

- Ultra-Bright 7,000 Lumen LED scene lighting using 24 white LEDs
- Innovative lens redirects the light along the vehicle and directly onto the scene
- Easy installation, no panel cut-out
- Heat sink design offers greater light output
- Rubber gasket protects vehicle surface

*SPECTRA 950 / 900 Shown with standard chrome bezel – black & white also available*
The Best Brow Light for the Job

Lowest Profile Brow Mount Scene Light

- Lowest profile scene light in the industry at just under 2"
- Only brow lighting in the industry with individual low beam optic LED's
- Built in DOT marker light
- Independent control for the marker, flood and low beam LEDs
- Ideal for working vehicle scenes
- Will not blind passing traffic or emergency personnel on the opposite side of the scene
Exclusive low-beam lens directs flood light out and downward.

Low beam light projection on a typical 8' high apparatus will provide forward coverage up to 150' and side coverage to 60' wide.

Choose the model that's best for you:

- **CLA100 - A68** • 71.6" long - white narrow flood, white low beam, amber DOT marker 17,800 Lumens
- **CLA100 - A62** • 65.2" long - white narrow flood, white low beam, amber DOT marker 16,100 Lumens
- **CLA100 - A49** • 42.5" long - white narrow flood, white low beam, amber DOT marker 12,500 Lumens
- **CLA100 - A14** • 17.5" long - white low beam 2,600 Lumens

Length measurements include mounting brackets.
The Cost Effective, Affordable LED Solution. Ideal for Upgrading Your Existing Fleet

SURE-GRIP MOLDED HANDLE

ULTRABRIGHT LED ARRAYS

UNBALANCED KNOB DESIGN REDUCES THE CHANCE OF LOOSENING UP IN ROUTE

THICKER, REINFORCED MOUNTING KNUCKLE

ADVANCED LENS DESIGN FOCUSES 100% OF THE LED LIGHT DIRECTLY WHERE IT IS NEEDED MOST

EVOLUTION II lampheads easily mount to emergency warning lightbars.

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20,000 Lumens of Bright Light

- Brighter Light - More than 20,000 Lumens of UltraBright LED Light
- Whiter Light – Closest Thing to Natural Sunlight
- Uniform High Quality White Light with the Widest Light Pattern
- Long Operating Hours – Rated at 50,000 Hours
- Parabolic Reflector & Lens Designed to Direct All the Light Onto the Scene
- Lamphead Can Be Used With 12 or 24 Volt DC systems (13/6.5 amps)
- Full Brightness at Power On - Instant Restarts

**EVOLUTION II MS**

is compact with an ultrabright light output of 11,000 lumens.

Evolution II fits all mounts. Easily upgrades your existing vehicles.

Advanced Lens Design See All the Action Further Away!

**FRC solutions. Exclusively from FRC**

The NEW EVOLUTION II Lens Focuses More LED Light on the Scene and Objects Far Away.

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A Revolutionary Design

The OPTIMUM is a revolutionary lamphead that puts more light on the scene without the need for an increase in power. The OPTIMUM lamphead provides the maximum transfer of light from the bulb to the scene.

Setting the Trend

The OPTIMUM uses a uniquely designed, vacuum deposit, polished reflector to maximize light emission. OPTIMUM’s large curved front lens and exclusive “head down” shape produce a uniform beam that lights up an area 100° vertically by 150° horizontally.
Don't Waste Precious Light

The high intensity FOCUS lamphead uses a uniquely designed patented reflector to eliminate wasted light. It is designed to focus 100% of the light produced into the area where it is needed. Built tough, the compact design allows it to be mounted in places that traditional lighting fixtures do not fit.
The Magnafire floodlight incorporates all of the features necessary for today’s public safety professionals: High-intensity light output, compact design, and durability. Its mirror-polished reflector has increased vertical surface area and rounded parabolic corners for optimum efficiency. The result is a BRIGHT, SMOOTH floodlight beam pattern that lets you put light where you need it.
Economical and Reliable

Magnafire 5000

Magnafire 3000

Strength and Simplicity
Magnafire lamphead housing, switch box, swivel knuckle, and lens frame are made from die-cast aluminum rather than extruded parts. This rugged die-cast construction ensures years of reliable service.

Service Made Easy
The one-piece lens assembly allows for easy field replacement of the bulb, lens, and reflector.
## SPECTRA SERIES

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Model</th>
<th>Voltage</th>
<th>Current</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V•24V</td>
<td>Q15</td>
<td>12/24V</td>
<td>13.9/6.9A</td>
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<td>120V</td>
<td>K15*</td>
<td>120 V</td>
<td>1.4A</td>
<td>15,000</td>
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<tr>
<td></td>
<td>K20</td>
<td>120 V</td>
<td>1.8A</td>
<td>20,000</td>
</tr>
<tr>
<td>240V</td>
<td>J15*</td>
<td>240 V</td>
<td>0.7A</td>
<td>15,000</td>
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<tr>
<td></td>
<td>J20</td>
<td>240 V</td>
<td>0.9A</td>
<td>20,000</td>
</tr>
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* Surface mount SPECTRA models only

## SPECTRA MAX SERIES

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Model</th>
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<th>Current</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V•24V</td>
<td>Q20*</td>
<td>12/24V</td>
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<td>Q28</td>
<td>12/24V</td>
<td>19.2/9.6A</td>
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<tr>
<td>120V</td>
<td>K20*</td>
<td>120 V</td>
<td>1.4A</td>
<td>20,000</td>
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<tr>
<td></td>
<td>K28</td>
<td>120 V</td>
<td>2.8A</td>
<td>28,000</td>
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<tr>
<td>240V</td>
<td>J20*</td>
<td>240 V</td>
<td>0.7A</td>
<td>20,000</td>
</tr>
<tr>
<td></td>
<td>J28</td>
<td>240 V</td>
<td>1.4A</td>
<td>28,000</td>
</tr>
</tbody>
</table>

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## SPECTRA MAX-S SERIES

<table>
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<tr>
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<th>Voltage</th>
<th>Current</th>
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</tr>
</thead>
<tbody>
<tr>
<td>12V•24V</td>
<td>A28</td>
<td>12/24V</td>
<td>20.8/10.4A</td>
<td>28,000</td>
</tr>
<tr>
<td>120V</td>
<td>B28</td>
<td>120 V</td>
<td>2.8A</td>
<td>28,000</td>
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<tr>
<td>240V</td>
<td>C28</td>
<td>240 V</td>
<td>1.4 A</td>
<td>28,000</td>
</tr>
</tbody>
</table>

## SPECTRA MS SERIES

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Model</th>
<th>Voltage</th>
<th>Current</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V•24V</td>
<td>R14</td>
<td>12/24V</td>
<td>10.8/5.4A</td>
<td>14,000</td>
</tr>
<tr>
<td>120V</td>
<td>T14</td>
<td>120 V</td>
<td>1.4A</td>
<td>14,000</td>
</tr>
<tr>
<td>240V</td>
<td>U14</td>
<td>240 V</td>
<td>0.7A</td>
<td>14,000</td>
</tr>
</tbody>
</table>

## SPECTRA 900/950 SERIES

### SPECTRA 900 Scene Illumination

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Model</th>
<th>Voltage</th>
<th>Current</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V•24V</td>
<td>Q70</td>
<td>12/24V</td>
<td>6.0/3A</td>
<td>7,000</td>
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</tbody>
</table>

### SPECTRA 950 Perimeter Illumination

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Model</th>
<th>Voltage</th>
<th>Current</th>
<th>Lumen</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V•24V</td>
<td>Q50</td>
<td>12/24V</td>
<td>5.0/2.5A</td>
<td>5,000</td>
</tr>
</tbody>
</table>

## SPECTRA LED Lampheads

Output an impressive 20,000 lumens of super bright LED light. The advanced lens and arrangement of LEDs generate a unique combination flood and spot light pattern.

