



REQUESTS FOR BIDS

PURCHASE OF
STREET LIGHTING SUPPLIES

2015

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, August 11, 2015 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, August 11, 2015 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 Parkers Mill, Oswego, Illinois, 60543.

Each bidder is to submit their bid as indicated on the bid sheet provided.

This contract is not subject to payment of Prevailing Wages. Each contractor is to submit their bid as indicated in the Specifications.

Emailed or faxed bids will not be accepted.

The Village reserves the right to reject any or all bids and to waive any informality in bidding.

Award of Contract: The Village of Oswego Board of Trustees will make the final award of the proposal or contract.

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 (54) | \$ _____ | \$ _____ |
| Alternate _____ (54) | \$ _____ | \$ _____ |
| MVR175/U (300) | \$ _____ | \$ _____ |
| Alternate _____ (300) | \$ _____ | \$ _____ |
| LU150/55/H/ECO (200) | \$ _____ | \$ _____ |
| Alternate _____ (200) | \$ _____ | \$ _____ |
| PULSE START MH175 (36) | \$ _____ | \$ _____ |
| Alternate _____ (36) | \$ _____ | \$ _____ |
| MVR250/U (36) | \$ _____ | \$ _____ |
| Alternate _____ (36) | \$ _____ | \$ _____ |

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 (150) | \$ _____ | \$ _____ |
| Alternate _____ (150) | \$ _____ | \$ _____ |
| 3000 SERIES LEXAN PHOTO CONTROL (50) | \$ _____ | \$ _____ |
| Alternate _____ (50) | \$ _____ | \$ _____ |

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 (75) | \$ _____ | \$ _____ |
| Alternate _____ (75) | \$ _____ | \$ _____ |
| GEM250MLTAC3-5 (25) | \$ _____ | \$ _____ |
| Alternate _____ (25) | \$ _____ | \$ _____ |
| GES150MLTLA3D-5 (50) | \$ _____ | \$ _____ |
| Alternate _____ (50) | \$ _____ | \$ _____ |
| M90/M140 100W (25) | \$ _____ | \$ _____ |
| Alternate _____ (25) | \$ _____ | \$ _____ |

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 (50) | \$ _____ | \$ _____ |
| Alternate _____ (50) | \$ _____ | \$ _____ |

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 (10) | \$ _____ | \$ _____ |
| Alternate _____ (10) | \$ _____ | \$ _____ |

Authorized Signature: _____

Please print name: _____

Date: _____

Company submitting bid: _____

Address: _____

Phone: _____

Bid opening is Tuesday, August 11, 2015 at 10:00 a.m. at Village Hall, 100 Parkers Mill.



Product Catalog

for professionals

Products > 12652

12652 – MVR100/U/MED

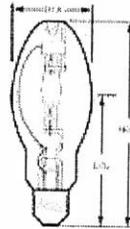
GE Multi-Vapor® PulseArc® Quartz Metal Halide BD17

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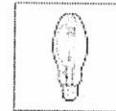
GENERAL CHARACTERISTICS

| | |
|----------------------------|--|
| 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 |



Bulb

Base



[View Larger](#)

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 |

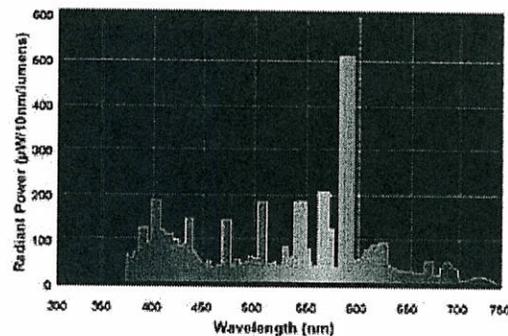
ADDITIONAL RESOURCES

[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) |
|------------------------------------|----------------------|

| | |
|------------------------------------|----------------------|
| 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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GE
Lighting

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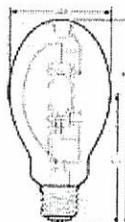
47760 – MVR175/U

