

LED Colorlights Wayside

8 inch (200 mm) - 10V DC
-96 Series



Project Name _____

Date _____ Type _____

Notes _____



OUTSTANDING RELIABILITY

- Improved contact resistance immunity
- Compatible with most controllers with light-out-detection circuits
- Self-contained design provides protection against moisture and dust
- Backed by a 48 month limited warranty
- Over 210,000 wayside signals sold worldwide

EXCELLENT APPEARANCE & VISIBILITY

- Robust LED system design enables high luminous intensity over long product life
- Efficient optical system delivers uniform color across both wide- and narrow-beam signals
- Sun Phantom reducing features have been incorporated in our design³
- Easy to install and align

MEETS RIGOROUS CERTIFICATION & TESTING STANDARDS

- Meets selected AREMA recommended practices, as detailed in the Design Compliance Table
- All lamps undergo comprehensive testing in the manufacturing plant
- Meets key failure rate criteria as per EN 50129*

* Detailed rating table with duration and operating conditions available upon request.

RM4 - Wayside

Mid-Range

Visibility to 2000 ft (600 m)

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Date _____ Type _____

Notes _____

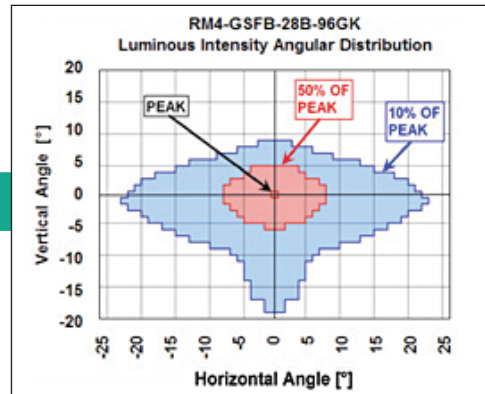
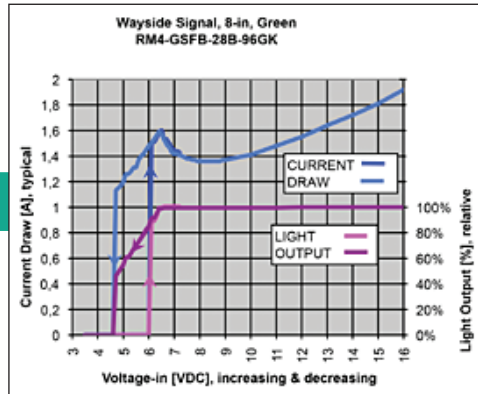
TYPICAL VOLTAGE-CURRENT CURVES

(Measured at 20°C)

TYPICAL LIGHT DISTRIBUTION

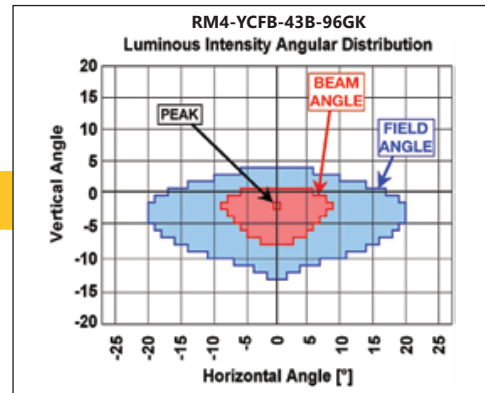
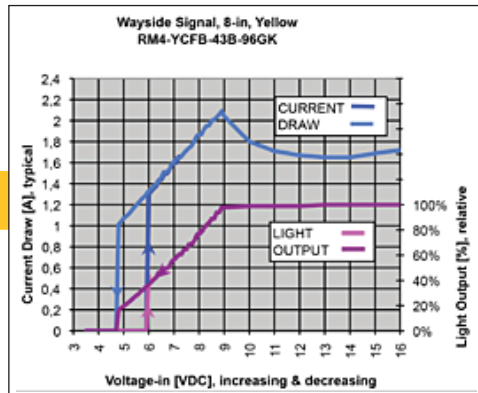
GREEN ASPECT

