

MONACO 6000

OWNERS MANUAL



Quality First – Customer First

The Monaco 6000 is manufactured in the U.S. The product line is UL/cUL listed and labeled. Lumière stands behind the product with a three (3) year warranty and Cooper Lighting’s exclusive Customer First Nation-Wide service network.

Questions regarding these procedures may referred to:

Lumière Customer Service at (303) 393-1522.

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1. Non Drive-Over Recessed Housing - Installation

WARNING!

TURN OFF POWER BEFORE INSTALLATION, MAINTENANCE, RELAMPING, OR SERVICING.

FIXTURE IS DESIGNED FOR IN-GROUND UP-LIGHT INSTALLATION ONLY. DO NOT INSTALL IN CEILINGS OR WALLS.

FIXTURE IS SUITABLE FOR IN-GRADE INTALL IN SOIL, CONCRETE, BRICK, OR NON-COMBUSTIBLE MASONRY MATERIALS ONLY.

FIXTURE MUST NOT COME INTO CONTACT WITH WOOD OR OTHER COMBUSTIBLE MATERIALS OR SURFACES.

BARRICADE AND MARK OPEN HOLES, TRENCHES, OR FIXTURES UNTIL INSTALLATION IS COMPLETE.

70 WATTS OR BELOW WITH TRL OPTION ARE RECOMMENDED FOR PEDESTRIAN AREAS

FIXTURE MUST BE INSTALLED IN ACCORDANCE WITH LOCAL & NATIONAL ELECTRICAL CODES.

MATERIAL LIST

	QTY
Recessed Housing, Monaco 6000/6002	1
The following materials supplied by others	
½" Threaded Rod, 36" Sections	3
½"-13 Nut	3
2" Fender Washer	3
Free drain material (CBR of 20 or greater) .	6 yards
¾" NPT Connector	1

INSTALLATION PROCEDURE

Models 6000A, 6000N, 6002A & 6002N

NOTE: These instructions are for non drive-over application. Drive-over application require kit # 6000-DSB and Installation Sheet #9702.

NOTE: Soil must be prepared as specified by civil or soils engineer.

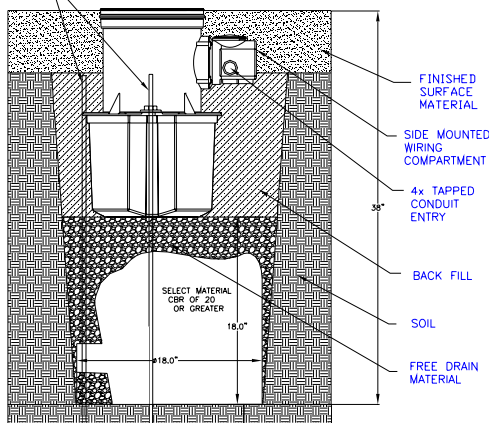
NOTE: Compact trenches to 90% relative compaction and comply with pavement design specifications.

- 1) Select threaded ports in side-mounted wiring compartment for power in. Knock out selected plugs, being careful not to damage threads in port walls.
- 2) Dig a hole at least 18 inch diameter at base and 38 inches deep.

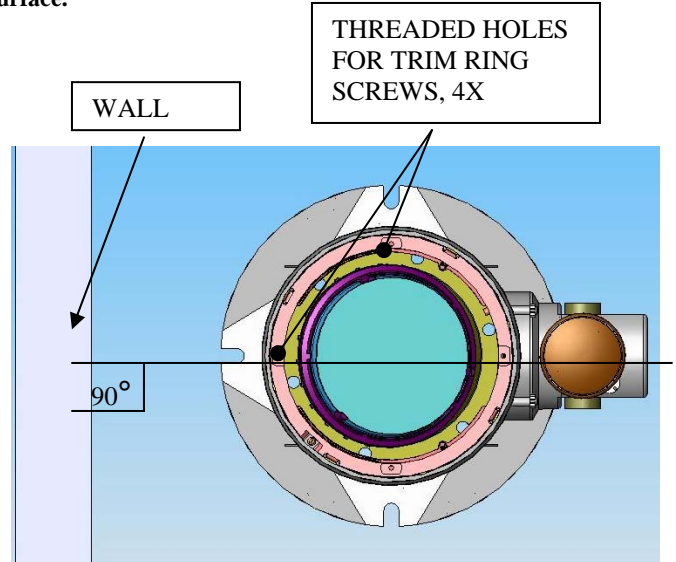
NOTE: ½" threaded rod will be used to stabilize housing. Cut three (3) lengths of ½" threaded rod (provided by others) to approximately 36".

- 3) Lower fixture housing into hole.

½" THREADED ROD,
NUTS, AND WASHERS
(THREE SIDES)
(PROVIDED BY OTHERS)



NOTE: Four (4) screws will be visible on outer trim ring when installation is complete. The orientation of screws is important, orient housing as shown below. Trim ring screws will be located at 12 o'clock, 3 o'clock, 6 o'clock and 9 o'clock, relative to center of side-mounted wiring compartment. Wiring compartment should be perpendicular to the wall or illuminated surface.



- 4) With housing oriented in hole, locate three lengths of threaded rod in integral flange slots on outer edge of housing. Temporarily thread two nuts to top of threaded rod to protect threads. Tap top of threaded rods to get them started in ground. Remove housing from hole. Continue driving rods straight into ground until 6 inches below ground level.
- 5) Fill bottom of hole with 18 inches of drainage material (provided by others). Material must be "select" free draining material with a California Bearing Ratio (CBR) of 20, or greater.

NOTE: Water will collect and drain through bottom of fixture housing. Verify drainage through fixture bottom will not adversely affect hardscape around fixture or hardscape base.

- 6) Lower the fixture housing into hole with threaded rods in integral slots. Add or remove drainage material beneath housing until top edge of housing is level with finished surface. Install concrete pour cover (if provided) securely on top of housing to prevent debris from entering. Level and secure housing to threaded rods using nuts and washers (provided by others). See figure.
- 7) Run incoming power lines and connect conduit to selected ports in mounted wiring compartment using ¾" NPT connectors (provided by others). Access wiring compartment by twisting top cover counter-clockwise.

NOTE: Conduit connections must be sealed with waterproof material to prevent water from leaking into wiring compartment.

