

Specifications

METAL HALIDELAMP
70PMH120

LTV710 Series Bronze Housing Accent
LTV10 Series Composite Housing Accent



Lens Ring: One-piece cast bronze, natural finish. (Optional standard Stainless Steel lens ring is also available.) Eight captive 5/16" blackened stainless steel hex-socket cap screws.

Lens: Clear tempered borosilicate glass, 5/16" thick, flush with lens ring, slightly crowned.

Lens Gasket: One-piece molded silicone, U-channel wraps completely around lens flange.

Bronze Housing: Two-piece cast bronze, 3/16" min. wall thickness upper and lower housing continuously soldered together. No top lip to trap dirt and moisture. Separate splice and ballast compartments, individual cast aluminum internal covers with one-piece molded silicone gaskets. Two 3/4" NPT in bottom of 33 cu in. splice area. Modular reverse draft housing design (top smaller than largest bottom diameter).

Composite Housing: High temperature, compression molded, fiberglass impregnated, 3/16" min. wall composite. Charcoal gray. No top lip to trap dirt and moisture. Solid brass knurled inserts molded-in to receive lens ring screws. Separate splice and ballast compartments, individual cast aluminum internal covers, with silicone gaskets. Two 3/4" NPT in bottom, 33 cu in. splice area. Modular reverse draft design (top dia. smaller than bottom), body and ballast modules epoxy bonded.

Optical System: **SP** and **NF** - Spot or Narrow Flood spun aluminum reflectors, specular Alzak®, black Duranodic® arc tube glare shield on SP only. (G12 base socket option available.) **PR** - for PAR38 reflector lamps. All sockets 4KV medium base. All optical systems yoke mounted, 360° rotation, ±25° vertical adjustment, locking screws, black hi-temp finish gimble ring.

Electrical Module: High power factor ballast, -20°F starting, factory mounted and prewired to gasketed compartment cover, LTV710 / LTV10 only.

Wiring: Anti-siphon barriers on all wiring to and from ballast compartment. All components wire linked for ground, quick-disconnect for removal of optical system.

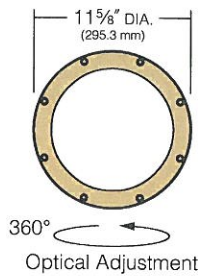
SP, NF, or PR OPTICAL SYSTEM



Architectural Accent

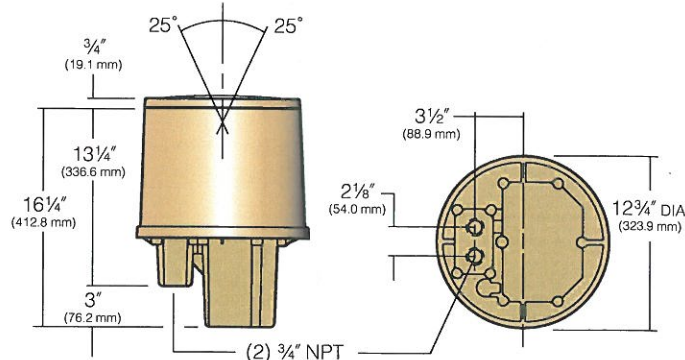


Trees



Drive-over Durability:

When installed in concrete (see page 29), fixture will withstand drive-over by vehicles weighing up to 5,500 lb.



Listings and Ratings

UL cUL 1598'	IP68 Rated	CE	25C Ambient
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*Suitable for wet recessed

