

# 125 Watt RIO Roadway Type II Lamp Module

RIO: RETROFIT INTEGRATED OPTICS META HALIDE SYSTEM FOR STREET AND AREA LIGHTING

## DATA SHEET



**SUPER PULSE START**  
**Long Life (SPL)**  
 Extended Life Lamp Series

## RIO 125W/ED17/740/TYP2-RD/E39

### GENERAL Characteristics

Lamp Type	MH Pulse Start Single Ended
ANSI Code	M150/E
Base Type	Mogul (E39)
Bulb Finish	Clear
Rated Life	30000 hours
Operating Position	Horizontal
Dimming	N/A

### PHOTOMETRIC

Initial Lumens	12000
Scotopic Lumens (S/P 1.7)	20400
Lumens Per Watt	96
Lamp Lumen Depreciation (LLD)	0.75 (75%) @12000 hrs
Correlated Color Temperature	4000K
Chromaticity Coordinates (CIE-x,y)	.385 .390
Color Rendering Index (CRI)	68
Light Distribution	IES Type II

### PHYSICAL

Dimensions	See Diagrams Below
Luminaire Type	Enclosed Rated

### KIT ORDERING

Kit Order Code:	<b>RIO2523</b> magnetic ballast (120V/208/240/277V)
Kit Order Code:	<b>RIO5019</b> magnetic ballast (480)
Kit Order Code:	<b>RIO7931</b> magnetic ballast (120/277/347)

### ELECTRICAL

Lamp Watts	125
Lamp Oper. Voltage (Nom.)	125

### SUSTAINABILITY

Recycling Program	Smartpac® 800-451-2606
-------------------	------------------------

### OPTICS

Free formed SUPRAX™ optics with ultra smooth glass surfaces and dichroic anti-frost coating

### NOTES

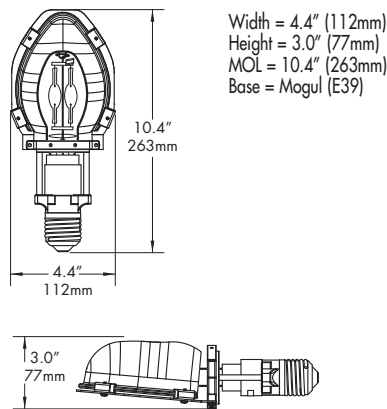
Lamp performance ratings published in this data sheet are based on operation with approved magnetic ballasts. To calculate nighttime Scotopic lumens, multiply the lumen rating by the S/P ratio.

Kit includes lamp module, MH lamp, ballast and ballast mounting strap

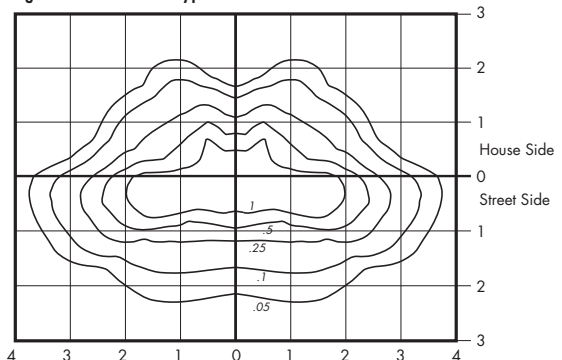
Patented Design

Revision Date: 1/22/15

Production Status: Production



Light Distribution: IES Type II



'Cobrahead' Streetlight | Clear Flat Lens | Uptilted Davit Arm | 30 Foot Mounting Height  
 Distribution shown is for 125W ROADWAY RIO

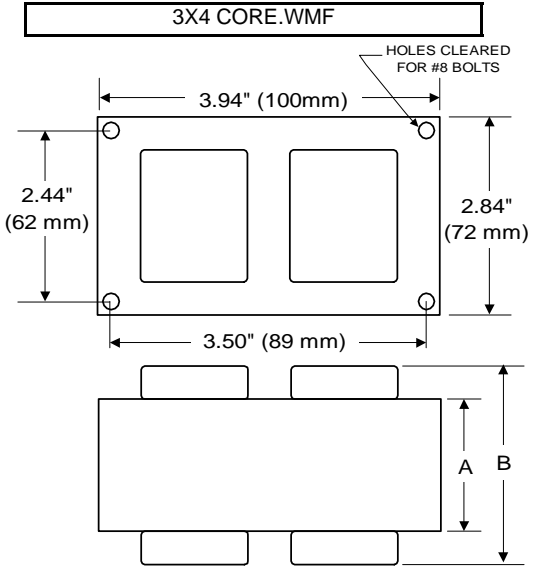
**(800) 451-2606**  
**or (440) 248-3510**  
 Fax: (800) 451-2605  
 7905 Cochran Road  
 Glenwillow, Ohio 44139 USA  
 E-mail: [venture@adlt.com](mailto:venture@adlt.com)  
[VentureLighting.com](http://VentureLighting.com)



