



REQUESTS FOR BIDS

PURCHASE OF  
STREET LIGHTING SUPPLIES

## LEGAL NOTICE

### INVITATION TO BID TO PROVIDE STREET LIGHTING SUPPLIES

Sealed bids for Street lighting supplies will be received at the address listed below until Tuesday, September 27, 2016 at 10:00 a.m. Bids will be publically opened and read aloud at the above stated time and place. Proposals not physically received by the Village by 10:00 a.m. on Tuesday, September 27, 2016 will be returned, unopened to the firm. All proposals should be addressed to:

Village of Oswego  
Re: (vendor name)  
Street Lighting Supplies  
Attention: Tina Touchette  
Village Clerk  
100 Parkers Mill  
Oswego IL 60543

Proposal packets are available online at <http://www.oswegoil.org>. The link can be found under the Business & Development tab-Bids & RFPs. Additionally, packets may be picked up at the Finance Department, Oswego Village Hall, 100 Parker's Mill, Oswego, Illinois, 60543.

Each vendor is to submit their proposal for unit prices as indicated on the proposal sheet provided and include all supporting documents.

The Village of Oswego is a tax exempt body. All purchases of materials subject to a sale or use tax shall be coordinated with the Village of Oswego in order to claim this tax exempt status.

Payment will be made in accordance with the Local Government Prompt Payment Act (50 ILCS 505/). The Contractor shall submit invoices to the applicable agency upon delivery of the goods. The Agencies will make payment within 30 days of receipt of invoices. Payments will be made via check or credit card.

Emailed or faxed proposals will not be accepted.

This contract is not subject to payment of Prevailing Wages. Each contractor is to submit their proposal as indicated in the Specifications and include all signed supporting documents.

The Village reserves the right to reject any or all proposals and to waive any informality.

Award of Contract: The Village of Oswego Board of Trustees will make the final award of the proposal after it has been reviewed.

**SPECIFICATIONS**  
**PURCHASE OF STREET LIGHTING SUPPLIES**

The products shall be as described in the packet. Bidder may propose an alternate product. If an alternate product is being proposed the bidder must provide data for that product.

## BID SHEET

STREET LIGHTS: The bolded number is the amount of product we are requesting to purchase. If choosing to quote an alternate product, list that product in the space provided.

<u>ITEM</u>	<u>COST PER UNIT</u>	<u>TOTAL</u>
MVR100/UMED <b>(54)</b>	\$ _____	\$ _____
Alternate _____ <b>(54)</b>	\$ _____	\$ _____
MVR175/U <b>(300)</b>	\$ _____	\$ _____
Alternate _____ <b>(300)</b>	\$ _____	\$ _____
LU150/55/H/ECO <b>(200)</b>	\$ _____	\$ _____
Alternate _____ <b>(200)</b>	\$ _____	\$ _____
PULSE START MH175 <b>(36)</b>	\$ _____	\$ _____
Alternate _____ <b>(36)</b>	\$ _____	\$ _____
MVR250/U <b>(36)</b>	\$ _____	\$ _____
Alternate _____ <b>(36)</b>	\$ _____	\$ _____

PHOTO CONTROL: The bolded number is the amount of product we are requesting to purchase. If choosing to quote an alternate product, list that product in the space provided.

<u>ITEM</u>	<u>COST PER UNIT</u>	<u>TOTAL</u>
TORK 2007A PHOTO CONTROL <b>(150)</b>	\$ _____	\$ _____
Alternate _____ <b>(150)</b>	\$ _____	\$ _____
3000 SERIES LEXAN PHOTO CONTROL <b>(50)</b>	\$ _____	\$ _____
Alternate _____ <b>(50)</b>	\$ _____	\$ _____

BALLAST: The bolded number is the amount of product we are requesting to purchase. If choosing to quote an alternate product, list that product in the space provided.

<u>ITEM</u>	<u>COST PER UNIT</u>	<u>TOTAL</u>
GEM175MLTAA3-5 <b>(50)</b>	\$ _____	\$ _____
Alternate _____ <b>(50)</b>	\$ _____	\$ _____
GEM250MLTAC3-5 <b>(15)</b>	\$ _____	\$ _____
Alternate _____ <b>(15)</b>	\$ _____	\$ _____
GES150MLTLA3D-5 <b>(50)</b>	\$ _____	\$ _____
Alternate _____ <b>(50)</b>	\$ _____	\$ _____
M90/M140 100W <b>(25)</b>	\$ _____	\$ _____
Alternate _____ <b>(25)</b>	\$ _____	\$ _____

FUSES: The bolded number is the amount of product we are requesting to purchase. If choosing to quote an alternate product, list that product in the space provided.

<u>ITEM</u>	<u>COST PER UNIT</u>	<u>TOTAL</u>
KTK FAST-ACTING 10 AMP FUSE <b>(50)</b>	\$ _____	\$ _____
Alternate _____ <b>(50)</b>	\$ _____	\$ _____

COBRA HEAD: The bolded number is the amount of product we are requesting to purchase. If choosing to quote an alternate product, list that product in the space provided.

<u>ITEM</u>	<u>COST PER UNIT</u>	<u>TOTAL</u>
ROADWAY SERIES 315 175W <b>(10)</b>	\$ _____	\$ _____
Alternate _____ <b>(10)</b>	\$ _____	\$ _____

**BID SHEET SIGNAUTRE**

Authorized Signature: \_\_\_\_\_

Please print name: \_\_\_\_\_

Date: \_\_\_\_\_

Company submitting bid: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Bid opening is Tuesday, September 27, 2016 at 10:00 a.m. at Village Hall, 100 Parkers Mill.

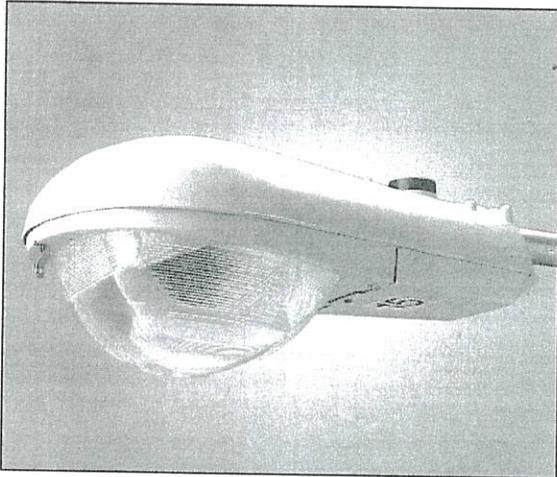
175 ✓

# Roadway Series 315

## Roadway Lighting — with Power Door

35-400W HPS, 150-250W MH

### PRODUCT OVERVIEW



#### Features:

Rugged die-cast aluminum housing is powder-coated for durability and corrosion resistance

Die-cast secondary Power Pad door places all electrical components on one easily interchangeable module with quick disconnects to main fixture housing

Two-bolt mast arm mount provides easy, secure installation and adjustability for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. Optional four-bolt mounting provides extra security in high-vibration applications

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

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" (1-5/8" to 2-3/8" O.D.) 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

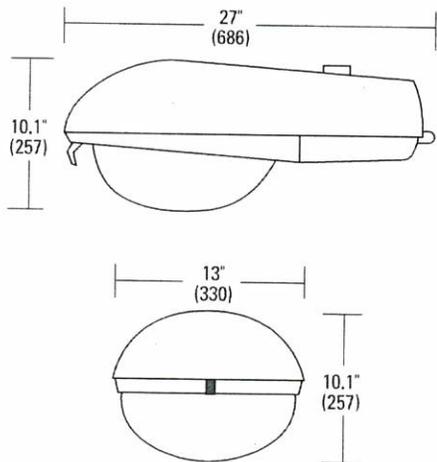
Suitable for -30°C MH / -40°C HPS

Complies with ANSI: C136.2, C136.10, C136.14, C136.15, C136.17, C136.31

#### Applications:

- Roadways
- Residential streets
- Storage areas
- Parking lots
- Campuses
- Parks

#### DIMENSIONS



Effective Projected Area (EPA)  
The EPA for the Horizontal Luminaire Series 315 is 0.9 sq. ft.  
Approx. Wt. = 19 lbs.