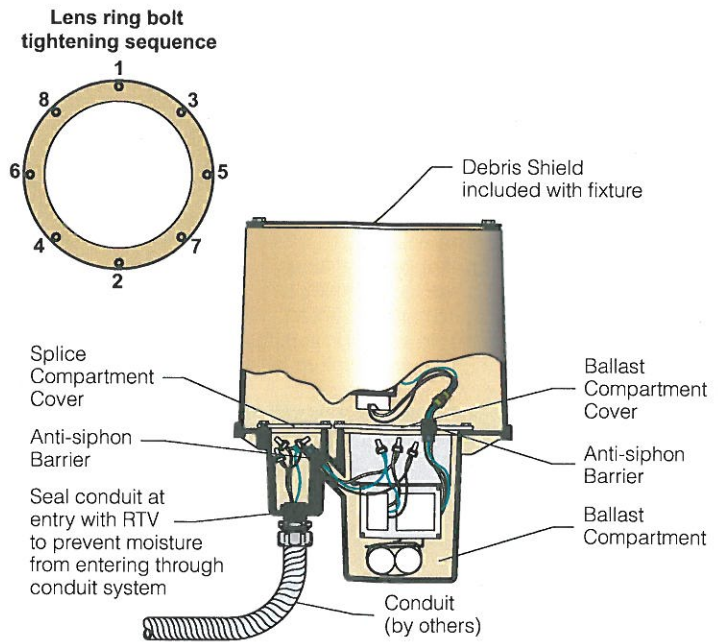
Installation Details

LTV710 / LTV10 - LTV740 / LTV40

After pulling wire into splice compartment, seal conduit by injecting RTV silicone sealer into open end to completely block entry of water.

Clean all gasket, interior housing, and cover plate surfaces thoroughly. Install compartment gaskets and covers and tighten all fasteners to a minimum of 20 inch/pounds (1.67 ft. lbs.).

Install lamp into fixture and test for operation. Clean all gasket, housing, and lens ring surfaces and assemble, leaving fasteners loose. See page 31 for clearing of moist air from the interior of the fixture prior to completely sealing. After exhausting moist air from the fixture, tighten lens ring bolts to a minimum of 30 inch/pounds (2½ ft. lbs.). Tighten bolts in a staggered pattern indicated in the illustration.

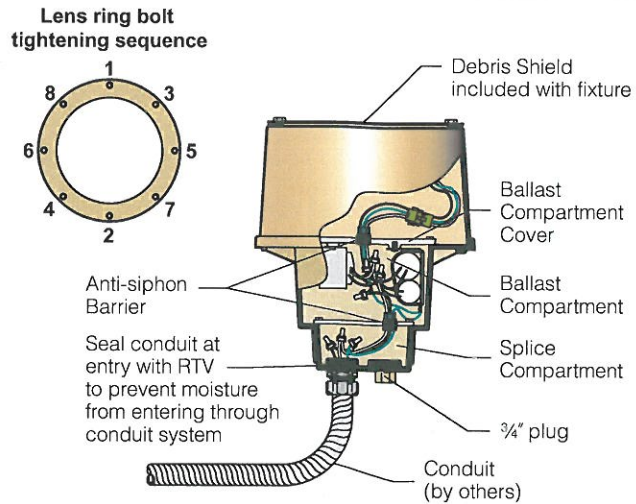


LTV750 / LTV50

After pulling wire into splice compartment, seal conduit by injecting RTV silicone sealer into open end to completely block entry of water.

Clean all gasket, interior housing, and cover plate surfaces. Install compartment gasket and cover and tighten fasteners to a minimum of 20 inch/pounds (1.67 ft. lbs.). Repeat operation for ballast compartment cover.

Install lamp into fixture and test for operation. Clean all gasket, housing, and lens ring surfaces and assemble, leaving fasteners loose. See page 31 for additional clearing of moist air from the interior of the fixture prior to completely sealing. After exhausting moist air from the fixture, tighten all lens ring bolts to a minimum of 30 inch/pounds (2½ ft. lbs.). Tighten bolts in a staggered pattern indicated in the illustration.

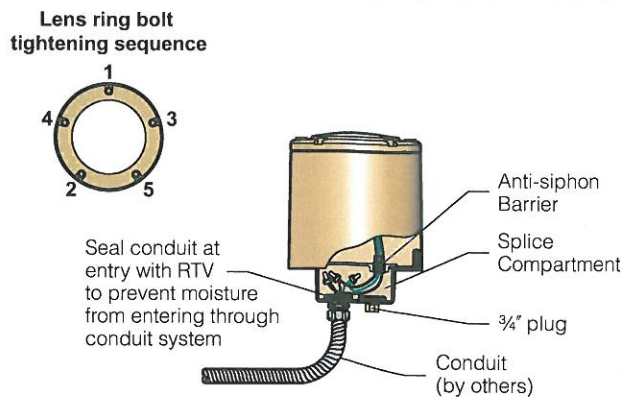


LTV760

After pulling wire into splice compartment, seal conduit by injecting RTV silicone sealer into open end to completely block entry of water.

