

# TAILORED METHOD LIGHTING POWER ALLOWANCE

## WORKSHEETS

Project Name:

Date:

Complete separate sets of Tailored Method Worksheets for Conditioned and Unconditioned Spaces.

This worksheet is used to document:  CONDITIONED SPACES  UNCONDITIONED SPACES

### A. TAILORED METHOD LIGHTING POWER ALLOWANCE SUMMARY

1. General lighting power (Building Total from Section B of LTG-4C).					
2. General lighting power (Building Total from Section C of LTG-4C).					
3. Additional "use it or lose it" lighting power (Watts listed in each of these cells shall be identical to total allowed watts determined in LTG-4C Section D).					
Wall Display from LTG-4C Section D-1		Combined Floor Display and Task Lighting from LTG-4C Section D-2		Combined Ornamental and Special Effects Lighting from LTG-4C Section D-3	
	+		+		+
					=
3. Total Allowed Watts (add lines 1, 2 and 3)					

### B. TAILORED METHOD ALLOWED GENERAL LIGHTING POWER FROM TABLE 140.6-D <sup>1</sup>

A	B	C	D	E	F	G
ROOM NUMBER	PRIMARY FUNCTION AREA <sup>2</sup>	ILLUMINANCE VALUE (LUX) <sup>3</sup>	ROOM CAVITY RATIO <sup>4</sup>	ALLOWED LPD <sup>5</sup>	FLOOR AREA <sup>6</sup>	ALLOWED WATTS (E x F)
				PAGE TOTAL	ft <sup>2</sup>	Watts
				BUILDING TOTAL		

1. NOTES:
- a. General lighting shall not qualify for a mounting height multiplier.
  - b. General lighting shall not use narrow beam direction lamps, wall-washer, valance, direct cove, or perimeter linear slot types of lighting systems.
2. From Table 140.6-D , Column 1
3. From Table 140.6-D , Column 2
4. From RCR worksheet on page 4 of 4 of LTG-4C
5. From Table 140.6-G
6. Floor area must be only for Primary Function type listed in Table 140.6-D Column 1. Floor area using the Area Category Method shall not be included



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**D. TAILORED METHOD ADDITIONAL “USE IT OR LOSE IT” LIGHTING POWER ALLOWANCES**

- Use this section to document and calculate additional lighting power for wall display, floor display, task, ornamental, special effects, or very valuable display case lighting.
- The additional lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
- These additional lighting power allowances shall not be available when using §140.6(c)3H to determine the general lighting power allowance, when using the Complete Building Method, or for any areas using the Area Category Method.

**D-1. Additional allowed lighting power for wall display lighting**

- Floor displays shall not qualify for the wall display lighting power allowance.
- Qualifying wall lighting complies with the applicable provision in §140.6(c)3I.

A	B	C	D	E	F	G	H	I	J	K
Primary Function Area <sup>1</sup>	ALLOTTED WATTS			DESIGN WATTS						Allowed Watts (smaller of D or J)
	Wall Display Length in (Linear Feet)	Wall Display Power (W/lin foot) <sup>2</sup>	Allotted Watts (B x C)	Luminaire Code	Mounting Height	Mounting height factor	Watts per luminaire	# luminaires	Design Watts (G x H x I)	
					< 12 feet	1.00				
					12 feet to < 16 feet	0.87				
					16 feet or higher	0.77				
				Total for this Primary Function Area:						
					< 12 feet	1.00				
					12 feet to < 16 feet	0.87				
					16 feet or higher	0.77				
				Total for this Primary Function Area:						
					< 12 feet	1.00				
					12 feet to < 16 feet	0.87				
					16 feet or higher	0.77				
				Total for this Primary Function Area:						
Total power for wall display lighting for all function areas:										

1. In accordance with column 1 in Table 140.6-D

2. Number in column 3 Corresponding to Primary Function area in column 1 of Table 140.6-D

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**D-2. Additional allowed lighting power for combined floor display and task lighting**

- Displays that are installed against a wall shall not qualify for the floor display lighting power allowances.
- Lighting internal to display cases shall be counted EITHER as floor display lighting in accordance with §140.6(c)3J; or as very valuable display case lighting in accordance with §140.6(c)3Lii and iv.
- Additional allowed power for floor display lighting, and additional allowed power for task lighting, may be used by qualifying floor display lighting systems, qualifying task lighting systems, or a combination of both. For floor areas qualifying for both floor display and task lighting power allowances, the additional allowed power shall be used only once for the same floor area, so that the allowance shall not be additive.
- Qualifying floor display lighting complies with the applicable provision in §140.6(c)3J(v and vi).
- Additional allowed power for a combination of floor display lighting and task lighting shall be available only for (I) floors having floor displays; or (II) floors not having floor displays but having tasks having illuminance recommendations that appear in the Tenth Edition of the IES Lighting Handbook and that are higher than the general lighting level in column 2 of TABLE 140.6-D. The square footage of floor display or the square footage of task areas shall be determined in accordance with §140.6(c)3C and D, except that any floor area designed to not have floor displays or tasks, such as floor areas designated as a path of egress, shall not be included for the floor display allowance.

