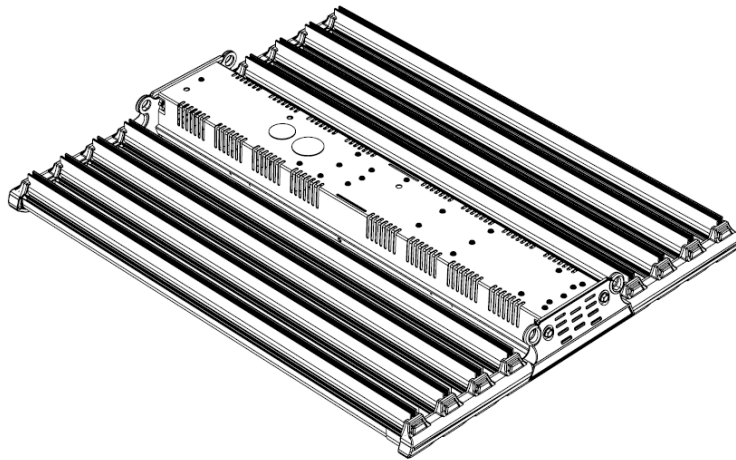




**IMPORTANT:** READ ALL INSTRUCTIONS THOROUGHLY AND CAREFULLY PRIOR TO INSTALLATION OF CH2 SERIES FIXTURES AND RETAIN FOR FUTURE REFERENCE

*The CH2 Series of commercial and industrial LED fixtures is designed to provide superior optical performance, quality, and versatility for low and high bay applications. The CH2 Series is designed for use in 120/277V and 347/480V, 50/60Hz protected (max 20A) circuits. Size line voltage service wire as required per the National Electrical Code (NEC).*

These instructions apply to the following part numbers:  
CH20S-A1-xxx-xxx-xx-xx-xx-xx-10V  
CH20S - Min: -40°C (-40°F) to Max 45°C (113°F)



#### **GENERAL NOTES:**

1. MAKE SURE ALL WIRE AND CONNECTORS ARE UL-LISTED. IF THE ELECTRICAL SYSTEM CONTAINS NO GROUNDING WIRE, CONSULT WITH A QUALIFIED ELECTRICIAN BEFORE PROCEEDING WITH THE INSTALLATION.
2. DO NOT MOUNT FIXTURE DIRECTLY TO ANY SURFACE. DOING SO WILL INHIBIT COOLING AND MAY VOID THE WARRANTY. USING MBR BRACKET OR EMB BOX REQUIRES A MINIMUM OF 4" CEILING CLEARANCE. INCREASE DISTANCE FROM CEILING AT HIGH AMBIENT TEMPS.
3. SUSPENSION CABLE, CHAIN OR CEILING JUNCTION BOX PROVIDED BY CONTRACTOR SHALL BE RATED TO SUPPORT WEIGHT OF FIXTURE(S) – INCLUDING ALL ACCESSORIES AND OPTIONS. AIRCRAFT SUSPENSION CABLE MAY BE ORDERED SEPARATELY FROM LINMORE LED OR OTHERWISE PROVIDE BY CONTRACTOR.

#### **ITEMS NOT INCLUDED**

**(BUT REQUIRED FOR INSTALLATION):**

#### **PERSONAL PROTECTIVE EQUIPMENT**

- SCREWDRIVER
- PLIERS
- SUPPLY CONDUCTORS (BUILDING LINE POWER)
- RECEPTACLE (IF APPLICABLE)

#### **ITEMS INCLUDED:**

- CH2 LED LIGHT FIXTURE
- CORD AND PLUG (OPTIONAL; SOLD SEPARATELY)
- MAY ALSO INCLUDE SOME OPTIONAL ACCESSORIES (IF ORDERED)

REFER TO SPECIFICATIONS SHEET FOR ALL POSSIBLE OPTIONS.



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**IMPORTANT: READ ALL INSTRUCTIONS THOROUGHLY AND CAREFULLY PRIOR TO INSTALLATION OF CH2 SERIES FIXTURES AND RETAIN FOR FUTURE REFERENCE**

**WARNING:**

**FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DEATH, SERIOUS INJURY OR SIGNIFICANT PROPERTY DAMAGE.**

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH APPLICABLE BUILDING AND ELECTRICAL CODES, BY A QUALIFIED PERSON WHO IS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

- FULLY INSPECT LENS AND HOUSING OF THE FIXTURE PRIOR TO INSTALLATION. IF DAMAGED, NOTIFY FACTORY.
- TO AVOID ELECTRIC SHOCK: DISCONNECT ELECTRICAL POWER (LINE POWER) BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- VERIFY SUPPLY VOLTAGE IS SAME AS RATED FIXTURE VOLTAGE. THE ELECTRICAL RATINGS OF THE FIXTURE ARE CLEARLY INDICATED ON THE PRODUCT LABEL.
- CH2 FIXTURES ARE SUITABLE FOR DRY AND DAMP LOCATIONS ONLY.
- BE CAUTIOUS OF ANY SHARP EDGES. WEAR PROPER SAFETY GEAR (SUCH AS GLOVES AND SAFETY GLASSES) WHILE HANDLING.

**CAUTION - RISK OF PERSONAL INJURY**

ACCOUNT FOR SMALL PARTS AND DESTROY PACKING MATERIAL, AS THESE MAY BE HAZARDOUS TO CHILDREN

**CAUTION - RISK OF FIRE**

- NOT INTENDED FOR RECESSED INSTALLATION IN CEILINGS OR SOFFITS.

**WARNING -**

- LUMINAIRE WIRING AND ELECTRICAL PARTS MAY BE DAMAGED WHEN DRILLING FOR INSTALLATION OF RETROFIT ASSEMBLY HARDWARE. CHECK FOR ENCLOSED WIRING AND COMPONENTS.

**CAUTION - RISK OF ELECTRIC SHOCK**

- SUITABLE FOR DAMP LOCATIONS.

THESE INSTRUCTIONS DO NOT ATTEMPT TO COVER ALL INSTALLATION AND MAINTENANCE SITUATIONS. FOR MORE INFORMATION OR QUESTIONS REGARDING THE INSTALLATION OR USE OF THE CH10S FIXTURE, CALL 888.799.5002 option 3 OR EMAIL AT [info@linmoreled.com](mailto:info@linmoreled.com).