After completion of splice compartment wiring, clean all gasket, interior housing, and cover plate surfaces. Install compartment gasket and cover and tighten fasteners to a minimum of 15 inch/pounds (1¼ ft. lbs.).

Install lamp into fixture and test for operation. Clean all gasket, housing, and lens ring surfaces and assemble, leaving fasteners loose. See page 31 for additional clearing of moist air from the interior of the fixture prior to completely sealing. After exhausting moist air from the fixture, tighten all lens ring bolts to a minimum of 20 inch/pounds (1.67 ft. lbs.). Tighten bolts in a staggered pattern indicated in the illustration.



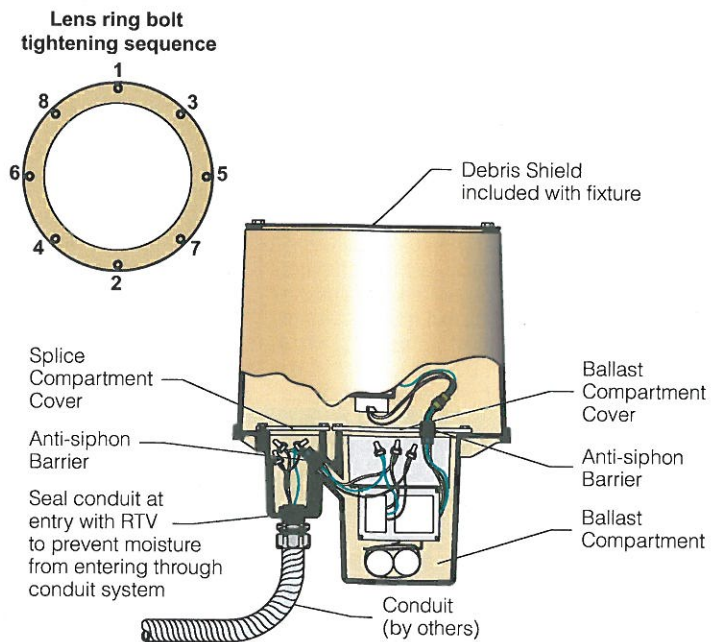
Installation Details

LTV710 / LTV10 - LTV740 / LTV40

After pulling wire into splice compartment, seal conduit by injecting RTV silicone sealer into open end to completely block entry of water

Clean all gasket, interior housing, and cover plate surfaces thoroughly. Install compartment gaskets and covers and tighten all fasteners to a minimum of 20 inch/pounds (1.67 ft. lbs.).

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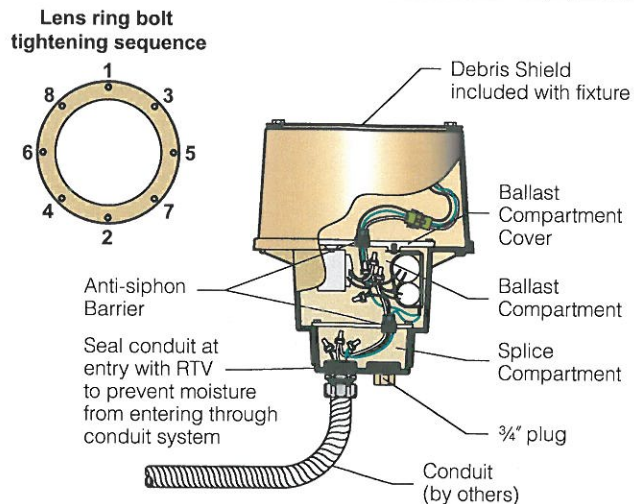


LTV750 / LTV50

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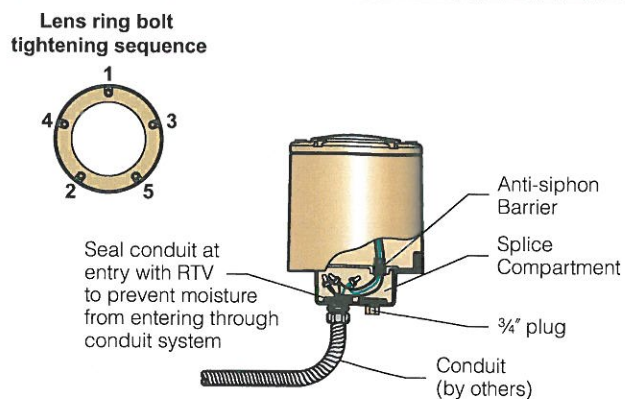


