

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)

Project Name _____

Date _____ Type _____

Notes _____

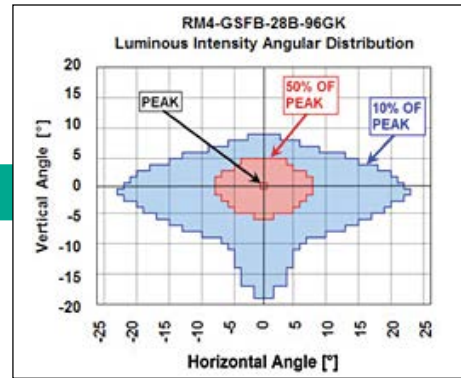
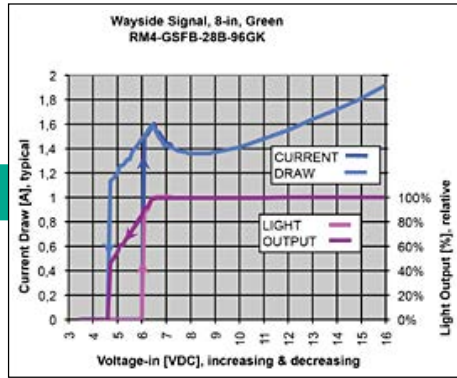
TYPICAL VOLTAGE-CURRENT CURVES

(Measured at 20°C)

TYPICAL LIGHT DISTRIBUTION

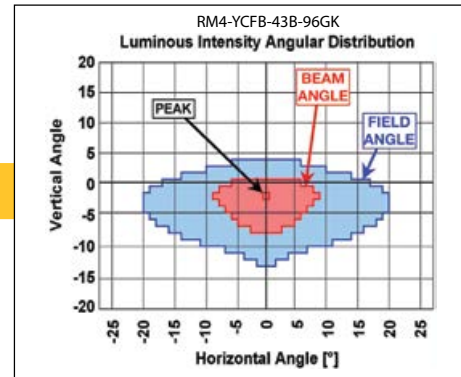
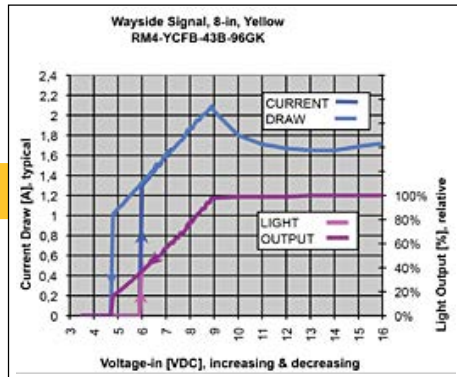
GREEN ASPECT

RM4-GSFB-28B-96GK



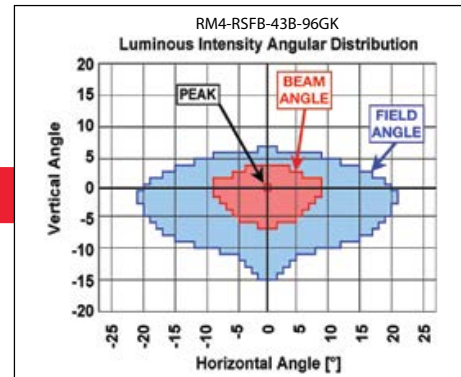
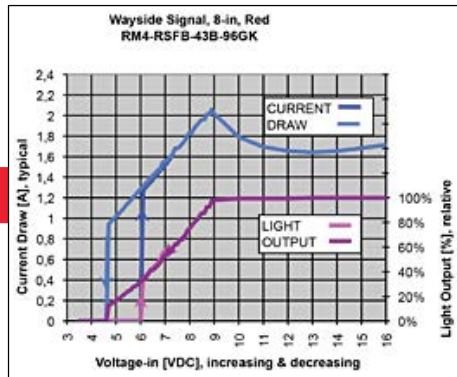
YELLOW ASPECT

