

## ASHRAE 2001 Lighting Power Density Requirements

### Convention Center and Banquet Hall

Convention centers can qualify for EAct Tax Deduction using two methods. In the first, the lighting power density in Watts per square foot is calculated for the entire building, with the gross totals of both Watts and building square footage. In order for a convention center to qualify using this method, the Watts per square foot for the entire building must be at 1.5 W/ft<sup>2</sup> or less.

Using the second method, a convention center can be broken down into separate project spaces, with the lighting power density for each space meeting the ASHRAE 2001 Watts per square foot requirement. Only spaces which meet the Wattage targets can be included, so the tax deduction under this method will be less than using the whole building calculations. However, adhering to the recommended Watts per square for each space type is a good way for lighting designers to make sure their project will meet the ASHRAE 2001 whole building standard. The table below shows the Wattage targets for several space category types commonly found in convention center buildings.

Common Space Type	Bilevel Switching	25% Improvement over ASHRAE 2001 (\$0.30/sq.ft. deduction)	40% Improvement over ASHRAE 2001 (\$0.60/sq.ft. deduction)
<b>Audience/Seating Area</b>	Necessary	0.375	0.30
<b>Conference</b>	Necessary	1.125	0.90
<b>Corridor</b>	Unnecessary	0.525	0.42
<b>Dining Area</b>	Necessary	1.050	0.84
<b>Electrical/Mechanical</b>	Unnecessary	0.975	0.78
<b>Exhibition Area</b>	Necessary	2.475	1.98
<b>Food Preparation Area</b>	Necessary	1.650	1.32
<b>Laundry/Washing</b>	Necessary	0.525	0.42
<b>Lobby</b>	Unnecessary	1.275	1.02
<b>Lounge</b>	Necessary	1.050	0.84
<b>Office (&lt;300 square feet)</b>	Necessary	1.125	0.90
<b>Office (&gt;300 square feet)</b>	Necessary	0.975	0.78
<b>Parking Garage</b>	Unnecessary	0.150	0.12
<b>Restroom</b>	Unnecessary	0.750	0.60
<b>Retail Sales</b>	Necessary	1.575	1.26
<b>Stairs</b>	Unnecessary	0.675	0.54
<b>Storage</b>	Unnecessary	0.825	0.66

Prepared by Energy Tax Savers, Inc.

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