# **Roadway Series 115** Roadway Lighting Luminaires - Cobrahead

35 - 400W HPS, 100 - 250W MV/MH

#### PRODUCT OVERVIEW

### **Features:**

Rugged die-cast aluminum housing is powder-coated for durability and corrosion resistance. Two-bolt mast arm mount provides easy, secure installation and adjustability for arms from 1-1/4" to 2" (32mm to 51mm) diameter. Optional four-bolt mounting provides extra security in high-vibration applications.

Die-cast trigger latch on door frame enables easy and secure one-hand opening for re-lamping and maintenance.

Large surface area "breathing seal" gasket seals the optical chamber to prevent intrusion by insects and environmental contaminants. Heat-resistant gasket material remains effective over the life of the fixture. Wildlife shield is cast into the housing (not a separate piece) on the two-bolt unit and is easily adjustable for 1-1/4" to 2" (32mm to 51mm) mast arms.

Photocontrol receptacle is adjustable without tools.

Anodized aluminum reflectors provide uniform lighting distribution with borosilicate glass, acrylic, or polycarbonate refractor.

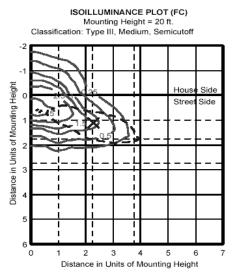
NEMA wattage label, terminal block, and NEMA photocontrol receptacle are standard. All electrical components warranted by American Electric Lighting's 6-year guarantee.

E39 mogul base socket standard.

Suitable for -30°C MH & MV / -40°C HPS.

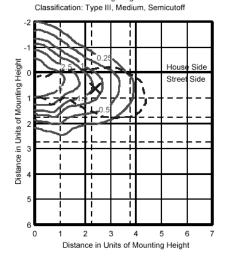
Complies with ANSI: C136.2, C136.10, C136.14, C136.15, C136.17

#### 115 15S R3 DA



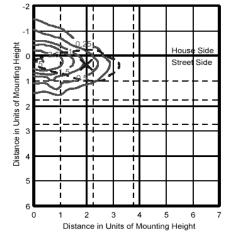
115 25S R3 DG

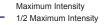
ISOILLUMINANCE PLOT (FC) Mounting Height = 20 ft.



115 17V R2 DA

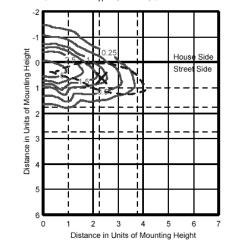
ISOILLUMINANCE PLOT (FC) Mounting Height = 20 ft. Classification: Type I, Short, Semicutoff





#### 115 15S R2 DP

ISOILLUMINANCE PLOT (FC) Mounting Height = 20 ft. Classification: Type II, Medium, Semicutoff



Applications: Roadways Residential streets Storage areas

Parking lots

Campuses Parks DIMENSIONS  $\underbrace{IOIT}_{(257)}$ 

Effective Projected Area (EPA) The EPA for the Horizontal Luminaire Series 115 is 0.9 sq. ft. Approx. Wt. = 19 lbs.