## SPECTRA MAX Lampheads

Deliver 28,000 lumens of ultrabright LED light in a uniform light pattern providing maximum scene & work area visibility.

## SPECTRA MAX-S Lampheads

Output 28,000 lumens of ultrasbight LED light. The lamphead combines a flood light with an intense long distance spotlight to let you see objects farther away.

## SPECTRA MS LED Lampheads

Are slim, compact, and provide an efficient 14,000 lumens of bright LED light.

## SPECTRA 900/950

**SPECTRA 900 LED** was designed specifically to focus all light directly on the scene. **SPECTRA 950 LED** casts light underneath and across to illuminate vehicle and work area. Both lights are easy to install with NO PANEL CUT OUT required.
CrestLight low profile LED scene lights provide the flexibility to offer the proper light for the job. The CrestLight is a combination of three different lights, white narrow flood, white low beam, and amber DOT markers.

EVOLUTION II low profile LED lampheads generate up to 20,000 lumens of ultra bright white light. The unique LED arrays and lens produce more usable light in a compact lamphead.

The MagnaFire lampheads incorporate all of the features necessary for today’s public safety professionals: High-intensity light output, compact design, and durability. Its mirror-polished reflector has increased vertical surface area and rounded parabolic corners for maximum efficiency.

FOCUS Low Profile Lampheds were the first lampheads to introduce the concept of re-directing light with fifty parabolic curved and aimed surfaces. The innovative design directs light where it is needed.

The low profile of the classic FOCUS offers mounting options that many other lights cannot.

OPTIMUM Lampheads utilize a super-efficient design to offer a maximum transfer of light from bulb to scene.
• All FRC telescopic poles are made of anodized aluminum for maintenance free performance and longer service life.

• All extension poles rotate 360°.

• All extension poles have the exclusive twist lock mechanism to secure the pole in position.

• All standard extension poles have a four foot retractable cord extending from the bottom for direct wiring.

• All outer tubes have a grooved surface.

• All pole mounted lampheads have a pivot in the mounting arm with a knurled knob to adjust the angle of elevation.

Model 510
Top Mount, Pull Up Telescopic Pole
• 3.25" round mounting flange is standard
• 2.5" square flange is available on the 510C and 510E (see insets)

OPTIONS:
-CL (custom length pole)
-SW (raised pole switch and indicator)
-TW (wire out of the top of the pole)

Model 512
Thru The Roof, Push Up Telescopic Pole
• Extension pole has a knurled aluminum push-up handle
• A round, “no drip” mounting flange is provided

OPTIONS:
-CL (custom length pole)
-SW (raised pole switch and indicator)
-TW (wire out of the top of the pole)

Patented Safety Twist Lock
• Easy to use and can be operated in either direction.
• It can not jam or be over tightened.
• There is no protruding handle to snag gear or straps on.
• Knurled surface for a firm grip.
• The locking mechanism has no metal to metal contact. This spares the anodized aluminum poles from unnecessary wear and tear.

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Model 540
Side Mount, Pull Up
Telescopic Pole
- An internal brake slows the extension pole during lowering
- Outer tube is grooved aluminum extrusion and qualifies as an NFPA compliant handrail

OPTIONS:
- CL (custom length pole)
- SW (raised pole switch and indicator)
- TW (wire out of the top of the pole)

Model 542
Side Mount, Pull Up
Telescopic Pole
- Outer tube is grooved aluminum extrusion and qualifies as an NFPA compliant handrail
- Standard outer tube (shown) is 20°. Choosing an optional 10" outer tube allows for a 43° extension

OPTIONS:
- CL (custom length pole)
- SW (raised pole switch and indicator)
- TW (wire out of the top of the pole)
- ST (10" outer tube)

All FRC pole brackets are adjustable along the pole.

Grooved Grab Handle
- FRC’s exclusive GRAB-HANDLE is a standard feature on all 530, 540 and 542 telescopic poles.
- It provides a secure grip when wearing heavy gloves.
- The grab handle qualifies as an NFPA compliant handrail.

Optional Mounts

-SR
Optional Steady Rest
Steady Rest bracket provides added bottom support for “inside pole” when it is in the retracted (down) position. Bracket can be used with 512 and 530 push-up poles.

-F
Optional Flush Mount
Flush mount brackets allow poles to securely mount flush to a surface. Total width is 3.875". Supplied as pair.

Side Mount Brackets
Supplied as Pair

-A
The 2.75” side mount brackets are standard on poles with SPECTRA, and OPTIMUM lampheads (excluding HID).

-H
The 3.5” brackets are standard on poles with EVOLUTION II and FOCUS lampheads.

-B
Side mount brackets with a 5” offset. Standard on poles used with OPTIMUM HID lampheads.

-C
Side mount brackets with a 7” offset.

Exclusively from FRC
solutions.

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Model 200
Side Mount, Pull Up Telescopic Pole

- 48" inner telescoping pole, 58" outer pole
- Concealed coil cord

OPTIONS:
-I (raised pole switch and indicator)
-NCW (non-concealed wire)

Model 300
Thru Body, Pull Up Telescopic Pole

- 48" inner telescoping pole, 58" outer pole
- Concealed coil cord

OPTIONS:
-I (raised pole switch and indicator)
-NCW (non-concealed wire)

Model 400
Thru Body, Push Up Telescopic Pole

- 48" inner telescoping pole, 12" outer pole
- Concealed coil cord

OPTIONS:
-I (raised pole switch and indicator)
-NCW (non-concealed wire)
-R (lower receiver bracket)

Optional Mounts

- R
Lower Receiver Bracket
Provides additional support when mounting push-up poles.

-WxP
Bracket Mounting Plate
- Makes bolting equipment to light-gauge body walls stronger
- Hardware and gasket included
- Adds 1/2" to any offset bracket
  \( x = \text{length in inches} \)
Model 500
Side Mount, Push Up Telescopic Pole
- 67.5" inner telescoping pole, 24" outer pole
- Concealed coil cord

OPTIONS:
-I (raised pole switch and indicator)
-NCW (non-concealed wire)
-R (lower receiver bracket)

Model 900
Economy Thru Body, Pull Up Telescopic Pole
- 48" inner telescoping pole
- Concealed coil cord

OPTIONS:
-I (raised pole switch and indicator)
-NCW (non-concealed wire)

Model 1100
Remote Side Mount, Push Up Telescopic Pole
- 67.5" inner telescoping pole, 24" outer pole
- Not available with concealed wire or switch

OPTIONS:
-I (raised pole switch and indicator)

Two-Piece Side Mount Brackets
Allows poles to be easily installed & removed from the truck for service without removing the brackets from the truck.