#### PREFERRED SELECTION CATALOG NUMBERS

- 315 10S CA MT1 R2 DA EC
- 315 10S RN 120 R2 DA EC
- 315 15S RN 120 R2 DA EC

# Roadway Series 315

Roadway Lighting — with Power Door  
35-400W HPS, 150-250W MH

## ORDERING INFORMATION

Example: 3 1 5 1 0 5 MR DT2 R3 DG NR BL

Series	Wattage / Source		Ballast	Voltage	Distribution
315 Power Door Cobrahead	03 35W	S HPS	RN Reactor Normal Power Factor	120 120V	R2 Roadway Type II
	05 50W	M MH <sup>2</sup>	RH Reactor High Power Factor	208 208V	R3 Roadway Type III
	07 70W		XN High Reactance (Lag) Normal	220 220V	RX Roadway Type II 4-way <sup>3</sup>
	10 100W		XH High Reactance (Lag) High	240 240V	Refer to optic distribution matrix below for compatibility.
	13 100/150W Wired 100W		CA CWA <sup>2</sup>	277 277V	
	14 100/150W Wired 150W		CT CWI	347 347V	
	15 150W		SC SCWA	480 480V	
	17 175W <sup>1</sup>		MR Mag Reg (3 Coil)	MT1 Multi-tap Wired 120V	
	20 200W			MT2 Multi-tap Wired 240V	
	25 250W <sup>1</sup>			MT7 Multi-tap Wired 277V	
	40 400W <sup>1</sup>			TT3 Tri-tap Wired 347V	
				DT2 Dual Tap 120/240 Wired 240V	
				DT4 Dual Tap 240/480 Wired 480V	
					Optics
					DA Drop Acrylic Prismatic Refractor
					DP Drop Polycarbonate Prismatic Refractor
					DG Drop Glass Prismatic Refractor

See ballast matrix for EISA compliant options

Options
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### Mounting

(blank)	2-bolt Internal
EF	External Fitter (2-bolt only)
4B	4-bolt Internal
M2	2-bolt Internal 2" setting
E2	External Fitter 2" Mast Arm (2-bolt only)

### Paint<sup>1</sup>

(blank)	Gray (standard)
BK	Black
BZ	Bronze
DDB	Dark Bronze
WH	White
UP	Unpainted

### Terminal Block

(blank)	Terminal Block (standard)
T2	Wired to L1 & L2 Positions
T3	3 Wire Operation (L1, N, L2 Position) <sup>5</sup>

### Listing

UL	UL Listed
CS	CSA Certified

### Fusing<sup>6</sup>

SF	Single Fuse (120, 277, 347V)
DF	Double Fuse (208, 220, 240, 480V)

### Photocontrol Receptacle

(blank)	NEMA Photocontrol Receptacle (standard)
NR	No Photocontrol Receptacle <sup>7</sup>

### Lamp

LC	Lamp Included, Clear
LD	Lamp Included, Deluxe/Coated

### Starter<sup>8</sup>

(blank)	Open Board (standard)
EC	Encapsulated Plug-in
OP	Open Plug-in

### Misc.

PC	Photocontrol Included per Voltage Specified <sup>7</sup>
BF	3G Vibration <sup>9</sup>
BL	Bubble Level
SS	Stainless Steel Fasteners (external)
CF	Charcoal Filter
PL	Distribution Pattern Indicator Label
LA	Lightning Arrestor (Void UL/CSA Certified Options)
NN	No NEMA Label on Housing
SH	Shorting Cap <sup>7</sup>
HK	Hinge Keeper
RG	Rubber Silicone Optical Gasket

### Notes:

- When ordered with metal halide, these wattages do not comply with California Title 20 regulations
- CA ballast is not available with 175W - 400W metal halide in the U.S.; must use SC
- DG option only
- Other colors available, please contact your local American Electric Lighting representative
- T3 option only available with 240, 480, DT2, DT4, MT2
- Not available in MT, TT, DT voltages
- SH and PC not available with NR option
- HPS only
- Tested to withstand 3G vibration, 4B option required

### Optic Distribution

	R2DA	R3DA	R2DP	R3DP	R2DG	R3DG	RXDG
03S	▲	▲	▲	▲	▲	▲	▲
05S	▲	▲	▲	▲	▲	▲	▲
07S	▲	▲	▲	▲	▲	▲	▲
10S	▲	▲	▲	▲	▲	▲	▲
13S	▲	▲	▲	▲	▲	▲	▲
14S	▲	▲	▲	▲	▲	▲	▲
15S	▲	▲	▲	▲	▲	▲	▲
15M	-	-	▲	▲	▲	▲	▲
17M	-	-	▲	▲	▲	▲	▲
20S	-	-	▲	▲	▲	▲	▲
25S	-	-	▲	▲	▲	▲	▲
25M	-	-	▲	▲	▲	▲	▲
40S	-	-	▲	▲	▲	▲	▲



American Electric Lighting  
Acuity Brands Lighting, Inc.  
3825 Columbus Rd. S.W., Granville, OH 43023  
Phone: 800-313-2557 option 2  
Fax: 740-587-6114  
www.americanelectriclighting.com

# Roadway Series 315

## Roadway Lighting — with Power Door

35-400W HPS, 150-250W MH

### BALLAST MATRIX

#### Roadway 315

Watts	120	208	240	277	347	480
035	RH,RN	-	-	-	-	-
055	RH,RN	XH,XN	XH,XN	XH,XN	-	-
075	CA,CT,MR,RH,RN	CA,CT,XH,XN	CA,CT,MR,XH,XN	CA,XH,XN	CA,XH,XN	XH,XN
105	CA,CT,MR,RH,RN	CA,CT,XH,XN	CA,CT,MR,XH,XN	CA,MR,XH,XN	XH,XN	CA,MR
155	CA,CT,MR,RH,RN	CA,CT,XH,XN	CA,CT,MR,XH,XN	CA,XH,XN	XH,XN	CA
135	RH,RN	-	-	-	-	-
145	RH,RN	-	-	-	-	-
15M	XH,XN,SC	XH,XN,SC	XH,XN,SC	XH,XN,SC	-	XH,XN
17M	SC	SC	SC	SC	-	SC
205	CA,CT,XH,XN	CA,CT	CA,CT,XH,XN	CA,CT	CA	CA
255	CA,CT,XH,XN	CA,CT	CA,CT,RH,RN	CA,CT	CA	CA,CT
25M	SC	SC	SC	SC	SC	SC
405	CA	SC,RH,RN	CA	-	-	CA

#### Roadway 315 continued

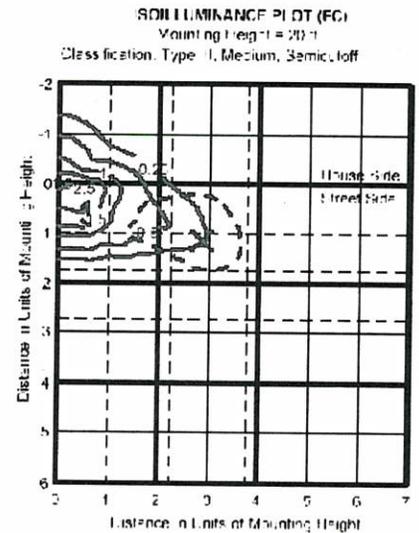
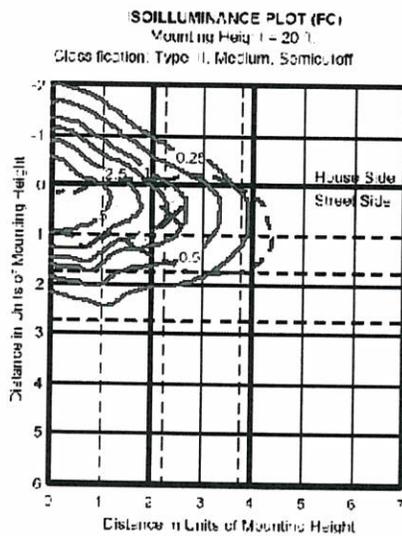
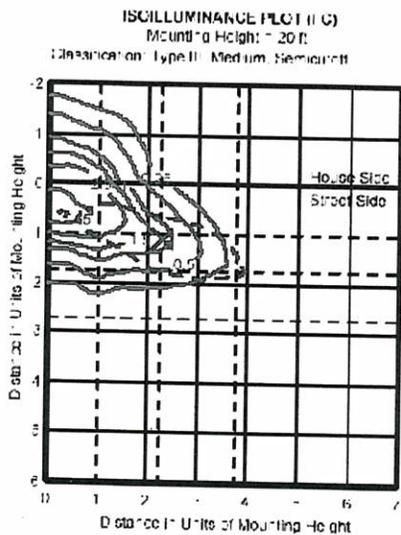
Watts	DT2	DT4	MT1	MT2	MT7	TT3
035	-	-	-	-	-	-
055	XH,XN	-	XH,XN	XH,XN	XH,XN	-
075	CA,CT,MR,XH,XN	MR	CA,XH,XN	CA,XH,XN	CA,XH,XN	XH,XN
105	CA,CT,MR,XH,XN	-	CA,XH,XN	CA,XH,XN	CA,XH,XN	XH,XN
155	CA,CT,MR,XH,XN	MR	CA,CT,XH,XN	CA,CT,XH,XN	CA,CT,XH,XN	XH,XN
135	-	-	-	-	-	-
145	-	-	-	-	-	-
15M	XH,XN	-	XH,XN,SC	XH,XN,SC	XH,XN,SC	-
17M	SC	-	SC	SC	SC	-
205	CA,CT,XH,XN	-	CA,CT	CA,CT	CA,CT	CA
255	CA,CT,XH,XN	-	CA,CT	CA,CT	CA,CT	CA,CT
25M	SC	SC	SC	SC	SC	SC
405	-	-	CA	CA	CA	-

