

RAYDIAN® SL LIGHTBAR



All SOLARIS™ RAYDIAN® with takedowns in the HOTFOOT™

SUPERIOR LED PERFORMANCE

Only a lightbar with full 360-degree coverage can provide effective visual warning, and RAYDIAN® does it best. Here's why...

RADIAL END CAP CONFIGURATION

Raydian uses curved end caps with multiple LED assemblies to provide total radial coverage – especially the off-axis warning you need at intersections.

"HOTFOOT" MOUNT

Our innovative, patented new mounting system allows placement of alley lights and takedowns where they won't interrupt the primary warning signal – making RAYDIAN the first low-profile lightbar with full 360-degree uninterrupted warning.

BRIGHT, EFFECTIVE LED LIGHT OUTPUT

RAYDIAN uses the latest generation of high output LEDs. They are available in two optical versions. Our "TriOptic" LED modules use an optical prescription lens for effective light dispersion. Our "SOLARIS™" LED light assemblies incorporate offset, complex reflector

surfaces for accurate beam shaping and optical efficiency – putting the light where you need it.

LOW AMP DRAW, LONG LIFE

All of our LED modules are rated for thousands of hours of life – significantly higher than any other technology and draw fewer amps. Federal Signal LED products come with a 5-year warranty and meet SAE and CAC standards for radio frequency interference.

EFFICIENT, LOW-PROFILE DESIGN

RAYDIAN has been wind tunnel and field tested for fuel efficient, quiet performance. The mounting feet evenly transfer loads to the sides and pillar areas for sturdy mounting without damage to the roof. More importantly, the RAYDIAN light output surface area maintains excellent visibility at long distances.

Check out the following pages for more details, technical specifications, and ordering information so you can specify the RAYDIAN light system for your vehicles today!



PROPRIETARY "HOTFOOT" MOUNTING

The proprietary mounting system of the RAYDIAN incorporates lighting for the first time ever. Each mounting foot assembly can have (2) 50-Watt halogen light assemblies. When used as takedowns they adjust +/-10 degrees horizontally, as alley lights they adjust +/-12 degrees. Or you can specify "TriOptic" assemblies for added off-axis (intersection) warning and mount takedown and alley lights in the lightbar.

QUICK REFERENCE

FEATURES

- Innovative End Cap Design provides Superior 360-degree warning.
- Proprietary "HotFoot" mount system houses powerful 50 Watt Takedown and Alley Lights – allows uninterrupted primary warning.
- LEDs are long life and reduce power consumption.
- Latest Generation LEDs in two efficient versions ("TriOptic" and "SOLARIS") that put warning where you need it.
- 5-year warranty on LEDs.
- SIGNALMASTER™ directional light options available.
- The RAYDIAN housing has been tested for durability and fuel efficiency at high speeds.

APPLICATIONS

- Police, Fire, and EMS vehicles
- Parking enforcement and community service vehicles
- Private security vehicles

APPROVALS

- SAE J595 Light Output
- SAE 1113/41 RFI
- CAC Title 13, Article 22
- FCC Part 15

RELATED PRODUCTS

SmartSiren® Electronic Siren and Light Control System
Bulletin #5113

Touchmaster™ Delta Siren
Bulletin #5124

DynaMax™ Speakers
Bulletin #6102

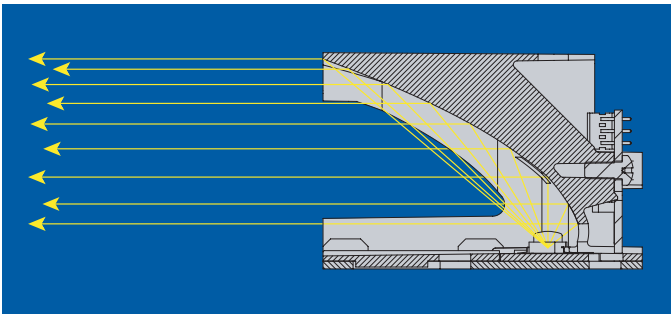
Cuda TriOptic™ LED Lighting
Bulletin #4170



SOLARIS 6 LED Module

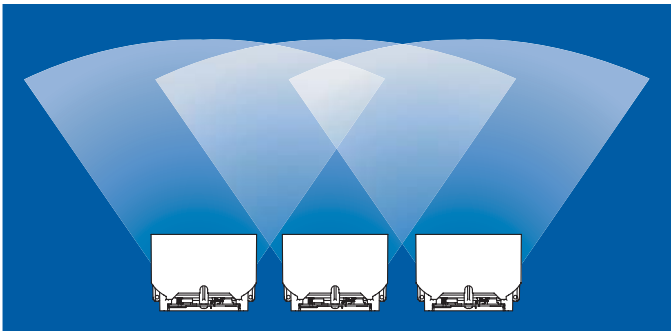
SOLARIS MODULE

Our new SOLARIS modules, pictured at left, is what you're looking for! They produce effective warning, represent the latest in LED technology, and come from a name you trust – Federal Signal!