CONVIENT AUX EMPLACEMENTS HUMIDES

- USE INDOORS ONLY.
- TURN POWER OFF BEFORE SERVICING -- SEE INSTRUCTIONS.
- PROPERLY GROUND FIXTURE.

**WARNING -**

- ENSURE NO BARE WIRES ARE EXPOSED OUTSIDE THE ELECTRICAL CONNECTIONS.
- TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OR OTHER SHARP OBJECTS.
- ONLY THOSE OPEN HOLES INDICATED IN THE PHOTOGRAPHS AND/OR DRAWINGS MAY BE MADE OR ALTERED AS A RESULT OF KIT INSTALLATION. DO NOT LEAVE ANY OTHER OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS.
- SEULS LES OUVERTURES INDIQUÉES DANS LES PHOTOS ET/OU LES DESSINS PEUVENT ÊTRE FAITS OU MODIFIÉS À LA SUITE DE L'INSTALLATION DU NÉCESSAIRE. IL EST INTERDIT DE LAISSER D'AUTRES OUVERTURES DANS UN BOÎTIER DE CÂBLAGE OU DE COMPOSANTS ÉLECTRIQUES.
- SUITABLE FOR OPERATION IN AMBIENT NOT EXCEEDING 45°C.
- PEUT ÊTRE UTILISÉ À UNE TEMPÉRATURE AMBIANTE N'EXCÉDANT PAS 45°C.
- MIN 75°C SUPPLY CONDUCTORS
- LES FILS D'ALIMENTATION 75°C MIN

**MAINTENANCE**

LENSED CH20S FIXTURES SHOULD BE DRY DUSTED PERIODICALLY. THE FROSTED LENS CAN BE CLEANED WITH DAMP OR DRY CLOTH. NO SPECIAL CLEANER REQUIRED.

**TROUBLESHOOTING**

TURN ELECTRICITY OFF AT THE MAIN CIRCUIT BREAKER, PANELBOARD, FUSE BOX OR DISCONNECT. DO NOT ATTEMPT TO TROUBLESHOOT WITH THE POWER ON.

ISSUE 1 - LIGHT DOES NOT COME ON

1. VERIFY POWER IS BEING DELIVERED TO THE FIXTURE. CHECK ALL UPSTREAM CIRCUIT BREAKERS, FUSES AND DISCONNECT TO ENSURE THEY ARE ON AND IN PROPER WORKING ORDER.
2. CONFIRM ALL ELECTRICAL CONNECTIONS ARE COMPLETE AND CONTINUOUS.
3. IF THE ISSUE REMAINS UNRESOLVED, CONTACT LINMORE LED.

ISSUE 2 - ONE OR MORE LEDS ARE OUT WHILE OTHERS REMAIN ON

1. DETERMINE IF REPLACEMENT IS DESIRED. AFTER ONE OR MORE LEDS FAILS, THE FIXTURE MAY CONTINUE TO OPERATE NORMALLY, ALTHOUGH WITH A REDUCED LUMEN OUTPUT.
2. IF REPLACEMENT FIXTURE IS DESIRED, CONTACT LINMORE LED.

**WARRANTY SUPPORT**

PHONE: 55-485.6010

EMAIL: [info@linmoreled.com](mailto:info@linmoreled.com)



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### **GENERAL INSTRUCTIONS:**

#### **PREPARING TO INSTALL**

1. CONSULT A LOCAL LICENSED ELECTRICIAN OR ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
2. REVIEW WARNINGS FOUND IN THIS DOCUMENT PRIOR TO STARTING WORK.
3. INSPECT PACKAGE(S) FOR SIGNS OF DAMAGE. NOTIFY CARRIER IMMEDIATELY IF FIXTURE PACKAGING IS DAMAGED, TAKE PICTURES OF THE DAMAGE AND NOTIFY FLS.
4. UNPACK THE FIXTURES FROM PACKAGING. RECYCLE AND PROPERLY DISPOSE OF PACKAGING.
5. INSPECT FIXTURES. IF THERE IS ANY FIXTURE DAMAGE OBSERVED, TAKE PHOTOGRAPHS AND IMMEDIATELY CONTACT [info@linmoreled.com](mailto:info@linmoreled.com).
6. TURN OFF ELECTRICITY AT THE MAIN CIRCUIT BREAKER, PANELBOARD, FUSE BOX OR DISCONNECT.  
**DO NOT ATTEMPT TO INSTALL FIXTURE WITH THE POWER ON.**
7. ENSURE RESPECTIVE LOCATIONS HAVE PROPERLY RATED FIXTURE.
8. MAKE SURE THE MOUNTING SURFACE IS CAPABLE OF SUPPORTING WEIGHT OF FIXTURE.
9. MAX AMBIENT REDUCED 5°C WHEN MOUNTED NEAR CEILING.
10. ENSURE PROPER AIRFLOW AROUND FIXTURE.