LTV760

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Common Installation Problems

The single most common error made when installing in-grade luminaires is mounting them too low. When this happens the fixture becomes a sump, collecting dirt and debris which covers the lens and blocks the light. The second most common error is planting too close to the fixture. When this happens, foliage grows over the luminaire because there is no obvious surface for landscape edge trimming. Based on four decades of experience with in-grade luminaires, Kim Lighting recommends the installation guidelines below.



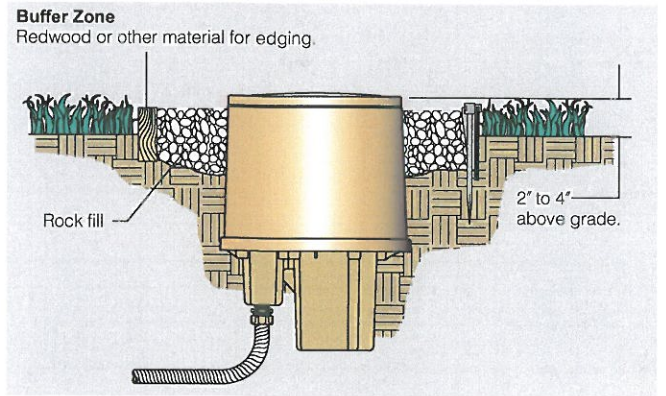
Isolate and Elevate. The fundamentals of a clean, maintainable installation.

Create a Buffer Zone

When fixtures are located in areas planted in ground cover or shrubbery, construct a buffer zone to prevent lens overgrowth and to create an edge for trimming. Elevate the fixtures for drainage and backfill with decorative rock. As the ground cover grows, the fixtures will look flush even though they are 2" to 4" above grade.

Advantages

- Prevents lens overgrowth.
- Provides a defined edge for trimming.
- Provides drainage away from the lens to maintain light output.
- Visually looks like a flush installation.

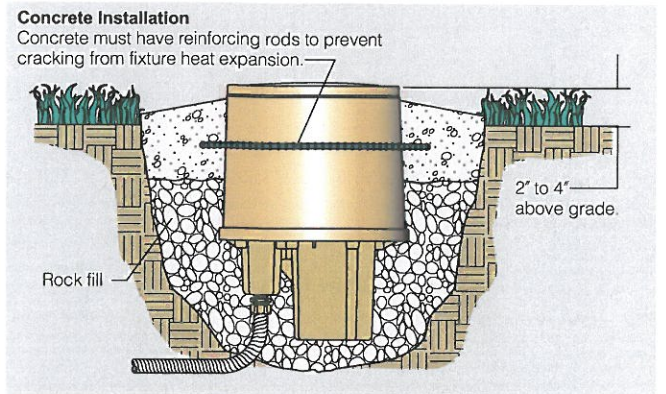


Install in Concrete

Another option for installations in ground cover, shrubbery or lawn areas is to encase the fixture in concrete. This creates the buffer zone as described above, with the additional advantage of greater fixture stability. Elevate the fixture 2" to 4" above grade, and slope the concrete away from the lens ring for drainage.

Advantages

- Cleaner, more stable installation, less susceptible to traffic and maintenance activity.
- Prevents lens overgrowth.
- Provides a defined edge for trimming.
- Provides drainage away from the lens to maintain light output.
- Visually looks like a flush installation.



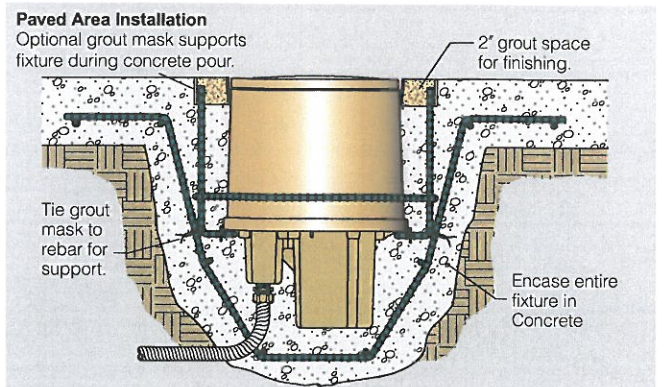
NOTE: Always use adequate rebar surrounding the fixture to prevent cracking of the concrete due to heat expansion.