RM4-YCFB-43B-96GK



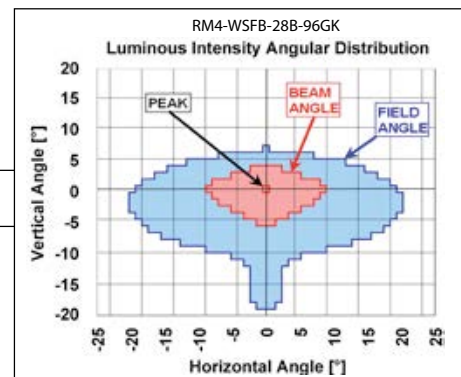
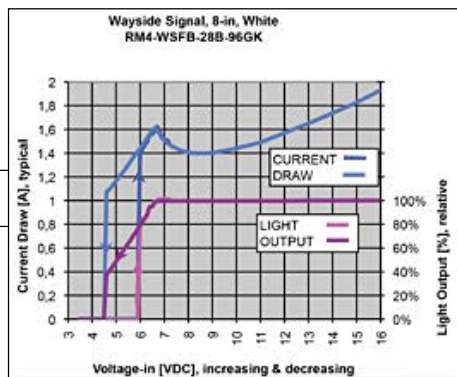
RED ASPECT

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)

Project Name _____

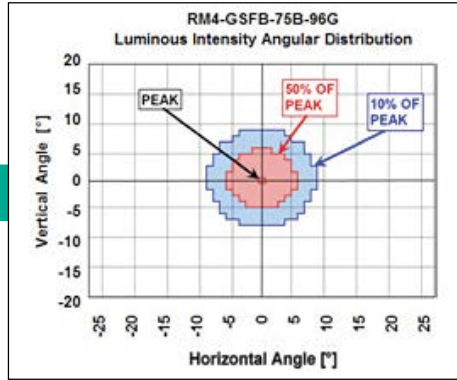
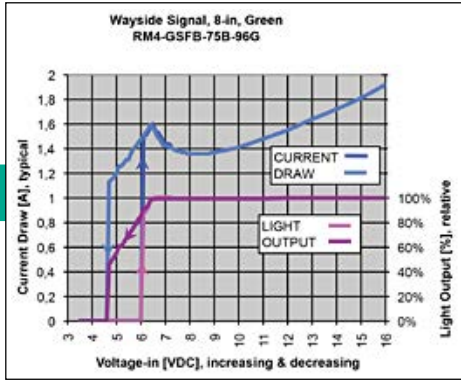
Date _____ Type _____

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TYPICAL VOLTAGE-CURRENT CURVES

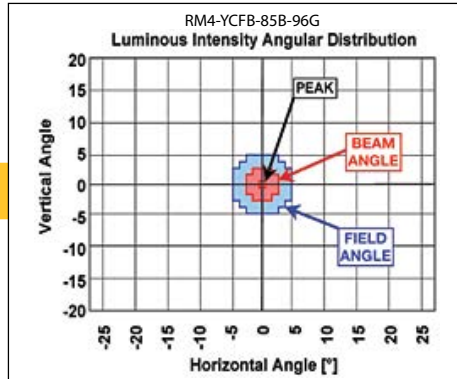
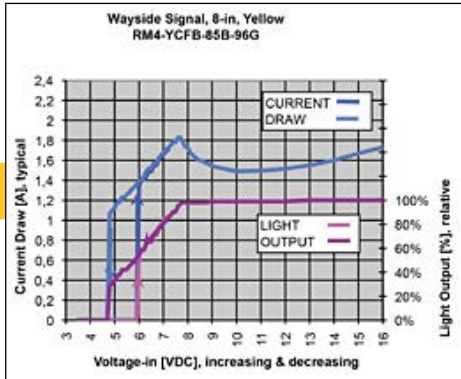
(Measured at 20°C)

