

**AUC & MAUC SERIES**

**IMPORTANT SAFEGUARDS**

**When using electrical equipment, basic safety precautions should always be followed, including the following:**

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED. DISCONNECT POWER TO ALL CIRCUITS BEFORE WIRING FIXTURE. INSTALL IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES. DO NOT CONNECT TO AN UNGROUNDED SUPPLY. READ ALL FIXTURE MARKINGS AND LABELS TO ENSURE CORRECT INSTALLATION OF FIXTURE. SUPPLEMENTAL INSTRUCTIONS MAY BE LOCATED ON THE FIXTURE, IN ADDITION TO THIS INSTRUCTION SHEET, REGARDING ORIENTATION, OR MOUNTING RESTRICTIONS.

**SAVE THESE INSTRUCTIONS**



**INSTALLATION INSTRUCTIONS**

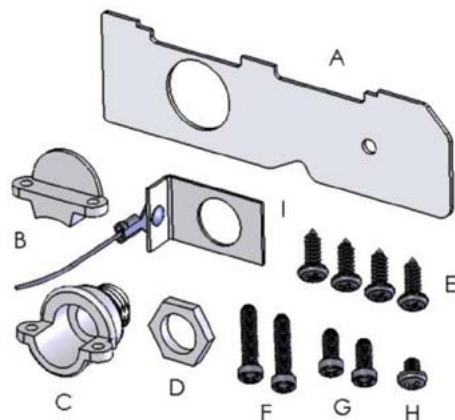
This instruction sheet applies for the Stratalume Connects™ AUCSL, MAUCSL, AUCSD, MAUCSD, AUCDL, MAUCDL, AUCDD, MAUCDD, AUCLED and MAUCLED series. Separate instruction sheets come with accessories such as the WML/WMD wiring modules, ICL/ICD fixture interconnect cordsets, and PCL/PCD power cordsets. These accessories can decrease installation time of series-mount fixtures by eliminating the need to electrically wire each fixture.

**HARDWARE INCLUDED**

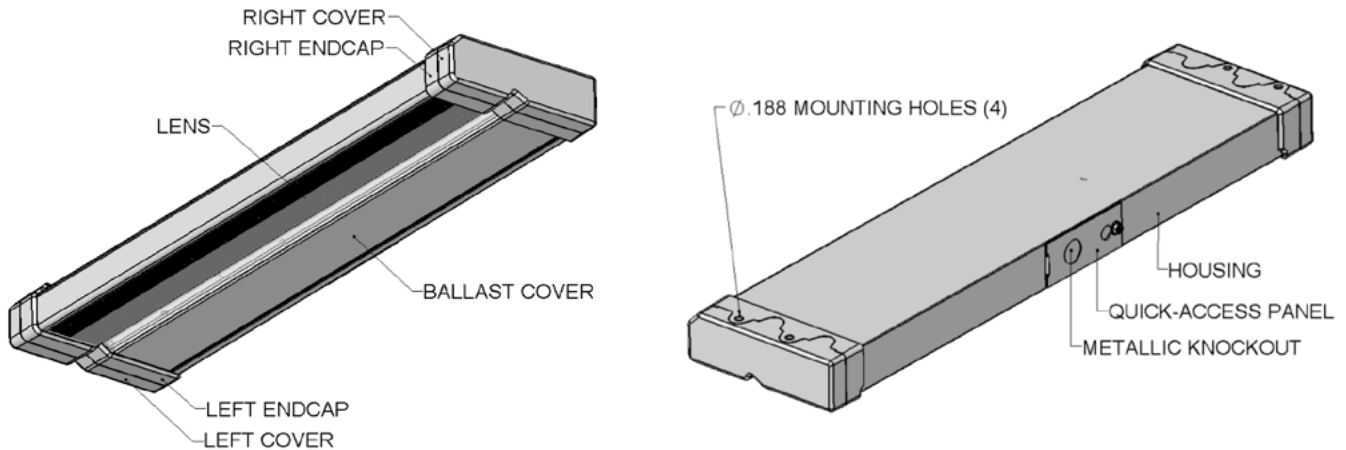
All hardware required to mount a hard-wired fixture is supplied with the unit, see figure below. Hardware, side-conduit entry plate, and plastic left/right covers are located in a small box at one end of the fixture packaging.