# **Roadway** Series 115

# **Roadway Lighting Luminaires** — **Cobrahead** 35-400W HPS, 100-250W MH/MV

# ORDERING INFORMATION

## Example: 115 15S RN 120 R2 DG LC PC

Series     Watage/ Source     Ballast       115     Single Door Cobrehead     05     50W     M       115     Single Door Source     05     50W     M       116     Single Door Yow V     WW     HR     Reactor High Power Factor     20     20W     R2     Roadway Type II       116     100/150W     V     WW     HR     Reactor High Power Factor     20     20W     R3     Roadway Type II       117     100/150W     V     WW     HR     Reactor High Power Factor     20     20W     R3     Roadway Type II       117     100/150W     V     WW     HR     Reactor High Power Factor     20     20W     R4     Roadway Type II       117     100/150W     V     WW     HR     Roadway Type II     20     20W     R4     Roadway Type II       117     100/150W     V     WW     Radia High Reactance     Roadway Type II     Roadway Type II <th></th> <th>_</th> <th></th> <th></th> <th></th> <th></th>												_				
115       Single Door Boor Solve       03       SW       SHPS       RN       Reactor High Power Factor Power Factor 13       100       RR       Reactory Type II RR       React	Ser	ries	Wattan	/ Source		Ballast		Volta	ide i		Distr	ributio	n	1		
Options         Maximum number of options is six, for more options please contact your local American Electric Lighting representative         Mounting         (blank)       2-bolt Internal 1-1/4" setting         EF       External Fitter (2-bolt only)         B       4-bolt Internal         (2-bolt only)       LG         Setf-Igniting Lamp4       Statter5         EZ       External Fitter 2" Mast Arm (2-bolt only)         (2-bolt nermal       Statter5         (blank)       Open Plug-in         Paint <sup>1</sup> CP         (blank)       Crave Statulated Plug-in         BZ       External Fitter 2" Mast Arm (1-N)         (Chaink)       Crave Statulated Plug-in         BZ       External Block         BZ       Bronze         WH       White         UP       Photocontrol Included per Voltage Specified         UL       Listing         UL       Lusteral         Listing       LA         Listing       LA         Listing       LA         Listing       LA         Listing       LA         Listing       LA         Listing       LA       Lighting Arrestor (Void UL/CSA Certified Opti	<b>115</b> Sing	gle Door 03 prahead 05 10 13 14 14 15 17 20 21 21 21 22	3 35W 5 50W 7 70W 0 100W 3 100/150W wired 100W 4 100/150W wired 150W 5 150W 7 175W 0 200W 5 250W	S HPS M MH	RH XN XH CA CT MR	Power Factor Reactor High Power Factor High Reactance (Lag) Normal Power Factor High Reactance (Lag) High Power Factor CWA CWI Mag Reg (3 Coil)	208 220 240 277 347 480 MT1 MT8 MT2 MT7 TT1 TT1 TT7 TT3	120V 208V 220V 240V 277V 347V 480V Multi-ta Multi-ta Tri-tap v Tri-tap v	p wired 120V p wired 208V p wired 240V p wired 247V wired 120V wired 120V wired 347V	R3 RX Refe Mat	Road Road 4-wa er to O trix bel DA DP	dway dway ay Dptic L low fo Dro Pris Dro Pris Dro	Type I Type I Distributor com p Acry smatic p Poly smatic p Glas	II I patibili ptics /lic Refrac carbor Refrac s	tor nate stor	
OptionsMaximum number of options is six, for more options please contact your local American Electric Lighting representativeMounting (blank)Lamp (standard)Lamp Lamp Included, Clear Lamp Included, Clear External Fitter 2" Mast Arm (Libank) Terrimial Block (Viatage Specified Lear Included per Voltage Specified Lamp Included Per Voltage Specified Lamp Included Lear Inclucator Label Listing UL UL Listed C C Charcoal Filter C C							DT2					Pris	smatic	Refrac	tor	