Two-Piece Side Mount Brackets
Supplied as Pair
- W1 Flush Mount 1.5" Offset
- W2 2" Offset Bracket
- W4 4" Offset Bracket
- W7P 7" Offset Bracket with plate

FRC solutions. Exclusively from FRC

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SPECTRA SERIES

Models SPA260 • SPA900 • SPA950

Lowest Profile LED Surface Mount

• LEDs Generate a unique Combined Flood & Spot Light Pattern
• Available in 15,000 Lumens Spectra and 20,000 Lumens Spectra Max
• Available in 12/24 VDC or 120/240 VAC

AC surface mount model SPA260 requires a 6 3/8” w x 4 11/16” h cut-out

SURFACE MOUNTS AVAILABLE FOR SPECTRA Q15, K15, J15 & SPECTRA MAX Q20, K20, & J20

Slim Profile LED Surface Mounts

SPECTRA 900
• Ideal Scene light for Ambulance and Emergency Response Vehicles
• Ultra-Bright 7,000 Lumens of Light

Easy installation, requires no panel cutout. Slim profile less than 2” deep

SURFACE MOUNTS AVAILABLE FOR SPECTRA 900 Q70

SPECTRA 950
• Ideal Perimeter light for Ambulance and Emergency Response Vehicles
• Ultra-Bright 5,000 Lumens of Light

Easy installation, requires no panel cutout. Slim profile less than 2” deep

SURFACE MOUNTS AVAILABLE FOR SPECTRA 950 Q50

Model FCA210

EVOLUTION II RECESSED

Generates 15,000 Lumens of Bright Light

Recess requires only 2” of depth

Models OPA200 • OPA250

RECESSED LIGHTS AVAILABLE FOR
OPTIMUM S30, S50, S75, S72, M10, M12, M15

Model FCA200

RECESSED LIGHTS AVAILABLE FOR
FOCUS D15, D30, H30, S30, S50, S75, S72, M10, M12

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**MAGNAFIRE**

**Model KR-1800  2.5” Recessed Mount**
- Polished aluminum housing with Magnafire light fixture positioned at 0° horizontal angle
- Magnafire 3000 requires 14.25” x 5” cutout for in-body mounting (Recessed depth is 2.5”)

**Model KR-1900  2.5” Recessed Mount**
- Polished aluminum housing with Magnafire light fixture positioned at 10° downward angle
- Magnafire 3000 requires 14.25” x 5” cutout for in-body mounting (Recessed depth is 2.5”)

**Models KR-2100/2800  2” Recessed Mount**
- Polished aluminum housing with Magnafire light fixture positioned at 10° downward angle
- Housing designed to protect the light fixture
- Magnafire 3000 requires 13.5” x 4.5” cutout for in-body mounting (Recessed depth is 2”)
- Magnafire 5000 requires 10” x 5” cutout for in-body mounting (Recessed depth is only 2”)

**Models KR-2200/2900  5.5” Flush Recessed Mount**
- Polished aluminum housing with Magnafire light fixture positioned at 0° horizontal angle
- Magnafire 3000 requires 14.375” x 7.125” cutout for in-body mounting (Recessed depth is 5”)
- Magnafire 5000 requires 10.5” x 7.5” cutout for in-body mounting (Recessed depth is 5”)

**Models KR-2300/3100  5.5” Flush Recessed Mount**
- Polished aluminum housing with Magnafire light fixture positioned at 10° downward angle
- Magnafire 3000 requires 14.375” x 7.125” cutout for in-body mounting (Recessed depth is 5.5”)
- Magnafire 5000 requires 10.5” x 7.5” cutout for in-body mounting (Recessed depth is 5.5”)

---

**Magnafire 3000® Light Heads**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Recessed Depth</th>
<th>Light Angle Position</th>
<th>KR-36 750w 120v</th>
<th>KR-37 750w 240v</th>
</tr>
</thead>
<tbody>
<tr>
<td>KR-1800</td>
<td>2.5”</td>
<td>0° horizontal</td>
<td>KR-1836</td>
<td>KR-1837</td>
</tr>
<tr>
<td>KR-2200</td>
<td>5.5”</td>
<td>0° horizontal</td>
<td>KR-2236</td>
<td>KR-2237</td>
</tr>
<tr>
<td>KR-2300</td>
<td>5.5”</td>
<td>10° downward</td>
<td>KR-2336</td>
<td>KR-2337</td>
</tr>
</tbody>
</table>

**Magnafire 5000® Light Heads**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Recessed Depth</th>
<th>Light Angle Position</th>
<th>KR-55 500w 120v</th>
<th>KR-56 750w 120v</th>
<th>KR-57 750w 240v</th>
</tr>
</thead>
</table>
This super bright flush mounted light draws only 3 amps. The 35 Watt 12V Xenon HID option features instant on & hot re-strike and is 4x brighter than halogen scene lights. Reflector options include a horizontal flood beam or a downward angle flood beam.

- 12v HID or 120v Halogen available
- 35 watt, 12v HID Model features instant “on” and hot restrike
- Flush Mount Fixture (1.875” deep) recesses cleanly in standard 2” truck wall
- Easy front access to ballast and lamp

<table>
<thead>
<tr>
<th>Part #</th>
<th>Watts</th>
<th>Volts</th>
<th>Amps</th>
<th>Lamp</th>
<th>Lamp Lumen Rating</th>
<th>Lamp Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>KR-4035X</td>
<td>35</td>
<td>12</td>
<td>3.5</td>
<td>Xenon HID</td>
<td>3200</td>
<td>3000 hrs</td>
</tr>
<tr>
<td>KR-4100H</td>
<td>100</td>
<td>120</td>
<td>.9</td>
<td>Halogen</td>
<td>1900</td>
<td>1000 hrs</td>
</tr>
<tr>
<td>KR-4150H</td>
<td>150</td>
<td>120</td>
<td>1.3</td>
<td>Halogen</td>
<td>2400</td>
<td>2000 hrs</td>
</tr>
<tr>
<td>KR-4250H</td>
<td>250</td>
<td>120</td>
<td>2.1</td>
<td>Halogen</td>
<td>5000</td>
<td>2000 hrs</td>
</tr>
</tbody>
</table>

- Horizontal and Downward angle flood beam patterns available (suffix -H- for Horizontal 12-15° beam or -D- for Downward 20-65° beam)
- Reflector is available on left or right side (suffix -R- for Right Side Reflector or -L- for Left Side Reflector)
- Chrome finish is standard. Also available in white paint finish (add suffix -W to part number).
Portable Base
Model KR-700

• Grab-and-run versatility
• Cast aluminum portable base
• Available with any AC light fixtures
• LED lampheads provide more light per watt than traditional quartz halogen fixtures

Hold Down Assembly

Lamphead with portable base easily stores in most vehicle compartments or storage areas

Wire guard comes standard for Optimum, Focus and Magnafire lampheads

Shown with Magnafire 5000 lamphead

Portable Demountable - DM Option

• Combines the benefits of a telescoping pole and a 700 Series portable light
• Hold-down assembly fastens light to permanently-mounted baseplate (-HD)
• Mounted on any of the telescoping poles including the SB-800 Series shown on the previous page
• On/off switch standard
• Add suffix -DM to complete pole mount
• Also available without pole
UltraBright Spectra Tripod

The only 28,000 Lumen AC powered LED lamphead available. Tripod mounted UltraBright Spectra lamphead at actual scene.