SOLARIS IS EFFICIENT

SOLARIS is a module that consists of LEDs mounted in a reflector assembly that captures and directs 99% of LED source light – it's better light output than any other product.



SOLARIS IS EFFECTIVE WARNING

SOLARIS uses advanced optical design to put light where you need it most – at wide angles on the field of vision. When SOLARIS modules are mounted together in RAYDIAN, the light from individual modules overlaps, creating the best possible lighting with no weak spots!

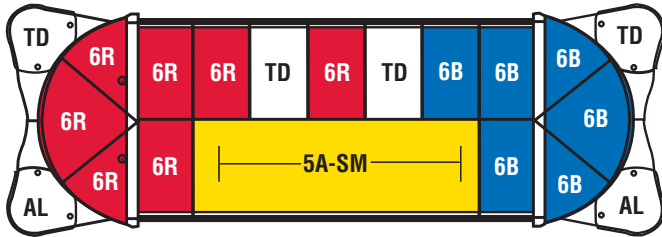


All TriOptic LED RAYDIAN with 5 lamp SIGNALMASTER

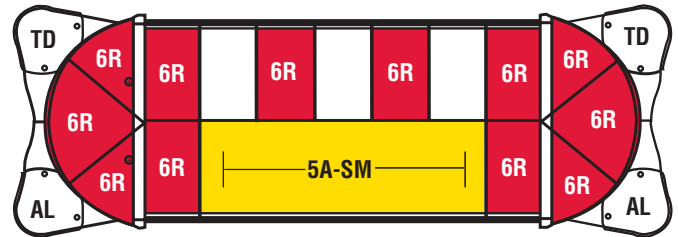
SIGNALMASTER DIRECTIONAL LIGHTS AVAILABLE

Select a 5-head or 7-head rear facing SIGNALMASTER for traffic direction. The 5-head allows you to specify a Red and/or Blue LED module on either side of the SIGNALMASTER. Purchase SIGNALMASTER control separately: SMC16, SMC56, or SS2000SM. Or, you can utilize the internal controller with user provided switches.

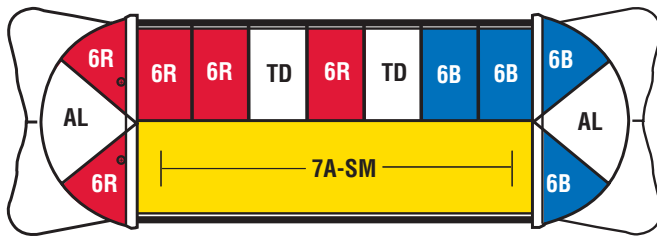
Popular Models



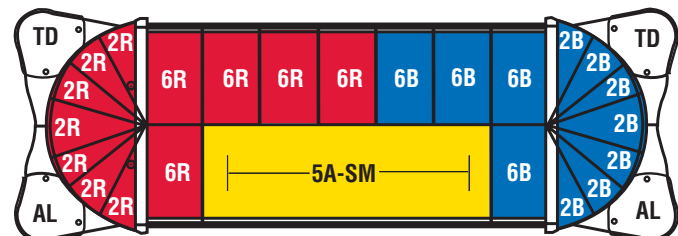
Model #456310-00030
All Solaris with 4 Takedowns, 2 Alley Lights, and 5-Module SignalMaster



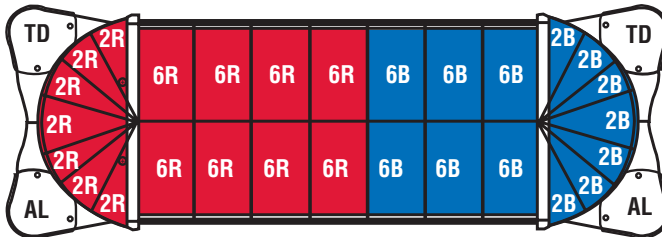
Model #456310-00031
All Solaris with 2 Takedowns, 2 Alley Lights, and 5-Module SignalMaster