NOTE: Leave at least 6" of wire extending from conduit, for later connection with lamp module/ballast assembly.

- 8) Back-fill hole and compress material. Finish surface material so that it is even with top.
- 9) Finish surface material so that it is even with top edge of fixture housing.

2. Drive-Over Recessed Housing - Installation

WARNING!

TURN OFF ALL POWER TO FIXTURE BEFORE INITIAL INSTALLATION, MAINTENANCE, RELAMPING, AND SERVICING.

THIS FIXTURE IS DESIGNED FOR IN-GROUND INSTALLATION ONLY FOR USE AS AN UPLIGHT. DO NOT INSTALL IN CEILINGS OR IN VERTICAL SURFACES SUCH AS WALLS.

SUITABLE FOR IN-GROUND DIRECT BURIAL, OR FOR INSTALLATION IN POURED CONCRETE, BRICK, OR OTHER NON-COMBUSTIBLE MASONRY MATERIALS ONLY.

FIXTURE MUST NOT COME INTO CONTACT WITH WOOD OR OTHER COMBUSTIBLE MATERIALS OR SURFACES.

BARRICADE AND MARK OPEN HOLES, TRENCHES, OR FIXTURES UNTIL INSTALLATION IS COMPLETE.

70 WATTS OR BELOW WITH TRL OPTION ARE RECOMMENDED FOR PEDESTRIAN AREAS

FIXTURE TO BE INSTALLED IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES.

MATERIAL LIST

	<u>QTY</u>
Recessed Housing, Monaco 6000/6002	1
<u>Drive-Over Kit # 6000-DSB (Must Be Ordered)</u>	
Drive-Over Brackets	4
Threaded Rod, 2 ft Sections	6
Anchor Bolts	6
Threaded Rod Couplers	3
½"-13 x 1" Bolts	4
½"-13 Nuts	29
2" Fender Washer	3
<u>Other Material Required-Provided by others</u>	
Free drain material (CBR of 20 or greater), approx.0.6 yard	
One ¾" NPT Connector	1

INSTALLATION PROCEDURE

MONACO 6000 AND 6002

NOTE: Soil must be prepared as specified by a civil or soils engineer.

NOTE: Trenches should be compacted to 90% relative compaction and comply with pavement design specifications.

RECESSED HOUSING PREP

- 1) Determine which of the four (4) threaded ports in the side-mounted wiring compartment will be used to run power to the fixture. Knock out the plug in the required ports.

CAUTION: Be careful not to damage the threads inside the port walls.

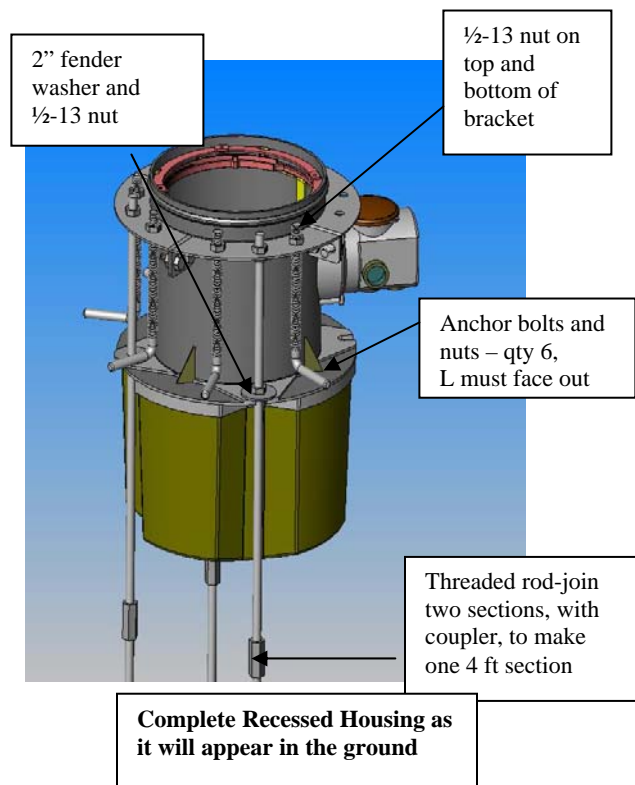
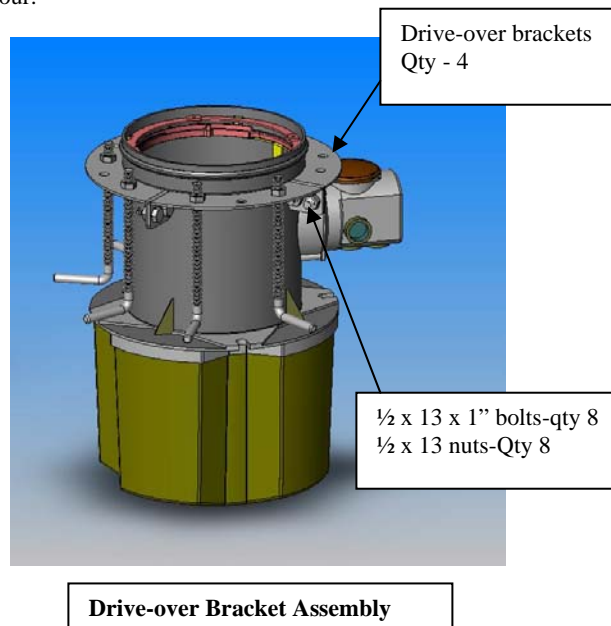
- 2) Assemble the four (4) drive-over brackets around the recessed housing, as shown in the diagram. Connect the brackets with ½"-13 x 1" bolts and ½"-13 nuts (Qty 8).
- 3) Attach six (6) anchor bolts, ½-13 x 8" x 3" to the drive over brackets as shown in the diagram. Attach ½-13 nuts to the anchor bolts approximately 1" above the bracket.

NOTE: The "L" section of the bolt must be facing out as shown in the diagram.

HOLE PREP

- 4) Dig a hole that is at least 18 inches in diameter at the base and 38 inches deep.
- 5) Included in the installation kit are six 2 foot sections of threaded rod and three couplers. Join two sections of threaded rod with a coupler to make a 4 ft threaded rod assembly. Do the same with the other threaded rod sections.

NOTE: The threaded rod assemblies will be pounded into the soil and attached to the housing to stabilize the fixture for the cement pour.