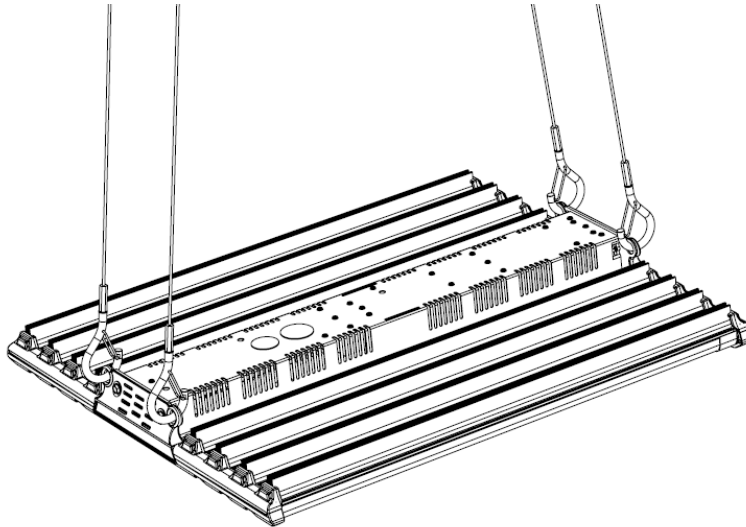
### **CABLE READY MOUNT (CRM)**

#### **INSTALLATION – CONNECTION IN MIDDLE OF WIREWAY OR CTOPEND**

1. REFER TO GENERAL INSTRUCTIONS 1 THROUGH 6 AT THE BEGINNING OF THIS SECTION.
2. SECURE SUSPENSION CABLE (ORDERED SEPARATELY) OR CHAIN (NOT INCLUDED) TO STRUCTURE.
3. ATTACH SUSPENSION CABLE OR CHAIN TO ALL FOUR MOUNTING EYELETS. IF USING EMB OR EMB2, USE EYELETS ON EMB BOX.
4. MAKE FINAL WIRING CONNECTIONS (REFER TO WIRING INSTRUCTIONS AT THE END OF THIS SECTION).
5. **CLOSE COVER:** REATTACH WIREWAY COVER ON TO HOUSING GENTLY PRESS DOWN ON THE COVER UNTIL IT "SNAPS" SHUT.
6. INSERT SAFETY SCREW (PROVIDED) INTO WIREWAY COVER.

#### **INSTALLING OPTIONAL SAFETY CABLE**

1. SECURE SAFETY CABLE (ORDERED SEPARATELY) TO A DIFFERENT STRUCTURE THAN THE CABLES.
2. ATTACH SNAP HOOK ON SAFETY CABLE TO ONE OF THE FOUR (4) SNAP HOOKS FROM THE CABLE KIT.



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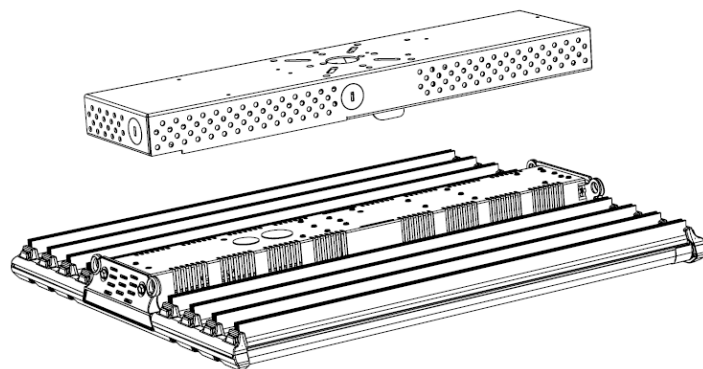
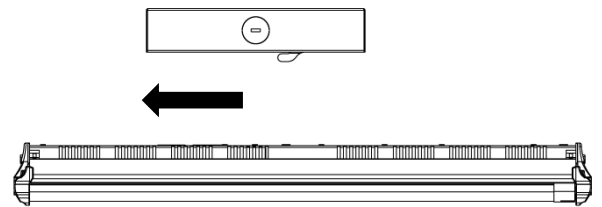
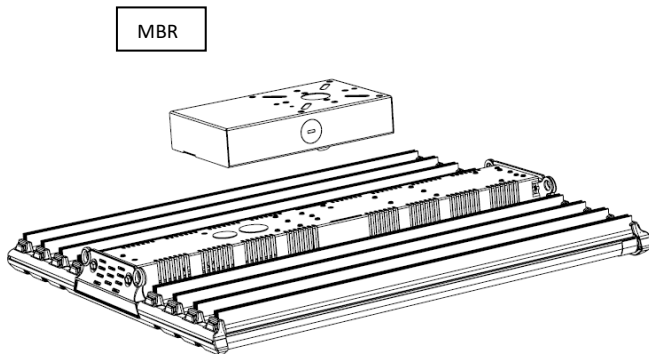
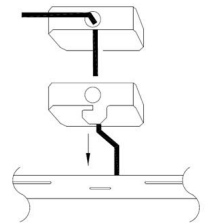
**SURFACE MOUNT (MBR AND FIXTURES WITH EMB OR EMB2)**

**INSTALLATION**

1. REFER TO GENERAL INSTRUCTIONS 1 THROUGH 6 AT THE BEGINNING OF THIS SECTION.
2. NOTE: EMB and EMB2 ALSO FUNCTION AS A FLUSH MOUNTING BOX.
3. REMOVE SAFETY SCREW FROM WIREWAY COVER. OPEN WIREWAY COVER FROM BELOW BY SQUEEZING WIREWAY AND PULLING DOWN ON THE COVER. TAKE CARE NOT TO DAMAGE THE FIXTURE. **WIREWAY COVER IS NOT CAPTIVE TO THE WIREWAY.**
4. REMOVE SCREW FROM MOUNTING BRACKET (MBR, EMB OR EMB2) BOX INSIDE OF THE WIREWAY. REMOVE THE BOX.
5. RAISE THE MBR (EMB OR EMB2) BOX TO CEILING JUNCTION BOX (IF APPLICABLE AND PROVIDED BY OTHER). CEILING JUNCTION BOX SHALL BE SUITABLE TO WITHSTAND WEIGHT OF FIXTURE.
6. THREAD BUILDING POWER WIRING THROUGH ANY KO HOLE IN THE MBR (EMB OR EMB2).
7. ATTACH MBR (EMB OR EMB2) TO CEILING JUNCTION BOX.
8. RAISE FIXTURE TO MBR (EMB OR EMB2). PASS BUILDING POWER WIRING INTO WIREWAY AND PUSH MBR (EMB OR EMB2) FLAPS THROUGH SLOTS ON WIREWAY. SLIDE FIXTURE INTO PLACE TO "SIT" ON FLAPS. **FOR MBR ORIENT FIXTURE SO THE MBR COVERS THE WIRING HOLE ON TOP OF THE WIREWAY. FOR EMB OR EMB2 THE INSTALLATION TAB AND SCREW ARE ON THE SIDE OF THE WIREWAY OPPOSITE THE DRIVER.**
9. FROM INSIDE OF WIREWAY, SECURE MBR (EMB OR EMB2) TO FIXTURE, USING SCREW PROVIDED.
10. MAKE FINAL WIRING CONNECTIONS (REFER TO WIRING INSTRUCTIONS AT END OF THIS SECTION).
11. **CLOSE COVER:** REATTACH WIREWAY COVER ON TO HOUSING GENTLY PRESS DOWN ON THE COVER UNTIL IT "SNAPS" SHUT.
12. INSERT SAFETY SCREW (PROVIDED) INTO WIREWAY COVER.

