

### 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.

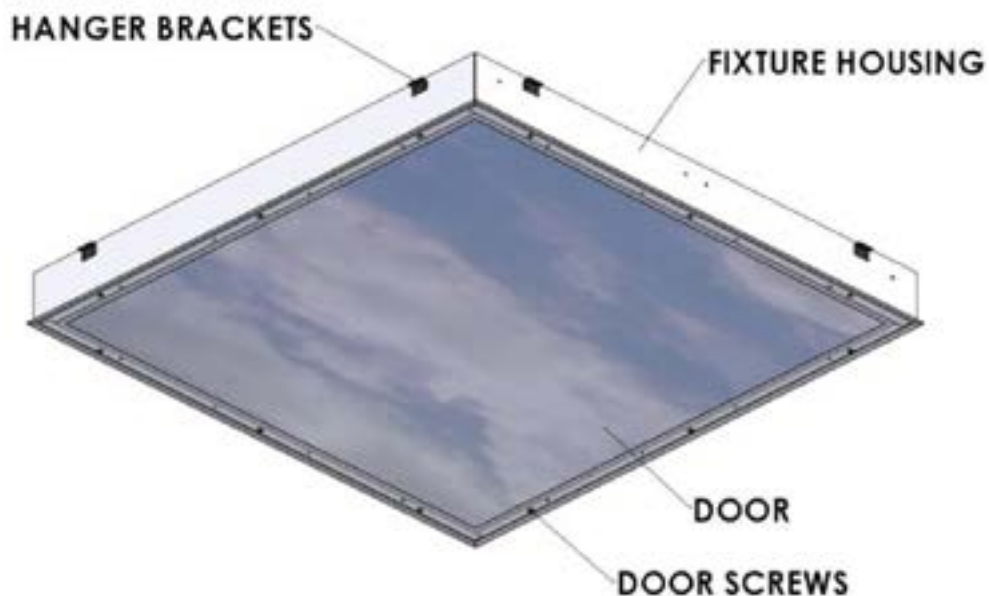
## INSTALLATION INSTRUCTIONS

### SAVE THESE INSTRUCTIONS

#### IMPORTANT SAFETY PRECAUTIONS

1. Disconnect power to all circuits before wiring fixture.
2. Install in accordance with all national, state, and local codes.
3. Do not connect to an ungrounded supply.
4. Fixture is intended for recessed ceiling grid mounting. Failure to install on a mechanically-sound surface may result in personal injury, fixture damage, potential fire hazard.
5. 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.

#### TERMINOLOGY



**I. FIXTURE MOUNTING PROCEDURE**

CleanScene™ CS44 fixture is designed for either 1" or 1½" (G10 or G15 respectively—see fixture label) T-bar grid systems with vertical grid T thickness of less than ¼". Grid system surrounding fixture should have standard 48"×48" centerline spacing.

Use the following procedure to install the fixture(s) into the ceiling grid:

1. Unpack all fixtures from the shipping carton.
2. Determine where fixture(s) will be mounted and note the desired orientation of graphic images within room.

NOTE: For installations with multiple-fixture configurations (the image is divided among multiple fixtures), make sure fixtures are oriented to produce a continuous image.

3. It is recommended that the door remain attached to the fixture housing during installation.
4. Lift fixture into ceiling structure using a recommended minimum of two able-bodied individuals.
5. Lay fixture into grid.
6. Attach support wires between hanger brackets and ceiling support structure.

**II. ELECTRICAL CONNECTION**

WARNING: Make sure all power is disconnected before making electrical connection to fixtures.

7. After lightbox is mounted and secured, open fixture door to gain access to the graphic and exam compartments. See Section III for procedure. Completely removing door from fixture is not necessary for this step. Each wire is labeled and for easy identification.
8. Make supply connections. Make sure proper ground is connected.

NOTE: If dimming fluorescent ballasts were ordered with this fixture, the fixture label will contain the code "DM7" or "DM10" in the description. DM7 ballasts require connection to a 0-10V dimmer and purple/gray leads will be present in the fixture. DM10 ballasts can be connected to a line-voltage, phase-cut dimmer. The dimmer used should be one recommended by the ballast manufacturer.

9. Reinstall wire cover and fixture door. See next Section for procedure.

**III. DOOR OPENING, CLOSING AND REMOVAL PROCEDURE**

The CleanScene™ CS44 door was designed to allow for quick, one-person opening, closing, and removal for fixture maintenance. It contains an internal door hinge and/or spring clips to allow the servicer to unfasten the door screws without having to support the door itself.