- 8) Lower the fixture housing into the hole.

NOTE: Four (4) screws will be visible on outer trim ring when installation is complete. The orientation of screws is important, orient housing shown on pg 3. Trim ring screws will be located at 12 o'clock, 3 o'clock, 6 o'clock and 9 o'clock, relative to center of side-mounted wiring compartment.

Wiring compartment should be perpendicular to the wall or illuminated surface.

- 9) With the housing setting in the hole, locate the three threaded rod assemblies in the integral flange slots along the outer edge of the housing. Temporarily attach two nuts to the top of the threaded rods to protect the threads. Tap the top of the rod assemblies to get them started in the ground. Remove the housing from the hole. Continue driving the rods straight into the ground until they are about 1 inch below the final finished surface level.

NOTE: Do not drive rods too deep. If they are too deep they will not reach the housing drive-over bracket at a later step.

- 10 Fill the bottom of the hole with 18 inches of drainage material. Material shall be "select" free draining material with a California Bearing Ration (CBR) of 20 or greater.

NOTE: Water will collect and drain through the bottom of the fixture housing. Verify that water drainage through fixture bottom will not adversely affect hardscape surrounding the fixture, or the hardscape base.

RECESSED HOUSING INSTALLATION

- 11) Lower the fixture housing into the hole, with the three threaded rods located in the flange slots. Add or remove drainage material beneath the housing, until the top edge of the housing is at the desired finished surface level.
- 12) Locate the top of the threaded rods in the appropriate holes of the drive over brackets.
- 13) Place a 2" fender washer and 1/2-13 nut on each of the threaded rods as shown in diagram. Run the washer and nut down until it contacts the housing flange. Tighten the nut snugly.
- 14) Place a 1/2-13 nut on each of the threaded rods, on top and bottom of the drive-over brackets as shown in diagram.
- 15) The threaded rods can be used to level the fixture. Adjust the nuts on top and bottom of the brackets until the fixture is level.
- 16) Run incoming power lines and connect conduit to selected ports in the side-mounted wiring compartment using 3/4" NPT connectors (provided by others). Access the wiring compartment by removing the cover. Twist counter-clockwise to remove.

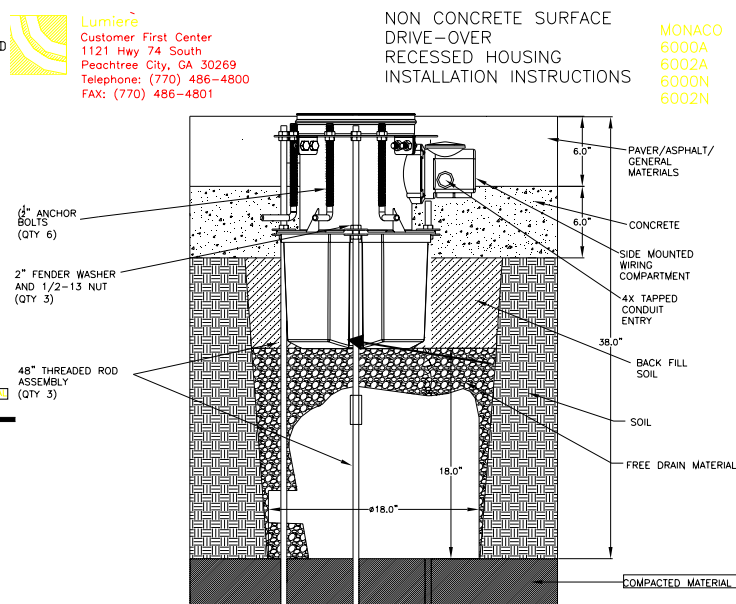
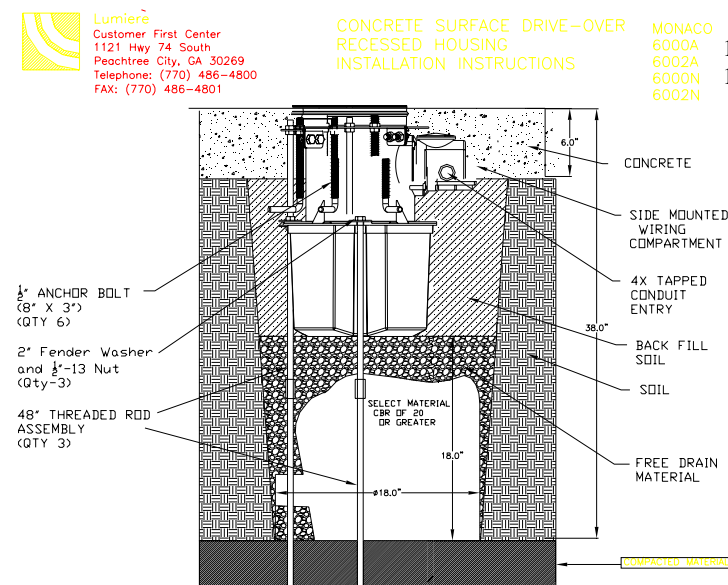
NOTE: Conduit connections must be sealed with waterproof material to prevent water from leaking into the wiring compartment.

NOTE: Leave at least 6" of wire extending from the conduit, for later connection with the lamp module/ballast assembly.

- 17) Backfill the hole with soil as shown on page 5 or page 6.

NOTE: Final surface layer may be concrete or another material such as asphalt, pavers, ect... If final surface is not concrete, concrete must be applied below the final drive over surface as shown in diagram on page 6.

- 18) Pour concrete as shown in diagram on page 5 or page 6.
- 19) Apply top surface layer, as shown on page 6, if other than concrete.



3. Ballast & Lamp Module – Installation & Maintenance

WARNING!

TURN OFF ALL POWER TO FIXTURE BEFORE INITIAL INSTALLATION, MAINTENANCE, RELAMPING, AND SERVICING.

DO NOT OVERTIGHTEN CAPTIVE SCREWS ON OUTER LENS! SET POWER DRIVERS TO LOWEST SETTING. THIS IS IMPORTANT TO AVOID PART DAMAGE.