### PHOTOMETRICS

315 155 R3 DA

315 255 R3 DG

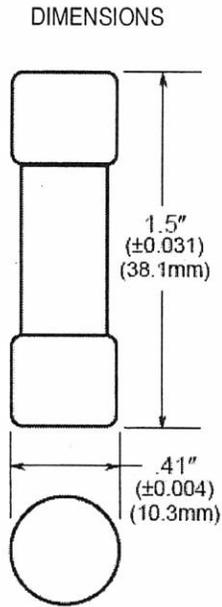
315 075 R2 DG



X Maximum Intensity  
 --- 1/2 Maximum Intensity

# KTK Fast-Acting Fuses

Waytek Stock No.	Amps
45273	1
45275	3
45277	5
45279	7.5
45281	10
45283	15



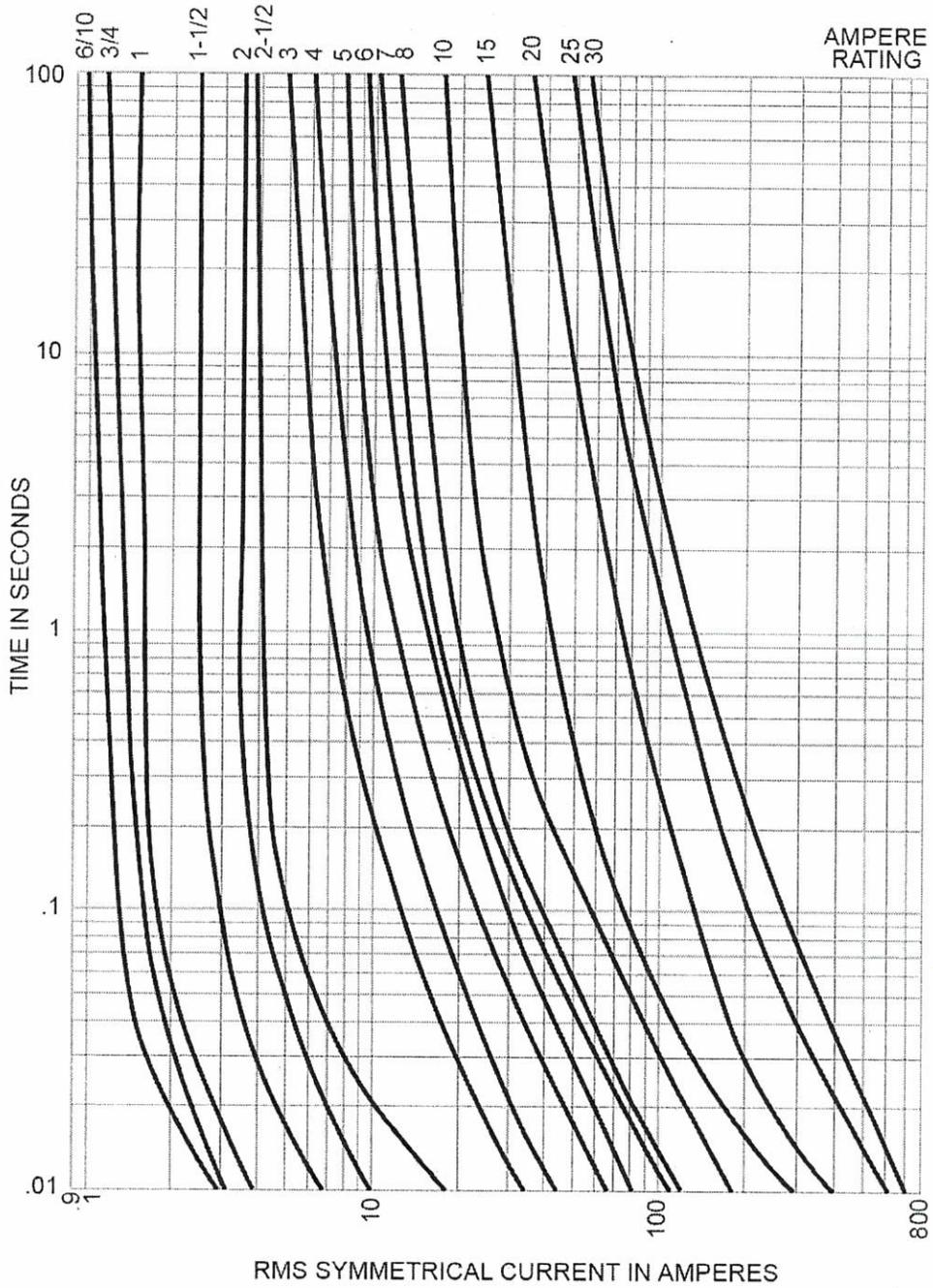
10 AMP

## Features:

- Fast-acting
- Melamine tube
- Nickel plated bronze endcaps
- Voltage: 600 volts AC
- Interrupt Rating: 100,000A RMS sym (UL)
- UL Listed:
  - Std. 248-14, Guide JDYX, File E19180
- CSA Certified:
  - C22.2 NO. 248.14, File #53787 - Class 1422-01, HRC-MISC

# KTK Fast Acting Fuses

Time-Current Characteristic Curves-Average Melt





# Product Catalog

for professionals

Products > 87094

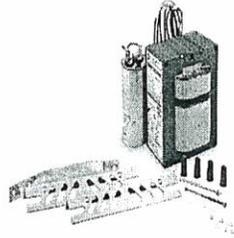
## 87094 – GES150MLTLA3D-5

GE HID Distributor Replacement Kit Magnetic High Pressure Sodium Core and Coil Ballast

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- Magnetic ballast construction ideal for a wide variety of lighting applications.
- Precision-wound aluminum coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core & coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)



Package



[View Larger](#)

### GENERAL CHARACTERISTICS

Lamp type	HID - Magnetic
Bulb	Magnetic
Base	
Ballast Type	High Pressure Sodium Core and Coil
Type	Replacement kit
Dimming Type	N/A
Starting Method	Pulse start
Lamp Wiring	Series
Line Voltage Regulation (+/-) (NOM)	10 %
Ambient Temperature (MIN)	-40 °C(-40 °F)
Ambient Temperature (MAX)	105 °C(221 °F)
Ballast Factor	1
Circuit Type	CWA
Insulation Class	UL Class H 180
Enclosure Type	Core and Coil
Capacitance (NOM)	14 µF
Capacitor Temperature Rating (NOM)	100 °C(212 °F)
Distance to Lamp (MAX)	10 ft

### ADDITIONAL RESOURCES

[Disposal Policies & Recycling Information](#)

### ELECTRICAL CHARACTERISTICS

Lamp Operating Frequency (NOM)	60.0 Hz
Supply Current Frequency (NOM)	60.0 Hz
Voltage (MIN)	280.0

### DIMENSIONS

CaseLength	4.0 in (101.6 mm)
------------	-------------------

CaseWidth	2.8 in (71.4 mm)
BracketLength	5.5 in (139.7 mm)
MountLength	3.5 in (88.9 mm)
MountSlots	0.2 in (4.9 mm)
MountWidth	2.4 in (61.9 mm)
Weight (NOM)	7.4 lb
Exit Type	Side
Diameter (NOM)	1.6000 in (40.6 mm)
Nominal Length (NOM)	2.7000 in (68.5 mm)
Frame size (H x L)	2.82 in