RM4-GSFB-28B-96GK



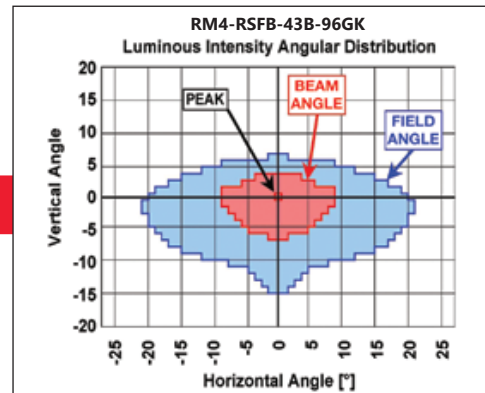
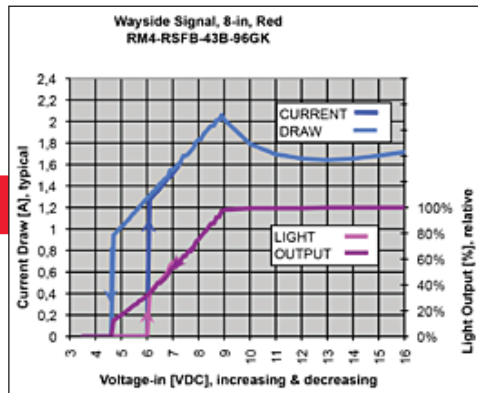
YELLOW ASPECT

RM4-YCFB-43B-96GK



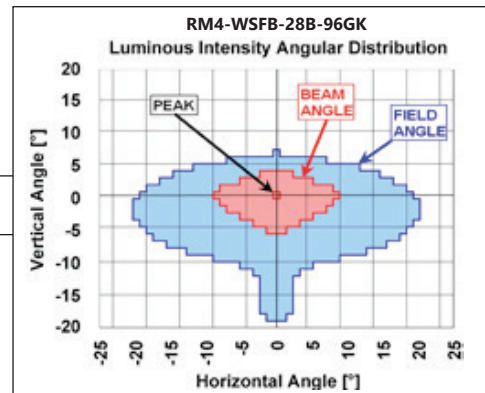
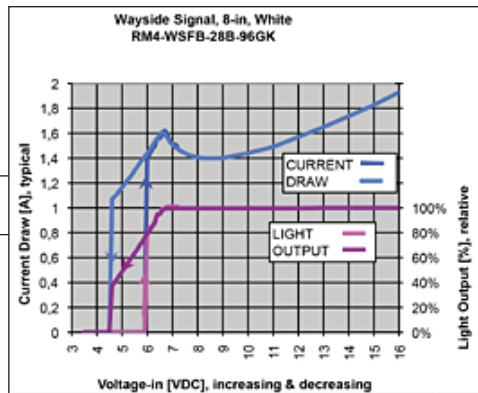
RED ASPECT

RM4-RSFB-43B-96GK



WHITE ASPECT

RM4-WSFB-28B-96GK



Definitions:

- Peak: Maximum Luminous Intensity
- Beam Angle: 50% of Peak Intensity
- Field Angle: 10% of Peak Intensity

Long Range

Visibility to 5000 ft (1500 m)