In Paved Areas

When in-grade luminaires are installed in paving, it is usually required that the lens frame be flush with finished grade. To make this installation easier, Kim offers an optional Grout Mask (page 27) to support the fixture at the proper height during the concrete pour. The Grout Mask is normally tied into the paving rebar for support.

Advantages

- Supports fixture at proper height during concrete pour.
- Provides 2" grout space for finishing.
- Easily adapts to any paving material; concrete, brick, stone, etc.
- Provides maximum Drive-over durability.



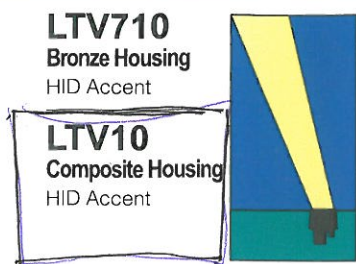
NOTE: See Safety and Maintenance Notes on page 47.

Fixture

Optics

Lamp Mode¹

Options (See pages 26-27)



LTV710
Bronze Housing
 HID Accent

LTV10
Composite Housing
 HID Accent

SP Spot
NF Narrow Flood



Yoke mounted reflector and medium base socket for ED-17 HID lamp.

PR PAR Lamp



Yoke mounted medium base socket for PAR38 HID reflector lamp.

Pulse Start Metal Halide

70PMH120
70PMH208
70PMH240
70PMH277
70PMH347

100PMH120 **100HPS120²**
100PMH208 **100HPS208²**
100PMH240 **100HPS240²**
100PMH277 **100HPS277²**
100PMH347 **100HPS347²**

150PMH120 **150HPS120²**
150PMH208 **150HPS208²**
150PMH240 **150HPS240²**
150PMH277 **150HPS277²**
150PMH347 **150HPS347²**

High Pressure Sodium

70HPS120²
70HPS208²
70HPS240²
70HPS277²
70HPS347²

Compact Fluorescent

42PL120²
42PL208²
42PL240²
42PL277²

G12 Base Socket
 available for 70W and 150W Pulse Start Metal Halide T-6 Bi-pin lamps.



HS10
 Half Shield lens ring, cast bronze.



RG10
 Rock Guard lens ring, cast bronze.



SS10
 Brushed Stainless Steel Lens Ring



TR10
 Trim Ring for flush mounting in concrete, brass.



GM10
 Grout Mask for fixture support during concrete pour, galvanized steel.

TR10 Trim Ring Included.

LTV711
Bronze Housing
 Halogen Accent

LTV11
Composite Housing
 Halogen Accent



PR PAR Lamp



Yoke mounted medium base socket for PAR38 halogen reflector lamp.

250HAL120
 250W maximum, lower wattage lamps may be used.

²HPS and PL not available for PR Optics.

NOTE: Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims. (Visit www.aboutlightingcontrols.org or the Library of Congress website for more details).

Lamps by others - see pages 48-49 for lamp guide.



KimNOW! Available Configurations:

KN-LTV10SP/150PMH*
KN-LTV10NF/150PMH*

Accessories:

KN-GM10, KN-HS10, KN-RG10, KN-TR10

* Multi-tap ballast (120, 208, 240, or 277 volts)

Colored Lens

Replaces standard clear lens.



RT10
 Rose



AM10
 Amber



RD10
 Red



BF10
 Blue



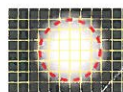
GR10
 Green

Hex Cell Louver³



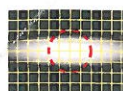
HL10
 Installs behind main lens. (See page 27)

Prismatic Lens⁴



PL10
 Installs behind main lens. (See page 27)

Spread Lens⁴



SL10
 Installs behind main lens. (See page 27)

³ Not for use with PL10 or SL10 lenses.

⁴ Not for use with HL10 Louver.

70 PMH 120