GE Multi-Vapor® Quartz Metal Halide ED28

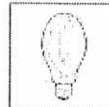


GENERAL CHARACTERISTICS

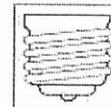
| | |
|---------------------------|--|
| Lamp type | High Intensity Discharge - Quartz Metal Halide |
| Bulb | ED28 |
| Base | Mogul Screw (E39) |
| Bulb Finish | Clear |
| Wattage | 175 |
| Rated Life (Hor) | 6000 hrs |
| Rated Life (Vert) | 10000 hrs |
| Bulb Material | Hard glass |
| Lamp Enclosure 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](#)

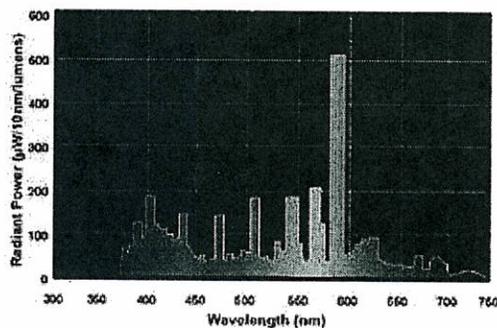
[Testimonials](#)

[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 | 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

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

Products > 85371

85371 – LU150/55/H/ECO

GE Ecolux® Lucalox® High Pressure Sodium ED23.5

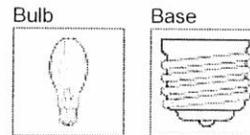
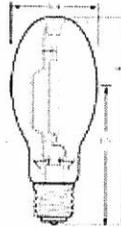
- Passes TCLP, which can lower disposal costs.

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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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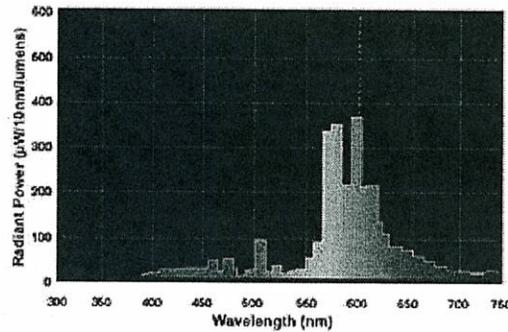
ADDITIONAL RESOURCES

[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 |
|-----------------------|-------------------|------------|--------------|----------------|
| 86606 | 1233154U000I | 1 | 0.8 | 1.0 |
| 87087 | GES15048TLC3D-5 | 1 | 0.9 | 1.0 |
| 87094 | GES150MLTLA3D-5 | 1 | 0.9 | 1.0 |
| 71439 | GEC242-MVPS-BES | | | |
| 71441 | GEC242-MVPS-3W | | | |
| 71440 | GEC242-MVPS-SE | | | |
| 78536 | GES150TRILC3-5 | 1 | 90.0 | 1.0 |
| 67339 | 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

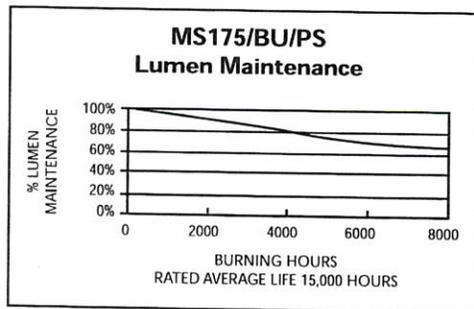
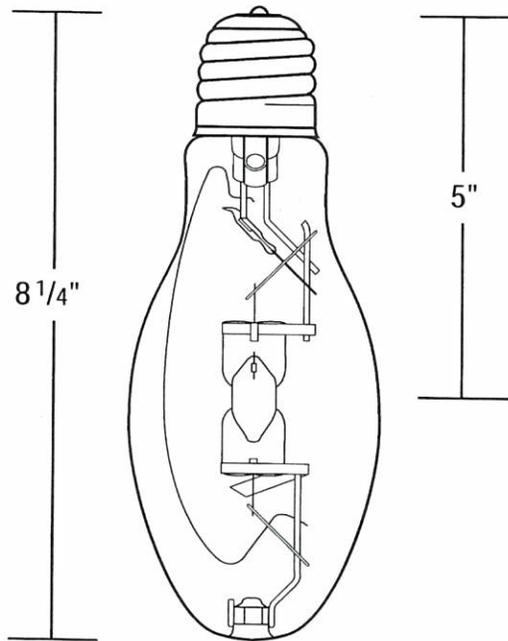
- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes Dual arc tubes provide 40,000 hour rated life Operates on standard HPS ballasts and auxiliary equipment