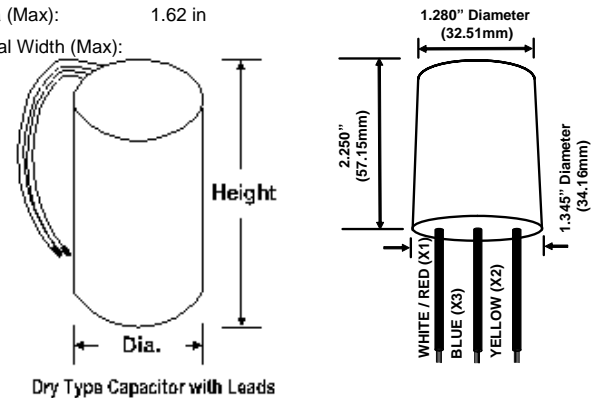
**BALLAST SPECIFICATION**

**125W M150**  
**Pulse Start Metal Halide**  
**V90J8811**  
**60 Hz CWA C&C**

<b>Input Volts</b>	120	277	347
<b>Line Current ( Amps )</b>			
Operating	1.25	0.55	0.45
Open Circuit	0.75	0.35	0.25
Starting	0.80	0.35	0.30
<b>Recommended Fuse (Amps)</b>	4	2	2
<b>Regulation</b>			
Line Volts	±10%	±10%	±10%
Lamp Watts	±10%	±10%	±10%
<b>Temperature Ratings</b>			
Insulation Class	180 (H)	180 (H)	180 (H)
Coil Temperature Code	A	A	A
Benchtop Coil Rise	68.9	65.9	65.3
<b>Power Factor (%) HPF</b>	90	90	90
<b>Input Watts</b>	153 W	153 W	153 W
<b>Efficiency</b>	82.0%	82.0%	82.0%
<b>NOM. Open Circuit Voltage</b>	225	225	225
<b>Input Voltage At Lamp Dropout</b>	85	195	245
<b>Min Ambient Starting Temp</b>	-20°F/-30°C*	-20°F/-30°C*	-20°F/-30°C*
<b>60 HZ TEST PROCEDURES</b>			
<b>High Potential Test (Volts)</b>			
1 Minute	1,700 V	1,700 V	1,700 V
1 Second	2,100 V	2,100 V	2,100 V
<b>Open Circuit Voltage Test (V)</b>	200 - 250	200 - 250	200 - 250
<b>Short Circuit Current Test (A)</b>			
Secondary Current			
Min	1.45	1.45	1.45
Max	1.80	1.80	1.80
Input Current			
Min	0.55	0.25	0.20
Max	0.85	0.40	0.30
<b>CORE and COIL Specifications</b>			
Dimension (A)	1.70 in	1.70 in	1.70 in
Dimension (B)	3.15 in	3.15 in	3.15 in
Weight	5.4 lb's	5.4 lb's	5.4 lb's
Lead Lengths	12 "	12 "	12 "
<b>Capacitor Requirement</b>			
Microfarads	12.0 uf	12.0 uf	12.0 uf
Volts (Min)	280 V	280 V	280 V



<b>Capacitor:</b>	ACG321	<b>Ignitor:</b>	BVS-031
Microfarads:	12.0 uf	Case Temp (Max):	105 °C
Volts (Max):	330 V	BTL Distance (Max)	2 ft
Case Temp (Max)	100 °C		
Height (Max):	2.76 in		
Dia (Max):	1.62 in		
Oval Width (Max):			

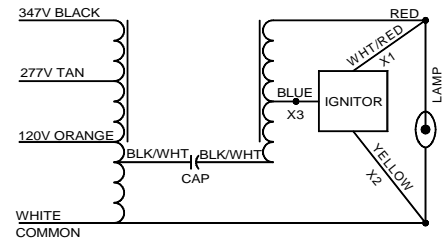


**Ordering Information**    Add Suffix for options  
 C - With Dry Capacitor  
 CB - With Dry Capacitor and Welded Bracket  
 B - With Welded Bracket, no Capacitor  
 K - Prewired, with Dry Capacitor and Bracket Kit

\* -40°F/-40°C Min Ambient Starting Temp with Venture Lamp

Data is based upon tests performed by Venture Lighting in a controlled environment and is representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice.

**9/11/2013**    **Production**    Coil material: primary Cu and secondary Cu



**RoHS**