Maximum number of options is six, for more options please contact your local American Electric Lighting representativewired 240VMounting (blank)Lamp (standard)Lamp LCLamp Included, Clear LDNotes:(blank)2-bolt Internal 1-1/4" setting (standard)LCLamp Included, Deluxe/CoatedNotes:FFExternal Fitter (2-bolt only)LGStarter5Notes:M22-bolt Internal 2" setting (2-bolt only)Starter5Void UL/CSA Certified Options and not available in MT, TL, DT voltagesPaint1ESExternal Encapsulated Plug-in (blank)Gray (standard)SNNo Ignitor (using self-igniting lamp)SNNo Ignitor (using self-igniting lamp)8BKBlackBLSubble LevelStarter5WHWhitePCPhotocontrol Included per Voltage Specified9UPUnpaintedCFCharcoal Filter (Li, N, L2 Position)Photocontrol Included per Indicator Label7TaWire do L1 to L2 Position (L1, N, L2 Position)CFCharcoal Filter (Void UL/CSA Certified Options)0UListed CSSHSon trang Cap Sh Sorting CapSHShorting Cap0SFSingle Fuse (120, 277, 347V) DFDFDenter Capsulace11DFDouble Fuse (208, 220, 240, 480V)BFBridge Fitter72Photocontrol Receptacle (standard)SHShorting Cap2SFSingle Fuse (120, 277, 347V) DFDFDouble Fuse (208, 220, 2				Options				wired 2	40V							
Mounting (blank)Lamp (standard)Lamp Lamp (standard)Lamp Included, Clear Lamp Included, Deluxe/Coated Self-Igniting Lamp*Notes:EFExternal Fitter (2-bolt only)LC BLamp Included, Clear Lamp Included, Deluxe/Coated Self-Igniting Lamp*Notes:M22-bolt Internal 2" setting (2-bolt only)Starter5 (blank)Open Board (standard) EC Encapsulated Plug-in Op Open Plug-in Op Open Plug-in Open Plug-in1Other colors available, please contact your local American Electric Lighting representativePainti (blank)ES External Encapsulated Plug-in OP Open Plug-in BK BlackSN No Ignitor (using self-igniting lamp)3PB, SH, and PC not available with NR option 4 Requires SN optionBK UP UnpaintedMisc. PC C Photocontrol Included per Voitage SpecifiedPhotocontrol Included per Voitage Specified7Tested to withstand 3G vibration, 4B option requiredIsting UL UL Listed CS CS CA CertifiedSh Fing Rabe Rabe on HousingSh oting Capres Photocontrol Receptacle (Void UL/CSA Certified Options)Sh oting Capres Photocontrol Receptacle (Ubank) VEMA Photocontrol Receptacle (standard)Photocontrol Receptacle (blank) UL UL KMA Photocontrol Receptacle (standard)Sh oting Capres Photocontrol Receptacle (blank)Sh oting Capres Photocontrol Receptacle (blank) Vial UL Capres SF Single Fuse (208, 220, 240, 480V)Sh oting Capres SF Single Fuse (208, 220, 240, 480V)Sh oting Capres SF Single Fuse (208, 220, 240, 480V)Sh oting Capres SF Sh oting Capres SF Single Fuse (208, 220, 240,					tact your local		wired 2	240V								
(standard)     LD     Lamp Included, Deluxe/Coated     Notes:       EF     External Fitter (2-bolt only)     LG     Self-Igniting Lamp <sup>4</sup> 1     Other colors available, please contact your local American Electric Lighting representative       W2     2-bolt Internal 2" setting (2-bolt only)     Starter5     Open Board (standard)     American Electric Lighting representative       Paint1     ES     External Fitter 2" Mast Arm (2-bolt only)     Op Open Plug-in OP     Pen Plug-in       BX     Bronze     Misc.     Standard)     Standard)     For HPS products only       BX     Bronze     Misc.     PC     Photocontrol Included per Voltage Specified     PC       WH     White     PC     Photocontrol Included per Voltage Specified     Tested to withstand 3G vibration, 4B option required       1     UL     UL Listed     SS     Stainless Steel Fasteners (external)     Charcoal Filter       1     UL     UL Listed     SH     Sh orting Cap     Sh orting Cap       UL     UL     UL Listed     SH     Sh orting Cap       SF     Single Fuse (120, 277, 347V)     LGU     LGW copper Alloy Content (less than 1%)       BF     Bridge Fitter 7     BF     Bridge Fitter 7	<u>Mountin</u>	g					D14		•							