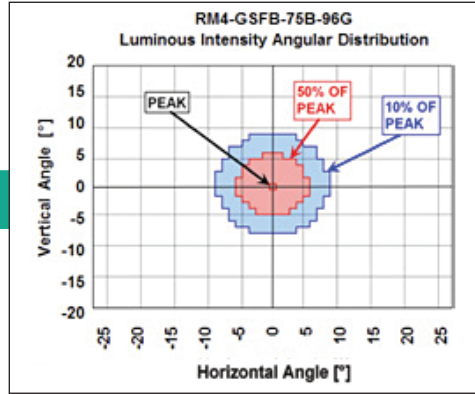
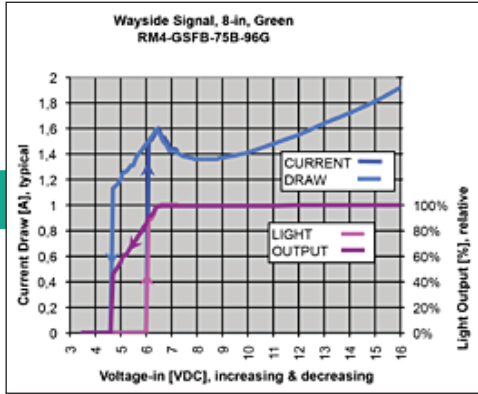
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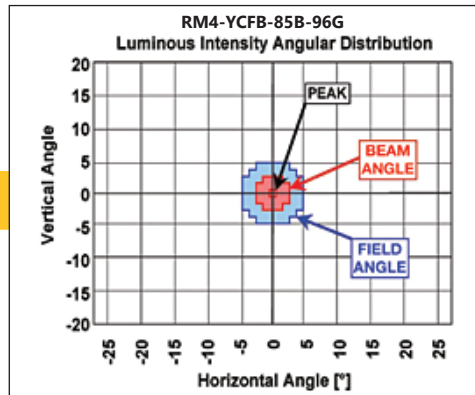
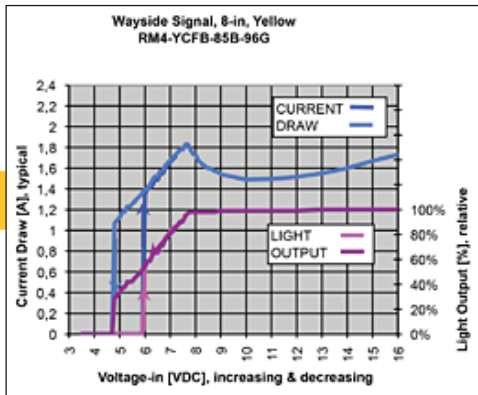
TYPICAL VOLTAGE-CURRENT CURVES (Measured at 20°C)

TYPICAL LIGHT DISTRIBUTION



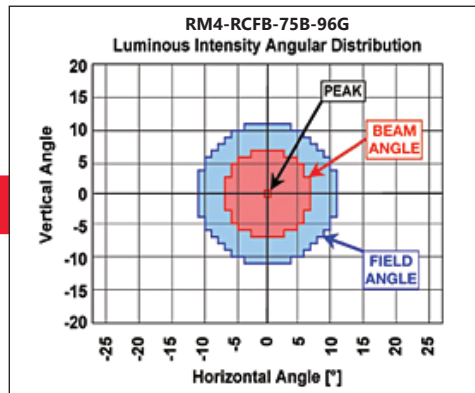
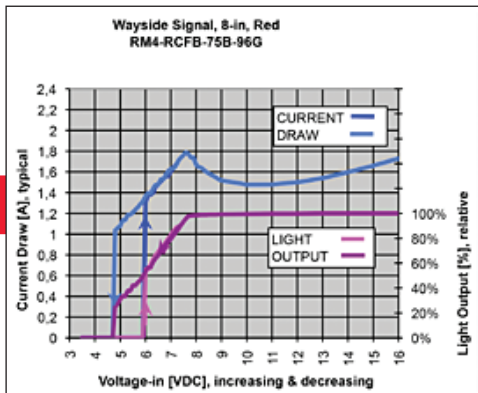
GREEN ASPECT

RM4-GSFB-75B-96G



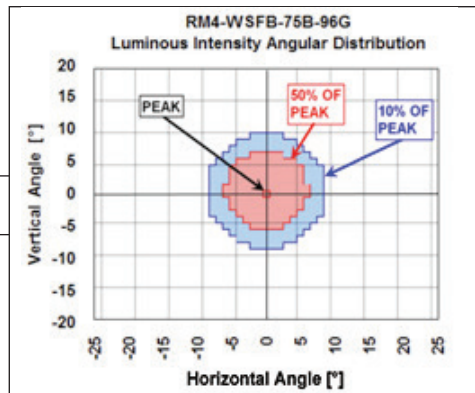
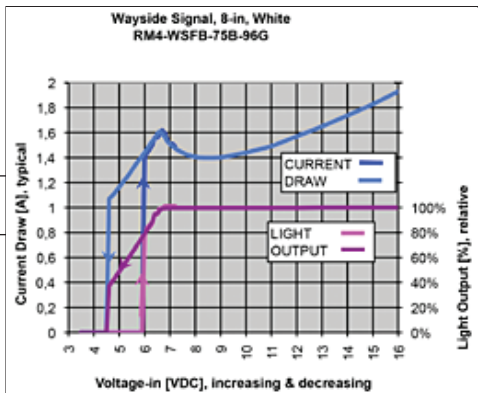
YELLOW ASPECT

