\_\_\_\_\_ is an automatic control strategy in which a control system responds to a signal from the local utility to reduce electric load during a grid emergency.

Daylight harvesting

Demand response

Adaptive compensation

Lumen maintenance dimming

Research suggests that a majority of users are not likely to perceive a modest reduction in light level introduced via automatic dimming.

Choose one

True

False

It is recommended that fluorescent lamps be \_\_\_\_\_ prior to dimming.

Seasoned

Switched

Balanced

Recycled

Continuous dimming enables users to raise and lower light levels over a specified range. Typically, the change between light levels can be characterized as \_\_\_\_\_.

Smooth, seamless fade between light levels

Abrupt change between light levels

Research studies indicate that \_\_\_\_\_ results in greater job and environmental satisfaction among office workers.

Daylight harvesting

Demand response dimming

Adaptive compensation dimming

Giving users the ability to select light levels

The most efficient dimmable electronic ballasts for 4-ft. T8 lamps can be easily identified by looking for the \_\_\_\_\_ mark on the product’s labeling and literature.

UL

NEMA Premium

ENERGY STAR

Lighting for Tomorrow

Automatic dimming is typically driven by \_\_\_\_\_ needs.

Visual needs (aesthetics, mood setting, flexibility, A/V presentations, etc.)

Energy management needs (save energy)

As lamps are dimmed, light output decreases but the human eye may perceive a higher light output and light level than is actually present. The effect is predictable according to \_\_\_\_\_.

Manufacturer dimming curves

Lamp efficacy

The dimming law

The square law

Manual dimming is typically driven by \_\_\_\_\_ needs.

Visual needs (aesthetics, mood setting, flexibility, A/V presentations, etc.)

Energy management needs (save energy)

Dimming cold cathode lamps requires a \_\_\_\_\_.

Solid-state lighting driver

Dimmable ballast

Low-voltage transformer

Plug load controller

Dimming LED sources may result in \_\_\_\_\_.

Extended service life

Delay in color shift that occurs over time with phosphor-coated LEDs

An increase in light output and efficacy at low end of dimming range

All of the above

NEMA recommends that fluorescent lamps be operated continuously \_\_\_\_\_ prior to dimming.

About 8 hours, or all day

About 12 hours, or overnight

About 24 hours, or a full day

About 100 hours

\_\_\_\_\_ is an automatic lighting control strategy that involves reducing light levels at night in spaces with non-critical tasks based on research that people prefer and need less light at night than during daytime.

Daylight harvesting

Demand response

Adaptive compensation

Lumen maintenance dimming

HID lamps may experience \_\_\_\_\_ during dimming.

Reduction in efficacy

Color shift, particularly in clear lamps

Lower CRI, particularly in clear lamps

All of the above

Step dimming provides two or more preset increments between OFF and full light output. Typically, the change between light levels can be characterized as \_\_\_\_\_.

Smooth, seamless fade between light levels

Abrupt change between light levels

Continuous dimming ballasts for HID lamps typically dim to \_\_\_\_\_ of lamp power.

1%

10-50%XXX

20-40% XXX

50-70%

\_\_\_\_\_ is an automatic lighting control strategy that uses a photosensor to monitor light levels and adjust electric light output to maintain a target light level, saving energy.

Daylight harvesting

Demand response

Adaptive compensation

Lumen maintenance dimming

Incandescent dimmers dim lamps using the \_\_\_\_\_ method.

0-10VDC

Wireless

Phase control

None of the above

Always ensure that the lamps, ballasts/drivers/transformers and their dimming controls are \_\_\_\_\_.

Energy-efficient

ENERGY STAR-rated

Rated as compatible

All of the above

\_\_\_\_\_ is an automatic control strategy that typically involves using a photosensor to monitor light level and automatically compensate for lamp lumen depreciation.

Daylight harvesting

Demand response

Adaptive compensation

Lumen maintenance dimmin