EFExternal Fitter (2-bolt only) 4BLGSelf-Igniting Lamp4M24-bolt Internal M22-bolt Internal 2" setting (2-bolt only)Starter5 (blank)Open Board (standard) EC1Other colors available, please contact your local American Electric Lighting representativePaint1ECEncapsulated Plug-in OPOpPlug-in3PB, SH, and PC not available with NR optionPaint1ESExternal Encapsulated Plug-in OPSNNo Ignitor (using self-igniting lamp)4Requires SN optionBKBlackSNNo Ignitor (using self-igniting lamp)5For HPS products only5BKBlackBLBubble LevelStarters1Limited availability, please contact your local American Electric Lighting representativeVHWhitePCPhotocontrol Included per Voltage Specified7Tested to withstand 36 vibration, 4B option requiredIdiankiTerminal BlockSSStainless Steel Fasteners (Void UU/CSA Certified Options)03SImage Steel StartersULUL Listed5H Hertz Blats Cycle6NNNo NEMA Label on Housing SHSh onting Cap10SImage Steel StartersEusing2LGLGULow Copper Alloy Content (less than 1%)Image Steel StartersImage Steel Starters10SFor HPS products onlyLGULow Copper Alloy Content (less than 1%)10SImage Steel Starters10SULUL ListedSHShorting CapImage Steel Starters10SImage Steel Starters	(blank)		al 1-1/4" setting		•		Note	es:								
M22-bolt Internal 2" setting 2-bolt Internal 2" setting 		External Fitte					1	0.41		.1						
E2       External Fitter 2" Mast Årm (2-bolt only)       (blank) EC       Open Board (standard) EC       2       Voids UU/CSA Certified Options and not available in MT, Tr, DT voltages         Paint1       ES       External Encapsulated Plug-in Open Plug-in       3       PB, SH, and PC not available with NR option         BZ       Bronze       Misc.       7       Photocontrol Included per Voltage Specified       7         WH       White       PC       Photocontrol Included per Voltage Specified       7       Tested to withstand 3G vibration, 4B option required         Iterminal Block       SS       Stainless Steel Fasteners (external)       Stainless Steel Fasteners (external)       7       Tested to withstand 3G wibration, 4B option required         Isisting       UL       Listed       SH       So Hertz Ballast Cycle <sup>a</sup> Optic Distribution         UL       UL Listed       SH       So Hertz Ballast Cycle <sup>a</sup> 05       Image Signer		M2         2-bolt Internal 2" setting         Starter <sup>5</sup> E2         External Fitter 2" Mast Arm         (blank)         Open					Americ	an Electric L	ightin	g repr	esent	tative				
Paint1CoChroapsunder rug-in Open Plug-in3PB, SH, and PC not available with NR optionPaint1ESExternal Encapsulated Plug-in (blank) Gray (standard)SNNo Ignitor (using self-igniting lamp)3PB, SH, and PC not available with NR optionBKBlackSNNo Ignitor (using self-igniting lamp)For HPS products only6Limited availability, please contact your local American Electric Lighting representativeWHWhitePCPhotocontrol Included per Voltage Specified7Tested to withstand 3G vibration, 4B option requiredUPUnpaintedSStainless Steel Fasteners (external)No tavailable for 120v fixtures.8T2Wired to Li to L2 PositionCFCharcoal Filter Indicator LabelOptic DistributionT33 Wire Operation (L1, N, L2 Position)*LALighting Arrestor (Void UL/CSA Certified Options)05SImage: Construct optical available for 120v fixtures.ULULListed5H50 Hertz Ballast Cycle*05SImage: Construct optical available for 120v fixtures.ULUL Listed5HSonting CapImage: Construct optical available for 120v fixtures.05SImage: Construct optical available for 120v fixtures.Fusing2SFSingle Fuse (120, 277, 347V)LCULCU Low Copper Alloy Content (less than 1%)0SImage: Construct optical available for 120v fixtures.Photocontrol Receptacle (blank)NEMA Photocontrol Receptacle (standard)Fridge Fitter?Image: Construct optical available for 120v fixtures.<				(blank)	Open Board (standard)											
Paint <sup>1</sup> ES       External Encapsulated Plug-in No Ignitor (using self-igniting lamp)       4       Requires SN option         (blank)       Gray (standard)       SN       No Ignitor (using self-igniting lamp)       5       For HPS products only         BZ       Bronze       Misc.       