FRC Tripods are Available with the Following Lampheads:
- SPECTRA: J20, K20
- SPECTRA MAX: J28, K28
- SPECTRA MAX-S: B28, C28
- SPECTRA MS: T14, U14
- OPTIMUM: S30, S50, S75, S72, M10, M12, M15
- FOCUS: S30, S50, S75, S72, M10, M12, M15

Optional Quick Release Tripod Brackets
- The 603 bracket sets consist of a small triangular bracket for the feet and a QUICK RELEASE spring loaded dead-bolt lock to hold the tripod at its midpoint
- The brackets can be used on the exterior of a vehicle or in a compartment
- The 6F3 has spacers needed for FOCUS lampheads
**Twist Lock Telescopic Tripods**

**The Industry’s Finest Tripods with the Best Features:**

- **Twist Lock** – FRC’s unique locking ring operates from either direction. It is simply the best way to deploy a light with the gloved hand!

- **Air Cushioned pole release** – This innovation allows the pole to lower slowly, when released, on a cushion of air. This helps to prevent pinched fingers and damage to the bulb.

- **Ease of set-up** – FRC tripods are designed to deploy all three legs at the same time, allowing the unit to be set up quickly and easily at an incident.

- **Lightweight anodized aluminum poles** – The standard tripod weighs just 16 pounds!

- **Extends up to 12 feet!** – Fire Research tripods are designed to permit “overextension” of its legs so the tripod’s lamphead can reach this incredible height.

- **Cammed knobs** – The pole tightening knob will not unscrew or come off due to vibration.

- **Anti-chatter legs** – Rubber covers at the bottom of the legs ensure a quiet ride.

- **Small footprint** – When closed the unit sets into an incredibly small lower bracket allowing ease of mounting just about anywhere!

- **Truck mountable** – All tripods are truck mountable, allowing them to be used as telescoping lights on the vehicle and off!

- **Wire Guard** – As shown is standard.

---

**Model 600**

Model 600 is a standard tripod that can be used with either SPECTRA, OPTIMUM, or FOCUS Lampheads.

This tripod is supplied with a NEMA L5-15 three prong twist lock plug.

**Total Height of Model 600 with Lamphead**

(Pole & Legs Retracted)

- SPA Series = 72” high
- OPA Series = 69” high
- FCA Series = 69” high

**Model 656**

Smaller tripod, overall length (with lamphead) is 14” smaller than Model 600.

**Model 642**

Smallest tripod, overall length (with lamphead) is 27” smaller than Model 600.

---

- Similar to the 603, the dual bracket consists of a small triangular bracket for the feet and a DUAL QUICK RELEASE spring loaded dead-bolt lock to hold the tripod at its midpoint. The lock can be released from either side.

- **-603D** for SPECTRA / OPTIMUM
- **-6F3D** for FOCUS

---

fireresearch.com 1.800.645.0074
Fixed Top Mount

Model 570

More than a simple top mounted base, the 570 allows for a full 450°of rotation. This means that light coverage can be a full circle, plus another quarter turn which ensures no blind spots. The 570 base has a built-in stop to prevent the internal wiring from binding.

A built-in friction mechanism ensures the light will not rotate when the vehicle is in motion.

Fixed Side Mount

Model 580

The 580 side mounted, fixed pedestal light allows the lamphead to rotate 450° and has a self adjusting friction brake to prevent arbitrary rotation.

The pedestal has a round mounting base attached to a side mount bracket.

SPECTRA & OPTIMUM lampheads use a 2.75" bracket.
EVOLUTION II & FOCUS lampheads use a 3.5" bracket.
OPTIMUM HID lampheads use a 5" bracket.

Under Aerial

Model 300

The 300 adjustable aerial mounting brackets allow the EVOLUTION II and FOCUS lamphead to be mounted under an aerial bucket or platform. Aim the light forward or directly downward. Commonly set at 30° downward as shown.
Platform / Aerial Mount
Model KR-1400
The KR-1400 is a permanently mounted bracket with a 90 degree range of light angle adjustment and is designed for vertical and horizontal installation.

- Magnafire lampheads only
- On/Off switch not available

Fixed Top Mount
Model KR-SB-600
The KR-SB-600 fixed top mount includes a two-piece locking collar and is designed to allow for easy 360 degree rotation.

- Also available with clamping lever (KR-SB-600-L)

Low-Profile Permanent Mount
Model KR-1300
The KR-1300 low-profile permanent mount includes a 3 1/8” square base plate that allows for 358 degree horizontal rotation and 180 degree vertical adjustment of the lamphead.

- Magnafire lampheads only

Fixed Side Mount
Model KR-SB-600-W4
The KR-SB-600-W4 fixed side mount includes a two-piece locking collar and a 4” offset mounting bracket with four hole mount plate.

- 180° horizontal rotation and 90° vertical tilt with Magnafire 5000 lamphead
- 100° horizontal rotation and 90° vertical tilt with Magnafire 3000 lamphead

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Get More Light Using Less Power with SPECTRA & EVOLUTION II LED Brow Mounts

Highly Efficient LEDs Provide Five-Times More Light than Halogen Bulbs

Turn Night into Day

Arrive at a Nighttime Scene & Power-up Your New SPECTRA or EVOLUTION II Brow Mounted LED Lampheads for the Brightest Light.

Perfect for new and existing vehicles.

Brow Lights are Available with the Following Lampheads:

SPECTRA: Q15, Q20, J20, K20
SPECTRA MAX: Q28, J28, K28
SPECTRA MAX-S: A28, B28, C28
SPECTRA MS: R14, T14, U14

EVOLUTION II: V11, V20
OPTIMUM: S30, S50, S75, S72, M10, M12, M15
FOCUS: D15, D30, H30, S30, S50, S75, S72, M10, M12, M15
Contour, Universal & Flat Mounting
Perfect for Mounting on Roof of Cab

Brow Lighting Features
- UltraBright Illumination
- Light Up the Scene Quickly Upon Arrival
- Very Low Profile
- Available for SPECTRA SERIES, EVOLUTION II, OPTIMUM, FOCUS & MAGNAFIRE

Universal Mount
DESIGNED TO MOUNT ON ANY CAB
Universal Mounting Bracket Easily Installs on All Apparatus

Flat Mount
DESIGNED TO MOUNT ON ANY FLAT SURFACE

Model OPA800

Model OPA830

Model FCA850
Model OPA850

fireresearch.com

1.800.645.0074
No Scratch Guide & Rubber Bumpers
Prevents Scratching & Denting

The No-Scratch option combines a guide collar and guide rail assembly, a steady-rest bracket, and two rubber bumpers on the lamphead (FOCUS & EVOLUTION II only) to prevent scratching and denting of apparatus body surfaces. The complete No-Scratch option is available on 530 side mount, bottom raise, telescopic pole.

When the pole is raised the guide collar disengages from the guide rail and the lamphead is free to rotate 360°. As the pole is lowered the guide collar engages the guide rail. The guide collar and rail prevents the pole from being lowered if the lamphead is not correctly aligned.

-NS
Patented No-Scratch Option
Ordered with the 530 pole by adding the suffix -NS to the part number. -NS Option includes:
(2) Rubber Bumpers (FOCUS & EVOLUTION II only)
(1) Guide Collar & Guide Rail
(1) Steady Rest Bracket

FC-NS31K
The Rubber Bumpers can be ordered separately and installed on all standard FOCUS lampheads.
FC-NS31K Kit includes:
(2) Rubber Bumpers
(2) 1/8” Rivets with Backing Plates

FC-NSK
The No-Scratch option can be retrofitted on existing 530 poles.
FC-NSK Kit includes:
(1) FC-NS31K Kit
(1) Guide Collar & Guide Rail Assembly

Note: To retrofit this option the type of pole being used needs to be specified when ordering.