The hardware bag contains:

- (A) - One (1) side-conduit entry plate
- (B) - One (1) NM/FMC connector clamp
- (C) - One (1) NM/FMC connector
- (D) - One (1) connector nut
- (E) - Four (4) #8 x 1/2" mounting screws
- (F) - Two (2) 8-32 x 3/4" screws (for FMC)
- (G) - Two (2) 8-32 x 3/8" screws (for NM)
- (H) - One (1) 8-32 x 3/16" screw
- (I) - One (1) side-conduit bonding assembly fitting



**TERMINOLOGY**



**INSTALLATION**

**A. Fixture Mounting Procedure**

Before beginning, make sure all components have been unpacked from the shipping carton. The Stratalume Connects™ fixtures can be mounted individually or mounted in a row by electrically connecting each fixture. Connects™ fixtures are classified as “series-mount” or “individual-mount”. Series-mount fixtures can be identified by the male and female electrical connectors at the ends of the fixture. Wiring modules, power cordsets, and interconnect cordsets require series-mount fixtures. Both fixture types (individual or series) can be mounted individually. Use the following steps to mount all Stratalume Connects™ fixtures:

1. Determine where fixture(s) will be mounted.
2. If fixtures are to be series-mounted, determine overall length of series to ensure that adequate under-cabinet space exists. Allow 1" clearance on each side for installation of the plastic end covers after fixtures are mounted in desired location.
3. Ensure adequate clearance exists at the rear (or side) of the fixture for electrical connection with FMC or NM wire. Individual-mount, skip to Step 7.
4. For applications where electrical connection is made by a power cordset (PC) or interconnect cordset (IC), allow an additional 2" side clearance for each cordset. NOTE: All fixtures being mounted together must be mounted in a straight line to ensure proper electrical connection is made between fixtures.
5. Draw a straight line that will locate the back edge of all fixtures.
6. Lift first fixture into place by lining up back edge with the line drawn in Step 5. Electrical connection will be made to this fixture.
7. When fixture is positioned correctly, secure fixture by the mounting holes (see figure above) with four #8 screws (E). Individual-mount, skip to next section.
8. If the fixture is to be hard-wired, refer to Section B Electrical Connection – Hardwired Units. Make electrical connection before mounting additional fixtures.
9. Lift subsequent fixtures into place using line drawn in Step 5 for proper alignment. Mounting ears on end caps fit into previously mounted unit. Each new fixture should butt against the previous fixture without gaps.



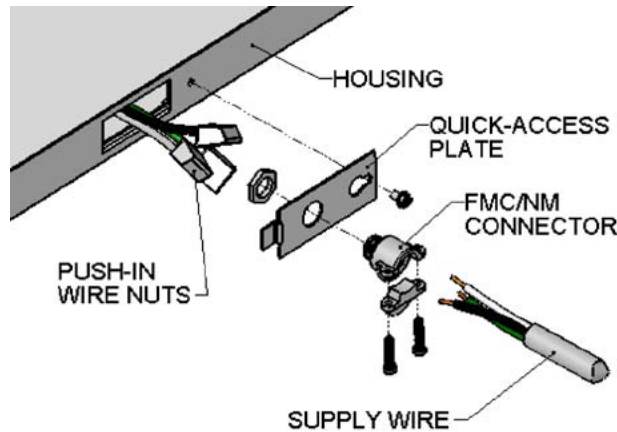
10. Secure subsequent fixtures at opposite ends using two #8 screws (E).
11. Repeat Steps 9 and 10 for each additional fixture in the series. Refer to "Maximum Series-Run Installation" supplemental instructions for limitations on series-mount rows.
12. If power cordsets (PC) or interconnect cordsets (IC) will be used, plug them into their respective endcaps now. If not, snap in end covers to hide unused electrical connectors and mounting hardware.

**B. Electrical Connection – Hardwired Units**

Make sure ac power is off before making electrical connection to fixture(s). If using power module accessory, electrical connection must be made within power module.

**Connection to Rear of Fixture-**

1. Remove quick-access plate from the back of the fixture housing. Push out metallic knockout plug. See figure on page 2.
2. On AUCSL, AUCDL and AUCLED fixtures, attach supplied NM/FMC connector (B, C, D) to quick-access plate. On AUCSD and AUCDD models, use standard 3/8" conduit fitting. Refer to figure below.
3. Secure the supply wire to the NM/FMC connector using screws (F) for FMC or screws (G) for NM wire.