PC       Photocontrol Included per Voltage Specified       7       Tested to withstand 3G vibration, 4B option required         WH       White       PC       Photocontrol Included per Voltage Specified       7       Tested to withstand 3G vibration, 4B option required         Image: Terminal Block       SS       Stainless Steel Fasteners (external)       SS       Stainless Steel Fasteners (external)       7       Tested to withstand 3G vibration, 4B option required         T2       Wired Dperation (L1, N, L2 Position) <sup>g</sup> CF       Charcoal Filter Distribution Pattern Indicator Label       Tested to withstand 3G vibration       R2D       R3DA R2DP       R3DG R3DG R3D         UL       UL Listed       SH       Shorting Cap       Shorting Cap       SS       SS       Stailast Cycle <sup>6</sup> SS       SS <t< td=""><td></td><td>(2-bolt only)</td><td></td><td></td><td></td><td>Plug-in</td><td>3</td><td></td><td></td><td></td><td>ble w</td><td>ith NF</td><td>R optio</td><td>n</td><td></td><td></td></t<>		(2-bolt only)				Plug-in	3				ble w	ith NF	R optio	n		
BK     Black     Misc.       BZ     Bronze     Misc.       WH     White     PC       UP     Up inpained     PC       Iterminal Block     SS     Stainless Steel Fasteners (external)       T2     Wired to L1 to L2 Position     CF       T3     3 Wire Operation (L1, N, L2 Position) <sup>8</sup> CF       Listing     UL     UL Listed       CS     CSA Certified       NN     No NEMA Label on Housing       SF     Single Fuse (120, 277, 347V)       DF     Double Fuse (208, 220, 240, 480V)       Brusing2     HK       Photocontrol Receptacle (blank)     NEMA Photocontrol Receptacle (standard)				ES	External Encap					nlu						
BZ       Bronze       Misc.       American Electric Lighting representative         WH       White       PC       Photocontrol Included per Voltage Specified       American Electric Lighting representative         UP       Unpainted       PC       Photocontrol Included per Voltage Specified       American Electric Lighting representative         Terminal Block       SS       Stainless Steel Fasteners (external)       Optic Distribution         T2       Wired to L1 to L2 Position (L1, N, L2 Position) <sup>®</sup> CF       Charcoal Filter Indicator Label       Optic Distribution         Listing       UL       UL Listed       SH       50 Hertz Ballast Cycle <sup>6</sup> OTS       C       C         Fusing <sup>2</sup> Single Fuse (120, 277, 347V) DF       Duoble Fuse (208, 220, 240, 480V)       LCU Ucw Copper Alloy Content (less than 1%)       Use Copper Alloy Content (less than 1%)       St Single Fitter <sup>7</sup> Photocontrol Receptacle (blank)       NEMA Photocontrol Receptacle (standard)       BF       Bridge Fitter <sup>7</sup> St Single Fitter <sup>7</sup>			ird)	SN	No Ignitor (using self-igniting lamp)											
WH     White     PC     Photocontrol Included per Voltage Specified     7     Tested to withstand 3G vibration, 4B option required       IP     Up uppainted     BL     Bubble Level     8     Not available for 120v fixtures.       Terminal Block     SS     Stainless Steel Fasteners (external)     6     Not available for 120v fixtures.       T2     Wired to L1 to L2 Position     CF     Charcoal Filter     0       T3     3 Wire Operation (L1, N, L2 Position) <sup>8</sup> PL     Distribution Pattern Indicator Label     03S     Image: Comparison of the state stat			Misc					American Electric Lighting representative								
OF       Onpainted       Outlage Specified         Terminal Block       BL       Bubble Level         SS       Stainless Steel Fasteners         (blank)       Terminal Block (standard)       CF         T2       Wired to L1 to L2 Position       CF         T3       3 Wire Operation       PL         (L1, N, L2 Position) <sup>8</sup> LA       Lightning Arrestor         UL       UL       UL Listed       5H         CS       CSA Certified       NN       No NEMA Label on Housing         Fusing <sup>2</sup> SH       Shorting Cap         FK       Single Fuse (120, 277, 347V)       LCU         DF       Double Fuse (208, 220, 240, 480V)         BF       Bridge Fitter <sup>7</sup> Photocontrol Receptacle (blank)       NEMA Photocontrol Receptacle (standard)						•							option	requir	ed	