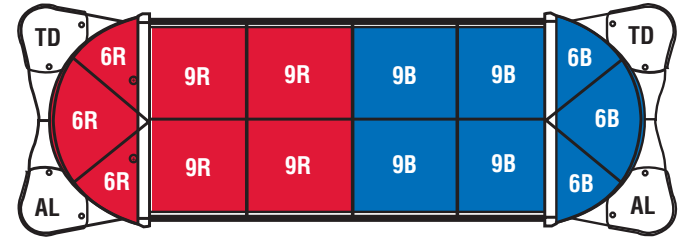
Model #456310-00034
All Solaris with 2 Takedowns, 2 Alley Lights, 7-Module SignalMaster, and Low-Profile Mounting Feet



Model #456110-00210
All Solaris with TriOptic LED's in end caps, 2 Takedowns, 2 Alley Lights in HotFoot, and 5-Module SignalMaster



Model #456100-00292
All Solaris Raydian with TriOptic LED in end caps, 2 Takedowns, 2 Alley Lights in HotFoot



Model #456320-00001
All Solaris Raydian with 2 Takedowns and 2 Alley Lights in HotFoot

2X	TriOptic "2pack" LEDs (6 LEDs) - uses 1 section
3X	TriOptic "3pack" LEDs (9 LEDs) - uses 1 section
6X	Solaris 6-LED Module - uses 1 section
9X	Solaris 9-LED Module - uses 2 sections
TD	Takedown Light (clear) uses 1 section of 1 HotFoot assembly section
AL	Alley Light (clear) uses 1 section or 1 HotFoot assembly section
5A-SM	5-Module Solaris SignalMaster
7A-SM	7-Module Solaris SignalMaster

Note: "X" = Color: Red, Blue, Amber, and White

HOW TO ORDER

Choose a Standard Model:

Choose one of the popular models listed on the previous page. For information on additional standard models contact your nearest Federal Signal Distributor or call us at 800-264-3578.

Choose a Custom Model:

For more information on options, pricing, and configuration possibilities, contact your local distributor or call our Customer Support at 800-264-3598. We'll help you customize a lightbar to your specific needs! For additional information go to our web site at www.fedsig.com.



Now Available with Colored End Domes

Model description:

- 456100 Solaris/TriOptic model - TriOptic in End Caps only
- * 456110 Above, with built-in SignalMaster directional control
- 456300 Solaris Model
- * 456310 Above, with built-in SignalMaster directional control

**These models have SIGNALMASTER directional lights (5 or 7 lamp). Order Control or SS2000SM siren separately, or utilize internal controller (user supplied switches required).*

SPECIFICATIONS				
Lighting Option	Current Draw	Lamp	Watt/Joules	Reflector
Takedown Primary Level	*3.9A	bi-pin halogen	50W	Polished
Takedown Hot Foot	*3.9A	MR16	50W	Polished
Alley Light Primary Level	*3.9A	bi-pin halogen	50W	Polished
Alley Light Hot Foot	*3.9A	MR16	50W	Polished
TriOptic LED 3-Pack	1.05A/Amber	Module	-	-
TriOptic LED 2-Pack	0.70A	Module	-	-
Solaris 6 LED	0.7A	Module	-	-
Solaris 9 LED	1.05A	Module	-	-

**Amp Draw is 3.9A per pair when Takedowns or Alleys are flashing*

DIMENSIONS									
Model	Length		Height		Width		Volts	Oper. Temp	Controller
	in.	cm.	in.	cm.	in.	cm.			
All models	42	106.6	2.5	6.3	14.7	37.3	12.8 DC	-30C to 65C	Microprocessor based, full synchronization

FEDERAL SIGNAL CORPORATION
 Emergency Products
 An ISO 9001 Certified Supplier
 2645 Federal Signal Drive, University Park, IL 60466-3195
 Tel.: (800) 264-3578 • Fax: (800) 682-8022
www.fedsig.com

Raydian, HotFoot, SmartSiren, Touchmaster, DynaMax, Cuda TriOptic are trademarks of Federal Signal Corporation.

Patent Pending on HotFoot.

©2004 Federal Signal Corporation