

International Energy Conservation Code / Wisconsin Commercial Building Code
Division of Industry Services Wisconsin Department of Safety & Professional Services

Project Name

Energy Efficiency Worksheets (Check-mark as appropriate)

- L-1 Index Sheet - Energy Conservation
- L-2 Mandatory Controls - Locations and Types
- L-3 Lighting Schedule
- L-4 Interior Lighting Power Allowance
- L-5 Exterior Lighting Summary Worksheet
- L-6 Exterior Lighting Summary Worksheet
- L-7 Installed Exterior Lighting Allowance Worksheet

Supplemental Information:

Worksheet L-2 or similar information is required on the drawings or on a separate form for all lighting energy submittals.

Worksheets L-3 to L-7 are optional. The information may be included on the drawings, or as part of COMcheck* calculations.

Additional worksheets may be added if needed.

Ink signature and either registration stamp or Master Electrician credential number

Per SPS 361.20(2), plans, specifications, and calculations require the original signature and seal of a Wisconsin Registered Architect, Professional Engineer, or Electrical Designer per SPS 361.31(1), or an original signature and credential identification number of the Master Electrician who designs and installs the system.

Please print name and telephone number of signer

*COMcheck is a federal Department of Energy computer program that can be used to demonstrate energy conservation code compliance online. The program may be downloaded to individual computers. The most recent version of COMcheck must be used to demonstrate IECC compliance with lighting in Wisconsin.

COMcheck may be found at: <http://www.energycodes.gov/comcheck/index.stm>

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Interior Lighting Power Allowance IECC 505.5.2 based on Area Method

Note: If using ASHRAE 90.1-2007, allowable watts/sq ft will vary. Use ASHRAE 90.1 - Table Section 9.6.1 and revise as needed depending on use of Building Area Method or Space-by-Space Method.

A	B	C	D
Building Area Type	Watts/ft²	Area (sq. ft)	Allowed Watts
Automotive Facility	0.9		
Convention Center	1.2		
Court House	1.2		
Dining: Bar Lounge/Leisure	1.3		
Dining: Cafeteria/Fast Food	1.4		
Dining: Family	1.6		
Dormitory	1.0		
Exercise Center	1.0		
Gymnasium	1.1		
Healthcare-Clinic	1.0		
Hospital	1.2		
Hotel	1.0		
Library	1.3		
Manufacturing Facility	1.3		
Motel	1.0		
Motion Picture Facility	1.3		
Multi-Family	0.7		
Museum	1.1		
Office	1.0		
Parking Garage	0.3		
Penitentiary	1.0		
Performing Arts Theater	1.6		
Police/Fire Station	1.0		
Post Office	1.1		
Religious Building	1.3		
Retail	1.5		
Retail Display(floor area)	1.6		
Retail Display(display case/shelf area)	3.9		
School/University	1.2		
Sports Arena	1.1		
Town Hall	1.1		
Transportation	1.0		
Warehouse	0.8		
Workshop	1.4		
TOTALS			

Ft² Area

Watts

Total Allowed Interior Power Allowance _____ W > Proposed Interior Lighting _____ W

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Exterior Lighting Power Allowance IECC 505.6.2

**TABLE 505.6.2(1)
 EXTERIOR LIGHTING ZONES**

INDICATE LIGHTING ZONE	DESCRIPTION
<input type="checkbox"/> 1	Developed areas of national parks, state parks, forest land, and rural areas.
<input type="checkbox"/> 2	Areas predominantly consisting of residential zoning, neighborhood business districts, light industrial with limited nighttime use and residential mixed use areas.
<input type="checkbox"/> 3	All other areas
<input type="checkbox"/> 4	High-activity commercial districts in major metropolitan areas as designated by the local land use planning authority

**TABLE 505.6.2(2)
 INDIVIDUAL LIGHTING POWER ALLOWANCES FOR BUILDING EXTERIORS**

		Zone 1	Zone 2	Zone 3	Zone 4
Base Site Allowance (Base allowance may be used in tradable or nontradable surfaces.)		500 W	600 W	750 W	1300 W
Tradable Surfaces (Lighting power densities for uncovered parking areas, building grounds, building entrances and exits, canopies and overhangs and outdoor sales areas may be traded.)	Uncovered Parking Areas				
	Parking areas and drives	0.04 W/ft ²	0.06 W/ft ²	0.10 W/ft ²	0.13 W/ft ²
	Building Grounds				
	Walkways less than 10 feet wide	0.7 W/linear foot	0.7 W/linear foot	0.8 W/linear foot	1.0 W/linear foot
	Walkways 10 feet wide or greater, plaza areas special feature areas	0.14 W/ft ²	0.14 W/ft ²	0.16 W/ft ²	0.2 W/ft ²
	Stairways	0.75 W/ft ²	1.0 W/ft ²	1.0 W/ft ²	1.0 W/ft ²
	Pedestrian tunnels	0.15 W/ft ²	0.15 W/ft ²	0.2 W/ft ²	0.3 W/ft ²
	Building Entrances and Exits				
	Main entries	20 W/linear foot of door width	20 W/linear foot of door width	30 W/linear foot of door width	30 W/linear foot of door width
	Other doors	20 W/linear foot of door width	20 W/linear foot of door width	20 W/linear foot of door width	20 W/linear foot of door width
	Entry canopies	0.25 W/ft ²	0.25 W/ft ²	0.4 W/ft ²	0.4 W/ft ²
	Sales Canopies				
	Free-standing and attached	0.6 W/ft ²	0.6 W/ft ²	0.8 W/ft ²	1.0 W/ft ²

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Non-Tradable Exterior Lighting Power Allowance IECC 505.6.2

A	B	C	D
Non-Tradable Surfaces Area Description	Allowance (Table 505.6.2)	Area or Linear Feet in Proposed Design	Total (B X C)
Total Wattage			

Tradable Installed Exterior Lighting Power IECC 505.6

A	B	C	D
Fixture Type	Number of Luminaires Installed	Watts per Luminaire (including ballast)	Installed Watts (B X C)
Total Watts			

Total Allowed Exterior Power Allowance _____ W > Proposed Exterior Lighting _____ W

Forms for use with ASHRAE 90.1-2007 as allowed by IECC 501.2, may be downloaded for use at: <http://www.ashrae.org/technology/page/97>