**PRODUCT INFORMATION**

Product Code	87094
Description	GES150MLTLA3D-5
Standard Package	Master
Standard Package Quantity	6
Sales Unit	Distributor Kit
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	6
UPC	043168870948

** CAUTIONS & WARNINGS**

-

[See list of cautions & warnings.](#)

**NOTES**

- Kit contains the appropriate core & coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

\*GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

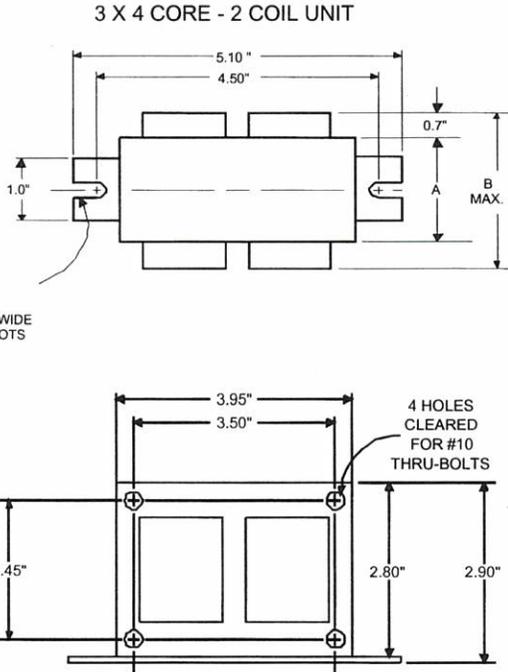
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**Metal Halide Lamp Ballast**

**Catalog Number 71A5390**  
**For 100W M90/M140**  
**60 Hz HX-HPF**  
**Status: Active**

**DIMENSIONS AND DATA**



		120	208	240	277
INPUT VOLTS					
CIRCUIT TYPE	HX-HPF				
POWER FACTOR (min)	90%				
REGULATION					
Line Volts	±5%				
Lamp Watts	±12%				
LINE CURRENT (Amps)					
Operating.....		1.15	0.66	0.58	0.50
Open Circuit.....		2.30	1.40	1.15	1.00
Starting.....		1.20	0.80	0.65	0.60
UL TEMPERATURE RATINGS					
Insulation Class	H(180°C)				
Coil Temperature Code	1029	B	C	A	A
MIN. AMBIENT STARTING TEMP.	-20°F or -30°C				
NOM. OPEN CIRCUIT VOLTAGE	265				
INPUT VOLTAGE AT LAMP DROPOUT.....		90	156	180	208
INPUT WATTS	129				
RECOMMENDED FUSE (Amps).....		6	4	3	3
CORE and COIL					
Dimension (A)	1.50				
Dimension (B)	2.80				
Weight (lbs.)	5.5				
Lead Lengths	12"				
CAPACITOR REQUIREMENT					
Microfarads	12.0				
Volts (min.)	280				
Fault Current Withstand (amps)					
60 Hz TEST PROCEDURES (Refer to Advance Test Procedure for HID Ballasts - Form 1270)					
High Potential Test (Volts)					
1 minute	2000				
2 seconds	2500				
Open Circuit Voltage Test (Volts)	240-300				
Short-Circuit Current Test (Amps)					
Secondary Current	1.35-1.70				
Input Current.....		1.00	0.60	0.50	0.40
		1.50	0.90	0.75	0.65

Capacitor: 7C120M30RA



Capacitance: 12  
 Dia/Oval Dim: 1.58  
 Height: 2.68  
 Temp Rating: 105°C

Ignitor: LI533-H4



Ballast to Lamp Distance (BTL) = 20 feet  
 Temp Rating: 105°C

**Wiring Diagram:**

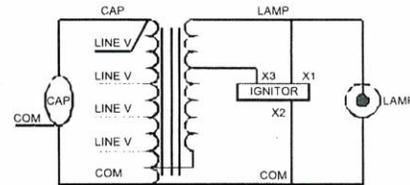


Fig. K3

**Typical Ordering Information**

(please call Advance for suffix availability)

Order Suffix	Description
500D.	Ballast With Ignitor and Dry Film Capacitor
510D.	Ballast w/Welded Bracket, Ignitor, & Dry Film Capacitor
600.	Ballast and Ignitor, No Capacitor
610.	Ballast with Welded Bracket and Ignitor, No Capacitor

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

**ADVANCE**

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086

10/10/07



# Product Catalog

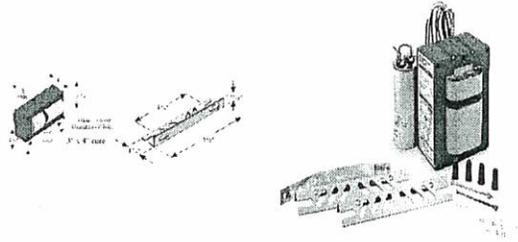
for professionals

Products > 86741

## 86741 – GEM175MLTAA3-5

GE HID Distributor Replacement Kit Magnetic Metal Halide Core and Coil Ballast

- Magnetic ballast construction ideal for a wide variety of lighting applications.
- Precision-wound aluminum coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core & coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)



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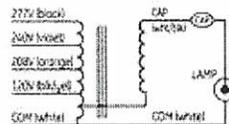
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### GENERAL CHARACTERISTICS

Category	High Intensity Discharge
Primary Application	1- 175w MH M 57 or H 39 Quad (120/208/240/277V)
Ballast Type	Magnetic - Metal Halide Core and Coil
Type	Replacement kit
Dimming Type	N/A
Starting Method	Probe Start
Lamp Wiring	Series
Line Voltage Regulation (+/-) (NOM)	10 %
Ambient Temperature (MIN)	-30 °C(-22 °F)
Ambient Temperature (MAX)	105 °C(221 °F)
Ballast Factor	1
Circuit Type	CWA
Insulation Class	UL Class H 180
Enclosure Type	Core and Coil
Capacitance (NOM)	10 µF
Capacitor Temperature Rating (NOM)	100 °C(212 °F)

### DIMENSIONS

Case dimensions	
Length (L)	4.0 in (101.60 mm)
Width (W)	2.8 in (71.45 mm)
Mounting dimensions	
Bracket Length (BL)	5.5 in (139.70 mm)
Mount Length (M)	3.5 in (88.90 mm)
Mount Width (X or F)	2.4 in (61.92 mm)
Mount Slots (MS)	0.2 in (4.95 mm)
Exit Type	Side



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### ELECTRICAL CHARACTERISTICS

Lamp Operating Frequency (NOM)	60.0 Hz
Supply Current Frequency (NOM)	60.0 Hz
Voltage (MIN)	400.0

### PRODUCT INFORMATION

Product Code	86741
Description	GEM175MLTAA3-5

Standard Package	Master
Standard Package Quantity	6
Sales Unit	Distributor Kit
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	6
UPC	043168867412

**SPECIFICATIONS BY LAMP & LINE VOLTAGE**

Lamp	# of Lamps	Specifications by Line Voltage				
		120	208	240	277	
M107	1	System Wattage (W)	186.6	187.1	188.6	186.5
		Nominal Current	1.74 A	1.00 A	0.87 A	0.74 A
		Power factor (>=) %	90	90	91	90
		Fuse rating	5	3	3	2
M57	1		120	208	240	277
		System Wattage (W)	210	210	210	210
		Nominal Current	1.80 A	1.00 A	0.90 A	0.80 A
		Ballast Factor	1	1	1	1
		Ballast Efficiency	0.833	0.833	0.833	0.833
		Drop Out Voltage	60 V	100 V	115 V	135 V
		Power factor (>=) %	90	90	90	90
		Min. starting temperature	-22 -22.0 / -30	-22 -22.0 / -30	-22 -22.0 / -30	-22 -22.0 / -30
Fuse rating	5	3	3	2		
H39	1		120	208	240	277
		System Wattage (W)	210	210	210	210
		Nominal Current	1.80 A	1.00 A	0.90 A	0.80 A
		Ballast Factor	1	1	1	1
		Ballast Efficiency	0.833	0.833	0.833	0.833
		Drop Out Voltage	60 V	100 V	115 V	135 V
		Power factor (>=) %	90	90	90	90
		Min. starting temperature	-22 -22.0 / -30	-22 -22.0 / -30	-22 -22.0 / -30	-22 -22.0 / -30
Fuse rating	5	3	3	2		
		<a href="#">System specs</a>	<a href="#">System specs</a>	<a href="#">System specs</a>	<a href="#">System specs</a>	

**Safety & Performance**

- cUL Listed
-  UL Listed

[See list of cautions & warnings.](#)

**NOTES**

- Kit contains the appropriate core & coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

**WARRANTY INFORMATION**

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

[Download full warranty](#)

**ADDITIONAL RESOURCES**

[Disposal Policies & Recycling Information](#)

Photos are representational only. Sizes, shapes and labels of ballast may vary.

