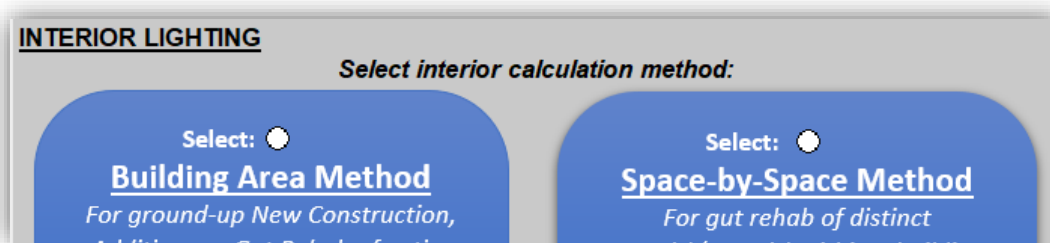


Measure Worksheet Instructions

Start Tab

1. Enter basic project information in the *Building and Project Details* section.
2. Use the radio buttons to select the interior calculation method for the project. Refer to the General Requirements section above for requirements of each calculation method:



Fixture Schedule Tab

Complete the table on this tab with information on each fixture type. Each fixture should be entered on its own row.

Fixture Designation	<ul style="list-style-type: none"> • A unique fixture identifier, typically found in the lighting plans on the Fixture Schedule or assigned by a lighting designer.
Interior or Exterior?	<ul style="list-style-type: none"> • Indicate whether the fixture is used in the building interior or will be installed on the exterior. • For fixtures to be used in both interior and exterior applications, enter the fixture once as interior and once as exterior.
Manufacturer/Model Number	<ul style="list-style-type: none"> • Enter the full and complete manufacturer name and model number for the product to be installed. • The model number should align with the fixture/lamp specification sheet and/or ENERGYSTAR® or DLC® product listing.
Wattage	<ul style="list-style-type: none"> • For LED Complete Fixtures and other lighting types, enter the Fixture Wattage for the complete fixture, including consideration for ballast factor, if applicable. • For LED Lamp/Retrofit Style fixtures, enter the # of lamps per fixture and the wattage of each individual lamp. • In cases of DLC® or ENERGYSTAR® listed fixtures and lamps, the wattage entered on the worksheet should match the rated wattage on the certificate exactly.
QPL Information For LEDs only	<ul style="list-style-type: none"> • <i>These cells require entry for LED fixture types only.</i> • Use the first dropdown field to indicate whether the LED fixture or lamp is listed by DLC®, ENERGYSTAR®, or neither. • If the fixture is listed by either DLC® or ENERGYSTAR®, use the second dropdown field to select the LED Primary Use Category. This can be found directly on the listing for the product.

Interior Lighting

If the **Building Area Method** is selected:

1. Go to the Building Area Method tab.
2. The ASHRAE 90.1-2016 building type and total building square footage are pre-populated from the START tab. If these do not populate, go back to the START tab and make these selections. LPD allowance and Building Wattage Allowance also auto-populate from selections.
3. Fixtures from the Fixture Schedule marked as Interior appear in columns in light blue on this tab. Enter the total quantity of each fixture type found in the building.

Enter total quantity of each fixture type in the building:

Building Wattage Allowance	A1: Fixture1 - 33.01W	A4: Fixture2 - 26W	A5: Fixture3 - 100.12W	A6: Fixture4 - 50W	A8: Fixture6 - 650W	Total Design Connected Load Watts	Space Design Watts
39,500	4	55	6	15	3	1	3,622.76

4. The Total Design Connected Load, Design LPD will automatically calculate based on the quantity of fixtures and wattage per fixture.
5. Compliance to ASHRAE 90.1-2016 baseline and any necessary adjustment based on fixture QPL listing will automatically calculate.