70 WATT OR BELOW WITH TRL OPTION ARE RECOMMENDED FOR PEDESTRIAN AREAS

FIXTURE TO BE INSTALLED IN ACCORDANCE W/ LOCAL AND NATIONAL CODES

MATERIAL LIST

	<u>QTY</u>
Ballast and Lamp Module Assembly	1
Submersible Wire Nuts (included)	3

INSTALLATION PROCEDURE

NOTE: Housing assembly must be properly installed in ground prior to ballast and lamp module installation. Refer to Recessed Housing Installation Sheet # 9701, 9702, or 9703.

NOTE: If a concrete pour cover is attached to housing, remove and discard cover.

- 1) If side mounted wiring compartment on housing is accessible, remove cover from compartment. (Twist counter-clockwise to remove.)

NOTE: If wiring compartment is not accessible, fixture will need to be wired from inside of recessed housing.

NOTE: Remove any debris in bottom of housing that may interfere with installation of ballast assembly and sealed lamp module.

- 2) Place ballast assembly in bottom of housing with wires facing up.

NOTE: There is no specific orientation for ballast assembly.

- 3) Set sealed lamp module assembly on ground next to housing.
- 4) There is a plastic strain relief attached to free wires coming off ballast assembly. Attach strain relief to housing by removing nut from stud, attaching strain relief, and reattaching nut. See Figure 1.

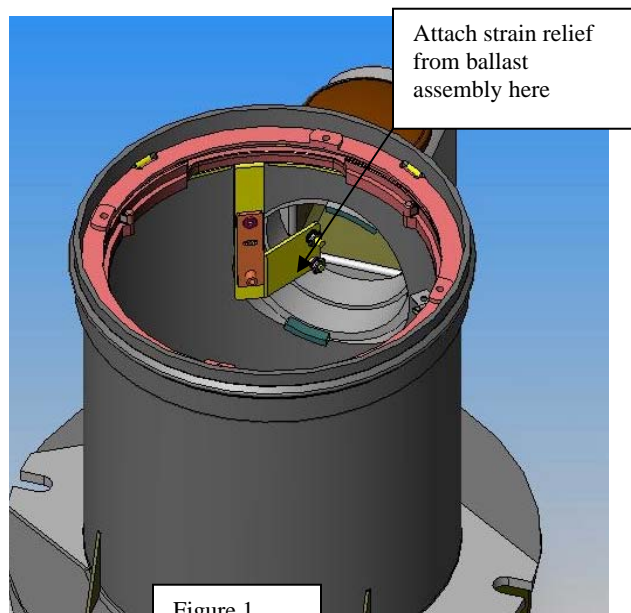


Figure 1

- 5) Route wires through opening in side mounted wiring compartment or out of top of housing.

- 6) Connect three color coded wires from ballast assembly to incoming power wires.

NOTE: Wires must be connected using submersible wire nuts provided.

NOTE: There are two green ground wires, one from Ballast Assembly and one that goes to Lamp Housing. Both must be wire nut attached to incoming power ground.

- 7) Connect wires as follows:

Strip wires from incoming power to 1/2".

Align frayed strands or conductors.

Do not pre-twist wires.

Twist stranded wires slightly.

Insert wires together through sealant into connector.

Hold wires firmly and twist connector onto wires.

NOTE: Do not twist wire nuts too hard.

NOTE: Do not reuse wire nuts.

- 8) Carefully insert wires with wire nuts into side mounted wiring compartment. Replace top cover on wiring compartment.
- 9) Carefully place lamp module into housing. Align the two notches in lamp assembly hanging frame with two pins in housing. See Figure 2.

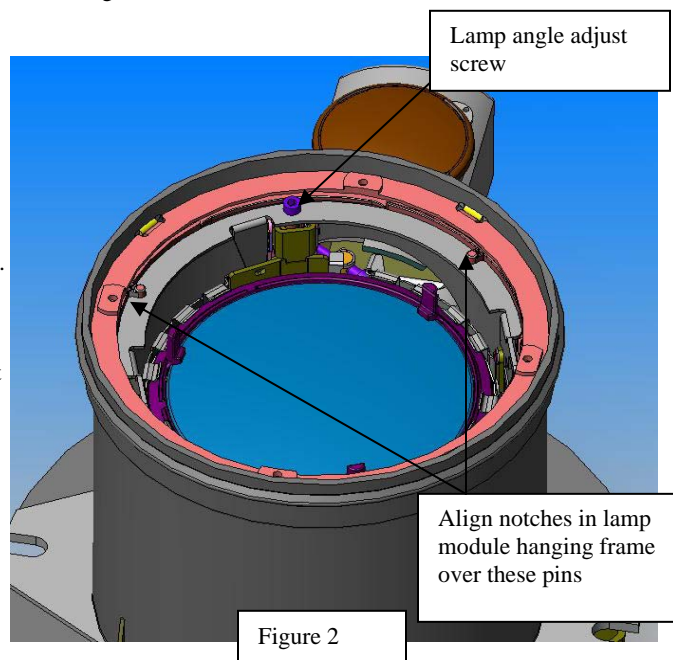
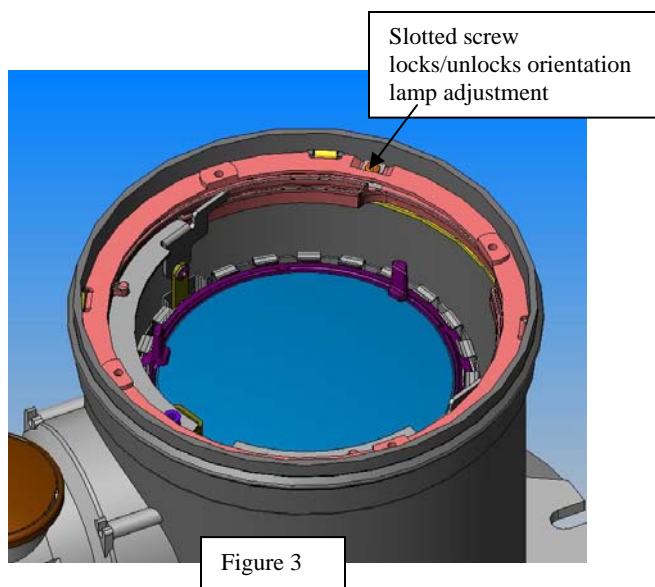


Figure 2

LAMP ANGLE ADJUSTMENT – FOR MODELS 6000A AND 6002A ONLY.