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

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 |



Bulb

Base

[View Larger](#)

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](#)

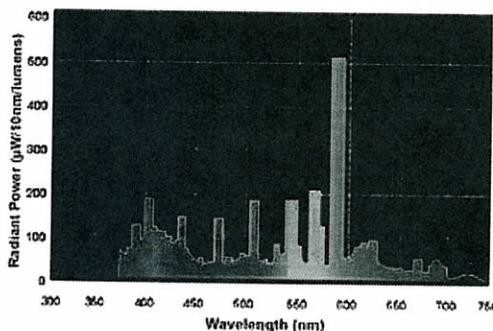
[Testimonials](#)

[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 |
|--------------|-----------------|------------|--------------|----------------|
| 86564 | 1110246CTC000C | 1 | 90.0 | 1.0 |
| 87211 | GEM250ML5AC3-5 | 1 | 90.0 | 1.0 |
| 71702 | GEM250ML5AC3-55 | 1 | 90.0 | 1.0 |
| 86765 | 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.](#)

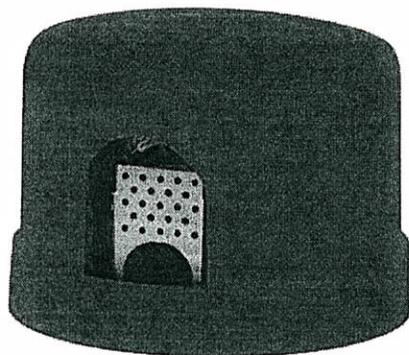
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TORK 2007A - Photo Control
Locking-Type Mount - Quick Response - 105-285 Volt

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\$15.63ea

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

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

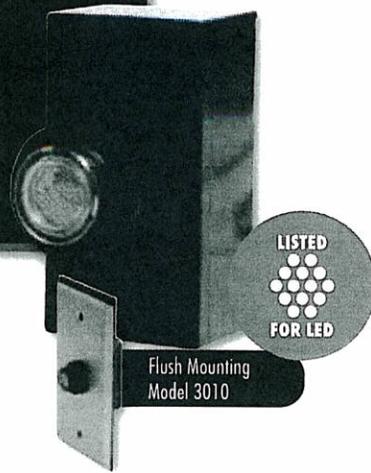


3000 SERIES

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.

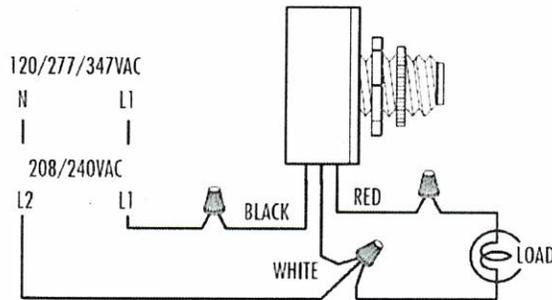
MODEL 3000: Flush mounting through .6875" hole in post lantern or lighting fixture, 3/8" NPT, stem 3/4" long. Gasket and nut supplied.

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.





Product Catalog

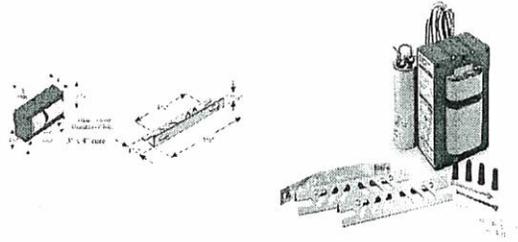
for professionals

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)

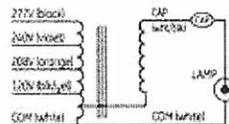

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GENERAL CHARACTERISTICS

| | |
|-------------------------------------|---|
| 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 | 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 | 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 |
| | | System specs | System specs | System specs | System specs | |

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.