OPENING THE DOOR

10. Unfasten all door screws. The screws contain a captive washer which prevents it from falling out of the door. Only unfasten to the point where the screw is disengaged from the fixture housing. Door will now hang freely about 1½" below the fixture housing.
11. Disengage spring clips from fixture housing on one side of the door. This will allow the door to pivot down (see WARNING).

WARNING: Do not allow the door to swing down freely. Serious personal or property damage may occur. Pivot door slowly until it rests vertically.

12. Perform internal maintenance with door hanging vertically. To change graphic image the door will need to be removed.



**REMOVING THE DOOR**

13. Open door following instructions in the previous section.
14. With door hanging vertically, grasp sides of door frame and lift vertically to disengage the door catch hooks from the housing. The door is now detached from the fixture housing. See Figure 1.



Figure 1 - Internal Door Hinge

15. Lay door flat on a protected surface while performing maintenance.
16. If the intent of removing the door is to change the graphic image, please refer to Section IV.

**INSTALLING THE DOOR**

17. Grasping the sides of door frame, lift door with the catch arms upward.
18. Hook catch arms into housing flange so that catch arms rest on housing flange and engage the mating slots on the housing.
19. The door should now hang freely. Check for proper engagement of catch hooks before closing door.

**CLOSING THE DOOR**

20. With catch hooks properly engaged into housing, swing door from the bottom end, up until the spring clips on the opposite side meet the housing flange.
21. Squeeze spring clips and insert into slots on housing flange (located near the lens gasket). Door will now hang horizontally below the fixture approximately 1½".

22. Push up on one side of the door so that the captive lens screws meet the cage nuts attached to the housing.
23. Fasten lens screws into place by working around the perimeter. No specific fastening order is required.
24. Check to ensure that all screws are adequately tightened to maintain ratings on fixture. All screws should be equally torqued—do not over-torque.

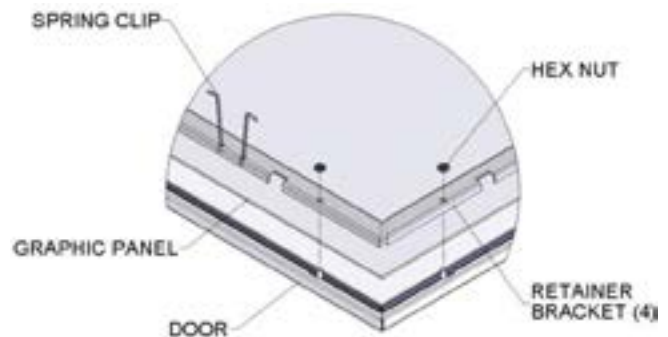
**IV. CHANGING THE GRAPHIC IMAGE PANEL**

The graphic panel may need to be changed periodically due to desired change of appearance and/or UV degradation. Use the following procedure to replace the graphic panel.

25. Unfasten and remove door following the procedure in Section III.

**WARNING:** Handling the graphic panel should be done in a clean, dust-free environment to prevent trapped particles entering between the clear lens and graphic panel. Handle with extreme care by using protective measures. Solvents and oils from the skin may permanently damage the graphic image.

26. Remove hex nuts from all four (4) retaining brackets on the back side of the door. See Figure 2.
27. Remove retaining brackets, clear lens, and existing graphic panel.
28. Install new graphic panel.
29. Check for dust or contaminants on the clear lens surface. Clean if necessary following procedure in Section V.



30. Reinstall retaining brackets. Make sure internal hinge/spring clips are installed on opposite sides of each other and, when reinstalled into the fixture, will put the image in the correct orientation.
31. Fasten all hex nuts to retainer brackets. Torque all fasteners equally to 12 lb-in.
32. Reinstall door and fasten lens screws.

## **V. CLEANING THE LENS AND GRAPHIC PANEL**

Use the following procedure to properly clean the graphic panel and the clear acrylic lens. This should be done in a clean, dust-free environment to avoid additional contamination.

**WARNING:** The printed side of the graphic panel is a sensitive photographic film. Handle with extreme care. Avoid contact with solvents and oils from the skin as they may permanently damage the image.

33. Remove graphic panel from door.
34. Gently wipe down panels with a clean, damp micro-fiber cloth. Hard wiping and abrasive cloths will scratch the film and clear lens.
35. For heavier smudges and residue, use a diluted mild dish soap solution. Afterward, rinse-off solution with a clean, damp micro-fiber cloth.
36. Dry panels with a clean, dry micro-fiber cloth.

## **CUSTOMER SERVICE**

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

## **WARRANTY**

For warranty information visit [www.kenall.com/Resources/Certified-Performance-Warranties](http://www.kenall.com/Resources/Certified-Performance-Warranties)