**INSTALLING OPTIONAL SAFETY CABLE**

1. SECURE SAFETY CABLE (ORDERED SEPARATELY) TO STRUCTURE.
2. ATTACH SAFETY CABLE TO ONE OF THE FOUR (4) MOUNTING TABS.



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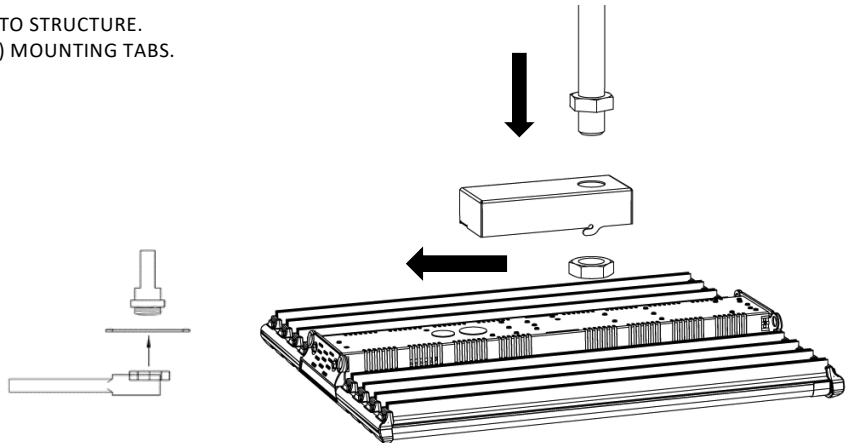
### RIGID STEM MOUNTING OPTION (STEM)

#### INSTALLATION

1. REFER TO GENERAL INSTRUCTIONS 1 THROUGH 6 AT THE BEGINNING OF THIS SECTION.
2. INSTALL 3/4" RIGID STEM (PROVIDED BY CONTRACTOR) IN ACCORDANCE WITH LOCAL BUILDING CODES AND AUTHORITY HAVING JURISDICTION. MAKE SURE THE RIGID STEM IS CAPABLE OF SUPPORTING WEIGHT OF FIXTURE.
3. RAISE STEM BOX TO RIGID STEM
4. REACH INSIDE STEM BOX AND THREAD WASHER (PROVIDED BY CONTRACTOR) ONTO BOTTOM OF THREADED RIGID STEM. FINGER TIGHTEN, THEN USE WRENCH TO SECURELY TIGHTEN LOCKNUT.
5. OPEN WIREWAY COVER FROM BELOW BY SQUEEZING WIREWAY AND PULLING DOWN ON THE COVER. TAKE CARE NOT TO DAMAGE THE FIXTURE. **WIREWAY COVER IS NOT CAPTIVE TO THE WIREWAY.**
6. ATTACH STEM BOX TO RIGID STEM.
7. **ORIENT FIXTURE SO THE STEM COVERS THE WIRING HOLE ON TOP OF THE WIREWAY.** THREAD BUILDING POWER WIRING AT BOTTOM OF RIGID STEM THROUGH HOLE IN TOP OF FIXTURE WIREWAY.
8. RAISE FIXTURE TO THE STEM BOX. PASS BUILDING POWER WIRING INTO WIREWAY AND PUSH STEM BOX FLAPS THROUGH SLOTS ON WIREWAY. SLIDE FIXTURE INTO PLACE TO "SIT" ON FLAPS.
9. FROM INSIDE OF WIREWAY, SECURE STEM BOX TO FIXTURE, USING SCREW PROVIDED AND ALSO BY SECURING THE NUT TO THE STEM.
10. MAKE FINAL WIRING CONNECTIONS (REFER TO WIRING INSTRUCTIONS AT END OF THIS SECTION).
11. **CLOSE COVER:** REATTACH WIREWAY COVER ON TO HOUSING GENTLY PRESS DOWN ON THE COVER UNTIL IT "SNAPS" SHUT.
12. INSERT SAFETY SCREW (PROVIDED) INTO WIREWAY COVER.

#### INSTALLING OPTIONAL SAFETY CABLE

1. SECURE SAFETY CABLE (ORDERED SEPARATELY) TO STRUCTURE.
2. ATTACH SAFETY CABLE TO ONE OF THE FOUR (4) MOUNTING TABS.



### HOOK

#### INSTALLATION

1. REFER TO GENERAL INSTRUCTIONS 1 THROUGH 6 AT THE BEGINNING OF THIS SECTION.
2. REFER TO RIGID STEM MOUNTING OPTION (STEM), ABOVE.
3. THE HOOK WILL BE INSTALLED INTO THE STEM MOUNT PRIOR TO THE STEM AND HOOK ASSEMBLY BEING INSTALLED ONTO THE FIXTURE.
4. ATTACH HOOK AT GROUND LEVEL BEFORE ATTEMPTING TO HANG FIXTURE AT CEILING LEVEL.
5. ATTACH HOOK TO STEM ASSEMBLY.
6. **FOR FIXTURES WITH NO CORD OR CTOPEND:** THREAD LOCKNUT (SUPPLIED) THROUGH HOOK, AND HOOK THROUGH HOLE IN TOP OF STEM MOUNTING BOX.
7. **FOR FIXTURES WITH A CORD:** PICK UP HOOK AND PULL CORD THROUGH TO WHERE HOOK IS CLOSE TO STEM MOUNTING BOX.
8. REACH INSIDE STEM MOUNTING BOX AND THREAD WASHER (SUPPLIED) ONTO BOTTOM OF HOOK. FINGER TIGHTEN WASHER.
9. HOLD WASHER WITH WRENCH. PASS FLAT BLADE SCREW DRIVER THROUGH HOOK AND TORQUE TO SECURELY TIGHTEN.
10. OPEN WIREWAY COVER FROM BELOW BY SQUEEZING WIREWAY AND PULLING DOWN ON THE COVER. TAKE CARE NOT TO DAMAGE THE FIXTURE. **WIREWAY COVER IS NOT CAPTIVE TO THE WIREWAY.**
11. ATTACH STEM MOUNTING BOX (STEM) TO FIXTURE, SEE INSTRUCTIONS ABOVE.
12. TO HANG FIXTURE, RAISE HOOK TO LOOP (NOT PROVIDED) AND LATCH HOOK IN PLACE.
13. ATTACH BALANCING CABLE (SUPPLIED) OR CHAIN (NOT INCLUDED) TO ONE (1) OF THE FOUR (4) MOUNTING TABS. SECURE BALANCING CABLE OR CHAIN TO STRUCTURE AND LEVEL FIXTURE PLUMB TO BUILDING LINES.
14. MAKE FINAL WIRING CONNECTIONS (REFER TO WIRING INSTRUCTIONS AT END OF THIS SECTION).
15. **CLOSE COVER:** REATTACH WIREWAY COVER ON TO HOUSING GENTLY PRESS DOWN ON THE COVER UNTIL IT "SNAPS" SHUT.
16. INSERT SAFETY SCREW (PROVIDED) INTO WIREWAY COVER.



