

The 24-inch dimension in the clothes closet storage space is intended to cover the clothes-hanging space, even if no clothes-hanging rod is installed. If such a rod is installed, the space extends from the floor to the top of the highest rod. If no clothes-hanging rod is installed, the space extends from the floor to a height of 6 feet.

In addition to the space in which clothing is hung from the closet pole or rod, this definition also establishes a 12-inch-wide shelf space to cover those installations where shelving is not in place at the time of fixture installation. If shelving is installed and the shelves are wider than 12 inches, the greater width must be applied in establishing this space.

The storage space for closets that permit access to both sides of the clothes-hanging rod is based on a horizontal plane extending 12 inches from both sides of the rod, from the rod down to the floor. This equates to the 24-inch space required for the closet rod where there is only one direction of access.

**(B) Luminaire Types Permitted.** Only luminaires of the following types shall be permitted in a clothes closet:

- (1) Surface-mounted or recessed incandescent or LED luminaires with completely enclosed light sources
- (2) Surface-mounted or recessed fluorescent luminaires
- (3) Surface-mounted fluorescent or LED luminaires identified as suitable for installation within the clothes closet storage space

**(C) Luminaire Types Not Permitted.** Incandescent luminaires with open or partially enclosed lamps and pendant luminaires or lampholders shall not be permitted.

**Δ (D) Location.** The minimum clearance between luminaires installed in clothes closets and the nearest point of a clothes closet storage space shall be as follows:

- (1) 300 mm (12 in.) for surface-mounted incandescent or LED luminaires with a completely enclosed light source installed on the wall above the door or on the ceiling.
- (2) 150 mm (6 in.) for surface-mounted fluorescent luminaires installed on the wall above the door or on the ceiling.
- (3) 150 mm (6 in.) for recessed incandescent or LED luminaires with a completely enclosed light source installed in the wall or the ceiling.
- (4) 150 mm (6 in.) for recessed fluorescent luminaires installed in the wall or the ceiling.

*Exception: Surface-mounted fluorescent or LED luminaires shall be permitted to be installed within the clothes closet storage space where identified for this use.*

These requirements are intended to prevent hot lamps or parts of broken lamps from coming in contact with combustibles such as boxes, cartons, and blankets stored on shelves and with clothing hung in closets. The clearance measurement for each requirement in 410.16(D) is to the luminaire, not to the lamp itself.

A luminaire in a clothes closet is not mandatory. If one is installed, however, the conditions for installation are as required by 410.16(D).

**410.18 Space for Cove Lighting.** Coves shall have adequate space and shall be located so that lamps and equipment can be properly installed and maintained.

Adequate space is necessary to allow easy access for relamping luminaires or replacing lampholders, ballasts, and so forth. Adequate space also improves ventilation.

### Δ Part III. Luminaire Outlet Boxes, Canopies, and Pans

**410.20 Space for Conductors.** Canopies and outlet boxes taken together shall provide sufficient space so that luminaire conductors and their connecting devices are capable of being installed in accordance with 314.16.

UL 1598, *Standard for Safety for Luminaires*, allows junction boxes and splice compartments that are integral to luminaires to have less free volume than required in 314.16. Section 314.16 applies to general-purpose boxes and conduit bodies where installed conductors and devices are variable, while the conductors and devices that will be contained within a luminaire junction box are known.

**410.21 Temperature Limit of Conductors in Outlet Boxes.** Luminaires shall be of such construction or installed so that the conductors in outlet boxes shall not be subjected to temperatures greater than that for which the conductors are rated.

Branch-circuit wiring, other than 2-wire or multiwire branch circuits supplying power to luminaires connected together, shall not be passed through an outlet box that is an integral part of a luminaire unless the luminaire is identified for through-wiring.

Informational Note: See 410.64(C) for wiring supplying power to luminaires connected together.

Branch-circuit conductors run to a lighting outlet box are not permitted to be subjected to temperatures higher than those for which they are rated. Examples of these are conductors that are rated 75°C and that supply a ceiling outlet box for the connection of a surface-mounted luminaire or are attached to the outlet box of a recessed luminaire. Listed recessed luminaires with integral boxes will specify the minimum wire gauge and insulation temperature and the maximum number of conductors to account for the heat-contributing factor of the supply conductors.

Exhibit 410.3 illustrates luminaires listed for a feed-through installation.

**410.22 Outlet Boxes to Be Covered.** In a completed installation, each outlet box shall be provided with a cover unless covered by means of a luminaire canopy, lampholder, receptacle that covers the box or is provided with a faceplate, or similar device.

**410.23 Covering of Combustible Material at Outlet Boxes.** Any combustible wall or ceiling finish exposed between