[Return To Top](#)

Presented By: **lighting-spot.com**  
 Contact Phone: 866-842-5512  
 Contact E-mail: sales@lighting-spot.com

Customer Name:  
 Project Name:  
 Fixture Type:



GE  
 Lighting

**86765 - GEM250MLTAC3-5**

**GE HID Distributor Replacement Kit Magnetic Core & Coil Ballast**

- Magnetic ballast construction ideal for a wide variety of lighting applications.
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Distributor replacement kit contains the appropriate core & coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

**GENERAL CHARACTERISTICS**

Application 1- 250w MH M 58 or H 37 Quad  
 Category High Intensity Discharge  
 Ballast Type Magnetic - Core & Coil  
 Type Replacement kit  
 Line Voltage Regulation (+/-) 10.0 %  
 Ballast Factor Normal  
 Circuit Type CWA  
 Insulation Class 180C  
 Enclosure Type None  
 Capacitance 15.0 µF  
 Capacitor Temperature Rating 100.0 °C ( 212 °F)

**PRODUCT INFORMATION**

Product Code 86765  
 Description GEM250MLTAC3-5  
 Standard Package Master  
 Standard Package GTIN  
 Standard Package Quantity 6  
 Sales Unit Distributor Kit  
 No Of Items Per Sales Unit 1  
 No Of Items Per Standard 6  
 Package  
 UPC 043168867658

**DIMENSIONS**

Case dimensions  
 Length (L) 4.0 in( 101.60 mm)  
 Width (W) 2.8 in( 71.45 mm)  
 Height (H) NaN in( NaN mm)  
 Mounting dimensions  
 Bracket Length (BL) 5.5 in( 139.70 mm)  
 Mount Length (M) 3.5 in( 88.90 mm)  
 Mount Width (X or F) 2.4 in( 61.93 mm)  
 Mount Slots (MS) 0.2 in( 4.95 mm)  
 Weight 9.0 lb  
 Exit Type Side  
 Diameter 1.75 in  
 Nominal Length 3.25 in  
 Frame size (H x L) 2.813 x 3.939 in

**ELECTRICAL CHARACTERISTICS**

Supply Current Frequency 60.0 Hz  
 Voltage (MIN) 400.0

**SAFETY & PERFORMANCE**

- cUL Listed
- UL Listed

**SPECIFICATIONS BY LAMP & LINE VOLTAGE**

Lamp # of	Specifications	System	Nominal	Ballast	Ballast	Max.Input	Starting	Open	Drop Out	Power	Min.starting	Fuse	UL bench
Lamps	by Line	Wattage	Current	Factor	Efficiency	Current	Current	Circuit	Voltage	factor	temperature	rating	top rise
	Voltage							Voltage					
M58	1	120	294.0	2.65 A A	1.0	0.85	NaN A	NaN A	NaN V	0.9	-22.0 °F °F	8.0	C
M58	1	208	294.0	1.5 A A	1.0	0.85	NaN A	NaN A	NaN V	0.9	-22.0 °F °F	5.0	D
M58	1	240	294.0	1.3 A A	1.0	0.85	NaN A	NaN A	NaN V	0.9	-22.0 °F °F	4.0	C
M58	1	277	294.0	1.13 A A	1.0	0.85	NaN A	NaN A	NaN V	0.9	-22.0 °F °F	3.0	C
H37	1	120	294.0	2.65 A A	1.0	0.85	NaN A	NaN A	NaN V	0.9	-22.0 °F °F	8.0	C
H37	1	208	294.0	1.5 A A	1.0	0.85	NaN A	NaN A	NaN V	0.9	-22.0 °F °F	5.0	D
H37	1	240	294.0	1.3 A A	1.0	0.85	NaN A	NaN A	NaN V	0.9	-22.0 °F °F	4.0	C
H37	1	277	294.0	1.13 A A	1.0	0.85	NaN A	NaN A	NaN V	0.9	-22.0 °F °F	3.0	C

**CAUTIONS & WARNINGS**

**Warning**

- Risk of Electric Shock
- Properly ground ballast and fixture.
- Turn power off before servicing--see instructions.

**ACCESSORIES**

Oil-Filled Capacitor  
 Product Code 88982  
 Description 005-1185-MF  
 Oil-Filled Capacitor

Product Code	75434
Description	GECAP-15/400V-O

**NOTES**

- Kit contains the appropriate core & coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

**WARRANTY INFORMATION**

GE Lighting warrants to the purchaser that each ballast will be free from defects in material or workmanship for period as defined in the attached documents from the date of manufacture when properly installed and under normal conditions of use.

Shop By Category ▼ Enter Keyword or Product # Search Cart (0)

Home > Commercial Lighting Fixtures > Lighting Fixture Accessories > Photocells > Locking-Type Photocells



**TORK 2007A - Photo Control**  
Locking-Type Mount - Quick Response - 105-285 Volt

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Write the first review

8+1 0 Like 0

**\$15.63**<sup>ea</sup>

Quantity: 1

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TORK-2007A

Additional Media



This Tork 2007A blue photo control with locking-type mounting operates at 105-285 volts and can be used in street lighting, highway lighting, and other applications that require instant response. This photo cell meets ANSI C136.10 and EEI NEMA standards and is CSA certified and UL listed. It features a MOV surge arrester.

### Brochures & Spec Sheets

Tork 2007A Spec Sheet

Photocontrol Features

### Specifications

<b>Stock Code:</b>	TORK-2007A	<b>Brand:</b>	Tork
<b>Part No.:</b>	2007A	<b>UPC:</b>	078626162013
<b>Voltage:</b>	105/285	<b>Color:</b>	Blue
<b>Height:</b>	2.1875 in.	<b>Diameter:</b>	3.1875 in.
<b>Joule Rating:</b>	360	<b>Mounting:</b>	Turn-Lock
<b>Start Temp. (Min):</b>	-40 Deg. F	<b>Start Temp. (Max):</b>	158 Deg. F
<b>Watts Ballast:</b>	1800 VA	<b>Watts Tungsten:</b>	1000
<b>CSA Listed:</b>	Certified	<b>Case Quantity:</b>	12

### Customer Reviews

Be the first to write a review



### Customers Also Purchased



Photo Control - Flush Mounting - Mechanism with Gasket Only

★★★★★ 1 review

**\$8.88**



250 Watt - T15 - 20,000 Kelvin - Aquarium Lamp

★★★★★ 13 reviews

**\$14.55**



175 Watt - BT28 - METALARC - Metal Halide - Unprotected Arc

★★★★★ 2 reviews

**\$12.08**



# 3000 SERIES

FLUSH MOUNTING  
LEXAN® HOUSING  
PHOTOCONTROL

## APPLICATIONS

- Pole lanterns
- Lawn lighting
- Walkways



## SPECIFICATIONS

**ON/OFF:** Turn ON is 1 to 5fc. Turn OFF is 3 to 15fc.

**TIME DELAY:** ON and OFF.

**CELL:** Cadmium sulphide, conformal coated 1/2" diameter.

**CONTACTS:** Normally closed (the unit fails in the ON position).

**LEAD WIRES:** Three color coded, minimum 9" wire leads, #16AWG, rated for 105 °C.

**POWER CONSUMPTION:** Averages under 1 watt.

**TEMPERATURE RANGE:** -40 °F to +158 °F (-40 °C to +70 °F).

**FAIL MODE:** ON.

**WARRANTY:** 5 years.

## FEATURES

**SENSOR:** Conformal coated cadmium sulphide photocell resists effects of moisture and airborne contaminants. Photocell responds to the light spectrum near to that of a human eye.

