INSTALLATION INSTRUCTIONS

TILT OPTIONS

FLAT

15° TILT

30° TILT

SAIL ASSEMBLY

ELBOW (KNUCKLE)

STRUT

TOP PLATE

DIRECTION OF TILT

NOTCH

(2) 3/8-16 X 1/2 SETSCREW ** APPLY THREADLOCKER (LOCTITE) PRIOR TO INSTALLATION **

(4) SPLIT LOCK WASHER

(4) 1/4-20 X 1-1/4" CAP SCREW ** APPLY THREADLOCKER (LOCTITE) PRIOR TO INSTALLATION **

NOTE: APPLY "LOCTITE" AND TIGHTEN 1/4-20 SCREWS 75 IN-LB AND 3/8-16 SCREWS 165 IN-LB TORQUE. FAILURE TO DO SO COULD RESULT IN DAMAGE OR INJURY
NOTE: APPLY "LOCTITE" AND TIGHTEN 1/4-20 SCREWS 75 IN-LB AND 3/8-16 SCREWS 165 IN-LB TORQUE. FAILURE TO DO SO COULD RESULT IN DAMAGE OR INJURY
INSTALLATION INSTRUCTIONS

TRIMETRIC VIEW
FIXTURE FULLY ASSEMBLED
DRAWING SHOWN INDA-RD

LAMP (REF) BY OTHERS

FIXTURE ASS’Y.

ARMS ASS’Y.

WIRE CONNECTIONS

SAIL ARM ASS’Y.

BALLAST ASS’Y. (REF)

INCOMPLETE SUPPLY

INSTALLATION INSTRUCTIONS

ARM INSTALLATION:
1. TURN POWER OFF.
2. SECURE BACK PLATE TO MOUNTING SURFACE.
3. Direct all wires from the arm assy and incoming wires downward prior to mounting arm assy.
4. INSTALL ARM ASS’Y OVER BACK PLATE AND SECURE WITH (4) CAP SCREWS (ITEM 1B) AS SHOWN.
5. Make wire connections from arm assy to incoming supply. NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
6. PUSH WIRE LEADS AND CONNECTIONS BACK INTO SPLICE COMPARTMENT AND SECURE SPLICE COVER IN PLACE WITH CAP SCREW (ITEM 1A).

SAIL ARM ASS’Y INSTALLATION:
7. SLIP SAIL ARM ASSY OVER ARM ASSY. ROTATE TO THE DESIRED POSITION AND SECURE WITH (6) SET SCREWS (ITEM 2B & 2C). NOTE: FOR TILT ADJUSTMENT SEE INSERT.
8. LOOSEN (4) SET SCREWS (ITEM 2A) ON TOP TO ACCESS BALLAST COMPARTMENT.
9. ATTACH BALLAST ASS’Y TO FIXTURE ASS’Y. (SEE INSERT) WITH (2) 1/4-20 PHILPS SCREWS (ITEM 3).
10. MAKE WIRE CONNECTIONS FROM FIXTURE ASS’Y TO ARM ASSY AND SECURE FIXTURE WITH (4) SET SCREWS (ITEM 2A).
11. IF LAMP ALREADY INSTALLED, RESTORE POWER AND CHECK FOR OPERATION.
12. INSTALLATION COMPLETE.

RELAMPING:
1. TURN OFF POWER.
2. LOOSEN (4) SCREWS (ITEM 4) FROM BACK OF FIXTURE HEAD.
3. REMOVE LENS FRAME TO INSTALL LAMP.
4. REPLACE LENS FRAME AND SECURE (4) SCREWS.
   (NOTE: TORQUE SCREWS IN CRIN CROSS PATTERN)
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.

BALLAST SERVICING:
1. TURN OFF POWER.
2. LOOSEN (4) SET SCREWS (ITEM 2A) ON TOP TO ACCESS BALLAST COMPARTMENT.
3. DISCONNECT WIRES AND REMOVE FIXTURE ASS’Y FOR BALLAST SERVICING.
4. RETURN FIXTURE ASS’Y TO ORIGINAL POSITION AND SECURE WITH SCREWS.
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.