Raised Pole Indicator & Switch
In order to alert the vehicle operator that an extendable pole is raised, FRC offers a switch and indicator option for all permanently mounted telescopic poles. The parts associated with this option will differ depending upon the type of pole in question.

Note: To retrofit this option the type of pole being used needs to be specified when ordering.

If retrofitting this option on a 530 push-up pole the steady rest lower bracket is required.

Rubber Bumpers
are available as an option on most FOCUS & EVOLUTION II lampheads
Wire Guard
When retrofitting a wire guard on an OPTIMUM or FOCUS lamphead not originally fitted with one order the OP150-S/FC150-S or OP150-M/FC150-M kit.

Wire Guards are not available on Model 200, 230, and 250 recessed mounts.

Wire Exits from Top of Pole
Non-concealed Wire
For most permanently mounted lampheads the power cord exits through the bottom of a pole assembly. Specifying this option will bring the power cord out of the top of the pole or lamphead.

AC Plugs
-P1 Nema 5-15 Straight (household type) plug
-P2 Nema L5-20 3-Prong twist lock plug
-P3 Nema L5-15 3-Prong twist lock plug

On/Off Lamphead Switch
On SPECTRA, EVOLUTION II, OPTIMUM, FOCUS and MAGNAFIRE lampheads a switchbox is provided underneath the lamphead.

Dual Lampheads
Two (2) lampheads. Bar accommodates all lampheads (unless they are wider than 12") and many poles and mounts.

Custom Length Pole
FRC telescopic poles can be shipped pre-cut to a custom length. Total length will include pole and lamphead. (Some restrictions apply)
Compact, Ultrabright LED Light

Rugged Lightweight & Powerful

- 7,000 lumens of intense LED light
- Built tough for long life in the harshest environments
- Versatile design offers multiple mounting options
- Ideal LED upgrade for your existing vehicles
- 12 / 24 VDC - 5/2.5 Amps

Mounts almost anywhere

SoBrite LED easily retrofits to existing Collins Dynamics® FX and Unity AG-L mounting bases.

Shown with standard yoke mount (model SRA100)

Shown with fixed mount (model SRA110) and optional black housing
Three Models, Three Light Patterns

Model SRA100-07A
Spot Pattern:
A focused and concentrated long range light beam for illuminating objects in the distance.

Model SRA100-07B
Flood Pattern:
Widest pattern of light that is perfect for evenly illuminating the work area.

Model SRA100-07C
Trapezoid Pattern:
Wider than a spot and longer than a flood, this light pattern is ideal as a general-purpose work light. Ideal for mounting on front of vehicle for increased visibility while driving.
Work Area, **Ultrabright LED Light Series**

**Rugged Compact, Versatile & Powerful**

- Delivers outstanding light output
- Built tough for long life in the harshest environments
- Robust cast aluminum housings with polycarbonate lens
- Protected against shock, RFI/EMI interference, voltage surges, UV and reverse polarity
- IP67 or IP68 compliant against dust & water ingress
- Extremely affordable
- Many model sizes / available in black or white

**All models available in Spot or Flood**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description w/mounting bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED300-A01</td>
<td>LED, SPOT, 12/24 VDC, 20W, Square 3” x 3 3/32”, 1800 Lumens</td>
</tr>
<tr>
<td>LED300-B01</td>
<td>LED, FLOOD, 12/24 VDC, 20W, Square 3” x 3 3/32”, 1800 Lumens</td>
</tr>
<tr>
<td>LED310-A03</td>
<td>LED, SPOT, 12/24 VDC, 35W, Round 5 5/8”, 3500 Lumens</td>
</tr>
<tr>
<td>LED310-B03</td>
<td>LED, FLOOD, 12/24 VDC, 35W, Round 5 5/8”, 3500 Lumens</td>
</tr>
<tr>
<td>LED320-A03</td>
<td>LED, SPOT, 12/24 VDC, 35W, Square 5 1/2”, 3500 Lumens</td>
</tr>
<tr>
<td>LED320-B03</td>
<td>LED, FLOOD, 12/24 VDC, 35W, Square 5 1/2”, 3500 Lumens</td>
</tr>
<tr>
<td>LED330-A01</td>
<td>LED, SPOT, 12/24 VDC, 26W, Square 5 1/2”, 1800 Lumens</td>
</tr>
<tr>
<td>LED330-B01</td>
<td>LED, FLOOD, 12/24 VDC, 35W, Square 5 1/2”, 1800 Lumens</td>
</tr>
<tr>
<td>LED340-A07</td>
<td>LED, SPOT, 12/24 VDC, 78W, Round 7 1/2”, 7200 Lumens</td>
</tr>
<tr>
<td>LED340-B07</td>
<td>LED, FLOOD, 12/24 VDC, 78W, Round 7 1/2”, 7200 Lumens</td>
</tr>
<tr>
<td>LED350-A07</td>
<td>LED, RECESSED, 12/24 VDC, 18W, 7 11/16” x 2 7/16”, 1620 Lumens</td>
</tr>
</tbody>
</table>

1.800.645.0074 fireresearch.com
Remote Control, **Ultrabright LED Light**

**Rotatable, Lightweight & Powerful**
- 16 LED lights provide 7,000 Lumens of brightness
- Lightweight, die-cast magnesium housing
  - Vertical tilt 70° and 45° downward
  - 360° horizontal rotation
  - Two hand-held remote controllers supplied with each unit
  - Versatile design offers multiple mounting options
  - Ideal LED upgrade for your existing vehicles
  - Connects to any 12/24 VDC power source

**Flashing Alert** warns motorists or pedestrians of potential hazards ahead

**Hand-held Remote Control**
- Easily control direction and height of beam
- Pan left or right
- Flashing alert signal
- Quick battery replacement
- Mounting brackets provided

model LED400 A06-W (white)
model LED400 A06-B (black)

FIReresearch.com 1.800.645.0074

Solutions. Exclusively from FRC

5 Years Limited Warranty
The Collins-Dynamics brand of spotlights have been a recognized leader for over 25 years.

The Collins Dynamics spotlight incorporates a unique spun aluminum reflector that is polished and vacuum metalized. This process creates a high-quality mirror-like finish that emits a consistent beam focus that produces 30% more light output than sealed beam lamps.

Single and dual-stage reflectors provide high-intensity halogen spot, flood and enhanced flood beam patterns. The body is constructed of black anodized aluminum with a chrome plated reflector housing, and an aluminum switch box; switches are standard. All models are standard 12 volt and, if specified, offered with 24 volt lamps.

**FX-6 Enhanced flood light**
Enhanced flood pattern decklight with 7” single stage 40° reflector. Uses 100 watt H-1 lamp. Draws 7.8 amps.

**FX-9 Selectable spot/flood light**
Select spot or flood pattern with 7” dual stage reflector. Uses two 100 watt H-2 lamps. Draws 7.8 amps on spot or flood.