TYPICAL LIGHT DISTRIBUTION



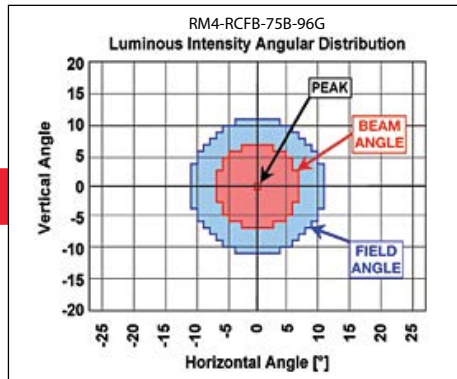
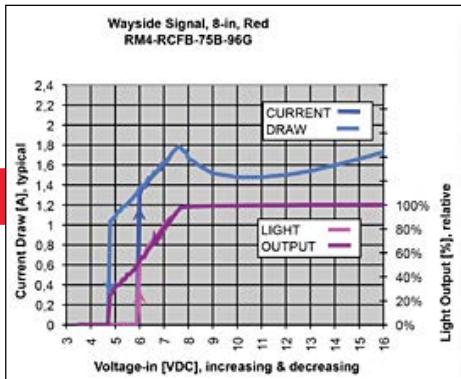
GREEN ASPECT

RM4-GSFB-75B-96G



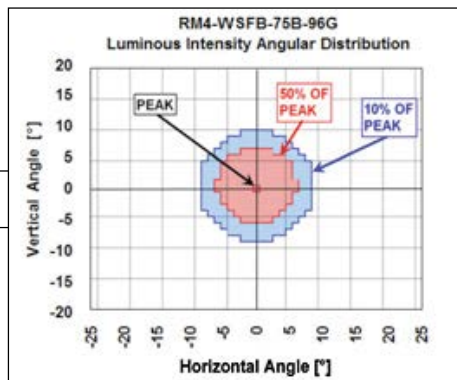
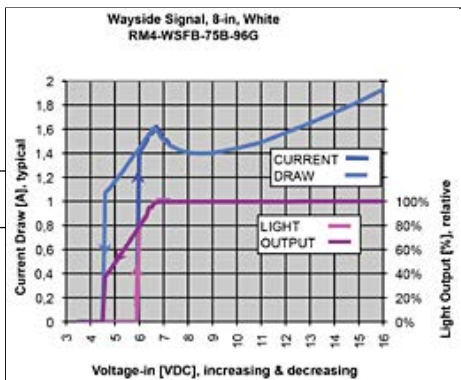
YELLOW ASPECT

RM4-YCFB-85B-96G



RED ASPECT

RM4-RCFB-75B-96G



WHITE ASPECT

RM4-WSFB-75B-96G

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96 Series

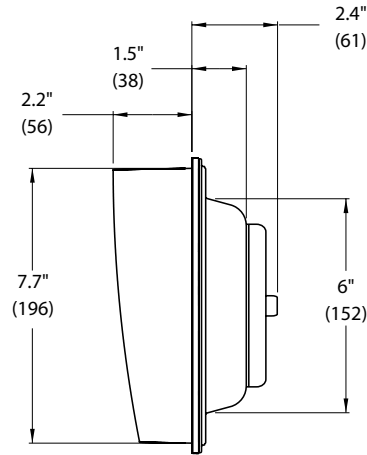
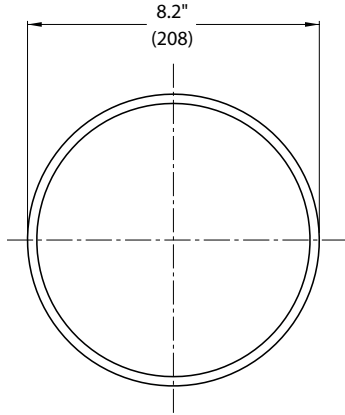
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Mechanical Outline

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:

¹This 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.