1/4-20 x 3/4" SOCKET HEAD CAP SCREW
P/N A84185

1/4-20 x 1/2" S/S SET SCREW
P/N A84085

1/4-20 x 3/8" PHILPS PHMS
P/N A84113

1/4-20 x 3/4" SOCKET HEAD CAP SCREW
P/N A84185

1/4-20 x 1/2" S/S SET SCREW
P/N A84085

1/4-20 x 3/8" PHILPS PHMS
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P/N A84185

1/4-20 x 1/2" S/S SET SCREW
P/N A84085

1/4-20 x 3/8" PHILPS PHMS
P/N A84113

A96289

installation instructions

1. TURN POWER OFF.
2. SECURE BACK PLATE TO MOUNTING SURFACE.
3. SILICONE ALL AROUND BACK PLATE WHERE IT MEETS THE MOUNTING SURFACE.
4. DIRECT ALL WIRES FROM THE ARM ASSY AND INCOMING WIRES DOWNWARD PRIOR TO MOUNTING ARM ASSY.
5. MAKE WIRE CONNECTIONS FROM ARM ASSY TO INCOMING SUPPLY. NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
6. PUSH WIRE LEADS AND CONNECTIONS BACK INTO SPLICE COMPARTMENT AND SECURE SPLICE COVER IN PLACE WITH CAP SCREW (ITEM 1A).

7. SLIP SAIL ARM ASSY OVER ARM ASSY. ROTATE TO THE DESIRED POSITION AND SECURE WITH (6) SET SCREWS (ITEM 2B & 2C). NOTE: FOR TILT ADJUSTMENT SEE INSERT.
8. LOOSEN (4) SET SCREWS (ITEM 2A) ON TOP TO ACCESS BALLAST COMPARTMENT.
9. ATTACH BALLAST ASS’Y TO FIXTURE ASS’Y. (SEE INSERT) WITH (2) 1/4-20 PHILPS SCREWS (ITEM 3).
10. MAKE WIRE CONNECTIONS FROM FIXTURE ASS’Y TO ARM ASSY AND SECURE FIXTURE WITH (4) SET SCREWS (ITEM 2A).
11. IF LAMP ALREADY INSTALLED, RESTORE POWER AND CHECK FOR OPERATION.
12. INSTALLATION COMPLETE.

1. TURN OFF POWER.
2. LOOSEN (4) SCREWS (ITEM 4) FROM BACK OF FIXTURE HEAD.
3. REMOVE LENS FRAME TO INSTALL LAMP.
4. REPLACE LENS FRAME AND SECURE (4) SCREWS.
   (NOTE: TORQUE SCREWS IN CRIN CROSS PATTERN)
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.

1. TURN OFF POWER.
2. LOOSEN (4) SET SCREWS (ITEM 2A) ON TOP TO ACCESS BALLAST COMPARTMENT.
3. DISCONNECT WIRES AND REMOVE FIXTURE ASS’Y FOR BALLAST SERVICING.
4. RETURN FIXTURE ASS’Y TO ORIGINAL POSITION AND SECURE WITH SCREWS.
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.

1. TURN OFF POWER.
2. LOOSEN (4) SET SCREWS (ITEM 2A) ON TOP TO ACCESS BALLAST COMPARTMENT.
3. DISCONNECT WIRES AND REMOVE FIXTURE ASS’Y FOR BALLAST SERVICING.
4. RETURN FIXTURE ASS’Y TO ORIGINAL POSITION AND SECURE WITH SCREWS.
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.
**INSTALLATION INSTRUCTIONS**