(FOR MODELS 6000N AND 6002N, GO TO STEP 12)

- 10) Adjust angle of lamp by inserting a hex wrench into the adjustment screw, as shown in Figure 2, and turning screw clockwise or counter-clockwise until lamp is at desired angle. Maximum tilt is 15 degrees from vertical.
- 11) After desired angle has been reached, the light direct may be rotated 360 degrees to orient the light. When orientation has been achieved, tighten slotted set screw on lens collar as shown in Figure 3.



INSTALL TRIM RING/LENS ASSEMBLY

- 12) Install trim ring/lens assembly by aligning four threaded holes and attaching four socket head cap screws.

RELAMPING PROCEDURE

WARNING! TURN OFF ALL POWER TO FIXTURE BEFORE, RELAMPING, MAINTENANCE AND SERVICING.

WARNING! RELAMP ONLY WITH SAME WATTAGE AND TYPE OF LAMP ORIGINALLY SUPPLIED WITH FIXTURE. SEE LABEL ON SIDE OF BALLAST BOX FOR CORRECT INFORMATION.

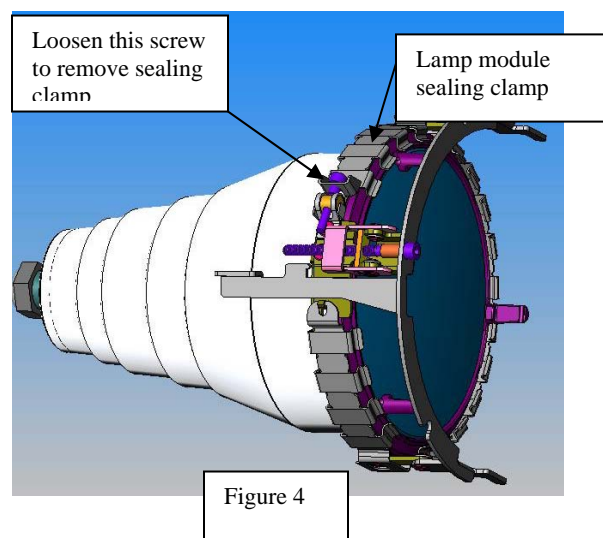
- 13) Loosen trim ring/lens assembly by loosening four socket head cap screws.
- 14) Pry trim ring/lens assembly off housing by inserting a flat head screwdriver in side slots and turning.
- 15) Remove trim ring/lens assembly.
- 16) Lift sealed lamp module from housing assembly.
- 17) Remove lamp module sealing clamp by loosening screw on clamp with a 3/16" Allen wrench. See Figure 4.

NOTE: Screw does not have to be removed

- 18) Remove lamp module sealing clamp by pulling it out and over screw head. Then pull remainder of clamp free of assembly.

CAUTION: Do not bend clamp!

- 19) Remove optical accessory holder from top of lens.
- 20) Remove inner lens with rubber seal.
- 21) Replace lamp.
- 22) Verify that inside of lamp housing is clean and dry before reassembly.
- 23) Verify that inner seal and lens are clean and dry before reassembly.
- 24) Reassemble fixture in reverse order of disassembly.



4. Guard, Louver, & Glare Shield - Installation Instructions

WARNING!

TURN OFF ALL POWER TO FIXTURE BEFORE INITIAL INSTALLATION, MAINTENANCE, RELAMPING, AND SERVICING.

DO NOT OVERTIGHTEN CAPTIVE SCREWS ON OUTER LENS! SET POWER DRIVERS TO LOWEST SETTING. THIS IS IMPORTANT TO AVOID PART DAMAGE.

THE MONACO 6000 AND 6002 FIXTURE IS DESIGNED FOR IN-GROUND INSTALLATION ONLY FOR USE AS AN UPLIGHT. DO NOT INSTALL IN CEILINGS OR IN VERTICAL SURFACES SUCH AS WALLS.

SUITABLE FOR IN-GROUND DIRECT BURIAL, OR FOR INSTALLATION IN POURED CONCRETE, BRICK, OR OTHER NON-COMBUSTIBLE MASONRY MATERIALS ONLY.

FIXTURE MUST NOT COME INTO CONTACT WITH WOOD OR OTHER COMBUSTIBLE MATERIALS OR SURFACES.

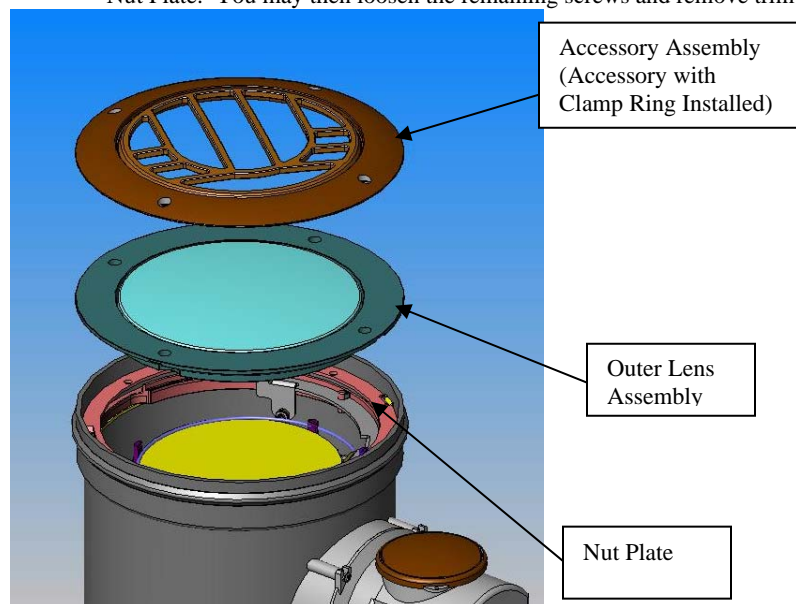
70 WATTS OR BELOW WITH TRL OPTION ARE RECOMMENDED FOR PEDESTRIAN AREAS

FIXTURE TO BE INSTALLED IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES.