**FX-12 Selectable spot/flood light**
Select spot or flood pattern with 7” dual stage reflector. Uses 100 watt H-2 spot and 55 watt H-2 flood lamps. Draws 7.8 amps on spot, 4.2 on flood.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Watts</th>
<th>Volts</th>
<th>Amps</th>
<th>Lamp</th>
<th>Lamp Lumen Rating</th>
<th>Lamp Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD-FX-6</td>
<td>100</td>
<td>12</td>
<td>7.8</td>
<td>H-1</td>
<td>2,800</td>
<td>150 hrs</td>
</tr>
<tr>
<td>CD-FX-9</td>
<td>100/100</td>
<td>12</td>
<td>7.8</td>
<td>H-2</td>
<td>3,000</td>
<td>100 hrs</td>
</tr>
<tr>
<td>CD-FX-12</td>
<td>100/55</td>
<td>12</td>
<td>7.8</td>
<td>H-2</td>
<td>3,000</td>
<td>100 hrs</td>
</tr>
<tr>
<td>CD-FX-HID-1</td>
<td>35</td>
<td>12</td>
<td>3.5</td>
<td>Xenon HID</td>
<td>3,300</td>
<td>3,000 hrs</td>
</tr>
</tbody>
</table>

**Handheld Spotlights**
FRC offers a full-line of powerful portable and handheld spot and flood scene lights. All are constructed of rugged weatherproof materials to provide reliable high-intensity light output and performance.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD-CL-HID-1</td>
<td>Spotlight, FX-HID, 35 Watts, 12 Volts, HID, 9’ Power Cord</td>
</tr>
<tr>
<td>CD-CL-12</td>
<td>Spotlight, Handheld, CL-12, available with Momentary Switch (CD-CL-12-M)</td>
</tr>
<tr>
<td>CD-MAGNUM</td>
<td>Spotlight head, CD-12 Magnum</td>
</tr>
</tbody>
</table>
DuroLumen

High Performance LED Interior Lighting

The power you need, the savings you want.

- Reverse polarity and over/under voltage protected
- Easy retrofit – fits Grote and TruckLite
  hole patterns: 3.5” x 16” x 1”
- Recessed housing – Nearly flush mount pan
  fits tight along walls and ceilings

DuroLumen LED Interior Lighting

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Voltage</th>
<th>Amps</th>
<th>Lumens</th>
</tr>
</thead>
<tbody>
<tr>
<td>R03696</td>
<td>Surface mount. White/White offers high or low beam intensity switching</td>
<td>9–16 VDC</td>
<td>2.5 high</td>
<td>2,800 high</td>
</tr>
<tr>
<td></td>
<td>(user supplied switch)</td>
<td></td>
<td>1.25 low</td>
<td>1,400 low</td>
</tr>
<tr>
<td>R03694</td>
<td>Surface mount. White only</td>
<td>9–16 VDC</td>
<td>1.25 low</td>
<td>1,400</td>
</tr>
<tr>
<td>R03695</td>
<td>Recessed mount. Red/White offers high or low beam intensity switching</td>
<td>9–16 VDC</td>
<td>1.25 low</td>
<td>1,400 white</td>
</tr>
<tr>
<td></td>
<td>(user supplied switch)</td>
<td></td>
<td></td>
<td>500 red</td>
</tr>
<tr>
<td>R03850</td>
<td>Recessed mount. White/White offers high or low beam intensity switching</td>
<td>9–16 VDC</td>
<td>2.5 high</td>
<td>2,800 high</td>
</tr>
<tr>
<td></td>
<td>(user supplied switch)</td>
<td></td>
<td>1.25 low</td>
<td>1,400 low</td>
</tr>
<tr>
<td>R03848</td>
<td>Surface mount. White only</td>
<td>9–16 VDC</td>
<td>1.25 low</td>
<td>1,400</td>
</tr>
<tr>
<td>R03849</td>
<td>Recessed mount. Red/White offers high or low beam intensity switching</td>
<td>9–16 VDC</td>
<td>1.25 low</td>
<td>1,400 white</td>
</tr>
<tr>
<td></td>
<td>(user supplied switch)</td>
<td></td>
<td></td>
<td>500 red</td>
</tr>
</tbody>
</table>
UltraBright White LED Light for Compartments, Panels, Under Body Applications, Walkways & Stairwells

- UltraBright Strip Light - More than 300 Lumens of LED Light per 18” Length
- LEDs Housed in a Strong 5/8” Diameter Lexan Tube
- Designed Tough to Withstand Any Vehicle Vibration

- Waterproof & Submersible
- Great for All Applications
- Easy to install
- Long Operating Hours – Rated at 50,000 Hours

Available in 9” length increments from 9” to 63”

**Ordering Info**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tube Length*</th>
<th>Lumens</th>
<th>Current @ 12V</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED200 - A09</td>
<td>9”</td>
<td>150</td>
<td>0.17 amps</td>
</tr>
<tr>
<td>LED200 - A18</td>
<td>18”</td>
<td>300</td>
<td>0.35 amps</td>
</tr>
<tr>
<td>LED200 - A27</td>
<td>27”</td>
<td>450</td>
<td>0.52 amps</td>
</tr>
<tr>
<td>LED200 - A36</td>
<td>36”</td>
<td>600</td>
<td>0.70 amps</td>
</tr>
<tr>
<td>LED200 - A45</td>
<td>45”</td>
<td>750</td>
<td>0.87 amps</td>
</tr>
<tr>
<td>LED200 - A54</td>
<td>54”</td>
<td>900</td>
<td>1.05 amps</td>
</tr>
<tr>
<td>LED200 - A63</td>
<td>63”</td>
<td>1050</td>
<td>1.22 amps</td>
</tr>
</tbody>
</table>

*Add 2” for end caps & wire clearance
Mounting clips supplied • 24V also available
Most Compact UltraBright White LED Light for Compartments, Panels, & Under Body Applications

- Small and Compact - Four (4) White, Long Life LEDs
- UltraBright 650 Lumens Light Output
- Mounts in Any Orientation & On Any Flat Surface
- 12 VDC-0.8 Amps / 24 VDC-0.4 Amps
- Low Power Consumption Saves Energy
- Instant on at Full Intensity
- Can be Used in Compartments, on Panels, and for Ground or Surface Lighting

The LEDs are housed in a waterproof anodized aluminum case, built tough for all environments

LED 110
Flood Beam
for wider illumination

LED 100
Directed Beam
for focused light

LED110 - Q01 Work Light perfect for under vehicle

LED100 - Q01 Compartment Light with glare reducing lens

fireresearch.com 1.800.645.0074
TWIST-LOCK Top Mount Poles

<table>
<thead>
<tr>
<th>Inner Pole Extensions</th>
<th>43°</th>
<th>43°</th>
<th>51°</th>
<th>39°</th>
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<tbody>
<tr>
<td>Inner Pole Extentions</td>
<td>11 1/2</td>
<td>11 1/2</td>
<td>3 1/2</td>
<td>12</td>
</tr>
<tr>
<td>510</td>
<td>510C</td>
<td>510E</td>
<td>512</td>
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</tbody>
</table>

Standard Overall Height (top-to-bottom) for a telescopic pole without a lamphead is 58”.

TWIST-LOCK Side Mount Poles

<table>
<thead>
<tr>
<th>Inner Pole Extensions</th>
<th>30° with A = 20&quot;</th>
<th>39°</th>
<th>33° with A = 20&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Pole Extentions</td>
<td>40° with A = 10&quot;</td>
<td></td>
<td>43° with A = 10&quot;</td>
</tr>
<tr>
<td>530</td>
<td>540</td>
<td>542</td>
<td></td>
</tr>
</tbody>
</table>

Standard Overall Height (top-to-bottom) for a telescopic pole without a lamphead is 58”.