**FIXTURE & SAIL ARM ASS’Y INSTALLATION:**

1. **TURN OFF POWER.**
2. SLIP SAIL ARM ASS’Y OVER TOP OF POLE. ROTATE TO THE DESIRE POSITION AND SECURE WITH (6) SET SCREWS (ITEM 1B & 1C). **NOTE:** FOR TILT ADJUSTMENT SEE INSERT.
3. LOOSEN (4) SET SCREWS (ITEM 1A) ON TOP TO ACCESS BALLAST COMPARTMENT.
4. ATTACH BALLAST ASS’Y TO FIXTURE ASS’Y (SEE INSERT) WITH (2) 1/4-20 PHILPS SCREWS (ITEM 2).
5. MAKE WIRE CONNECTIONS FROM FIXTURE ASS’Y TO INCOMING SUPPLY. **NOTE:** ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
6. ATTACH FIXTURE ASS’Y TO SAIL ARM ASS’Y AND SECURE IN PLACE WITH (4) SET SCREWS (ITEM 1A) AS SHOWN.
7. IF LAMP ALREADY INSTALLED, RESTORE POWER AND CHECK FOR OPERATION.
8. INSTALLATION COMPLETE.

**RELAMPING:**

1. **TURN OFF POWER.**
2. LOOSEN (4) SCREWS (ITEM 3) FROM BACK OF FIXTURE HEAD.
3. REMOVE LENS FRAME TO INSTALL LAMP.
4. REPLACE LENS FRAME AND SECURE (4) SCREWS. **(NOTE: TORQUE SCREWS IN CRISSCROSS PATTERN)**
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.

**BALLAST SERVICING:**

1. **TURN OFF POWER.**
2. LOOSEN (4) SET SCREWS (ITEM 1A) ON TOP TO ACCESS BALLAST COMPARTMENT.
3. DISCONNECT WIRES AND REMOVE FIXTURE ASS’Y FOR BALLAST SERVICING.
4. RETURN FIXTURE ASS’Y TO ORIGINAL POSITION AND SECURE WITH SCREWS.
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.

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**1**
1/4-20 x 1/2" S/S SET SCREW
P/N A84085

**2**
1/4-20 x 3/8" PHLPS PHMS
P/N A84113

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16555 East Gale Avenue
City of Industry, CA  91745
(626)968-5666
INSTALLATION INSTRUCTIONS

ARM INSTALLATION:
1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM ARM ASS’Y TO INCOMING SUPPLY. **NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.**
3. SLIP ARM ASS’Y OVER TOP OF POLE. ROTATE TO THE DESIRE POSITION AND SECURE WITH (6) SET SCREWS (ITEM 2).

SAIL ARM ASS’Y INSTALLATION:
4. SLIP SAIL ARM ASS’Y OVER ARM ASS’Y. ROTATE TO THE DESIRE POSITION AND SECURE WITH (6) SET SCREWS (ITEM 1B & 1C). **NOTE: FOR TILT ADJUSTMENT SEE INSERT.**
5. LOOSEN (4) SET SCREWS (ITEM 1A) ON TOP TO ACCESS BALLAST COMPARTMENT.
6. ATTACH BALLAST ASS’Y TO FIXTURE ASS’Y (SEE INSERT) WITH (2) 1/4-20 PHILPS SCREWS (ITEM 3).
7. MAKE WIRE CONNECTIONS FROM FIXTURE ASS’Y TO ARM ASS’Y AND SECURE FIXTURE WITH (4) SET SCREWS (ITEM 1A).
8. IF LAMP ALREADY INSTALLED, RESTORE POWER AND CHECK FOR OPERATION.
9. INSTALLATION COMPLETE.

NOTE: FOR THE PMAT OPTION REPEAT THE ABOVE STEPS 4-9 FOR THE OTHER SIDE.

RELMING:
1. TURN OFF POWER.
2. LOOSEN (4) SCREWS (ITEM 4) FROM BACK OF FIXTURE HEAD.
3. REMOVE LENS FRAME TO INSTALL LAMP.
4. REPLACE LENS FRAME AND SECURE (4) SCREWS. **(NOTE: TORQUE SCREWS IN CRIS Cross PATTERN)**
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.