<u>MATERIAL LIST</u>	<u>QTY</u>
Installed Monaco 6000 or 6002	1
Guard, Louver, or Glare Shield	1
Clamp Ring	1
Long Captive Screws	4

INSTALLATION INSTRUCTIONS

1. Do not remove Clamp Ring from Guard, Louver, or Glare Shield because these are matched pairs.
2. Remove Outer Lens Assembly from top of fixture.
3. Remove four short captive screws from Outer Lens Assembly.
4. Reposition Outer Lens Assembly on top of fixture.
5. Look through trim ring holes and assure that they are aligned with holes in nut plate. (Note: This alignment is very critical with accessory installation)
6. Place Accessory Assembly (Accessory with Clamp Ring Installed) on top of trim ring and align accessory to provide desired shielding.
7. Align holes of accessory assembly with holes in Outer Lens Assembly.
8. Thread one long captive screw through accessory assembly, through trim ring, and into the nut plate. "DO NOT FULLY TIGHTEN THE SCREW AT THIS POINT"
9. Thread remaining screws through accessory, through Outer Lens Assembly, and into the Nut Plate. "DO NOT FULLY TIGHTEN THE SCREWS AT THIS POINT".
10. After last screw is loosely installed, realign accessory to provide desired shield orientation. Gradually tighten the four screws. DO NOT OVERTIGHTEN CAPTIVE SCREWS ON OUTER LENS! SET POWER DRIVERS TO LOWEST SETTING. THIS IS IMPORTANT TO AVOID PART DAMAGE.
11. When re-lamping, removal of one of the captive screws may make it easier to align the Accessory/Outer Lens Assembly with the Nut Plate. You may then loosen the remaining screws and remove trim ring with the Guard, Louver, or Shield.



5. Filters & Thermal Glass - Installation

WARNING!

70 WATTS OR BELOW WITH TRL OPTION ARE RECOMMENDED FOR PEDESTRIAN AREAS

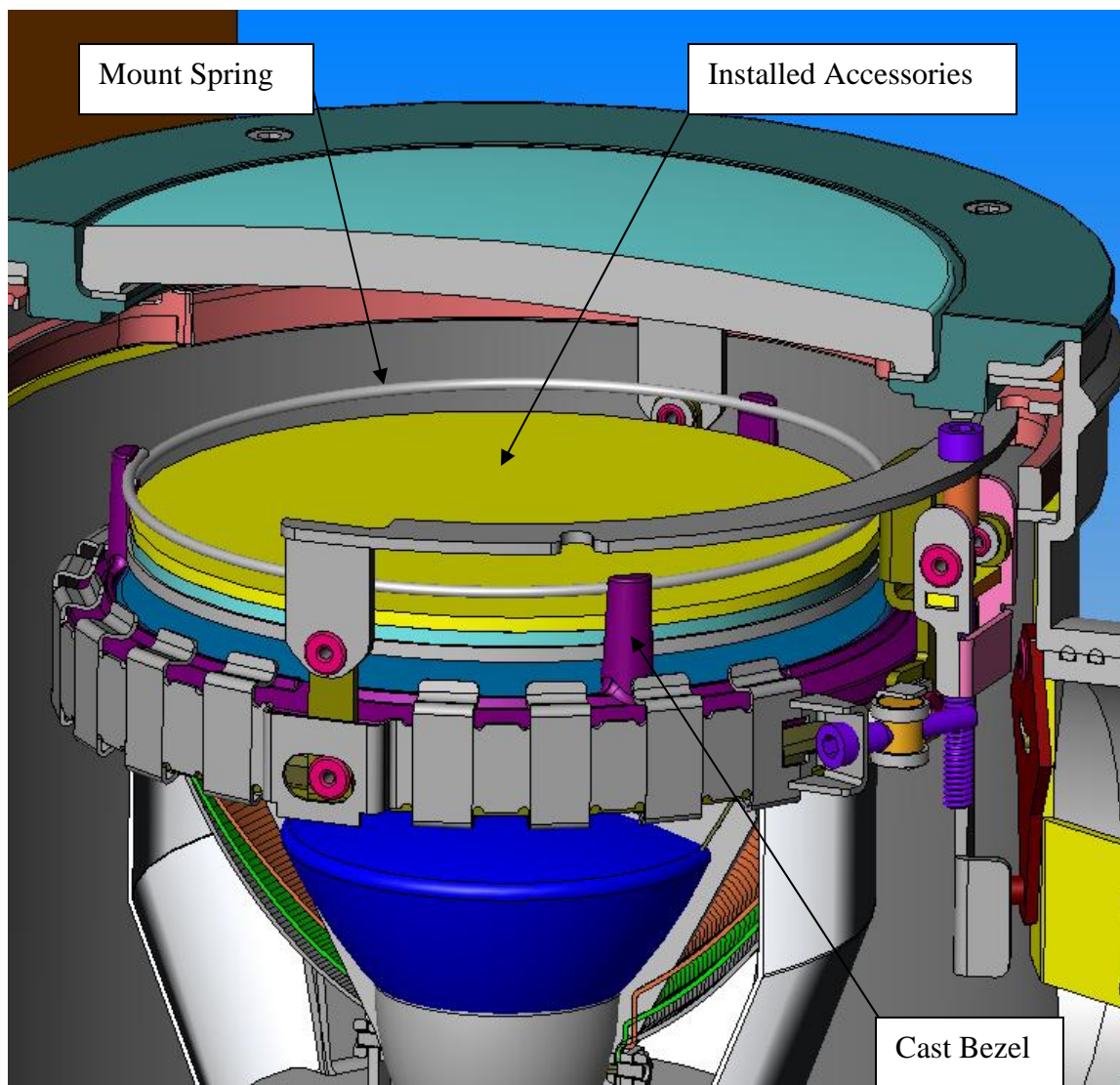
INSTALLATION INSTRUCTIONS:

Up to three accessories may be installed.

The Internal Hex Cell Louver (LVR6), Temperature Reduction Lens (TRL), and Dichroic Filters are installed on top of Cast Bezel on inner module assembly. It is recommended that they are installed in the following order:

Internal Hex Cell Louver (LVR6)	-> Above both the LSL, Dichroic, & TRL
Linear Spread Lens (LSL)	-> Above the Dichroic or TRL
Dichroic Filters	-> Above the TRL
Temp Reduction Lens (TRL)	-> At the lowest position

The Mount Spring is installed in the groove as shown above the accessories. It is not required when LVR6 is installed



6. Ballast & Lamp Module - Replacement Instructions

WARNING!

TURN OFF ALL POWER TO FIXTURE BEFORE REPLACING BALLAST ASSEMBLY.