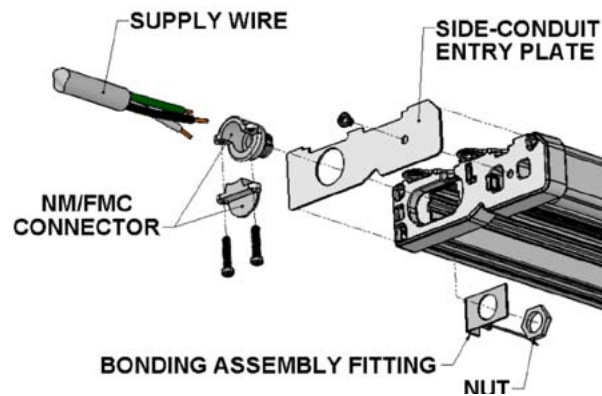


4. Connect supply wires to fixture wires using provided push-in wire nuts. Notice wire labels to ensure correct wires are connected—taking care in two-circuit applications and when units are provided with receptacles for connection to a separate branch circuit. Make sure secure ground connection is made.
5. Push wires back into fixture and re-install the quick-access plate.
6. If installing an individual-mount fixture, test it now. Otherwise, return to previous section to install remaining fixtures in series run.

**Connection to Side of Fixture**

Connection to a side requires the removal of the lens and ballast cover to access the ballast compartment and make the electrical connections.

1. Remove lens by squeezing the finger-grab area in the middle of the fixture to disengage the lens hook from the housing.
2. Remove the small screws securing the ballast cover to the housing and swing out.
3. If applicable, remove the electrical connector at the end of the fixture by squeezing the snaps on each side. Push connector into the housing.
4. Place side-conduit entry plate (A) into position on endcap and secure with 8-32 screw (H).
5. For all fixtures, use supplied NM/FMC connector to secure proper length of supply wiring to the housing. Place bonding assembly fitting (I) and nut (D) onto connector from inside fixture. See figure below. Make electrical connections using supplied push-in wire nuts located in the middle of the fixture. When using a FMC supply, connect bonding assembly wire (I) to fixture ground. Make sure secure ground connection is made.



6. Reposition wires neatly in the ballast compartment. Re-install the ballast cover and lens.
7. If installing an individual-mount fixture, test it now. Otherwise, return to previous section to install remaining fixtures in series run.

**C. Final Assembly**

**Lamp Installation/Replacement**

All fixtures have lamps/LEDs installed at factory unless ordered with the lamp delete (LD) option. Use the following procedure to install or replace a fluorescent lamp:

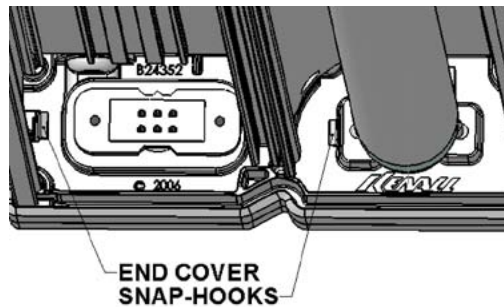
1. Remove the lens by squeezing the finger-grab area in the middle of the fixture to disengage the lens hook from the housing.
2. If replacing the lamp, rotate lamp body 90 degrees to disengage from sockets. Slide lamp downward to release.
3. Install new lamp by aligning lamp pins with sockets. Rotate lamp body 90 degrees until lamp pins lock into position.
4. Test fixture(s) for proper operation.
5. Re-install lens by engaging hooks with the housing.



**End Cover Installation/Removal**

After all fixtures have been mounted and tested for operation, install the plastic end cover(s) over any exposed end to hide electrical connectors and mounting hardware. Both left and right end covers simply snap into their respective ends.

1. Use the following procedure to remove end covers after installation: Remove the lens and ballast cover as described in preceding sections.
2. Use screwdriver to disengage the two (2) end cover snap-hooks from the end caps. See figure below.



**CORDSET ACCESSORY INSTALLATION**

**Important Safety Precautions**

- Shut off power before connecting accessories to an electrical circuit.
- Install in accordance with all national, state, and local codes.
- Do not connect to an ungrounded supply.
- Do not install outdoors or in applications not intended for use.
- Do not connect power cordsets to wiring modules.