BALLAST SERVICING:
1. TURN OFF POWER.
2. LOOSEN (4) SET SCREWS (ITEM 1A) ON TOP TO ACCESS BALLAST COMPARTMENT.
3. DISCONNECT WIRES AND REMOVE FIXTURE ASS’Y FOR BALLAST SERVICING.
4. RETURN FIXTURE ASS’Y TO ORIGINAL POSITION AND SECURE WITH SCREWS.
5. RESTORE POWER AND CHECK FOR OPERATION.
6. INSTALLATION COMPLETE.

NOTE: FOR THE PMAS OPTION SEE INSTALLATION INSTRUCTIONS A96259 OR A96260 FOR REFERENCE
INSTALLATION INSTRUCTIONS

WMA ARM INSTALLATION:
1. TURN POWER OFF.
2. SECURE BACK PLATE TO MOUNTING SURFACE.
   (HARDWARE BY OTHERS). NOTE: NOT FOR J-BOX MOUNTING!
3. SILICONE ALL AROUND BACK PLATE WHERE IT MEETS THE
   MOUNTING SURFACE.
4. DIRECT ALL WIRES FROM THE ARM ASS'Y AND INCOMING
   WIRES DOWNWARD PRIOR TO MOUNTING ARM ASS'Y. INSTALL
   ARM ASS'Y OVER BACK PLATE AND SECURE WITH (4) CAP
   SCREWS (ITEM 1B) AS SHOWN.
5. MAKE WIRE CONNECTIONS FROM ARM ASS'Y TO INCOMING
   SUPPLY. NOTE: ASSEMBLY MUST BE GROUNDED TO THE
   INCOMING EQUIPMENT GROUND SUPPLY.
6. PUSH WIRE LEADS AND CONNECTIONS BACK INTO SPLICE
   COMPARTMENT AND SECURE SPLICE COVER IN PLACE WITH
   CAP SCREW (ITEM 1A).

FIXTURE INSTALLATION:
1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS AND SLIP FIXTURE ASS'Y OVER ARM
   ASS'Y.
3. ROTATE FIXTURE TO DESIRED ORIENTATION. SECURELY
   TIGHTEN (6) FITTER S/S SET SCREWS (ITEM 2).
4. TURN ON POWER AND CHECK FOR OPERATION.
5. INSTALLATION COMPLETE.

REPLACING:
1. TURN OFF POWER.
2. LOOSEN (3) BEZEL S/S SET SCREWS (ITEM 3) AND REMOVE
   BEZEL FROM FITTER.
3. INSTALL LAMP (BY OTHERS).
4. REPLACE BEZEL ONTO FITTER AND SECURE (3) BEZEL S/S SET
   SCREWS.
5. INSTALLATION COMPLETE.

BATTERY SERVICING:
1. TURN OFF POWER.
2. LOOSEN (3) BEZEL S/S SET SCREWS (ITEM 3) AND REMOVE
   BEZEL FROM FITTER.
3. REMOVE LAMP, LIFT REFLECTOR OUT OF FITTER AND SET ASIDE.
4. REMOVE (2) 1/4-20 PHILIPS SCREWS INSIDE FITTER, DISCONNECT
   WIRES AND LIFT BALLAST ASS'Y OUT OF FITTER.
5. SERVICE BALLAST.
6. RETURN BALLAST ASS'Y TO ORIGINAL POSITION. RECONNECT
   WIRES AND TIGHTEN SECURELY WITH (2) 1/4-20 PHILIPS
   SCREWS. REINSTALL REFLECTOR & LAMP.
7. RETURN BEZEL TO ORIGINAL POSITION, SECURELY TIGHTEN (3)
   FITTER S/S SET SCREWS.
8. INSTALLATION COMPLETE.