A	B	C	D	E	F	G	H	I	J	K
Primary Function Area <sup>1</sup>	ALLOTTED WATTS			DESIGN WATTS						Allowed Watts (smaller of D or J)
	Square feet of area	Lighting Power (W per sq ft) <sup>2</sup>	Allotted Watts (B x C)	Luminaire Code	Mounting Height	Mounting height factor	Watts per luminaire	# luminaires	Design Watts (G x H x I)	
					< 12 feet	1.00				
					12 feet to < 16 feet	0.87				
					16 feet or higher	0.77				
				Total for this Primary Function Area:						
					< 12 feet	1.00				
					12 feet to < 16 feet	0.87				
					16 feet or higher	0.77				
				Total for this Primary Function Area:						
Total power for wall display lighting:										

1. In accordance with column 1 Table 140.6-D

2. Number is column 4 corresponding to Primary Function area in column 1 in Table 140.6-D

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**D-3. Additional allowed lighting power for combined ornamental and special effects**

- Qualifying ornamental lighting includes luminaires such as chandeliers, sconces, lanterns, neon and cold cathode, light emitting diodes, theatrical projectors, moving lights, and light color panels when any of those lights are used in a decorative manner that does not serve as display lighting or general lighting.
- Special effects lighting is defined as lighting installed to give off luminance instead of providing illuminance.
- There is no mounting height multiplier for ornamental or special effects lighting
- Additional allowed power for ornamental and special effects lighting may be used only for qualifying lighting systems. For floor areas qualifying for both ornamental and special effects lighting power allowances, the additional allowed power shall be used only once for the same floor area, so that the allowance shall not be additive.

A	B	C	D	E	F	G	H	I
	ALLOTTED WATTS			DESIGN WATTS				
Primary Function Area <sup>1</sup>	Square feet of area	Lighting Power (W per sq ft) <sup>2</sup>	Allotted Watts (B x C)	Luminaire Code or Description	Watts per luminaire	# luminaires	Design Watts (G x H x I)	Allowed Watts (smaller of D or subtotal of J)
				Subtotal of ornamental/special effects lighting for this primary function area:				
				Subtotal of ornamental/special effects lighting for this primary function area:				
				Subtotal of ornamental/special effects lighting for this primary function area:				
Total power for ornamental and special effects lighting:								

1. In accordance with column 1 of Table 140.6-D

2. Number in column 5 corresponding to the primary function area in column 1 of Table 140.6-D

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**D-4. Additional allowed lighting power for very valuable display case lighting**

- Lighting internal to display cases shall be counted EITHER as floor display lighting in accordance with §140.6(c)3J; or if qualifying, as very valuable display case lighting in accordance with §140.6(c)3Liii and iv.
- Case lighting is lighting of small art objects, artifacts, or valuable collections which involves customer inspection of very fine detail from outside of a glass enclosed display case.
- To qualify for this allowance, case shall contain jewelry, coins, fine china, fine crystal, precious stones, silver, smart art objects or artifacts, and/or valuable collections the display of which involves customer inspection of very fine detail from outside of a locked case.
- This allowance is available only for display cases in retail merchandise sales, museum, and religious worship areas.
- Any floor area designed to not have very valuable display case lighting shall not be included for this allowance.
- A mounting height multiplier is not available.

A	B	C	D	E	F	G	H	I	J
Primary Function Area <sup>1</sup>	Description of display case	WATTS PER SQUARE FOOT OF QUALIFYING FLOOR AREA			WATTS PER SQUARE FOOT OF QUALIFYING DISPLAY CASE AREA			ACTUAL INSTALLED WATTS	ALLOWED WATTS IS SMALLER OF D, G, or H
		Square feet of floor area	Allowed Watts per sq ft	Allotted Watts (C x D)	Square feet of display case	Allowed Watts per square foot	Allotted Watts (F x G)		
			0.8			12.0			
			0.8			12.0			
			0.8			12.0			
			0.8			12.0			
			0.8			12.0			
			0.8			12.0			
			0.8			12.0			
			0.8			12.0			

Total power for very valuable display case lighting:

1. In accordance with column 1 of Table 140.6-D

