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IES Lighting Levels Guidelines

IES Recommended Light Levels. A footcandle (fc), the most common unit of measure used for quantifying light levels, is a measure of illuminance with one footcandle being equal to one lumen per square foot. The

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Illuminating Engineering Society (IES) has established recommended average maintained footcandle levels for a broad range of applications to ensure adequate illumination and safety for occupants.

IES Recommended Light Levels - LED Lighting Retrofit Services

Lighting Energy
Management;

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LEM-3-13: IES
Guidelines for
Upgrading Lighting
Systems in Commercial
and Institutional
Spaces: LEM-7-13:
Lighting Controls for
Energy Management :
Technical Memoranda;
TM-1-12: The Five
Lighting Metrics:
TM-12-12: Spectral
Effects of Lighting on
Visual Performance at
Mesopic Light Levels:
TM-15-11

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IES Lighting Library - Illuminating Engineering Society

The table below provides recommended light levels from the IESNA Lighting Handbook and LPD levels from the IECC 2015. Check your local jurisdiction for other or more stringent requirements. The US General Services Administration provides lighting levels and LPDs for US

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Government buildings, which can be used as a guide for other types of buildings.

Recommended Lighting Levels in Buildings - archtoolbox.com

through supplementary task lighting, as opposed to simply increasing the light output from an overhead fixture.

IESNA recommends the following light levels

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for various tasks:

Public Spaces 3 fc

Simple Orientation for

Short Visits 5 fc

Working Spaces for

Simple Visual Tasks 10

fc Tasks with High

Contrast and Large

Size 30 fc

General Lighting Recommendations

Kitchen Lighting. The

IESNA recognizes the

need for two levels of

task lighting in a

kitchen: Category D for

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general lighting and Category E for such critical tasks as reading labels and recipes, and slicing and dicing food. According to Table 1, 80 lm/ft² is recommended for kitchens.

Guidelines To Residential Room Lighting | EEP

Please refer to the IES Lighting Handbook for more detailed evaluation. The

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amount of light falling on a surface is “illuminance”, and is measured in lux (metric unit = lumen/m²) or foot-candles (English unit = lumen/ft²). 1 footcandle equals 10.8 lux.

Lighting Level Recommendations, Footcandle Requirements ...

We give below a summary of the

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lighting illuminance levels in footcandles, as that is the most common unit used in the United States. However, lux is the preferred international unit, and the IES does officially recommend its use in the United States. A level of ten lux is about one footcandle ($10.76 \text{ lx} = 1 \text{ fc}$, exactly).

Recommended Lighting Levels for

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Exterior Lighting

Engineering Society (IES) recommends the following footcandle levels to ensure adequate illumination and safety for occupants. Below is a guideline for common areas to assist in achieving appropriate light levels with the greatest energy-efficiency . Building Area & Task Average Maintained Footcandles

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(Horizontal) (FC) Range
of Maintained
Footcandles

FOOTCANDLE LIGHT GUIDE - Lighting Design Lab

Standard 90.1 Lighting
Scope New
Construction and
Additions All
commercial type
buildings including
residential structures
of 4 or more stories
above grade Interior
and exterior lighting

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Some exceptions to all requirements: Lighting in dwelling units
Emergency lighting that is normally off
Lighting required by life, health, safety statute

ANSI/ASHRAE/IESNA Standard 90.1-2007 An Overview of the

...

Based on your facility, there are recommended light levels. The levels are

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based on a unit of measure called foot candles (fc) or lumens (lm). This rating quantifies how much light is in an area. The following selected foot-candle ranges represent the Illuminating Engineer Society's (IES) current illumination recommendations.

**Recommended Light
Levels - Wayne
Electric Company**

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The IES eLearning Portal Recipient of the LIA 2020 Judge's Citation Award The IES is proud to announce that our eLearning Portal is the recipient of the Judge's Citation as part of the 2020 LightFair Innovation Awards program. The judges thought the portal was an "it's about time" announcement.

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Engineering Society - The Lighting Authority

light plus specialized
supplementary lighting
(k) Or not less than 1/5
the level in adjacent
areas IES Footcandle
Recommendations

IES Footcandle Recommendations - PG enlighten

Additional lighting
equipment is often
necessary to
compensate the low

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levels. Earlier it was common with light levels in the range 100 - 300 lux for normal activities. Today the light level is more common in the range 500 - 1000 lux- depending on activity. For precision and detailed works, the light level may even approach 1500 - 2000 lux.

Recommended Light Levels

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IESNA TM-10-00:
Addressing Obtrusive
Light (Urban Sky Glow
And Light Trespass) In
Conjunction With
Roadway Lighting As it
is an agglomeration of
numerous subjects that
previously existed as
individual standards
documents, ANSI/IES
RP-8-18 takes an
expansive and
comprehensive
approach towards
making roadway
lighting suitable to

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assure public safety.

ANSI/IES RP-8-18: Design Of Roadway Facility Lighting ...

RP-28 Lighting and the
Visual Environment for

Senior Living RP-33

Lighting for Exterior

Environments RP-20

Lighting for Parking

Facilities RP-8 Roadway

Lighting DG-10

Choosing Light Sources

for General Lighting

G-1 Guidelines on

Security Lighting for

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People, Property and
Public

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These older lighting systems are designed to accommodate paper-based reading tasks at light levels of 750-1000 lux. Current office operations primarily involve computer based and higher quality printed tasks such that overhead lighting can be reduced to between 300 and

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Requirements for Lighting Levels

Limit light to spill across the property lines. Light levels at the property line should not exceed 0.1 footcandles (fc) adjacent to business properties, and 0.05 fc at residential property boundaries. Utility leased floodlight fixtures mounted on public utility poles in

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the public right-of-way should not be used. 7.

GUIDELINES FOR GOOD EXTERIOR LIGHTING PLANS

IES publishes lighting specification for sports fields and venues. The level of detail in the lighting specification is exactly what specifiers will need to deliver excellent illumination in sports and recreation venues. For example, the

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document describes lighting specifically for boxing and wrestling and classifies them as ground-based sports.

IES publishes lighting specification for sports fields and

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Look for opportunities to re-zone the space for occupancy and daylighting control. 3. For retrofit or redesign projects, the new design should produce

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acceptable light quality
by: aintain M ing
uniformity Providing for
glare control Improving
color rendering. 0%
20% 40% 60% 80%
100% 120%.

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