RM4-YCFB-85B-96G



RED ASPECT

RM4-RCFB-75B-96G



WHITE ASPECT

RM4-WSFB-75B-96G

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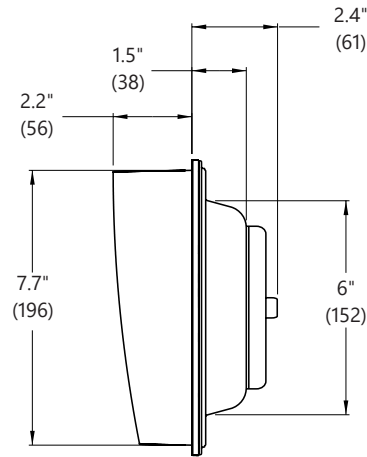
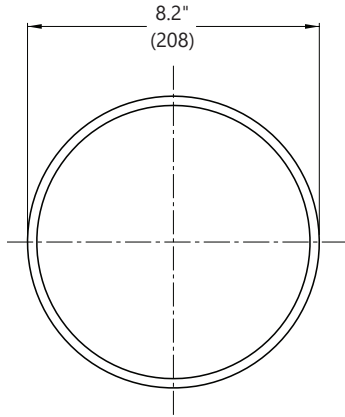
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Mechanical Outline Dimensions in inches (mm)



Design Compliance

| Characteristic | Compliance |
|---|------------------------------------|
| Impact Resistance of Front Shell | IR3 |
| Mechanical Vibration & Shock | AREMA 11.5.1.D.4/D.5. Class B |
| Water/Dust Ingress Protection (in typical Rail Housing) | EN 60529 IP65 |
| Dielectric Strength | AREMA 11.5.1.D.7, Class B |
| Electrical Surge Protection | EN61000-4-5, Class 3, AREMA 11.3.3 |
| Electromagnetic Compatibility (EMC) | FCC Part 15, Subpart B |

Operating Specifications

| Parameter | Rating |
|---|----------------------------|
| Operating Temperature Range | -40 to 70°C (-40 to 158°F) |
| Nominal Operating Voltage | 10V DC |
| Operating Voltage Range | 8 - 16V DC |
| Voltage Turn-Off | 3.5V DC |
| Turn-On/Turn-Off Time | < 75ms |
| Typical Clamping Voltage (AREMA 11.3.3.E) | 42V |
| Maximum Allowable Surge Voltage and Energy Handling Capability (AREMA 11.3.3.E) | 65V DC & 15J for 2ms |

Product Information

| Model Number | Aspect Color | Nominal Watts ¹ | Number of LEDs |
|---|--------------|----------------------------|----------------|
| Short and Mid-Range: Visibility to 2000 ft (600 m)² | | | |
| ● RM4-GSFB-28B-96GK | Green | 15W | 90 |
| ● RM4-YCFB-43B-96GK | Yellow | 18W | 132 |
| ● RM4-RSFB-43B-96GK | Red | 18W | 132 |
| ○ RM4-WSFB-28B-96GK | White | 15W | 90 |
| Long Range: Visibility to 5000 ft (1500 m)² | | | |
| ● RM4-GSFB-75B-96G | Green | 15W | 90 |
| ● RM4-YCFB-85B-96G | Yellow | 15W | 88 |
| ● RM4-RCFB-75B-96G | Red | 15W | 88 |
| ○ RM4-WSFB-75B-96G | White | 15W | 90 |

Distributed by:

Notes:

¹ This is a minimum stabilized value at T = 25°C.

² For VI Curves and Isocandella graphics, please refer to Pages 3 and 4.

³ Signal performance when exposed to external light (ex. sun, head lamp) is dependant on each application field testing is recommended.