DO NOT OVERTIGHTEN CAPTIVE SCREWS ON THE TRIM RING! SET POWER DRIVERS TO LOWEST SETTING. THIS IS IMPORTANT TO AVOID DAMAGING PARTS.

MATERIAL LIST

	<u>QTY</u>
Ballast and Lamp Module Replacement Assembly	1
Submersible Wire Nuts (included)	3
Return address label	1

BALLAST AND LAMP MODULE REPLACEMENT PROCEDURE

- 1) Loosen trim ring/lens assembly by loosening four socket head cap screws.
- 2) Pry trim ring/lens assembly off housing by inserting a flat head screwdriver in side slots and turning.
Remove trim ring/lens assembly.
- 4) Lift sealed lamp module from housing.
- 5) Disconnect ballast wires from incoming power by removing wire nut connections in the housing wiring box. (Discard wire nuts. New water-tight water nuts, provided, must be used for reconnection).
- 6) Disconnect ground wire from ballast to incoming power.
- 7) Lift ballast assembly out of the housing.
- 8) Disconnect strain relief from side of in-grade housing and set the ballast to be replaced aside.
- 9) Unpack the new ballast/lamp module assembly and place ballast in the housing with the wires facing up.

NOTE: USE THE SAME BOX TO SEND A FAILED BALLAST BACK TO LUMIERE FOR FAILURE ANALYSIS. ALL RETURNS MUST BE AUTHORIZED BY YOUR FIELD SERVICE REPRESENTATIVE.

- 10) Set sealed lamp module assembly on the ground next to housing.
- 11) There is a plastic strain relief attached to free wires coming off ballast assembly. Attach strain relief to stud of in-grade housing and reattach nut. See Figure 1.

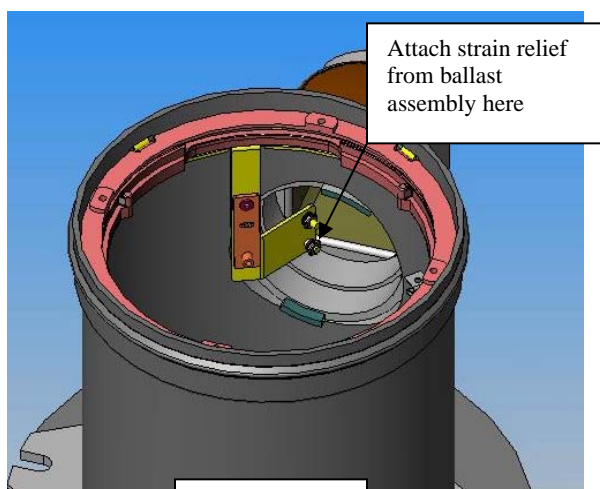


Figure 1

- 12) Route wires through opening in side mounted wiring compartment.
- 13) Connect the three color coded wires from ballast assembly to incoming power wires.

NOTE: WIRES MUST BE CONNECTED USING THE SUBMERSIBLE WATER-TIGHT WIRE NUTS PROVIDED.

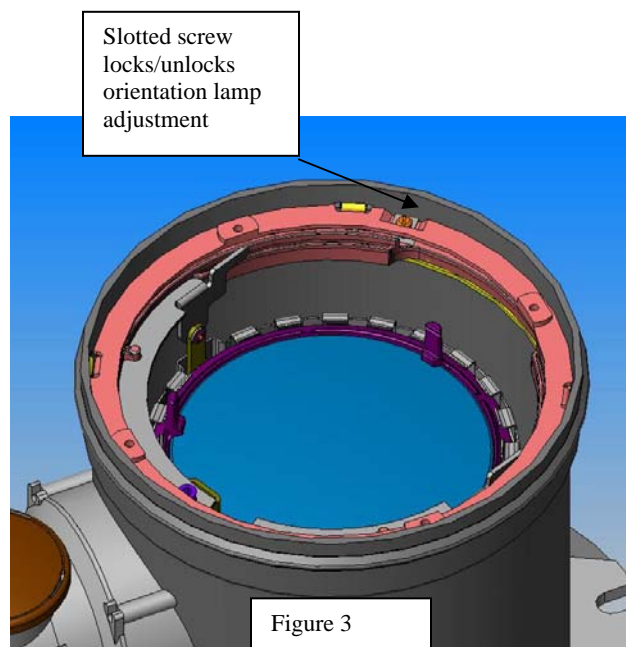
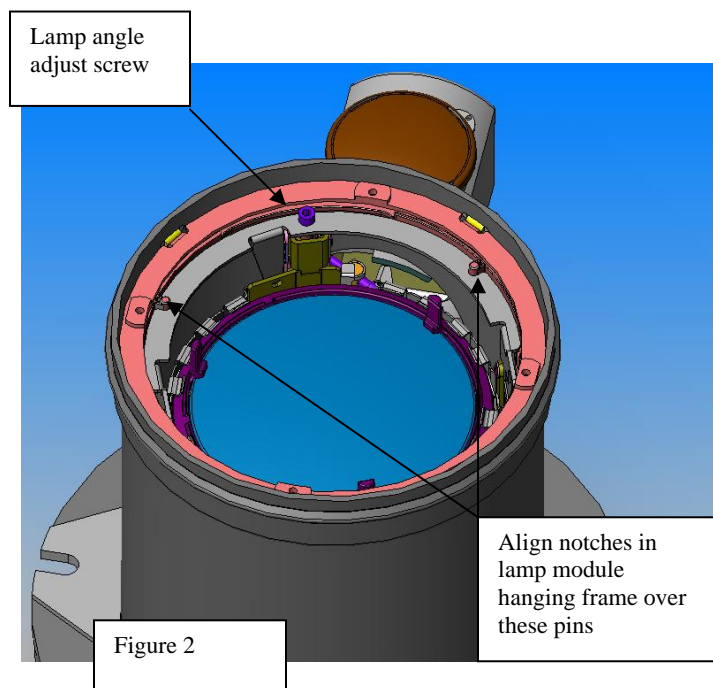
NOTE: THERE ARE TWO GREEN GROUND WIRES, ONE FROM THE BALLAST ASSEMBLY AND ONE ON THE HOUSING, WHICH MUST BE ATTACHED TO THE INCOMING POWER GROUND.

