Commercial Energy Lighting Work Sheet

Total Interior Lighting Power Calculated

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City of Arlington Texas

Use the following table to calculate the interior lighting power requirements based on either the floor area of the entire building or the sum of all the separate areas.

BUILDING OR AREA TYPE	ENTIRE BUILDING (W/ft^2)	TENANT AREA OR PORTION OF BUILDING (W/ft^2)
Auditorium	NA	1.8
Automotive Facility	0.9	NA
Bank/financial institution [a]	NA	1.5
Classroom/lecture hall [b]	NA	1.4
Convention, conference or meeting center [a]	1.2	1.3
Corridor, restroom, support area	NA	0.8
Courthouse/town hall	1.2	NA
Dining [a]	NA	0.9
Dormitory	1.0	NA
Exercise center [a]	1.0	0.9
Exhibition hall	NA	1.3
Grocery store [c]	1.5	1.6
Gymnasium playing surface	NA	1.4
Hotel function [a]	1.0	1.3
Industrial work, < 20 ft ceiling height	NA	1.2
Industrial work, ≥ 20 ft ceiling height	NA	1.7
Kitchen	NA	1.2
Library [a]	1.3	1.7
Lobby-hotel [a]	NA	1.1
Lobby-other [a]	NA	1.3
Mall, arcade, or atrium	NA	0.6
Medical and clinical care [b, d]	1.2	1.2
Motel	1.0	NA
Multifamily	0.7	NA
Museum [b]	1.1	1.0
Office [b]	1.0	1.1
Parking garage	0.3	NA
Penitentiary	1.0	NA
Police/fire station	1.0	NA
Post office	1.1	NA
Religious worship [a]	1.3	2.4
Restaurant [a]	1.6	0.9
Retail sales, wholesale showroom [c]	1.5	1.7
School	1.2	NA
Storage, industrial and commercial	0.8	0.8
Theaters-motion picture	1.2	1.2
Theaters-performance [a]	1.6	2.6
Transportation	1.0	NA
Other	0.6	1.0

[a] Where lighting equipment is specified to be installed for decorative appearances in addition to lighting equipment specified for general lighting and is switched or dimmed on circuits different from the circuits for general lighting, the smaller of the actual wattage of the decorative lighting equipment or 1.0 W/ft^2 times the area of the space that the decorative lighting equipment is in shall be added to the interior lighting power determined in accordance with this line item.

[b] Where lighting equipment is specified to be installed to meet requirements of visual display terminals as the primary viewing task, the smaller of the actual wattage of the lighting equipment or 0.35 W/ft^2 times the area of the space that the lighting equipment is in shall be added to the interior lighting power determined in accordance with this line item.

[c] Where lighting equipment is specified to be installed to highlight specific merchandise in addition to lighting equipment specified for general lighting and is switched or dimmed on circuits different from the circuits for general lighting, the smaller of the actual wattage of the lighting equipment installed specifically for merchandise, or 3.9 W/ft^2 times the actual case of shelf area for displaying and selling fine merchandise such as jewelry, fine apparel and accessories, or china and silver, shall be added to the interior lighting power determined in accordance with this line item.

[d] Where lighting equipment is specified to be installed, the smaller of the actual wattage of the lighting equipment, or 1.0 W/ft^2 times the area of the emergency, recovery, medical supply and pharmacy space shall be added to the interior lighting power determined in accordance with this line item.

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Total Connected Interior Lighting Power

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A. Section 805.4 Interior lighting power requirements. A building complies with this section if its Total Connected Interior Lighting Power is no greater than the Total Interior Lighting Power Calculated per the lighting allowance(s). **NOTE:** Luminaire means light fixture.

1. Screw lamp holders. The wattage shall be the maximum labeled wattage of the luminaire.

Luminaire	Quantity	Maximum Wattage	Total Wattage
a			
b			
c			
d			
e			
f			
		1. Total wattage of all luminaries	

2. Low-voltage lighting. The wattage shall be the specified wattage of the transformer supplying the system.

Transformer	Quantity	Maximum Wattage	Total Wattage
a			
b			
c			
		2. Total wattage of all transformers	

3. Other luminaries. The wattage of all other lighting equipment shall be the wattage of the lighting equipment verified through data furnished by the manufacturer or other approved means.

Other Luminaries	Quantity	Maximum Wattage	Total Wattage
a			
b			
c			
d			
e			
f			
		3. Total wattage of all other luminaries	

4. Line-voltage lighting track and plug-in busway. The wattage shall be the greater of wattage of the luminaries determined according to items 1, 2 or 3 above or 30 watts/linear foot.

( )	Quantity	Maximum wattage	Total Wattage
a			
b			
c			
d			
E			
F			
		4. Total wattage of all line voltage lighting track/plug-in busways	

Methodology	Total Wattage
5. Grand Total Wattage of 1, 2, 3 and 4 above	
6. Grand Total from Page 2	

Line item #5 cannot be larger than line item #6.