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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.



Product Catalog

for professionals

Products > 87094

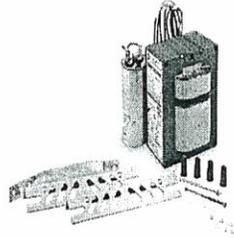
87094 – GES150MLTLA3D-5

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.

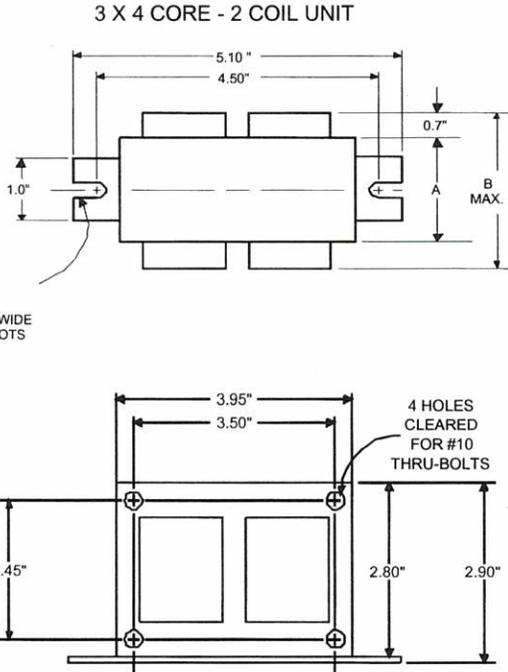
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Metal Halide Lamp Ballast

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

DIMENSIONS AND DATA



| INPUT VOLTS | 120 | 208 | 240 | 277 |
|--|----------------|------|------|------|
| CIRCUIT TYPE | HX-HPF | | | |
| POWER FACTOR (min) | 90% | | | |
| REGULATION | ±12% | | | |
| 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 |
| 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) | 280 | | | |
| 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:

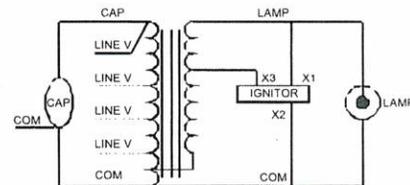


Fig. K3

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

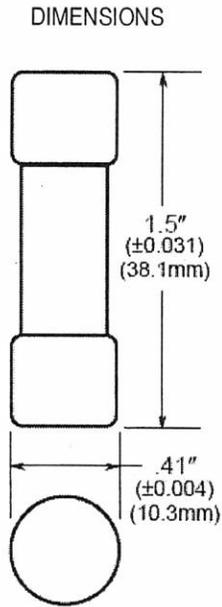
Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086