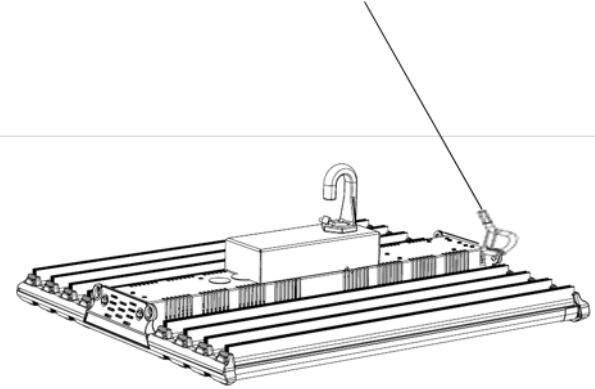
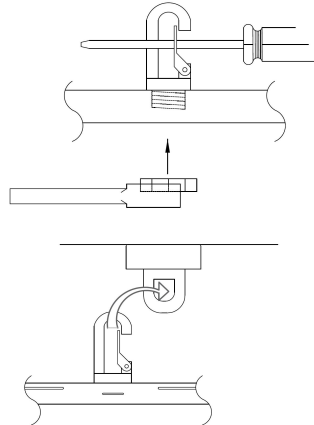
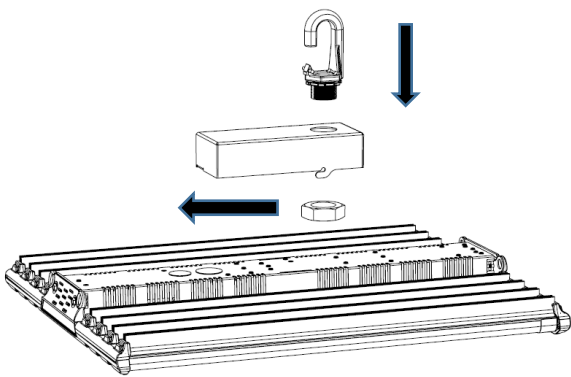
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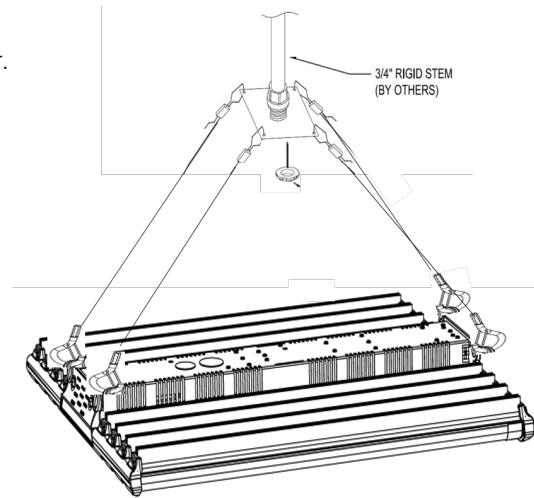
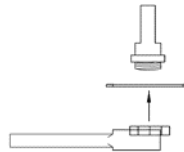
### **PLATE MOUNT (CRM)**

#### **INSTALLATION**

1. REFER TO GENERAL INSTRUCTIONS 1 THROUGH 5 AT THE BEGINNING OF THIS SECTION.
2. INSTALL 3/4" RIGID STEM (PROVIDED BY CONTRACTOR) IN ACCORDANCE WITH LOCAL BUILDING CODES AND AUTHORITY HAVING JURISDICTION. MAKE SURE THE RIGID STEM IS CAPABLE OF SUPPORTING WEIGHT OF FIXTURE.
3. RAISE PLATE TO RIGID STEM.
4. THREAD WASHER (PROVIDED BY CONTRACTOR) ONTO BOTTOM OF THREADED RIGID STEM, SECURING PLATE IN PLACE. FINGER TIGHTEN, THEN USE WRENCH TO SECURELY TIGHTEN LOCKNUT.
5. ATTACH SUSPENSION CABLES (FOUR (4) SUPPLIED) TO ALL FOUR (4) MOUNTING TABS ON FIXTURE AND ON MOUNTING HOLES ON PLATE. LEVEL FIXTURE PLUMB TO BUILDING LINES.
6. MAKE FINAL WIRING CONNECTIONS (REFER TO WIRING INSTRUCTIONS AT END OF THIS SECTION).

#### **INSTALLING OPTIONAL SAFETY CABLE**

1. SECURE SAFETY CABLE (ORDERED SEPARATELY) TO A DIFFERENT STRUCTURE THAN THE CABLES.
2. ATTACH SNAP HOOK ON SAFETY CABLE TO ONE OF THE FOUR (4) SNAP HOOKS FROM THE CABLE KIT.