If the **Space-by-Space Method** is selected:

1. Go to the Space-by-Space Method tab.
2. Enter the following information for each interior room on its own row:
 - Location:
 - o Floor Number
 - o Specific Room Name/Number: *a descriptive name for the room. Include room number if applicable.*
 - o Room Square Footage: *The square footage of the specific room. Do not enter square footage for multiple rooms; square footage must be entered on an individual, per-room basis.*

Floor Number	Specific Room Name/Number	Room Square Footage	Multiplier	ASHRAE 90.1-2016 Common/Building-Specific Space Type <small>Select most appropriate description from dropdown</small>
2	Office 201	500	1	Office - Enclosed and more than 250 sq.ft.
2	Office 202	200	1	Office - Enclosed and less than or equal to 250 sq.ft.
2	Restroom - 203	250	1	Restroom - All other

- Multiplier: *The Multiplier column should be used for rooms with identical square footages, space types and lighting designs only (Example: identical classrooms, offices or hotel rooms). To use, enter Room Square Footage of one individual room. Enter the total number of this room type in the building.*

Floor Number	Specific Room Name/Number	Room Square Footage	Multiplier	ASHRAE 90.1-2016 Common/Building-Specific Space Type <i>Select most appropriate description from dropdown</i>
3	Double Rooms - 3rd floor west	325	10	Guest Room

- **ASHRAE 90.1-2016 Common/Building-Specific Space Type:** Use the dropdown to select the most appropriate space type applicable to the space. Common space types are listed first, followed by building-specific space types. When a building-specific space type is available, it must be selected over the common space type.
 - **Atrium Height:** When Atrium space type is selected, enter the height of the atrium in this cell.
3. Fixtures from the Fixture Schedule tab marked as Interior appear in columns in light blue on this tab. Enter the total quantity of each fixture type found in the specific room.
- For spaces using the Multiplier field, enter the total quantity of each fixture type found in *only one* room of this type.

Enter Quantity of each fixture type in the room

	A1: Fixture1... 33.01W	A4: Fixture2... 26W	A5: Fixture3... 100.12W	A6: Fixture4... 50W	A7: Fixture5... 20W	A8: Fixture6... 650W	Total Connected Load
00	1				1		
00	1	3			1		
50					1		
50		1			1		

4. The Total Design Connected Load, Design LPD will automatically calculate based on the quantity of fixtures and wattage per fixture.
5. Compliance to ASHRAE 90.1-2016 baseline and any necessary adjustment based on fixture OPL listing will automatically calculate.

Exterior Lighting

1. Go to the Exterior Lighting tab.
2. Exterior locations as defined by ASHRAE 90.1-2016 are pre-populated in individual rows. The LPD allowance is calculated based on the Exterior Lighting Zone selected from the dropdown on the START tab.
3. For applicable spaces only, enter the size of the space in terms of the unit identified to the left.
 - Certain exterior areas use a metric other than typical square footage to determine lighting power density, such as linear feet. Read the tool-tip note that appears when you click the cell and make sure you are entering a number in terms of the specific units requested.

Building Facades	Sq.Ft.:	400	0.10 W/sqft
ATMs and night depositories	Quantity of ATMs:	2	M
Entrances at guarded facilities	Sq.Ft.:		
Fire, ambulance, and other emergency service vehicles	Sq.Ft.:		
	Quantity of drive:		watts per drive

Building Facades
 Enter total area in square feet of the illuminated facade(s).

4. Fixtures from the Fixture Schedule marked as Exterior appear in columns in light green on this tab. Enter the total quantity of each fixture type found in the specific area:

Area or Location	Size of Space <i>Enter size size of the location in the specified units identified to the left.</i>	LPD Allowance	Exterior Lighting Power Allowance (Watts)	A2: Fixture1... - 12.2w	A3: CPT01A-040-4... - 12.6w	A9: CC/LED/100W/... - 20w	A10: BT-TR75W-50... - 60w	Total Design Connected Load for Space
Parking Areas and drives	Sq.Ft.: 25,000	0.04 W/sqft	1,000.00	15	10			383
walkways/ramps less than 10 ft wide	Linear foot:	0.50 W/linear ft.	-					
Walkways/ramps 10 ft wide or greater	Sq.Ft.: 500	0.10 W/sqft	50.00	2	2			65

- The Total Design Connected Load, Design LPD will automatically calculate based on the quantity of fixtures and wattage per fixture.
- Compliance to ASHRAE 90.1-2016 baseline and any necessary adjustment based on fixture QPL listing will automatically calculate.

Summary Tab

- Total Wattage Allowance and Total Adjusted Proposed Watts automatically carry over from the applicable tabs where fixture quantities were entered.
- The incentive is calculated as \$1/Watt between the difference of allowed and proposed watts.
- Estimated energy savings over baseline are provided per program protocols.