10/10/07

KTK Fast-Acting Fuses

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



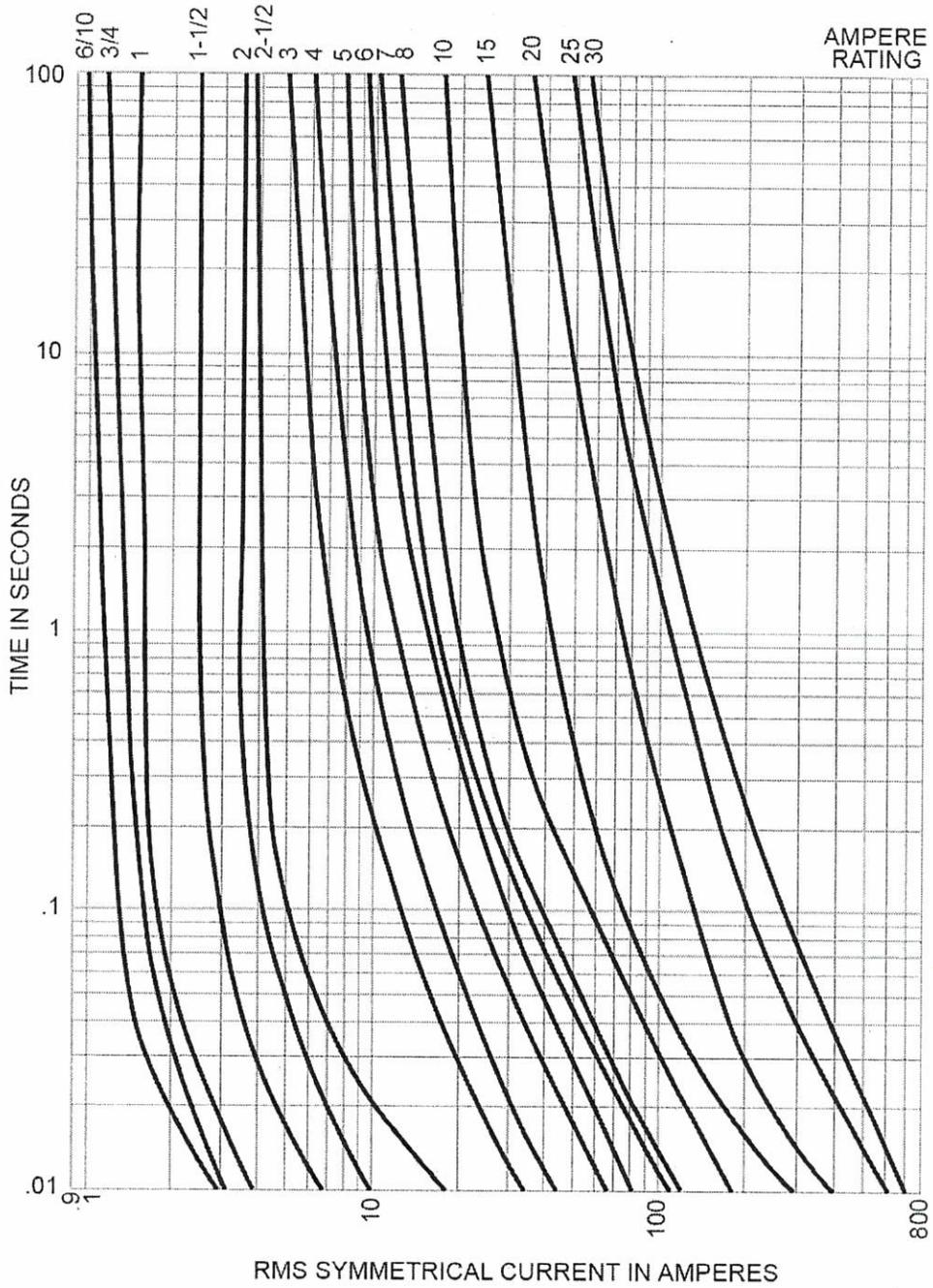
10 AMP

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



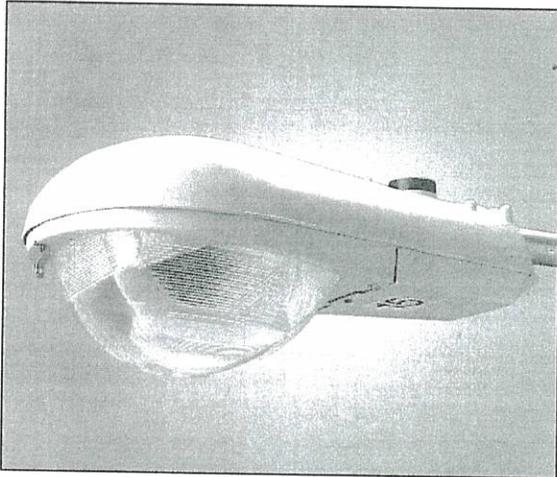
175 ✓

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

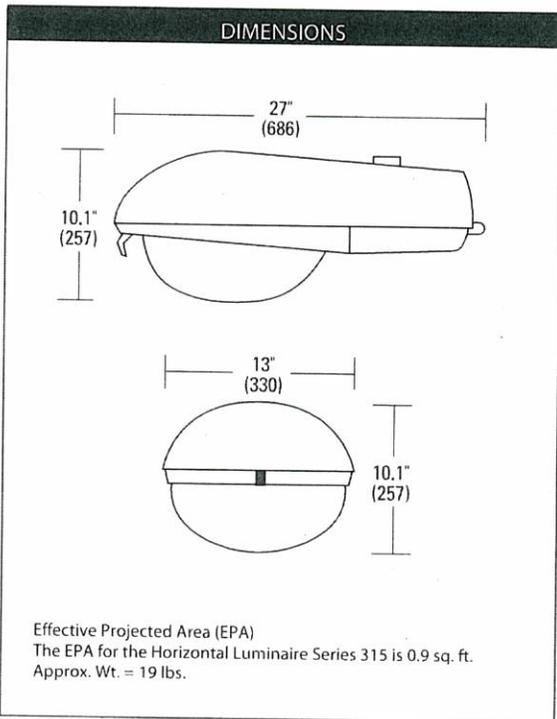
E39 mogul base socket standard

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



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

See ballast matrix for EISA compliant options

| Options |
|---------|
|---------|

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) |

Paint¹

| | |
|---------|-----------------|
| (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) ⁵ |

Listing

| | |
|----|---------------|
| UL | UL Listed |
| CS | CSA Certified |

Fusing⁶

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

Photocontrol Receptacle

| | |
|---------|--|