ALL DIMENSIONS IN INCHES
KWIK-RAZE Top Mount Poles

Inner Pole Extentions

Top View

Front View

KWIK-RAZE Side Mount Poles

Inner Pole Extentions

Range of motion

ALL DIMENSIONS IN INCHES
**Technical Specifications**

**Lamphead Height Dimensions**

<table>
<thead>
<tr>
<th></th>
<th>All SPECTRA</th>
<th>All FOCUS &amp; EVOLUTION II</th>
<th>All OPTIMUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamphead</td>
<td>12 7/16</td>
<td>10 3/8</td>
<td>10 3/8</td>
</tr>
<tr>
<td>With ON/OFF Switch</td>
<td>13 7/16</td>
<td>11 3/8</td>
<td>11 3/8</td>
</tr>
<tr>
<td>With Wire Guard</td>
<td>N/A</td>
<td>10 3/8</td>
<td>10 3/8</td>
</tr>
<tr>
<td>With Top Wire</td>
<td>13 7/16</td>
<td>11 3/8</td>
<td>11 3/8</td>
</tr>
</tbody>
</table>

**NOTE:** Lamphead to pole adapter (LT100) is included in lamphead dimensions. When adding the lamphead height to a standard pole height (58”) subtract 1 1/4” to obtain overall dimension.

**TWIST-LOCK Tripod Pole Dimensions**

<table>
<thead>
<tr>
<th></th>
<th>600</th>
<th>656</th>
<th>642</th>
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<tbody>
<tr>
<td>A</td>
<td>59</td>
<td>45 1/4</td>
<td>31 3/4</td>
</tr>
<tr>
<td>B</td>
<td>99</td>
<td>73 1/2</td>
<td>48 3/8</td>
</tr>
<tr>
<td>C</td>
<td>75 1/8</td>
<td>61 1/2</td>
<td>44 3/4</td>
</tr>
<tr>
<td>D</td>
<td>115 1/8</td>
<td>89 3/4</td>
<td>61 3/8</td>
</tr>
<tr>
<td>E</td>
<td>43 1/2</td>
<td>43 1/2</td>
<td>30 1/2</td>
</tr>
</tbody>
</table>

**NOTE:** The tripod comes with the power cord exiting from the bottom of the pole. For the power cord to exit from the top of the pole add the -TW option. When the -TW option is installed add 1” to the lamphead dimension and on a standard pole add 8” to dimensions B and D.

**Side Mount Bracket Dimensions**

All Dimensions In Inches

- **-A**
  - 3 7/8

- **-H**
  - 4 9/16
  - 3 3/4

- **-B**
  - 6 9/16
  - 5

- **-C**
  - 8 9/16
  - 7

- **-F**
  - 3 7/8

**Tripod Bracket Dimensions**

All Dimensions In Inches

*FOCUS Lampheads Require the included 7/8” spacer.

- **-603**
  - 7/8” SPACER FOR FOCUS LIGHTS

- **-603D**
  - 7/8” SPACER FOR FOCUS LIGHTS

- **-6F3**
  - 7/8” SPACER FOR FOCUS LIGHTS

- **-6F3D**
  - 7/8” SPACER FOR FOCUS LIGHTS
Dimensions • KWIK-RAZE • VANTAGE POINT • CRESTLIGHT

**KR-SB-600**

- 1 3/4
- 6 1/4
- 3 1/16
- 1 1/2

**KR-700**

- 10 1/3
- 11 7/8
- 5 1/16
- 5 7/8

**KR-1300**

- 1 5/8
- 3 1/4
- 5/16 Thru or 5-16-24 Tapped Hole Typ.
- 1 5/32 Typ

**KR-1400**

- 6 3/8
- 3 5/8
- 4 3/4
- 4 5/16

**KR-4000**

- 1 7/8
- 4 9/16
- 5 3/4

**DM**

- 3 7/16
- 1 1/8

**SOBRITE & FX**

- Mounting Options

  - CD-BR-1-Round Mount
  - CD-BS-2-Square Mount

**CRESTLIGHT**

- **Required cutout:** 9 1/2 w x 5 3/4 h

<table>
<thead>
<tr>
<th>Model</th>
<th>Width w/bracket</th>
<th>Mounting Holes</th>
<th>Height w/bracket</th>
<th>Height w/o/bracket</th>
<th>Depth</th>
<th>LEDs</th>
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<tbody>
<tr>
<td>CLA100-A14</td>
<td>17 1/2</td>
<td>16 9/16</td>
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<td>12</td>
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<tr>
<td>CLA100-A49</td>
<td>52 1/2</td>
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<td>3 5/16</td>
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<td>CLA100-A62</td>
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<td>3 5/16</td>
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<tr>
<td>CLA100-A68</td>
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<td>3 5/16</td>
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</table>
### OPA100, OPA500, OPA600, OPA700

<table>
<thead>
<tr>
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<th>H</th>
<th>H₂</th>
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<td>8 11/16</td>
<td>4 3/4</td>
<td>9 1/16</td>
<td>5 3/8</td>
</tr>
<tr>
<td>M10, M12, M15</td>
<td>14 1/16</td>
<td>4 3/4</td>
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### OPA200, OPA230, OPA250

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<th>D₂</th>
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<td>9 3/4</td>
<td>3 1/8</td>
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<tr>
<td>S30, S50, S75, S72</td>
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<td>16 1/8</td>
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### OPA800

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<td>10 7/16</td>
<td>6 7/16</td>
<td>7 1/2</td>
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<tr>
<td>M10, M12, M15</td>
<td>14 1/16</td>
<td>10 7/16</td>
<td>6 7/16</td>
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### OPA850

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<td>5 5/16</td>
<td>4 3/4</td>
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<tr>
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### OPA830

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</tr>
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<td>M10, M12, M15</td>
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</table>
### FCA100, FCA500, FCA600, FCA700

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<td>5</td>
<td>9</td>
<td>3 5/16</td>
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<tr>
<td>D30</td>
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<td>5 3/16</td>
<td>9</td>
<td>3 5/16</td>
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<tr>
<td>M10, M12, M15</td>
<td>15</td>
<td>5</td>
<td>9</td>
<td>3 5/16</td>
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<tr>
<td>V11</td>
<td>7 5/8</td>
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<td>9</td>
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<tr>
<td>V20</td>
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<td>3 5/16</td>
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### FCA200, FCA210

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<th>D₂</th>
<th>H₂</th>
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<td>2</td>
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<td>9 3/4</td>
<td>1 15/16</td>
<td>4 1/4</td>
</tr>
<tr>
<td>D30, M10, M12</td>
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<td>2</td>
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<td>15 7/8</td>
<td>1 15/16</td>
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<td>FCA210</td>
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<td>2</td>
<td>5 7/8</td>
<td>12 1/2</td>
<td>1 15/16</td>
<td>4 1/2</td>
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<tr>
<td>V15</td>
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<td>5 7/8</td>
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### FCA300

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<tbody>
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<td>11 1/2</td>
<td>6 1/2</td>
<td>3 7/8</td>
<td>5</td>
</tr>
<tr>
<td>M10, M12, M15</td>
<td>15</td>
<td>6 1/2</td>
<td>3 7/8</td>
<td>5</td>
</tr>
<tr>
<td>V20</td>
<td>11 1/2</td>
<td>6 1/2</td>
<td>3 7/8</td>
<td>5</td>
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### FCA800