**General**

This instruction sheet applies for the following Stratalume Connects™ cordset accessories:

Power Cords: PCL2, PCD2, PCL3, PCD3, PCL4, PCD4, PCL6, PCD6, PCL10, PCD10

Fixture Interconnect Cords: ICL05, ICD05, ICL1, ICD1, ICL2, ICD2, ICL3, ICD3

The PCL and PCD cordset series are used to connect the Stratalume Connects™ light fixture(s) to a standard 3-prong wall receptacle. The ICL and ICD interconnect cordsets are used to electrically connect fixtures when mounted around a corner or across a cabinet transition. All types come in various lengths to suit the individual application.

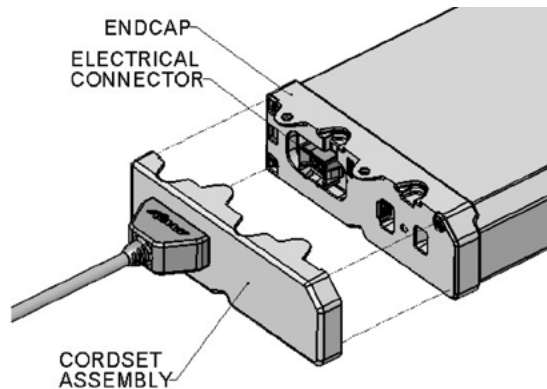
PCL and ICL accessories are used in conjunction with the AUCSL, AUCDL, and AUCLED series. The PCD and ICD accessories are used in conjunction with the AUCSD and AUCDD series.



**Installation**

The cordset accessories provide power to series mount fixtures through connection to the electrical connectors at each end of "series-mount" fixtures. Before beginning, make sure all fixtures to be mounted in the run are indeed "series-mount".

1. Refer to fixture instructions to mount all fixtures to the undercabinet or undershelf area. Remember that at least 2" side clearance must be allowed for each cordset between the fixture and any obstruction. NOTE: See fixture instructions if end covers must be removed to access electrical connectors.
2. Connect cordset assemblies to the fixture endcap(s). Cordsets are fully engaged when covers snap into endcaps. See figure below. Power cordsets plug into the left side of the fixture. WARNING: Do not connect power cordsets to wiring module accessories.
3. Test fixture(s) for proper operation.



**WIRING MODULE INSTALLATION**

**Important Safety Precautions**

- Shut off power before connecting wiring module to electrical circuit.
- Install in accordance with all national, state, and local codes.
- Do not connect to an ungrounded supply.
- Wiring module is intended for undercabinet or undershelf mounting for use in conjunction with the Stratalume Connects™ undercabinet light fixtures. Failure to install on a mechanically-sound surface may result in personal injury, fixture damage, or potential fire hazard.
- Do not install outdoors or in applications not intended for use.
- Read all markings and labels to ensure correct installation of wiring module. Supplemental instructions may be located within the wiring module, in addition to this instruction sheet, regarding orientation, mounting restrictions, or optional equipment.

**General**

This instruction sheet applies for the Stratalume Connects™ WML, WML/SW, WML/HGO, WMD, WMD/SW, WMD/HGO and WMD/MS wiring modules. These accessories are designed to decrease installation time of series-mount fixtures by eliminating the need to electrically wire each fixture. The WML series of wiring modules are used in conjunction with the AUCSL, MAUCSL, AUCDL, MAUCDL, AUCLED and MAUCLED fixture series. The WMD series of wiring modules are used in conjunction with the AUCSD, MAUCSD, AUCDD and MAUCDD series.

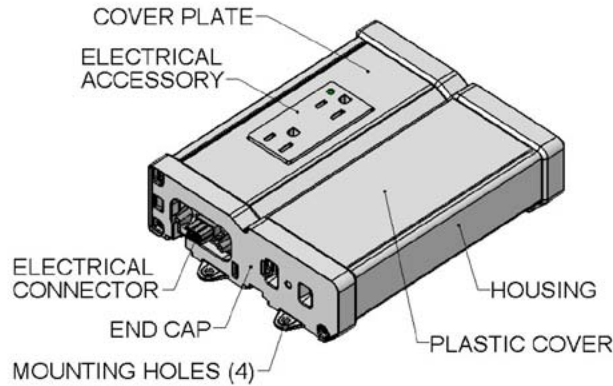


**Terminology**

HGO — Hospital-Grade Outlet

SW — Switch

MS — Motion Senso



**Hardware Included**

All hardware required to mount a wiring module is supplied with the unit. See figure below.