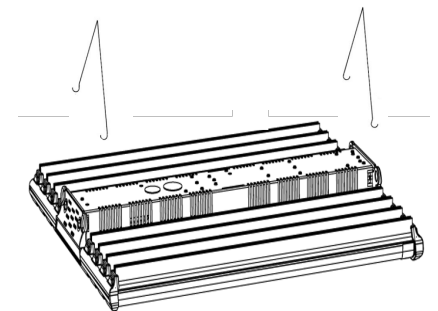
### **HANGER MOUNT (CRM)**

#### **INSTALLATION – CONNECTION IN MIDDLE OF WIREWAY OR CTOPEND**

1. REFER TO GENERAL INSTRUCTIONS 1 THROUGH 5 AT THE BEGINNING OF THIS SECTION.
2. SECURE HANGER CABLES (SUPPLIED) TO STRUCTURE.
3. ATTACH HANGERS TO FIXTURE THROUGH FOUR (4) MOUNTING HOLES.
4. ATTACH CABLES TO HANGERS.
5. MAKE FINAL WIRING CONNECTIONS (REFER TO WIRING INSTRUCTIONS AT THE END OF THIS SECTION).

#### **INSTALLING OPTIONAL SAFETY CABLE**

1. SECURE SAFETY CABLE (ORDERED SEPARATELY) TO A DIFFERENT STRUCTURE THAN THE CABLES.
2. ATTACH SNAP HOOK ON SAFETY CABLE TO ONE OF THE FOUR (4) SNAP HOOKS FROM THE CABLE KIT.



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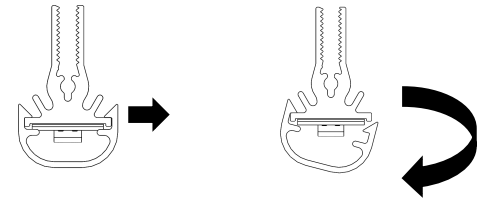
### CHANGING LENSES

THERE ARE FOUR DIFFERENT LENSES FOR THE CH2.

FROSTED, CLEAR AND AISLE LENSES ARE CHANGED OUT BY USING THE FOLLOWING METHOD

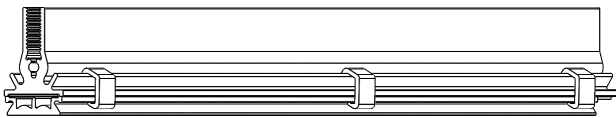
1. GRAB LENS AND PRY ONE EDGE OUTWARD. IT WILL RELEASE.
2. ROTATE UNTIL IT COMES FREE.
3. REPLACE LENS BY SECURING ONE EDGE TO THE LED EXTRUSION AND THEN ROTATING UNTIL THE OTHER END SNAPS INTO PLACE OVER THE OPPOSITE EDGE OF THE EXTRUSION

REMOVAL OF CL, FR AND AL

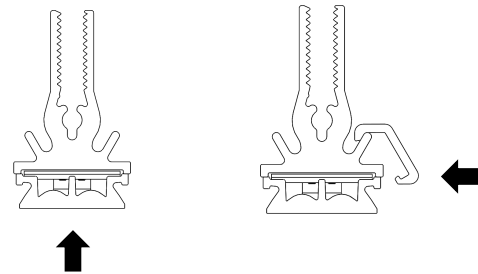


THE NARROW LENS IS CHANGED OUT BY USING THE FOLLOWING METHOD.

1. CAUTION, REMOVING THE NARROW LENS MAY CAUSE IT OR THE CLIPS SECURING IT TO FAIL. IT IS NOT RECCOMENDED TO REMOVE AND THEN REPLACE THE SAME, NARROW LENS.
2. THERE ARE CLIPS SECURING THE NARROW LENS TO THE EXTRUSION. THESE MUST BE REMOVED. PRY THE CLIPS OFF WITH A SCREWDRIVER, THE LENS WILL FALL FREE.
3. TO SECURE THE LENS HOLD IT UP TO THE LED EXTRUSION, ALIGNING THE LENS WITH THE EXTRUSION.
4. THEN SECURE TOP OF CLIP TO THE EXTRUSION AND ROTATE DOWNWARDS TOWARDS THE LENS, SECURING IT TO THE EDGE OF THE NARROW LENS UNTIL IT SNAPS INTO PLACE.



NARROW LENS



### WIRING INSTRUCTIONS:

MAKING FINAL ELECTRICAL CONNECTIONS – HARDWIRED

1. **WIRING THROUGH MIDDLE HOLE IN WIREWAY:** EXTEND BUILDING POWER WIRING TO TOP OF FIXTURE AND FEED THROUGH 3/4" OPENING IN MIDDLE OF FIXTURE. PROVIDE UL/ETL APPROVED STRAIN RELIEF.
2. **WIRING THROUGH CTOPEND IN WIREWAY:** LOCATE KNOCKOUT ON TOP OF FIXTURE NEAR ONE OF THE ENDCAPS. WITH A FLAT BLADE SCREWDRIVER, REMOVE KNOCKOUT. EXTEND BUILDING POWER WIRING TO END OF FIXTURE AND FEED THROUGH KNOCKOUT OPENING. PROVIDE UL/ETL APPROVED STRAIN RELIEF.
3. OPEN WIREWAY COVER FROM BELOW BY SQUEEZING WIREWAY AND PULLING DOWN ON THE COVER. TAKE CARE NOT TO DAMAGE THE FIXTURE.

WIREWAY COVER IS NOT CAPTIVE TO THE WIREWAY.