**OPERATION:** Delay of up to two minutes to prevent false switching due to light from passing vehicles, lightning, etc.

**STANDARDS:** Meets ANSI/UL773A.

**HOUSING & MOUNTING:** Control housing is weather-resistant molded Lexan® with ultrasonically welded seams.

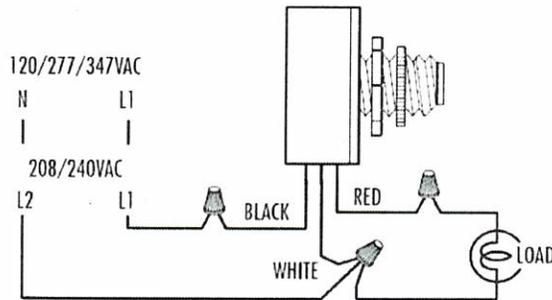
**MODEL 3000:** Flush mounting through .6875" hole in post lantern or lighting fixture, 3/8" NPT, stem 3/4" long. Gasket and nut supplied.

**MODEL 3010:** flush mounting into standard, raintight junction box. Includes aluminum plate and gasket to fit FS type outdoor junction box.

**ENERGY SAVINGS:** Works with screw base CFLs.

CAT. NO.	UPC CODE	VOLTAGE (VAC) 50-60Hz	RATING		LED
			TUNGSTEN	BALLAST	
3000	60020	120	2000W	1800VA	600VA
3002	60019	208-277	3470-4620W	2080-2770VA	1040-1385VA
 3006	60026	347	5760W	3470VA	-
3010	60021	120	2000W	1800VA	600VA

\*CSA certified only.



Philips Lighting Company  
200 Franklin Square Drive ■ P.O. Box 6800  
Somerset, NJ 08875-6800  
1-800-555-0050

[www.lighting.philips.com/nam](http://www.lighting.philips.com/nam)

A Division of Philips Electronics North America Corporation  
Updated 2/02 PSMH 001

Philips Lighting  
281 Hillmount Road  
Markham, Ontario L6C 2S3

A Division of Philips Electronics Limited

## Pulse Start Metal Halide 175 Watt Lamp (Clear)

Electrical Data (Subject to change without notice)

Lamp Watts (Nominal) . . . . .	175
Lamp Operating Voltage (rms) (Nominal) . . . . .	132
Initial Lamp Voltage Range (rms) . . . . .	120-140
Lamp Operating Current (Amps) (rms) (Nominal) . . . . .	1.5
Lamp Current Crest Factor (Maximum) . . . . .	1.6
Warm-up Time to 90% of Output . . . . .	2 Minutes
Re-strike Time for Hot Lamp . . . . .	4 Minutes
Ballast Type . . . . .	ANSI M137/E
Ballast Open Circuit Voltage (Minimum) . . . . .	245 RMS Min.
Pulse Peak Volts . . . . .	3000 Min., 4000 Max.
Pulse Width @ 90% Peak (micro sec) . . . . .	1.3
Pulse Repetition Rate (Minimum) . . . . .	1x/1/2cycle
Minimum Operating Temperature . . . . .	-30° C
Advance Transformer Ballast Number . . . . .	71A5592

### Warnings, Cautions and Operating Instructions

"WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21CFR 1040.30 Canada:SOR/DORS/80-381)

If the outer bulb is broken or punctured, turn off at once and replace the lamp to avoid possible injury from hazardous short wave ultraviolet radiation. Do not scratch the outer bulb or subject it to pressure as this could cause the outer bulb to crack or shatter. A partial vacuum in the outer bulb may cause glass to fly if the envelope is struck.

WARNING: The arc-tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000° C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.

Certain lamps that will retain all the glass particles should inner arc-tube rupture occur are commercially available from Philips Lighting Company.

RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE. Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.

CAUTION: TO REDUCE THE RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE RESULTING FROM AN ARC-TUBE RUPTURE THE FOLLOWING LAMP OPERATING INSTRUCTIONS MUST BE FOLLOWED.

### Lamp Operating Instructions:

- 1) Turn off lamps at least once a week for at least 15 minutes in systems which are operating on a continuous basis (24 hours/day-7days/week). FAILURE TO TURN OFF LAMPS FOR THE MINIMUM RECOMMENDED TIME MAY INCREASE THE POSSIBILITY OF AN INNER ARC-TUBE RUPTURE.
- 2) RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE. Allowing lamps to operate until they fail is not advised and may increase the possibility of inner arc tube rupture.
- 3) Use only in an enclosed fixture capable of withstanding particles of glass having temperatures up to 1000° C.
- 4) Before lamp installation/replacement, shut power off and allow lamp and fixture to cool to avoid electrical shock and potential burn hazards.
- 5) Use only auxiliary equipment meeting Philips and /or ANSI standards. Use within voltage limits recommended by ballast manufacturer.
  - A. Operate lamp only within specified limits of operation.
  - B. For total supply load refer to ballast manufacturers electrical data.
  - C. All Pulse Start mogul based lamps require a socket rated to withstand a 4000 volt pulse.
- 6) Periodically inspect the outer envelope. Replace any lamps that show scratches, cracks or damage.
- 7) If a lamp bulb support is used, be sure to insulate the support electrically to avoid possible decomposition of the bulb glass.
- 8) Protect lamp base, socket and wiring against moisture, corrosive atmospheres and excessive heat.
- 9) Time should be allowed for lamps to stabilize in color when turned on for the first time. This may require several hours of operation, with more than one start. Lamp color is also subject to change under conditions of excess vibration or shock, and color appearance may vary between individual lamps.
- 10) Lamps may require 2 to 4 minutes to re-light if there is a power interruption.
- 11) Take care in handling and disposing of lamps. If an arc tube is broken, avoid skin contact with any of the contents or fragments.
- 12) Use this lamp only in fixtures that contain a Pulse Start metal halide ballast and are specifically designed for use with Pulse Start metal halide lamps.



GE  
Lighting

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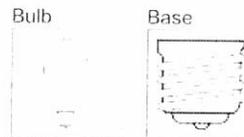
**42729 – MVR250/U**

GE Multi-Vapor® Quartz Metal Halide ED28



**GENERAL CHARACTERISTICS**

Lamp type	High Intensity Discharge - Quartz Metal Halide
Bulb	ED28
Base	Mogul Screw (E39)
Bulb Finish	Clear
Wattage	250
Rated Life (Hor)	6000 hrs
Rated Life (Vert)	10000 hrs
Bulb Material	Hard glass
Lamp Enclosure Type (LET)	Enclosed fixtures only
LEED-EB MR Credit	230 picograms Hg per mean lumen hour



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**PHOTOMETRIC CHARACTERISTICS**

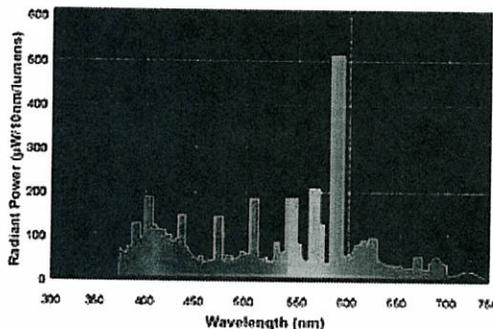
Initial Lumens (Hor)	19100
Initial Lumens (Vert)	20800
Mean Lumens (Hor)	12400
Mean Lumens (Vert)	13500
Nominal Initial Lumens per Watt	76
Color Temperature	4200 K
Color Rendering Index (CRI)	65
Effective Arc Length	1.400000

**ADDITIONAL RESOURCES**

- [Catalogs](#)
- [Testimonials](#)
- [MSDS \(Material Safety Data Sheets\)](#)
- [Disposal Policies & Recycling Information](#)

**GRAPHS & CHARTS**

Spectral Power Distribution



**ELECTRICAL CHARACTERISTICS**

Burn Position	Universal burning position
Open Circuit Voltage (peak lead ballast) (MIN)	540 V
Open Circuit Voltage (RMS lag ballast) (MIN)	382 V
Warm Up Time to 90% (MIN)	2 min
Warm Up Time to 90% (MAX)	5 min
Hot Restart Time to 90% (MIN)	10 min
Hot Restart Time to 90% (MAX)	15 min

**DIMENSIONS**

Maximum Overall Length	8 1/4
------------------------	-------

(MOL)

Nominal Length 8 1/4

Bulb Diameter (DIA) 3 1/2

Light Center Length (LCL) 5

**PRODUCT INFORMATION**

Product Code 42729  
 Description MVR250/U  
 ANSI Code M58  
 Standard Package Case  
 Standard Package GTIN 10043168427293  
 Standard Package Quantity 12  
 Sales Unit Unit  
 No Of Items Per Sales Unit 1  
 No Of Items Per Standard Package 12  
 UPC 043168427296

**COMPATIBLE GE BALLASTS**

Product Code	Description	# of Bulbs	Power Factor	Ballast Factor
<b>86564</b>	1110246CTC000C	1	90.0	1.0
<b>87211</b>	GEM250ML5AC3-5	1	90.0	1.0
<b>71702</b>	GEM250ML5AC3-55	1	90.0	1.0
<b>86765</b>	GEM250MLTAC3-5	1	90.0	1.0

**⚠ CAUTIONS & WARNINGS**

**R-** WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. Visit the FDA website for more information:  
<http://www.fda.gov/cdrh/radhealth/products/urburns.html>

[See list of cautions & warnings.](#)

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# Product Catalog

for professionals

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## 85371 – LU150/55/H/ECO

GE Ecolux® Lucalox® High Pressure Sodium ED23.5

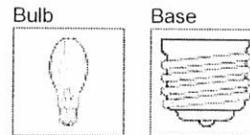
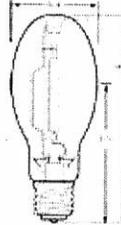
- Passes TCLP, which can lower disposal costs.