1. TURN OFF POWER.
2. SECURE BACK PLATE TO MOUNTING SURFACE.
   (HARDWARE BY OTHERS). NOTE:  NOT FOR J-BOX MOUNTING!
3. SILICONE ALL AROUND BACK PLATE WHERE IT MEETS THE
   MOUNTING SURFACE.
4. DIRECT ALL WIRES FROM THE ARM ASS'Y AND INCOMING
   WIRES DOWNWARD PRIOR TO MOUNTING ARM ASS'Y. INSTALL
   ARM ASS'Y OVER BACK PLATE AND SECURE WITH (4) CAP
   SCREWS (ITEM 1B) AS SHOWN.
5. MAKE WIRE CONNECTIONS FROM ARM ASS'Y TO INCOMING
   SUPPLY. NOTE: ASSEMBLY MUST BE GROUNDED TO THE
   INCOMING EQUIPMENT GROUND SUPPLY.
6. PUSH WIRE LEADS AND CONNECTIONS BACK INTO SPLICE
   COMPARTMENT AND SECURE SPLICE COVER IN PLACE WITH
   CAP SCREW (ITEM 1A).

1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS AND SLIP FIXTURE ASS'Y OVER ARM
   ASS'Y.
3. ROTATE FIXTURE TO DESIRED ORIENTATION. SECURELY
   TIGHTEN (6) FITTER S/S SET SCREWS (ITEM 2).
4. TURN ON POWER AND CHECK FOR OPERATION.
5. INSTALLATION COMPLETE.

1. TURN OFF POWER.
2. LOOSEN (3) BEZEL S/S SET SCREWS (ITEM 3) AND REMOVE
   BEZEL FROM FITTER.
3. INSTALL LAMP (BY OTHERS).
4. REPLACE BEZEL ONTO FITTER AND SECURE (3) BEZEL S/S SET
   SCREWS.
5. INSTALLATION COMPLETE.

1. TURN OFF POWER.
2. LOOSEN (3) BEZEL S/S SET SCREWS (ITEM 3) AND REMOVE
   BEZEL FROM FITTER.
3. REMOVE LAMP, LIFT REFLECTOR OUT OF FITTER AND SET ASIDE.
4. REMOVE (2) 1/4-20 PHILIPS SCREWS INSIDE FITTER, DISCONNECT
   WIRES AND LIFT BALLAST ASS'Y OUT OF FITTER.
5. SERVICE BALLAST.
6. RETURN BALLAST ASS'Y TO ORIGINAL POSITION. RECONNECT
   WIRES AND TIGHTEN SECURELY WITH (2) 1/4-20 PHILIPS
   SCREWS. REINSTALL REFLECTOR & LAMP.
7. RETURN BEZEL TO ORIGINAL POSITION, SECURELY TIGHTEN (3)
   FITTER S/S SET SCREWS.
8. INSTALLATION COMPLETE.
PMAS/PMAT ARM INSTALLATION:
1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS FROM ARM ASS'Y TO INCOMING SUPPLY. NOTE: ASSEMBLY MUST BE GROUNDED TO THE INCOMING EQUIPMENT GROUND SUPPLY.
3. SLIP ARM ASS'Y OVER TOP OF POLE. ROTATE TO THE DESIRE POSITION AND SECURE WITH (6) S/S SET SCREWS (ITEM 1).

FIXTURE INSTALLATION:
1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS AND SLIP FIXTURE ASS'Y OVER ARM ASS'Y.
3. ROTATE FIXTURE TO DESIRED ORIENTATION. SECURELY TIGHTEN (6) FITTER S/S SET SCREWS (ITEM 2).
4. TURN ON POWER AND CHECK FOR OPERATION.
5. INSTALLATION COMPLETE.