4. MAKE FINAL ELECTRICAL CONNECTIONS INSIDE WIREWAY PER ALL APPLICABLE CODES - BLACK TO BLACK (HOT/LINE/LIVE); WHITE TO WHITE (NEUTRAL) AND GREEN (OR BARE) TO GREEN (GROUND). MAKE SURE ELECTRICAL CONNECTIONS ARE SECURE AND ENSURE NO BARE WIRES ARE EXPOSED.
5. **DIMMING (IF APPLICABLE):** MAKE FINAL ELECTRICAL CONNECTIONS INSIDE WIREWAY PER ALL APPLICABLE CODES—VIOLET TO VIOLET (DIM +), GREY TO GREY (DIM -). MAKE SURE ELECTRICAL CONNECTIONS ARE CONTINUOUS AND ENSURE NO BARE WIRES ARE EXPOSED.
6. **EMERGENCY BATTERY BACKUP (EMB & EMB2) OPTION (WITH SWITCH LEG):** MAKE FINAL ELECTRICAL CONNECTIONS INSIDE WIREWAY PER ALL APPLICABLE CODES - BLACK TO BLACK (HOT/LINE/LIVE); RED (SWITCH LEG) TO RED (WITH FLAG); WHITE TO WHITE (NEUTRAL) AND GREEN (OR BARE) TO GREEN (GROUND). MAKE SURE ELECTRICAL CONNECTIONS ARE SECURE AND ENSURE NO BARE WIRES ARE EXPOSED.
7. **EMERGENCY BATTERY BACKUP (EMB & EMB2) OPTION (WITHOUT SWITCH LEG):** MAKE FINAL ELECTRICAL CONNECTIONS INSIDE WIREWAY PER ALL APPLICABLE CODES - BLACK TO BLACK (HOT/LINE/LIVE); REMOVE WAGO FROM FIXTURE RED (WITH FLAG) WIRE AND PLACE IN WAGO WITH BLACK WIRES (HOT/LINE/LIVE); WHITE TO WHITE (NEUTRAL) AND GREEN (OR BARE) TO GREEN (GROUND). MAKE SURE ELECTRICAL CONNECTIONS ARE SECURE AND ENSURE NO BARE WIRES ARE EXPOSED.
8. NEATLY ARRANGE WIRES IN WIREWAY. PAY CLOSE ATTENTION ALL WIRES AND CONNECTIONS ARE PROPERLY LAYING INSIDE FIXTURE WIREWAY BEFORE CLOSING.
9. **CLOSE COVER:** REATTACH WIREWAY COVER ON TO HOUSING GENTLY PRESS DOWN ON THE COVER UNTIL IT "SNAPS" SHUT.



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Rev 111021



**IMPORTANT: READ ALL INSTRUCTIONS THOROUGHLY AND CAREFULLY PRIOR TO INSTALLATION OF CH2 SERIES FIXTURES AND RETAIN FOR FUTURE REFERENCE**

10. INSERT SAFETY SCREW (PROVIDED) INTO WIREWAY COVER.
11. TURN ELECTRICITY ON AT THE CIRCUIT BREAKER, PANELBOARD, OR FUSE BOX – FIXTURE SHOULD ILLUMINATE. IF IT DOESN'T, REFER TO TROUBLESHOOTING INSTRUCTIONS OR CALL TECHNICAL SUPPORT (888.799.5002 option 3).

MAKING FINAL ELECTRICAL CONNECTIONS – FIXTURES WITH OPTIONAL FACTORY INSTALLED CORD (CORD/PLUG):

12. **FIXTURES WITH CORD AND NO PLUG (WIRE ENDS):**
  - a. MAKE FINAL ELECTRICAL CONNECTIONS PER ALL APPLICABLE CODES - BLACK TO BLACK (HOT); WHITE TO WHITE (NEUTRAL) AND GREEN (OR BARE) TO GREEN (GROUND).
  - b. EXTEND CORD WITH WIRE ENDS TO NEAREST ELECTRICAL JUNCTION BOX (PROVIDED BY CONTRACTOR) AND ENSURE NO BARE WIRES ARE EXPOSED.
13. **FIXTURE WITH CORD AND PLUG:**
  - a. EXTEND CORD AND PLUG TO NEAREST APPROPRIATELY RATED RECEPTACLE (PROVIDED BY CONTRACTOR) AND CONNECT.
14. **FIXTURE WITH CORD AND CACS AND CACSMC OPTION:**
  - b. EXTEND CORD AND SNAP INTO ACS DISTRIBUTION CONNECTOR (PROVIDED BY CONTRACTOR) AND CONNECT.

MANUFACTURER WARNINGS FOR EMERGENCY BATTERY BACKUP (EMB & EMB2):

## IMPORTANT SAFETY INSTRUCTIONS

WHEN USING ELECTRICAL EQUIPMENT AND THIS LIGHTING DEVICE BASIC SAFETY PRECAUTION SHOULD BE FOLLOWED AT ALL TIMES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

PLEASE READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY

1. **IMPORTANT: AN UN-SWITCHED AC POWER SOURCE OF 100VAC TO 277VAC IS REQUIRED.**
2. THIS DEVICE IS DESIGNED FOR USE IN FIXTURES LISTED FOR DRY AND DAMP LOCATIONS.
3. **CAUTION:** MAKE SURE ALL ELECTRICAL CONNECTIONS CONFORM TO THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL REGULATIONS.
4. **CAUTION:** DO NOT LET POWER SUPPLY CORDS TOUCH HOT SURFACES.
5. **CAUTION:** DO NOT MOUNT NEAR GAS OR ELECTRIC HEATERS.
6. **CAUTION:** BATTERY IS RECHARGEABLE NIMH TYPE AND MUST BE RECYCLED OR DISPOSED OF PROPERLY. DO NOT USE THIS EMERGENCY DRIVER WITH ACCESSORY EQUIPMENT OTHER THAN RECOMMENDED BY MANUFACTURER; FAILURE TO FOLLOW THIS MAY CAUSE AN UNSAFE CONDITION. SERVICING SHOULD ONLY BE PERFORMED BY QUALIFIED SERVICE PERSONNEL. DO NOT USE THIS EMERGENCY DRIVER FOR OTHER THAN INTENDED USE. NOT SUITABLE FOR HIGH-RISK TASK AREA LIGHTING. EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT HEIGHTS WHERE IT WILL NOT READILY BE SUBJECTED TO TAMPERING BY UNAUTHORIZED PERSONNEL.
7. **IMPORTANT:** THE OUTPUT EM POWER WILL NOT EXCEED THE MAX POWER RATING OF THE BATTERY.

