



SYSTEMS APPROACH

DAYLIGHTING SYSTEMS

Daylighting has a major impact on a building’s functionality from many perspectives – not only on energy costs associated with illumination and space conditioning, but it also may enhance the building’s comfort, ambience, and the productivity of its occupants.

Daylighting systems incorporating sidelighting from windows or clerestories, and toplighting from skylights or roof monitors are eligible for incentives. The kWh savings estimates are based on the kW of lighting controlled, the Performance Index (PI) of the glazing (visible light transmittance/solar heat gain coefficient), and the total area of high-performance glazing.

Incentives for daylighting systems are calculated using \$0.04 per annualized kWh savings and will also receive \$100 per peak KW saved for all measures, subject to all applicable caps.

ELIGIBILITY REQUIREMENTS:

- For sidelighting, glazing must have a minimum Performance Index of 1.28.
- For toplighting, glazing must have a minimum Performance Index of 0.80.
- For toplighting with skylights, apertures must comprise at least 2% of the roof area above spaces to be daylit.
- Photocontrols must regulate primary luminaires in the daylit area(s) as defined by Title 24.
- Photocontrols must be capable of automatically adjusting illuminance levels, and must have both deadband and time delay features as defined by Title 24.
- Skylighting that is necessary to achieve compliance with Title 24 standards are not considered in the LPD reduction calculation.



INTERIOR LIGHTING SYSTEMS

Interior lighting is a major component of any building’s energy use. Thoughtful attention to illumination requirements within the building, along with thorough specifications for efficient components and appropriate controls, can substantially minimize energy usage while enhancing the functionality of interior spaces.

To qualify for *owner incentives*, projects need to achieve at least a 10% reduction in the building’s lighting power density (LPD). The system must still provide adequate light levels as recommended by the Illuminating Engineering Society.

Incentives for interior lighting systems are calculated using \$0.05 per annualized kWh savings and will also receive \$100 per peak KW saved for all measures, subject to all applicable caps.

The following lighting measures should be considered in an efficient lighting system design, and may qualify for incentives:

- High-efficiency lamps
- Efficient ballasts
- Occupancy sensors
- Photoelectric dimming controls
- Improved lighting design

LIGHTING GUIDELINES

Type of Use	2005 T24 Allowance	SAVINGS BY DESIGN Maximum W/sf
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COMPLETE BUILDING METHOD

Auditoriums	1.50	1.35
Convention Centers	1.30	1.17
Financial Institutions	1.10	0.99
General Commercial/Industrial: High Bay	1.10	0.99
General Commercial/Industrial: Low Bay	1.00	0.90
Grocery Stores	1.50	1.35
Hotel	1.40	1.26
Industrial/Commercial Storage Buildings	0.70	0.63
Medical Buildings and Clinics	1.10	0.99
Office Buildings *	0.90	0.81
Parking Garages	0.40	0.36
Religious Facilities	1.60	1.44
Restaurants	1.20	1.08
Retail/Wholesale Stores	1.50	1.35
Schools	1.20	1.08
Theaters	1.30	1.17
All others	0.60	0.54

AREA CATEGORY METHOD

Auditorium	1.50	1.35
Auto Repair	1.10	0.99
Civic Meeting Place	1.30	1.17
Classroom/Lecture/Training/Vocational Rooms	1.20	1.08
Commercial/Industrial Storage	0.60	0.54
Convention/Conference/Multipurpose/Meeting Centers	1.40	1.26
Corridors/Restrooms/Stairs and Support Areas	0.60	0.54
Dining	1.10	0.99
Electrical/Mechanical Rooms	0.70	0.63
Exercise Center/Gymnasium	1.00	0.90
Exhibit/Museum Areas	2.00	1.80

AREA CATEGORY METHOD CONT'D.

Financial Transactions	1.20	1.08
General Commercial/Industrial: High Bay Work	1.10	0.99
General Commercial/Industrial: Low Bay	1.00	0.90
General Commercial/Industrial: Precision	1.30	1.17
Grocery Sales	1.60	1.44
Hotel Function Area	1.50	1.35
Housing: Dormitory/Senior Housing Common Areas	1.50	1.35
Housing: Multifamily Common Areas	1.00	0.90
Kitchen, Food Preparation	1.60	1.44
Laundry	0.90	0.81
Library Reading Areas	1.20	1.08
Library Stacks	1.50	1.35
Lobby: Hotel	1.10	0.99
Lobby: Main Entry	1.50	1.35
Locker/Dressing Room	0.80	0.72
Lounge/Recreation	1.10	0.99
Malls and Atria	1.20	1.08
Medical/Clinical Care	1.20	1.08
Office *	1.00	0.90
Parking Garage	0.40	0.36
Religious Worship	1.50	1.35
Retail Merchandise Sales, Wholesale Showrooms	1.70	1.53
Tenant Lease Space	1.00	0.90
Theaters: Motion Picture	0.90	0.81
Theaters: Performance	1.40	1.26
Transportation Function	1.20	1.08
Waiting Area	1.10	0.99
All Others	0.60	0.54

* Assumes default reduction of 0.2 Watts/SF for task lighting in office areas

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