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### GENERAL CHARACTERISTICS

Lamp type	High Intensity Discharge - High Pressure Sodium
Bulb	ED23.5
Base	Mogul Screw (E39)
Bulb Finish	Clear
Rated Life (MIN)	24000 hrs
Rated Life (NOM)	24000 hrs
Bulb Material	Hard glass
Lamp Enclosure Type (LET)	Open or enclosed fixtures
Base Temperature (MAX)	210 °C(410 °F)
Bulb Temperature (MAX)	400 °C(752 °F)
Mercury Content (NOM)	15 mg
Picograms of Mercury (NOM)	43 picograms Hg per mean lumen hour
Additional Info	TCLP compliant



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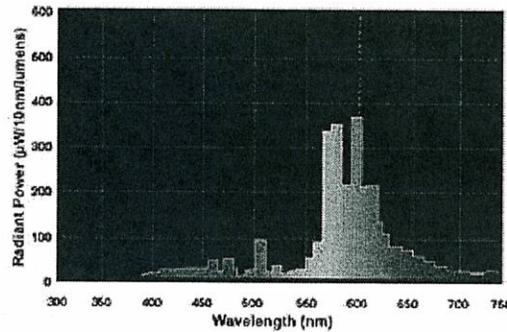
### ADDITIONAL RESOURCES

[MSDS \(Material Safety Data Sheets\)](#)

[Disposal Policies & Recycling Information](#)

### GRAPHS & CHARTS

[Graphs\_Spectral Power Distribution]



### PHOTOMETRIC CHARACTERISTICS

Initial Lumens (NOM)	16000
Mean Lumens (NOM)	14400
Nominal Initial Lumens per Watt (NOM)	107
Color Temperature (NOM)	2000 K
Color Rendering Index (CRI) (NOM)	22
Effective Arc Length (NOM)	2 in

### ELECTRICAL CHARACTERISTICS

Wattage (NOM)	150.0
Burn Position	Universal burning position
Open Circuit Voltage (RMS lag ballast) (MIN)	110.0 V
Warm Up Time to 90% (NOM)	4.0 min
Hot Restart Time to 90% (NOM)	1.0 min

### DIMENSIONS

7.7500 in (196.8 mm)

### YOU MIGHT ALSO BE INTERESTED IN...

#### For Longer Life



[GE Lucalox® Standby Long Life Lucalox® High Pressure Sodium ED23.5](#)  
Product code: 61369

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes Dual arc tubes provide 40,000 hour rated life Operates on standard HPS ballasts and auxiliary equipment

Maximum Overall Length (MOL) (NOM)

Nominal Length (NOM) 7.7500 in (196.8 mm)

Bulb Diameter (DIA) (MAX) 2.9375 in (74.6 mm)

Bulb Diameter (DIA) (NOM) 2.9500 in (74.9 mm)

Light Center Length (LCL) (NOM) 5.0000 in (127.0 mm)

**PRODUCT INFORMATION**

Product Code 85371

Description LU150/55/H/ECO

ANSI Code S55

Standard Package Case

Standard Package GTIN 10043168853719

Standard Package Quantity 12

Sales Unit Unit

No Of Items Per Sales Unit 1

No Of Items Per Standard Package 12

UPC 043168853712

**COMPATIBLE GE BALLASTS**

Product Code	Description	# of Bulbs	Power Factor	Ballast Factor
<a href="#">86606</a>	1233154U000I	1	0.8	1.0
<a href="#">87087</a>	GES15048TLC3D-5	1	0.9	1.0
<a href="#">87094</a>	GES150MLTLA3D-5	1	0.9	1.0
<a href="#">71439</a>	GEC242-MVPS-BES			
<a href="#">71441</a>	GEC242-MVPS-3W			
<a href="#">71440</a>	GEC242-MVPS-SE			
<a href="#">78536</a>	GES150TRILC3-5	1	90.0	1.0
<a href="#">67339</a>	GES15048TLA3D-5/2	1	0.9	1.0

**CAUTIONS & WARNINGS**

See list of cautions & warnings.

**COMPARE**

**For Energy**



[GE Lucalox® Standby Long Life Lucalox® High Pressure Sodium ED23.5](#)  
Product code: 61369

• Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes Dual arc tubes provide 40,000 hour rated life Operates on standard HPS ballasts and auxiliary equipment

**COMPARE**

**For Better Light**



[GE Lucalox® Standby Long Life Lucalox® High Pressure Sodium ED23.5](#)  
Product code: 61369

• Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes Dual arc tubes provide 40,000 hour rated life Operates on standard HPS ballasts and auxiliary equipment

**COMPARE**

**For Safety**



[GE Lucalox® Standby Long Life Lucalox® High Pressure Sodium ED23.5](#)  
Product code: 61369

• Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes Dual arc tubes provide 40,000 hour rated life Operates on standard HPS ballasts and auxiliary equipment

**COMPARE**

**For Super Long Life**



[GE Lucalox® Standby Long Life Lucalox® High Pressure Sodium ED23.5](#)  
Product code: 61369

• Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes Dual arc tubes provide 40,000 hour rated life Operates on standard HPS ballasts and auxiliary equipment

**COMPARE**

**For Environmental**



[GE Lucalox® Standby Long Life Lucalox® High Pressure Sodium ED23.5](#)  
Product code: 61369

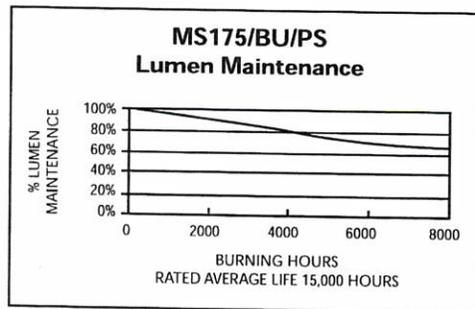
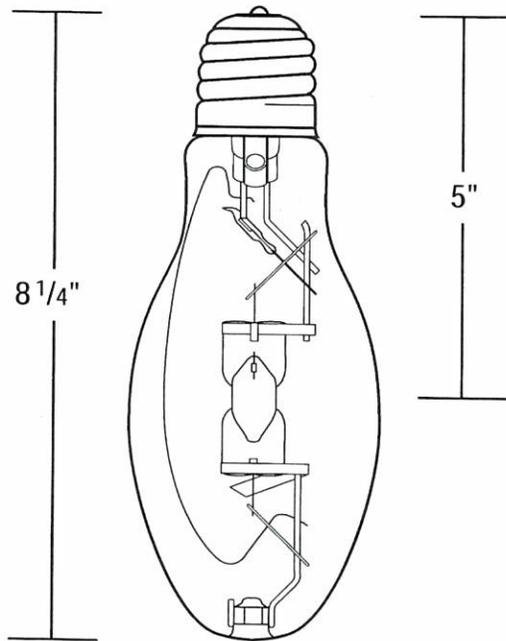
• Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes Dual arc tubes provide 40,000 hour rated life Operates on standard HPS ballasts and auxiliary equipment

**COMPARE**

\*Click on product for more specification details

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# Pulse Start Metal Halide 175 Watt Lamp (Clear)



## ■ Ordering Information

Ordering Code	MS175/BU/PS
ANSI Designation	M137/E
Product Number	276626
Description	Pulse Start Metal Halide
Package Quantity	12

## ■ Physical Characteristics

Bulb Size	ED-28
Bulb Finish	Clear
Base (Nickel Plated Brass)	Mogul-Screw
Max. Overall Length (MOL)	8 5/16" (211mm)
Light Center Length (LCL)	5.0" (127mm)
Arc Length	.78" (20mm)
Arc Tube Material	Quartz
Max. Permissible Bulb Temp.	400°C (752°F)
Max. Permissible Base Temp.	210°C (410°F)
Max. Bulb to Base Eccentricity	3°
Max. Arc Tube to Base Eccentricity	3°

## ■ Operating Characteristics (Photometric)

Rated Initial Lumens	16,000
Mean Lumens, Approx.	11,200
Rated Average Life, Hours	15,000
Correlated Color Temp. (CCT)	3700K
CIE Chromaticity Approx.	x-.396, y-.390
Color Rendering Index (CRI)	65
Efficacy (lpw)	91

## ■ Operating Position

Base Up ± 15°-Enclosed Luminaires Only

Note: Pulse Start Metal Halide is Designed for Operation on Only Approved Ballasts with Metal Halide Pulse Igniters.