### OPERATION/TESTING

8. **OPERATION**  
WHEN AC POWER IS APPLIED, THE LED TEST SWITCH IS ILLUMINATED, INDICATING THAT THE BATTERIES ARE BEING CHARGED. WHEN AC POWER FAILS, THE LEM-PXX-060-A-U-PT AUTOMATICALLY SWITCHES TO EMERGENCY (BATTERY) POWER, WHICH CAN BE MAINTAINED FOR >90 MINUTES, OPERATING THE LED LOAD SPECIFIED EMERGENCY POWER LEVEL. THE LED TEST SWITCH (LTS) IS SWITCHED OFF. WHEN THE AC POWER IS RESTORED THE EMERGENCY MODULE SWITCHES THE SYSTEM BACK TO NORMAL MODE AND RESUMES BATTERY CHARGING. **THE CHARGING TIME FOR THE FULL DISCHARGED BATTERY IS 24 HOURS.**
9. **TESTING AND MAINTENANCE**  
PERIODIC TESTS ARE RECOMMENDED TO ENSURE THE SYSTEM IS FUNCTIONING NORMALLY:
  1. VISUALLY INSPECT THE LED TEST SWITCH (LTS) MONTHLY. IT SHOULD BE ILLUMINATED WHEN AC POWER IS APPLIED.
  2. CONDUCT A 30 SECOND DISCHARGE TEST BY SWITCHING OFF THE MAINS POWER EVERY MONTH. THE LTS IS SWITCHED OFF AND LED LOADS SHOULD OPERATE AT REDUCED ILLUMINATION.
  3. CONDUCT A 90 MINUTE DISCHARGE TEST ONCE A YEAR. THE LED LOADS SHOULD OPERATE AT REDUCED ILLUMINATION FOR AT LEAST 90 MINUTES.
10. **AUTO TEST**

THE LEM-PXX-060-A-U-PT SERIES HAS INTEGRATED AUTO TEST FUNCTIONS AS FOLLOWS.

#### 1. INSTANT AUTO TEST

WHEN THE SYSTEM IS CONNECTED AND POWERED ON, THE LEM-PXX-060-A-U-PT MODEL WILL AUTO TEST TO VERIFY PROPER CONNECTION OF LED LOAD AND CONNECTION/CHARGING OF BATTERY PACK. IN CASE OF LED LOAD OR BATTERY PACK



001-5105 REV 02

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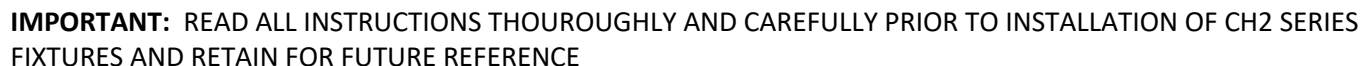
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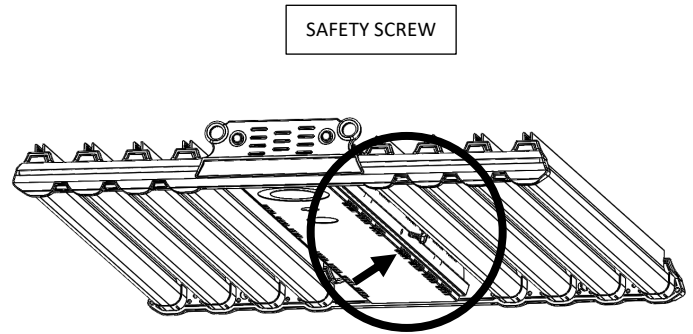
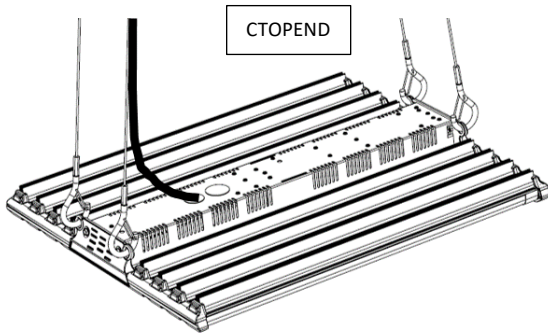
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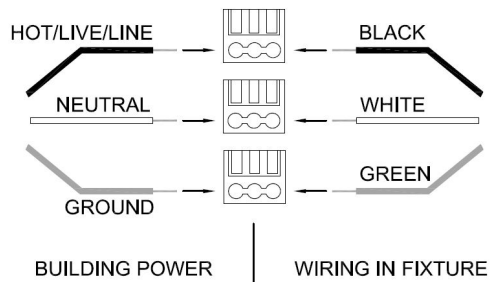




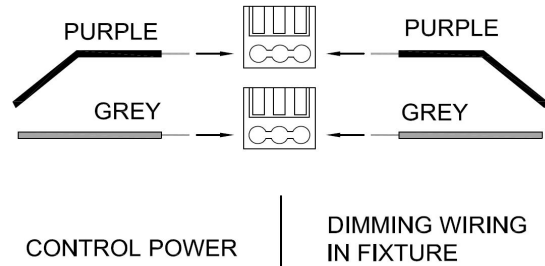
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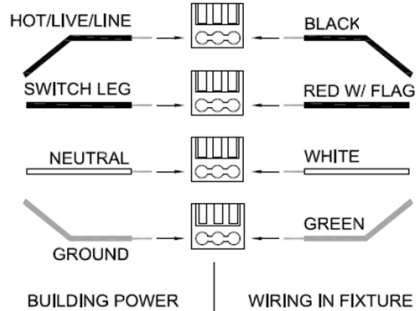
NORMAL POWER WIRING



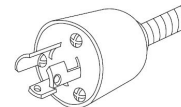
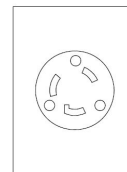
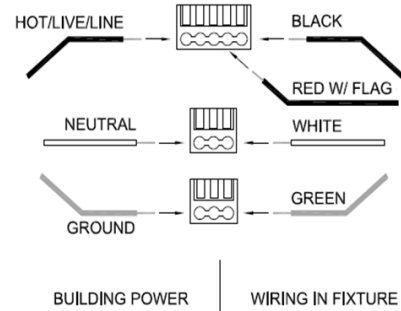
DIMMING WIRING



EMB AND EMB2 WIRING (WITH SWITCH LEG)



EMB AND EMB2 WIRING (WITHOUT SWITCH LEG)



OPTIONAL CORD/PLUG (ORDERED SEPARATELY). PLUG INTO CONTRACTOR PROVIDED RECEPTACLE. THE CORD YOU ORDERED MAYBE BE DIFFERENT THAN THE CORD SHOWN HERE.



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