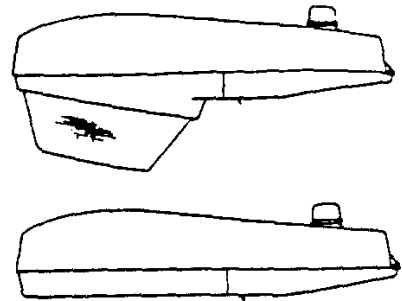


## INSTALLATION INSTRUCTIONS RL - SERIES



**READ THOROUGHLY BEFORE INSTALLING**

### NOTE:

This luminaire is designed for outdoor lighting applications and should not be used in areas of high ambient temperature enclosures or limited ventilation.

### WARNINGS:

Dangerous voltages exist within these units and all precautions usually observed in handling high voltage equipment should be observed when replacing lamps or otherwise servicing luminaires. *Disregarding this warning could result in electrical shock and possible injury to the individual installing or servicing this equipment. Installation and servicing should be done by qualified personnel.*

Read lamp manufacturer warning notice on lamp carton before handling or installing. Do not install a damaged lamp.

Make certain power is off before starting installation or performing any maintenance.

Glass must be protected from surface chips and scratches. Even minor surface damages will reduce the breakage resistance to a fraction of its initial strength.

### I. REMOVAL OF POWER/ACCESS DOOR

- Unit may be supplied with one or both of the power/access door fastening methods listed below:
  - Self-captivating screw: Loosen screw until threads are fully disengaged.
  - Spring-loaded latch: Pull latch forward until door swings free.

**Note:** Always keep support under power/access door to ensure against damage to fixture or personal injury.

- For power door removal, rotate the door to a vertical position and disengage the polarized disconnect plug connecting the upper housing wiring to the power door wiring center.
- Rotate power/access door to approximately 45 degrees from vertical to the pole end of fixture. Door will now easily lift from hinge seats.

### II. INSERTION OF MAST ARM

- This luminaire will accommodate mounting on either a 1 1/4" or 2" mast arm. Mounting is as follows:
  - 1 1/4" mast arm: Remove the four 3/8" bolts securing the fitter clamps. Turn fitter clamps over and reinstall four 3/8" bolts. Insert mast arm through birdshield and fitter clamps until arm hits stop on housing.
  - 2" mast arm: Detach the knockout in the birdshield to provide a larger opening. Insert mast arm through birdshield and fitter clamps until arm hits stop on housing.

### III. LEVELING

The luminaire is supplied with four leveling pads on top of the unit for plus or minus 5 degrees horizontal adjustment with respect to the mast arm. Adjustments are made as follows:

- Hold the luminaire approximately level and tighten the four 3/8" slipfitter bolts.
  - If more upward tilt is required, loosen the two forward bolts slightly and tighten the two rear bolts.
  - If more downward tilt is required, loosen the two rear bolts slightly and tighten the two forward bolts.
- After leveling, tighten all four bolts to 18-20 foot-pounds.

### IV. WIRING

**Note:** Unless otherwise specified, all multi-voltage ballasts are factory wired as follows:

120/240V - Wired for 240 Volt  
240/480V - Wired for 480 Volt  
Quad Tap - Wired for 277 Volt

- Attach service leads to the terminal block as shown on the wiring diagram. Luminaire voltage is shown on the luminaire nameplate. Terminal block will accept service leads ranging in size from AWG No. 14 through No. 6. Service leads should have 75°C minimum insulation.



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ORIGINAL DRAWING

## V. PHOTOELECTRIC CONTROL (Optional)

Note: 240 volt unit photocontrol receptacle is wired for:

- A. 120 volt photocontrol when PCR option "3" appears in catalog number.
- B. 240 volt photocontrol when PCR option "A" appears in catalog number.

If photoelectric control is used, the photocontrol receptacle must be oriented toward the true north direction.

This may be done as follows:

1. Insert a screwdriver into slot on top of photocontrol receptacle and rotate until arrow points to north.
2. Install photoelectric control by inserting into photocontrol receptacle and rotating clockwise to lock into position.

## VI. INSTALL POWER/ACCESS DOOR

1. Install power/access door by reversing procedures in Step I. REMOVAL OF POWER/ACCESS DOOR.

## VII. DISTRIBUTION TYPE ADJUSTMENT

Distribution type is factory set per customer order. If a change is necessary, distribution type may be readjusted by following the steps listed below:

1. Disengage lens door latch on front of housing and carefully rotate lens door assembly to a vertical position.
2. The socket may be adjusted vertically by removing the screw securing the sliding socket bracket to the stationary socket bracket. An alternate set of holes is provided. Change socket mounting hole and reassemble socket bracket.
3. The socket may be adjusted horizontally by loosening the screw securing the sliding socket bracket to the stationary socket bracket. Slide socket to the position desired and retighten screw.
4. Below is a list of various socket positions for different lamp types and distributions:

Lamp Type	Distribution	Socket Position	
		Vert.	Horz.
HPS	MCII	A	2.00
HPS	MCIII	A	1.00
HPS	MSI	B	0.50
HPS	MSII	B	1.50
HPS	MSIII	B	2.00
HPS	MNII	A	1.25
HPS	MNIII	A	2.00
HPS	MNIV	A	3.00
* MV	MSII	A	0.50
* MV	MSIII	A	1.00
* MV	MNII	A	0.50
* MV	MNIII	A	1.00
** MV	SNII	A	0.50
** MV	SNIII	A	1.00
MH	MNII	A	0.50
MH	MNIII	A	1.00

\*MUST BE A CLEAR LAMP

\*\*MUST BE A COATED LAMP

5. Install proper lamp.
6. Close lens door by reversing procedures in Step 1.

## VIII. MAINTENANCE

### 1. STARTER:

The starter on High Pressure Sodium units may be easily replaced by pulling the starter enclosure out of the wiring center and pushing in a new starter. Make sure the new starter has the same part number as the existing starter.

### 2. CLEANING OF OPTICAL ASSEMBLY:

Use a neutral (pH approximately 6 to 8), non-abrasive cleaning solution which contains no chlorinated or aromatic hydrocarbons. Wash optical assembly thoroughly using a soft cloth or brush, rinse in clean water, and wipe dry.

**NOTE:** Quality and product improvement is a continuous program at Hubbell Lighting Division. Data in this bulletin is subject to change without notice.



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