

Lighting Systems: Luminaires

The objective of this quiz is to help students identify characteristics of luminaires, be able to identify primary function and operating principles, understand how site and user affect specifications, maintenance, understand the relationship between luminaires and LEED Certifications, and finally the advantages and disadvantages of each option.

1 1 point

Many industrial designers, architects, and interior designers have been challenged to design a luminaire that successfully addresses which of the following issues?

- Directing lighting up or down
- Flooding a space with light
- Spotlighting a small art piece on a table
- All of the above
- None of the above.

2 1 point

Which of the following is **NOT** a factor affecting the distribution of illumination in luminaires?

- Materials and finish of a luminaire
- The shape of the luminaire
- The mounting position of a luminaire
- The location and size of the aperture of a luminaire
- The purpose of the luminaire

3 1 point

Which of the following is **NOT** considered a major category of luminaire?

- Structural
- Direct and Indirect
- Recessed
- Furniture-integrated units
- Suspended track

4 1 point

Recessed luminaires are fixtures that are installed_____.

- Surface mounted to the ceiling's sheetrock
- Surface mounted to the wall
- Suspended from the ceiling's sheetrock
- Above the sheetrock or suspended-grid ceiling.

5 1 point

Recessed luminaires generally create direct lighting in a space. Which of the following are considered the most common?

- Up-lights, downlights, angled lights, and recessed lights
- Troffers, recessed lights, spotlights, and angled lights
- Recessed lights, wall washers, angled lights and spotlights
- Angled lights, recessed lights, downlights, and troffers
- Troffers, downlight, spotlights, and wall washers

6 1 point

Wall washer luminaires should be located at least ____ inches from the wall to prevent hot spots

- 18"
- 42"
- 48"
- 30"
- 12"

7 1 point

For wall washers the distance from the luminaire to the wall and between luminaires should be approximately _____ the height of the ceiling.

- One-third
- One-quarter
- One-eighth
- Two-thirds
- One-half

8 1 point

Which is **NOT** an advantage of a recessed luminaire

- Can be located anywhere in the ceiling without regard to any other systems
- Can direct light to a variety of locations while maintaining the appearance of a clean ceiling line.
- Can often make a space appear larger.
- Can provide task lighting for an area that has a decorative luminaire.
- Miniature luminaires can be hidden to promote an element of mystery.

9 1 point

Surface-mounted luminaires are designed for the following use.

- Direct lighting
- Indirect lighting
- Semi-direct lighting
- All of the above
- None of the above

10 1 point

For safety purposes and to comply with the American Disabilities Act (ADA), Sconces that are mounted less than 80" AFF should project no more than _____ Inches from the wall.

- 7
- 6
- 4
- 10
- None of the above

11 1 point

Exposed lamps can be problematic when shielding devices for sconces are thin, and translucent materials and illumination level is high. Which of the following can be used to help prevent glare?

- Diffusers
- Ballast
- Baffles
- both A and C
- All of the above

12 1 point

Suspended luminaires can emit which of the following type of light

- Infused lighting
- Direct Lighting
- Simi-direct lighting
- Both B and C
- All of the above

13 1 point

Which of the following statement regarding suspended luminaires is **incorrect**?

- The height of the ceiling and scale of a room should not be a factor in determining an appropriate distance
- To avoid spots, or glare, suspended luminaires giving direct lighting should be mounted 18" from the ceiling.
- The distance from a dining table to bottom of the luminaire should be 30" or more.
- Suspended lighting in a circulation area should be at least 80" from the floor.

14 1 point

Track luminaires are fixtures that contain which of the following components?

- Multiples heads
- Light emitting diodes
- Electrical raceway
- Both A and C
- None of the above

15 1 point

Track luminaires have evolved to designs that include:

- Hi-voltage cable
- rail systems
- Low-voltage systems
- Floor systems
- Both B and C

16 1 point

Which of the following is not considered a major type of structural luminaires?

- Cove Lightng
- Cornice Lighting
- Wallslot
- Suspended lighting
- All of the above

17 1 point

Furniture-intergrated luminaires are mounted in a cabinet and generally hidden from view. Which of the following is **NOT** considered a common furniture-integrated luminaire?

- Curio Cabinets
- Office systems
- Bookcases
- Breakfronts
- Tables

18 1 point

Fiber optic lighting uses a remote source for illumination, from which light is transmitted to a bundle of optical fibers. The light sources used for fiber optics is housed in a box called_____.

- Activator
- Remitter
- Illuminator
- Transmitter

19 1 point

Portable luminaires include tables and floor fixtures and are primarily used in residential interiors, hotels, restaurants, and private offices. In specifying portable luminaires, the designer must consider the following.

- The design of the fixture.
- The relationship of the fixture to the other elements in the space.
- The appropriate location for the intended location.
- All of the above
- None of the above

20 1 point

Ideally lighting is considered at what stage of the design process?

- End
- Middle
- Beginning