RELAMPING:
1. TURN OFF POWER.
2. LOOSEN (3) BEZEL S/S SET SCREWS (ITEM 3) AND REMOVE BEZEL FROM FITTER.
3. INSTALL LAMP (BY OTHERS).
4. REPLACE BEZEL ONTO FITTER AND SECURE (3) BEZEL S/S SET SCREWS.
5. INSTALLATION COMPLETE.

BALLAST SERVICING:
1. TURN OFF POWER.
2. LOOSEN (3) BEZEL S/S SET SCREWS (ITEM 3) AND REMOVE BEZEL FROM FITTER.
3. REMOVE LAMP, LIFT REFLECTOR OUT OF FITTER AND SET ASIDE.
4. REMOVE (2) 1/4-20 PHILIPS SCREWS INSIDE FITTER, DISCONNECT WIRES AND LIFT BALLAST ASS'Y OUT OF FITTER.
5. SERVICE BALLAST.
6. RETURN BALLAST ASS'Y TO ORIGINAL POSITION RECONNECT WIRES AND TIGHTEN SECURELY WITH (2) 1/4-20 PHILIPS SCREWS. REINSTALL REFLECTOR AND LAMP.
7. RETURN BEZEL TO ORIGINAL POSITION, SECURELY TIGHTEN (3) FITTER S/S SET SCREWS.
8. INSTALLATION COMPLETE.
INSTALLATION INSTRUCTIONS

TILT OPTIONS

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<tr>
<th>FLAT</th>
<th>15° TILT</th>
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<tr>
<td>15° TILT</td>
<td>30° TILT</td>
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DRAWING SHOWN
INDF-RD FINAL ASSEMBLY (REFERENCE)

NOTE: APPLY "LOCTITE" AND TIGHTEN 1/4-20 SCREWS 75 IN-LB AND 3/8-16 SCREWS 165 IN-LB TORQUE. FAILURE TO DO SO COULD RESULT IN DAMAGE OR INJURY.
INSTALLATION INSTRUCTIONS

ROUND AND SQUARE SAIL. SEE INSTALLATION INSTRUCTIONS A96259 OR A96260 FOR REFERENCE.

INSTALLATION:
1. TURN OFF POWER.
2. MAKE WIRE CONNECTIONS AND SLIP FIXTURE ASS’Y OVER 5” O.D. POLE.
3. ROTATE FIXTURE TO DESIRED ORIENTATION. SECURELY TIGHTEN (6) S/S FITTER SET SCREWS (ITEM 1).
4. TURN ON POWER AND CHECK FOR OPERATION.
5. INSTALLATION COMPLETE.

REPLACING:
1. TURN OFF POWER.
2. LOOSEN (3) BEZEL S/S SET SCREWS (ITEM 2) AND REMOVE BEZEL FROM FITTER.
3. INSTALL LAMP (BY OTHERS).
4. REPLACE BEZEL ONTO FITTER AND SECURE (3) BEZEL S/S SET SCREWS.
5. INSTALLATION COMPLETE.

BALLAST SERVICING:
1. TURN OFF POWER.
2. LOOSEN (3) BEZEL S/S SET SCREWS (ITEM 2) AND REMOVE BEZEL FROM FITTER.
3. REMOVE LAMP, LIFT REFLECTOR OUT OF FITTER AND SET ASIDE.
4. REMOVE (2) 1/4-20 PHILIPS SCREWS INSIDE FITTER, DISCONNECT WIRES AND LIFT BALLAST ASS’Y OUT OF FITTER.
5. SERVICE BALLAST.
6. RETURN BALLAST ASS’Y TO ORIGINAL POSITION RECONNECT WIRES AND TIGHTEN SECURELY WITH (2) 1/4-20 PHILIPS SCREWS. REINSTALL REFLECTOR & LAMP.
7. RETURN BEZEL TO ORIGINAL POSITION, SECURELY TIGHTEN (3) FITTER SET SCREWS.
8. INSTALLATION COMPLETE.

TRIMETRIC VIEW
FIXTURE FULLY ASSEMBLED DRAWING SHOWN INDF-RD