| (blank) | NEMA Photocontrol Receptacle (standard) |
| NR | No Photocontrol Receptacle ⁷ |

Lamp

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

Starter⁸

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

Misc.

| | |
|----|---|
| PC | Photocontrol Included per Voltage Specified ⁷ |
| BF | 3G Vibration ⁹ |
| 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 ⁷ |
| 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

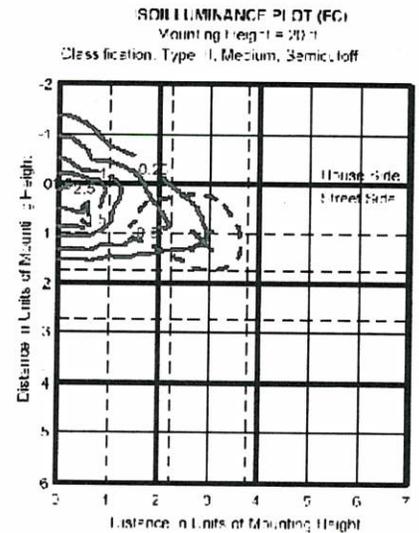
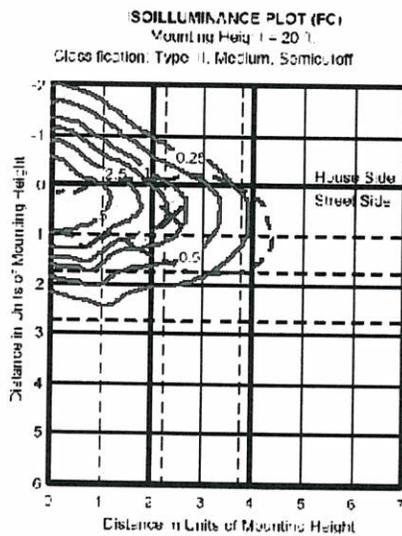
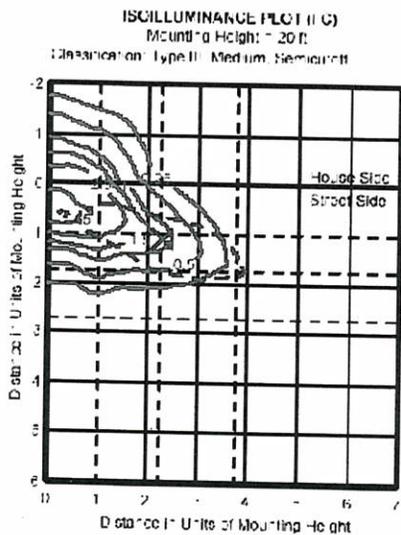
| Watts | DT2 | DT4 | MT1 | MT2 | MT7 | TT3 |
|-------|----------------|-----|-------------|-------------|-------------|-------|
| 035 | - | - | - | - | - | - |
| 055 | XH,XN | - | XH,XN | XH,XN | XH,XN | - |
| 075 | CA,CT,MR,XH,XN | MR | CA,XH,XN | CA,XH,XN | CA,XH,XN | XH,XN |
| 105 | CA,CT,MR,XH,XN | - | 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