Terminal BlockSSStainless Steel Fasteners (external)T2Wired to L1 to L2 PositionCFCharcoal FilterDistribution Pattern Indicator LabelCPLDistribution Pattern Indicator LabelCPLCoptic DistributionListingULUL ListedSH50 Hertz Ballast Cycle6OpticCSS444Fusing2SFSingle Fuse (120, 277, 347V) DFDECULow Copper Alloy Content (less than 1%)DistributionTerminal BlockCSS5444Photocontrol Receptacle (blank)NEMA Photocontrol Receptacle (standard)BFBridge Fitter7Terminal Block (external)CPCoptic DistributionT2Wired to L1 to L2 PositionCFCharcoal Filter (Distribution Pattern Indicator LabelDistribution Pattern (Indicator LabelCoptic DistributionULULUL Listed SFShorting Cap (BFShorting Cap (BFTerminal Block (120, 277, 347V) (BFLCULow Copper Alloy Content (less than 1%)DistributionPhotocontrol Receptacle (standard)BFBridge Fitter7Terminal Block (25MCCCPhotocontrol Receptacle (standard)NEMA Photocontrol Receptacle (standard)NEMA Photocontrol Receptacle (standard)CCCControl Receptacle (blank)NEMA Photocontrol Receptacle (standard)CCCCC	UP	Unpainted		ы	• .	ied	0	NULAV		.0V 112	dures.					
T2Wired to L1 to L2 PositionCFCharcoal FilterOptic DistributionT33 Wire Operation (L1, N, L2 Position)8PLDistribution Pattern Indicator LabelDistribution Pattern Indicator LabelStart Start St	Terminal	Block				Fasteners										
T3       3 Wire Operation (L1, N, L2 Position) <sup>8</sup> PL       Distribution Pattern Indicator Label       R2DA       R3DP	• •															
(L1, N, L2 Position) <sup>8</sup> Indicator Label       Indicator Label         Listing       LA       Lightning Arrestor         (Void UL/CSA Certified Options)       03S       • • • • • • • • • • • • • • • • • • •							0	ptic Di	stribution							
Listing       LA       Lightning Arrestor (Void UL/CSA Certified Options)       03S       • • • • • • • • • • • • • • • • • • •	13	•		FL					R2DA R3DA	R2D	)P R3	3DP F	R2DG	R3DG	RXDG	_
UL       UL Listed       5H       50 Hertz Ballast Cycle6         CS       CSA Certified       NN       No NEMA Label on Housing         Fusing2       SH       Shorting Cap         KK       Hinge Keeper         LCU       Low Copper Alloy Content         (less than 1%)       UL         DF       Double Fuse (208, 220, 240, 480V)         BF       Bridge Fitter7         Photocontrol Receptacle (standard)       Fitter 7			,	LA	Lightning Arres	stor			<ul> <li>◆</li> <li>◆</li> </ul>	•	•	<b>♦</b>	•		•	-
CS       CSA Certified       NN       No NEMA Label on Housing         Fusing <sup>2</sup> SH       Shorting Cap         SF       Single Fuse (120, 277, 347V)       LCU         DF       Double Fuse (208, 220, 240, 480V)       LCU         BF       Bridge Fitter <sup>7</sup> Photocontrol Receptacle (standard)       SH												-				-
Fusing2       SH       Shorting Cap         SF       Single Fuse (120, 277, 347V)       HK         DF       Double Fuse (208, 220, 240, 480V)       LCU         BF       Bridge Fitter <sup>7</sup> Photocontrol Receptacle (blank)       NEMA Photocontrol Receptacle (standard)			Ч										•			-
Fusing2       HK       Hinge Keeper         SF       Single Fuse (120, 277, 347V)       LCU       Low Copper Alloy Content (less than 1%)       25S       -       -       + <td>50</td> <td>JOA JEILINE</td> <td>u</td> <td></td> <td></td> <td>on mousing</td> <td></td> <td></td> <td><b>♦ ♦</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td>	50	JOA JEILINE	u			on mousing			<b>♦ ♦</b>							_
DF       Double Fuse (208, 220, 240, 480V)       Low object Alloy object					Hinge Keeper											-
Br       Bridge Fitter7       17M       4						•				•		<b>▼</b> -				-
Photocontrol Receptacle       25M <ul> <li></li></ul>	UF	Double Fuse	(200, 220, 240, 480)				17	M		•	• •	♦				-
(standard) 25V + + + +	<u>Photoco</u>	ntrol Receptad	<u>cle</u>		Bridge Fitter,											_
(Standard)	(blank)		control Receptacl	Ð											◆ ▲	-
PB Phosphor Bronze Contacts	NR PB	No Photocor	ntrol Receptacle <sup>3</sup> onze Contacts				<u>25</u>		<u> </u>	•		•	•	•		-



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