<table>
<thead>
<tr>
<th>Model</th>
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<th>H</th>
<th>D₂Max</th>
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</thead>
<tbody>
<tr>
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<td>11 1/2</td>
<td>9 5/16</td>
<td>4 3/4</td>
<td>5 5/16</td>
</tr>
<tr>
<td>M10, M12, M15</td>
<td>15</td>
<td>9 5/16</td>
<td>4 3/4</td>
<td>5 5/16</td>
</tr>
<tr>
<td>V11</td>
<td>7 5/8</td>
<td>9 5/16</td>
<td>4 3/4</td>
<td>5 5/16</td>
</tr>
<tr>
<td>V20</td>
<td>11 1/2</td>
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<td>4 3/4</td>
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### FCA850

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<th>D₂</th>
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<tbody>
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<td>7 1/2</td>
<td>3 5/8</td>
<td>5</td>
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<tr>
<td>D30</td>
<td>12</td>
<td>7 1/2</td>
<td>3 5/8</td>
<td>5 3/16</td>
</tr>
<tr>
<td>M10, M12, M15</td>
<td>15 1/2</td>
<td>7 1/2</td>
<td>3 5/8</td>
<td>5 3/16</td>
</tr>
<tr>
<td>V11</td>
<td>8 1/8</td>
<td>7 1/2</td>
<td>3 5/8</td>
<td>5 3/16</td>
</tr>
<tr>
<td>V20</td>
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### FCA830

<table>
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<td>D15, D30, H30, S50, S72</td>
<td>11 1/2</td>
<td>5 3/16</td>
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<tr>
<td>M10, M12, M15</td>
<td>15</td>
<td>5 3/16</td>
<td>4 5/8</td>
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<tr>
<td>V20</td>
<td>11 1/2</td>
<td>5 3/16</td>
<td>4 5/8</td>
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</table>
### LAMPHEAD DIMENSIONS

#### SPA100, SPA500, SPA600, SPA700

<table>
<thead>
<tr>
<th>Model</th>
<th>W</th>
<th>D</th>
<th>H</th>
<th>H2</th>
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<tbody>
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<td>Q15, Q20, Q28, K20, K28, J20, J28, A28, B28, C28</td>
<td>14</td>
<td>3 3/4</td>
<td>11</td>
<td>5 3/8</td>
</tr>
<tr>
<td>R14, T14, U14</td>
<td>8 3/4</td>
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<td>11</td>
<td>6 1/2</td>
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</table>

#### SPA260

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<th>H</th>
<th>W2</th>
<th>D2</th>
<th>H2</th>
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</thead>
<tbody>
<tr>
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<td>1 3/4</td>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>K15, K20, J15, J20</td>
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<td>1 3/4</td>
<td>6</td>
<td>6 3/8</td>
<td>1 13/16</td>
<td>4 11/16</td>
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</table>

*AC surface mount requires a cut-out*

#### SPA800

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<tr>
<th>Model</th>
<th>W</th>
<th>D</th>
<th>H</th>
<th>D2Max</th>
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<td>5 7/8</td>
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<tr>
<td>R14, T14, U14</td>
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<td>6 1/2</td>
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*Measurement varies depending upon cab model*

#### SPA850

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<td>R14, T14, U14</td>
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#### SPA830

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<tr>
<td>R14, T14, U14</td>
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<td>4 3/16</td>
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#### SPA900, SPA902, SPA950

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#### SRA100

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#### LED100, LED110

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<tr>
<td>Q01</td>
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#### LED200, LED201

<table>
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**TECHNICAL SPECIFICATIONS**

**ALL DIMENSIONS IN INCHES**

1.800.645.0074 fireresearch.com
**MAGNAFIRE 3000 Lightheads - KR-3x**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
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<tbody>
<tr>
<td>Height</td>
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</tr>
<tr>
<td>Width</td>
<td>6 9/10</td>
</tr>
<tr>
<td>Depth</td>
<td>3 7/16</td>
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<tr>
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**MAGNAFIRE 5000 Lightheads - KR-5x**

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<td>6 9/10</td>
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<td>Depth</td>
<td>3 7/16</td>
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**FX Lightheads - CD-FX-6,-9,-12**

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<tr>
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**CD-FX-HID-1**

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<td>Width</td>
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**CD-CL-HID-1**

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**WORKPRO LED-3xx SERIES**

**LED 300**

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**LED 310**

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**LED 320/330**

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**LED 340**

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**LED 350**

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<tbody>
<tr>
<td>Diameter</td>
<td>6 15/16</td>
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</tbody>
</table>
3 Simple Steps
Follow the three steps shown below to get your final product number. Need help? Call us.

1. Choose a Pole Style or Mount
   - Brow Mount: KR-1500

2. Choose a Lamphead
   - Magnafire 3000: 35, 36, 37, 3B, 3D
   - Magnafire 5000: 55, 56, 57
   - Collins Dynamics FX: HID-1, 06, 09, 12

3. Choose Options
   - GG wire guard
   - DM portable demountable
   - GR12 grab rail 12"
   - GR18 grab rail 18"
   - GR24 grab rail 24"
   - R lower receiver support
   - HD hold down assembly
   - Electrical: S on/off switch, I raised pole indicator & switch, NCW non-concealed wire

ORDERING INSTRUCTIONS

KR·SB·436·G = KR·SB·4 + -36 + -S

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4 Simple Steps
Follow the four steps shown below to get your final product number. Need help? Call us.

1. Indicate the Light Prefix
   - SPA for SPECTRA
   - FCA for EVOLUTION II
   - OPA for OPTIMUM
   - SRA for SoBRITE

2. Choose a Pole Style or Mount
   - Poles
     - 510
     - 510C
     - 512
     - 530
     - 540
     - 542
   - Tripods
     - 600
     - 642
     - 656
   - Fixed Mounts
     - 100
     - 110
     - 200
     - 210
     - 250
     - 260
     - 300
     - 300U
     - 570
     - 580
     - KR700
     - 900
     - 950
   - Brow Mounts
     - 800
     - 830
     - 850

3. Choose a Lamphead
   - -Q15
   - -Q20
   - -Q28
   - -Q50
   - -Q70
   - -K15
   - -K20
   - -K28
   - -J15
   - -J20
   - -J28
   - -A28
   - -B28
   - -C28
   - -R14
   - -T14
   - -U14
   - -V11
   - -V15
   - -V20
   - -S30
   - -S50
   - -S72
   - -S75
   - -M10
   - -M12
   - -M15
   - -D15
   - -D30
   - -S72

4. Choose Options
   - -F flush mount bracket
   - -SR steady rest bracket
   - -CL custom length pole
   - -G wire guard
   - -NS no-scratch guide kit
   - -RB rubber bumpers
   - -ST 10" outer tube
   - -ON on/off switch
   - -SW raised pole indicator & switch
   - -TW wire exits top of pole
   - -A
   - -B
   - -C
   - -H
   - -603
   - -6F3

ORDERING INSTRUCTIONS

SPA 530 - K20 - ON

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Learn more on-line or request our FoamPro and FRC full line catalogs of foam proportioning, instruments, controls, displays, accessories and video systems.