All hardware bags contain:

A - Four (4) #8 x 1/2" mounting screws

B - Two (2) 8-32 x 3/8" screws (for NM)

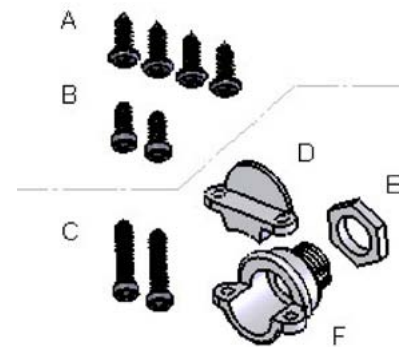
Hardware bags provided with WML series wiring modules also contain:

C - Two (2) 8-32 x 3/4" screws (for FMC)

D - One (1) NM/FMC connector clamp

E - One (1) connector nut

F - One (1) NM/FMC connector



**Installation**

**A. Wiring Module Mounting Procedure**

Wiring modules provide power to Connects™ light fixtures designated as "series-mount" through the electrical connectors at each end. Make sure all fixtures to be mounted in the run are indeed "series-mount". Depending on the type of electrical accessory provided, the wiring modules can also provide master switching of the run by toggle switch or occupancy sensor. The available hospital-grade outlet can also provide a powersource for electrical appliances up to 15A.

Use the following steps to mount all Stratalume Connects™ fixtures with wiring modules. Refer to fixture instructions for additional information.

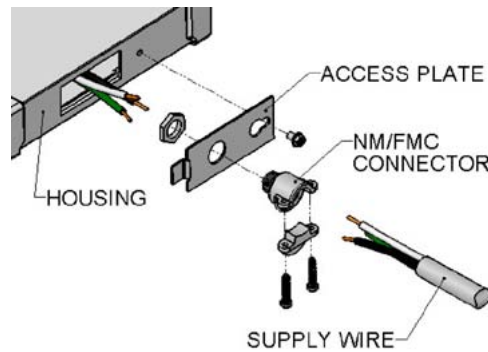
1. Determine where fixture(s) will be mounted. Determine location of wiring module within the run. The wiring module will be mounted first.
2. Determine overall length of series to ensure that adequate under-cabinet space exists. Allow 1" clearance on each side for installation of plastic end covers (provided with fixtures) after fixtures are mounted in desired location.
3. Ensure adequate clearance exists at the rear of the wiring module for electrical connection with FMC or NM wire. NOTE: All fixtures being mounted together must be mounted in a straight line to ensure proper electrical connection is made between fixtures.
4. Draw a straight line that will locate the back edge of all fixtures.



5. Lift the wiring module into place in desired location by lining up the back edge with the line drawn in Step 4.
6. When the wiring module is positioned correctly, secure fixture by the mounting holes (see Figure on page 6) with four #8 screws (A).
7. Skip to Section B—Electrical Connection. Make electrical connection at wiring module before mounting additional fixtures.
8. Lift subsequent fixtures into place using line drawn in Step 5 for proper alignment. Mounting ears on endcaps fit into previously mounted unit. Each new fixture should butt against the previous fixture without gaps.
9. Secure subsequent fixtures at opposite ends using two #8 screws (A).
10. Test operation of fixtures and wiring module electrical accessories before extending series too long.
11. Repeat Steps 8 and 9 for each additional fixture in the series.
12. If interconnect cordset (IC) accessories will be used to connect runs around corners or across transitions, plug them into their respective endcaps now. If not, snap in end covers to hide unused electrical connectors and mounting hardware.

**B. Electrical Connection Procedure**

Make sure ac power is off. Electrical connection to supply must be made within power module.



1. Remove plastic cover by squeezing the fingergrab area in the middle of the wiring module to disengage the internal hook from the housing.
2. Remove the two (2) small screws securing the cover plate to the housing and swing out.
3. Remove access plate from the back of the fixture housing.
4. On WML models, attach supplied NM/FMC connector (D, E, F) to access panel. On WMD models, use standard 3/8" conduit fitting. Refer to figure above.
5. Secure the proper length of supply wire to the NM/FMC connector using connector-provided screws for FMC or screws (B) for NM wire. Re-install the access plate.
6. Connect supply wires to wiring module wires using appropriate wire nuts. Notice wire labels and color to ensure correct wires are connected—especially in two-circuit applications. Make sure secure ground connection is made.
7. Push wires neatly into wiring module and reinstall cover plate and plastic cover.
8. Return to Section I – Mounting Procedure, Step 8 for mounting the Stratalume Connects™ light fixtures.