- 14) Connect wires using water-tight wire nuts, as follows:
Strip wires from incoming power to 1/2".
Align frayed strands or conductors.
Twist stranded wires slightly.
Insert wires together through sealant in wire nuts.
Hold wires firmly and twist wire nuts onto wires.

NOTE: Do not twist wire nuts too hard.

NOTE: Do not reuse wire nuts.

- 15) Carefully insert wires with wire nuts into side mounted wiring compartment.
- 16) Carefully place lamp module into housing. Align two notches in lamp module hanging frame with two pins in the housing. See Figure 2.



LAMP ANGLE ADJUSTMENT – FOR MODELS 6000A AND 6002A ONLY.
(FOR MODELS 6000N AND 6002N, GO TO STEP 12)

- 17) Adjust angle of lamp by inserting a hex wrench into the adjustment screw, as shown in Figure 2, and turning screw clockwise or counter-clockwise until lamp is at desired angle. Maximum tilt is 15 degrees from vertical.
- 18) After desired angle has been reached, the light may be rotated 360 degrees to orient the light. When orientation has been achieved, tighten slotted set screw on lens collar as shown in Figure 3.

INSTALL TRIM RING/LENS ASSEMBLY

Install trim ring/lens assembly by aligning the four threaded holes and attaching the four socket head cap screws. **DO NOT OVERTIGHTEN CAPTIVE SCREWS ON OUTER LENS! SET POWER DRIVERS TO LOWEST SETTING. THIS IS IMPORTANT TO AVOID PART DAMAGE.**

RELAMPING PROCEDURE

WARNING! TURN OFF ALL POWER TO FIXTURE BEFORE, RELAMPING, MAINTENANCE AND SERVICING.

WARNING! RELAMP ONLY WITH SAME WATTAGE AND TYPE OF LAMP ORIGINALLY SUPPLIED WITH FIXTURE. SEE LABEL ON SIDE OF BALLAST BOX FOR CORRECT INFORMATION.

WARNING! DO NOT OVERTIGHTEN CAPTIVE SCREWS ON OUTER LENS! SET POWER DRIVERS TO LOWEST SETTING. THIS IS IMPORTANT TO AVOID PART DAMAGE.

- 19) Loosen trim ring/lens assembly by loosening the four socket head cap screws.
- 20) Pry trim ring/lens assembly off housing by inserting a flat head screwdriver in side slots and turning.

7. Ballast Assembly – Replacement Instructions

WARNING!

TURN OFF ALL POWER TO FIXTURE BEFORE REPLACING THE BALLAST ASSEMBLY.

DO NOT OVERTIGHTEN CAPTIVE SCREWS ON OUTER LENS! SET POWER DRIVERS TO LOWEST SETTING. THIS IS IMPORTANT TO AVOID PART DAMAGE.

ORDER BALLAST WITH THE DESIRED WATTAGE AND VOLTAGE AS SPECIFIED ON BALLAST BOX LABEL.

IN THIS PROCEDURE, YOU WILL REMOVE THE OLD BALLAST AND ATTACH A REPLACEMENT.

<u>MATERIAL LIST</u>	<u>QTY</u>
Ballast Replacement Assembly	1
Submersible Wire Nuts	6
Plastic Strain Relief	1
Return address label	1

BALLAST REPLACEMENT PROCEDURE

- 1) Loosen trim ring/lens assembly by loosening the four socket head cap screws.
- 2) Pry trim ring/lens assembly off housing by inserting a flat head screwdriver in side slots and turning.
- 3) Remove trim ring/lens assembly.
- 4) Lift sealed lamp assembly from housing.
- 5) Disconnect ballast wires from incoming power by removing wire nut connections in housing wiring box. (Discard wire nuts. New water-tight water nuts, provided, must be used for reconnection).
- 6) Disconnect ground wire from ballast to incoming power.
- 7) Disconnect ballast wire strain relief from the side of in-ground housing.
- 8) Lift ballast assembly out of housing.
- 9) Cut plastic tie wrap attaching the green, blue, and white wires coming out of the ballast box.
- 10) Cut through black mesh and wires that lead from ballast assembly to lamp assembly, about 2" above the ballast box.
- 11) On lamp assembly, trim black mesh so that it is 1" shorter than the wires inside it.
- 12) Strip green, blue, and white wires on lamp assembly to ½".
- 13) Unpack new ballast kit. (plastic strain relief not shown)



NOTE: USE THE SAME BOX TO SEND THE FAILED BALLAST BACK TO LUMIERE FOR FAILURE ANALYSIS. ALL RETURNS MUST BE AUTHORIZED BY YOUR FIELD SERVICE REPRESENTATIVE.

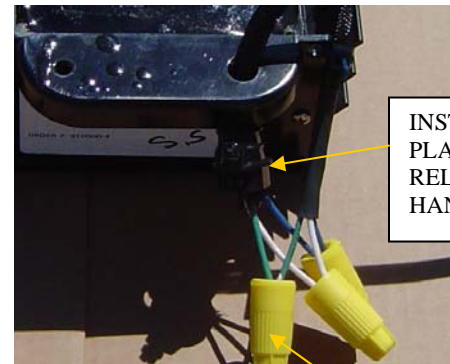
- 14) Insert mesh covered lamp wires downward through handle of potted ballast assembly and slide plastic strain relief over wires and mesh and tighten down on mesh and wire about 2 inches from end.



- 15) Connect the three **SHORT** color coded wires (green, blue, and white) from the new ballast replacement assembly to lamp assembly as follows: Twist stranded wires slightly. Insert wires together into new sealant wire nuts (provided). Hold wires firmly and twist connector onto wires.

NOTE: Do not twist wire nuts too hard

NOTE: Do not reuse wire nuts



USE THREE SEALANT WIRE NUTS TO CONNECT LAMP WIRES TO BALLAST

- 16) Reconnect ballast to incoming power using new sealant wire nuts (provided).
- 17) Reassemble fixture in the reverse order of disassembly. Refer to Instruction Sheet #9704 – Ballast and Lamp Module Installation Instructions.
- 18) Reattach trim ring/lens assembly by aligning four socket head cap screws on trim ring with the four threaded holes on housing, and tighten. DO NOT OVERTIGHTEN CAPTIVE SCREWS ON OUTER LENS! SET POWER DRIVERS TO LOWEST SETTING. THIS IS IMPORTANT TO AVOID PART DAMAGE.