*Let's make things better.*



**PHILIPS**



# Product Catalog

for professionals

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## 12652 – MVR100/U/MED

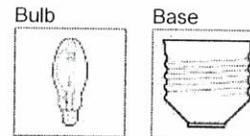
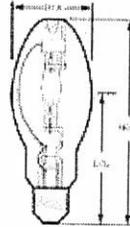
GE Multi-Vapor® PulseArc® Quartz Metal Halide BD17

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### GENERAL CHARACTERISTICS

Lamp type	High Intensity Discharge - Quartz Metal Halide
Bulb	BD17
Base	Medium Screw (E26)
Bulb Finish	Clear
Rated Life (NOM)	15000 hrs
Bulb Material	Hard glass
Lamp Enclosure Type (LET)	Enclosed fixtures only
Mercury Content (NOM)	9 mg
Picograms of Mercury (NOM)	98 picograms Hg per mean lumen hour



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### PHOTOMETRIC CHARACTERISTICS

Initial Lumens (NOM)	9500
Mean Lumens (NOM)	6000
Nominal Initial Lumens per Watt (NOM)	95
Color Temperature (NOM)	4000 K
Color Rendering Index (CRI) (NOM)	70
Effective Arc Length (NOM)	0 in

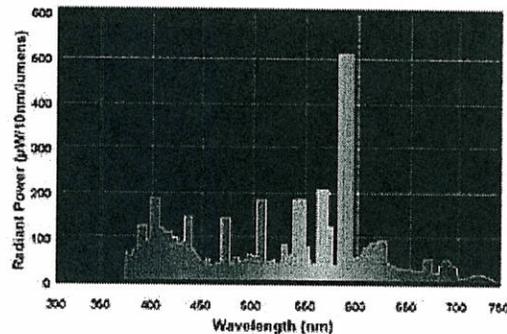
### ADDITIONAL RESOURCES

[MSDS \(Material Safety Data Sheets\)](#)

[Disposal Policies & Recycling Information](#)

### GRAPHS & CHARTS

[Graphs\_Spectral Power Distribution]



### ELECTRICAL CHARACTERISTICS

Wattage (NOM)	100.0
Voltage (NOM)	100.0
Burn Position	Universal burning position
Open Circuit Voltage (peak lead ballast) (MIN)	332.0 V
Open Circuit Voltage (RMS lag ballast) (MIN)	235.0 V
Warm Up Time to 90% (MIN)	2.0 min
Warm Up Time to 90% (MAX)	5.0 min
Hot Restart Time to 90% (MIN)	10.0 min
Hot Restart Time to 90% (MAX)	15.0 min

### DIMENSIONS

Maximum Overall Length (MOL) (NOM)	5.4300 in (137.9 mm)
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Nominal Length (NOM)	5.4300 in (137.9 mm)
Bulb Diameter (DIA) (NOM)	2.1250 in (53.9 mm)
Light Center Length (LCL) (NOM)	3.4300 in (87.1 mm)

**PRODUCT INFORMATION**

Product Code	12652
Description	MVR100/U/MED
ANSI Code	M90
Standard Package	Case
Standard Package GTIN	10043168126523
Standard Package Quantity	6
Sales Unit	Unit
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	6
UPC	043168126526

**COMPATIBLE GE BALLASTS**

Product Code	Description	# of Bulbs	Power Factor	Ballast Factor
<u>87561</u>	GEMH100-SLJ-MV	1	0.99	1.0
<u>86574</u>	11210239CTC000I	1	0.9	1.0
<u>86667</u>	GEM10048TLC3D-5	1	0.9	1.0
<u>86675</u>	GEM100MLTLA3D-5	1	0.9	1.0
<u>78519</u>	GEM100TRILC3-5	1	0.9	1.0
<u>63048</u>	GEMH100MVR-F	1		
<u>67333</u>	GEM10048TLA3D-5/2	1	0.9	1.0

**⚠ CAUTIONS & WARNINGS**

**R**-WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured, and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. Visit the FDA website for more information:  
<http://www.fda.gov/cdrh/radhealth/products/urburns.html>

See list of cautions & warnings.

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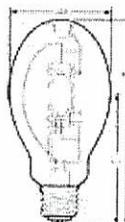
## 47760 – MVR175/U

GE Multi-Vapor® Quartz Metal Halide ED28

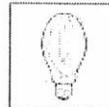


### GENERAL CHARACTERISTICS

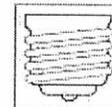
Lamp type	High Intensity Discharge - Quartz Metal Halide
Bulb	ED28
Base	Mogul Screw (E39)
Bulb Finish	Clear
Wattage	175
Rated Life (Hor)	6000 hrs
Rated Life (Vert)	10000 hrs
Bulb Material	Hard glass
Lamp Enclosure Type (LET)	Enclosed fixtures only
LEED-EB MR Credit	293 picograms Hg per mean lumen hour



Bulb



Base



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### PHOTOMETRIC CHARACTERISTICS

Initial Lumens (Hor)	11700
Initial Lumens (Vert)	13600
Mean Lumens (Hor)	7400
Mean Lumens (Vert)	8800
Nominal Initial Lumens per Watt	66
Color Temperature	4000 K
Color Rendering Index (CRI)	65
Effective Arc Length	1

### ADDITIONAL RESOURCES

[Catalogs](#)

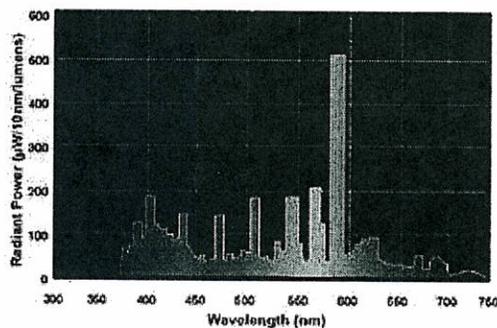
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[MSDS \(Material Safety Data Sheets\)](#)

[Disposal Policies & Recycling Information](#)

### GRAPHS & CHARTS

#### Spectral Power Distribution



### ELECTRICAL CHARACTERISTICS

Burn Position	Universal burning position
Open Circuit Voltage (peak lead ballast) (MIN)	540 V
Open Circuit Voltage (RMS lag ballast) (MIN)	382 V
Warm Up Time to 90% (MIN)	2 min
Warm Up Time to 90% (MAX)	5 min
Hot Restart Time to 90% (MIN)	10 min
Hot Restart Time to 90% (MAX)	15 min

### DIMENSIONS

Maximum Overall Length	8 1/4
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(MOL)

Nominal Length	8 1/4
Bulb Diameter (DIA)	3 1/2
Light Center Length (LCL)	5

**PRODUCT INFORMATION**

Product Code	47760
Description	MVR175/U
ANSI Code	M57
Standard Package	Case
Standard Package GTIN	10043168477601
Standard Package Quantity	12
Sales Unit	Unit
No Of Items Per Sales Unit	1
No Of Items Per Standard Package	12
UPC	043168477604

**COMPATIBLE GE BALLASTS**

Product Code	Description	# of Bulbs	Power Factor	Ballast Factor
86563	1110245SCTC000I	1	90.0	1.0
86741	GEM175MLTAC3-5	1	90.0	1.0

**▲ CAUTIONS & WARNINGS**

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See [list of cautions & warnings](#).

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