**C. Final Assembly**

After all fixtures have been mounted and tested for operation, install the plastic end cover(s) over any exposed end to hide electrical connectors and mounting hardware. Both left and right end covers simply snap into their respective ends. Refer to fixture instructions for the end cover removal procedure.

**MAXIMUM SERIES RUN INSTALLATION**

**Maximum Series Run Allowance**

This supplementary instruction sheet applies to all series-mount Stratalume Connects™ fixtures intended to be continuous-row mounted. Series-mount fixtures can be identified by the male and female electrical connectors at the ends of each fixture. The Maximum Units quantity specified on the fixture label refers to the highest-current-draw fixture for the particular fixture series. If the installation does not contain this situation, refer to Table 1 to determine the maximum allowable series-run for the particular lamp(s) and voltage applicable in the installation. The Maximum Units quantity assumes that all fixtures in the series run are identical. If fixtures are different, add up the current ratings of each fixture. To reduce the risk of fire, the total current draw for all fixtures must be less than 6 Amps per continuous run.

FIXTURE SERIES	MODEL	LAMP	MAXIMUM UNITS IN SERIES RUN			FIXTURE CURRENT DRAW (A)		
			120V	277V	347V	120V	277V	347V
AUCSL/AUCDL	14	(1) F8T5	75	-----	-----	0.08	-----	-----
	23	(1) F13T5	50	-----	-----	0.12	-----	-----
	25	(1) F14T5	37	85	-----	0.16	0.07	-----
	25HO	(1) F24T5HO	31	60	-----	0.19	0.1	-----
	27	(2) F8T5	37	-----	-----	0.16	-----	-----
	36	(1) F8T5 + (1) F13T5	30	-----	-----	0.2	-----	-----
	37	(1) F21T5	26	37	-----	0.23	0.16	-----
	37HO	(1) F39T5HO	17	40	-----	0.34	0.15	-----
	45	(2) F13T5	25	-----	-----	0.24	-----	-----
	48	(1) F28T5	20	42	-----	0.3	0.14	-----
	48HO	(1) F54T5HO	11	26	31	0.53	0.23	0.19
60	(1) F35T5	17	40	-----	0.34	0.15	-----	
AUCSD/AUCDD	14	F18TT	16	-----	-----	0.37	-----	-----
	17	F27TT	33	60	-----	0.18	0.1	-----
	26	F17T8	30	75	-----	0.2	0.08	-----
	27	F40TT	17	40	-----	0.34	0.15	-----
	38	F25T8	23	54	66	0.26	0.11	0.09
	50	F32T8	20	46	50	0.29	0.13	0.12
AUCLED	12	LED12	46	-----	-----	0.13	-----	-----
	18	LED18	30	-----	-----	0.19	-----	-----
	24	LED24	23	-----	-----	0.26	-----	-----
	30	LED30	18	-----	-----	0.32	-----	-----
	36	LED36	15	-----	-----	0.39	-----	-----
	42	LED42	13	-----	-----	0.45	-----	-----
48	LED48	11	-----	-----	0.52	-----	-----	



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**CUSTOMER SERVICE**

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For technical assistance, call 1-800-4KENALL (1-800-453-6255).

**WARRANTY**

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This product is warranted by Kenall to be free of defects in workmanship and materials for a period of one (1) year from the date of the invoice. LED lamps and internal power regulation components are warranted for a period of five (5) years from the date of the invoice against defects in materials and workmanship.

Kenall reserves the right to issue credit, repair, or replace the defective merchandise, at its discretion, upon notification and confirmation by its local representative of the defect. Kenall also reserves the right to test and examine the defective product if the defect is questionable and to deny the warranty herein for any product altered, improperly installed, installed in applications for which it is not intended. This includes operation in ambient temperatures above stated limits for any length of time. Failure by electrical surge shall not be covered under warranty.

Kenall assumes no responsibility for labor or freight costs incurred in connection with the installation, removal, or replacement of products determined to be defective or any other consequential or incidental damages arising from the use of the product. Kenall's entire liability on any claim of loss or damage resulting from a defective product is limited to the replacement price of the product.

