

# Lighting Compliance Documentation

Project Name: Sample (Part 11 TI): Retail with D&D Lighting - Space by Space Method		
Project Address:		Date:
Designer of Record:	Email:	Telephone:
Contact Person:	Email:	Telephone:
City:		Exterior Lighting Zone:

## Mandatory Provisions Checklist

- Lighting Control (9.4.1)
  - Automatic lighting shutoff controls are provided based on either a scheduling device or an occupant sensor (9.4.1.1)
  - Each enclosed space has its own control including bilevel or occupancy based where required (9.4.1.2)
  - Controls for parking garages, including bilevel, transition and perimeter control as required (9.4.1.3)
  - Automatic daylighting controls for primary sidelighted areas (9.4.1.4)
  - Automatic daylighting controls for toplighting (9.4.1.5)
  - Additional controls for display/accent, case, guest room, task, nonvisual and demonstration lighting applications (9.4.1.6)
  - Exterior lighting controls including automatic shutoff and bilevel as required (9.4.1.7)
- Exit signs do not exceed 5 W per face (9.4.2)
- Exterior lighting power (9.4.3) — See worksheet
- Functional testing completed on specified controls (9.4.4)

## Interior Lighting Power Allowance (Building Area Method – 9.5)

Building ID	Building Type (9.5.1)	Lighting Power Density, W/ft <sup>2</sup> (W/m <sup>2</sup> )	Building Area, ft <sup>2</sup> (m <sup>2</sup> )	Lighting Power Allowance (W)
Total				

## Interior Lighting Power Allowance (Space-by-Space Method – 9.6)

Space ID	Building Type/Space Type (9.6.1)	Lighting Power Density, W/ft <sup>2</sup> (W/m <sup>2</sup> )	Room Cavity Ratio	Space Area, ft <sup>2</sup> (m <sup>2</sup> )	Lighting Power Allowance (W)
1	Sales Area	1.68		4452	7479.4
2	Electrical Room	0.95		52	49.4
3	Storage room	0.63		300	189
4	Restroom	0.98		45	44.1
Subtotal					7762
Controls Allowance (9.6.2c)					
Total					7762

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## Interior Connected Lighting Power

ID	Luminaire Description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Type						Number of Luminaires	Watts/ Luminaire	Total Watts
		Incandescent	Fluorescent	HID	Line-Voltage Track	Low-Voltage Track	Other			
A	8ft Fluorescent Strip 2T8 (tandem)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	7	64	448
B	4ft Fluorescent Strip 1T8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	3	32	96
C	1x4 Fluorescent Luminaire 2T8	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	1	64	64
D	Track Lights CMH	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	64	39	2,496
E	Fluorescent Down Lights 1CFL	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	16	32	512
F	2x4 Fluorescent Luminaire 2T8	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	1	64	64
G	Track Lights LED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	181	17	3077
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
<b>Total</b>										6757

## Additional Interior Lighting Power Allowance—Control Credits

Space ID	Space Name	Control Type (Table 9.6.2)	Control Factor (Table 9.6.2)	Installed Watts (W)	Additional Allowance (W)
<b>Total</b>					

## Additional Interior Lighting Power Allowance – Decorative and Display

Space ID	Space Name	Type		Area, ft <sup>2</sup> (m <sup>2</sup> )	Unit Allowance, W/ft <sup>2</sup> (W/m <sup>2</sup> )	Allowance (W)	Luminaire ID's	Installed Power (W)
		Decorative	Display Lighting					
1	Sales Area (entrance)	<input checked="" type="radio"/>	<input type="radio"/>	325	1.0	325	H	174
		<input type="radio"/>	<input type="radio"/>					
1	Sales Area (clothes - factor 3)	<input type="radio"/>	<input checked="" type="radio"/>	3,500	1.4	4,900	C,D,E	3,337
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					
		<input type="radio"/>	<input type="radio"/>					

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### Additional Interior Connected Lighting Power

Space ID	Luminaire ID	Luminaire Description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Type						Number of Luminaires	Watts/ Luminaire	Total Watts
			Incandescent	Fluorescent	HID	Line-Voltage Track	Low-Voltage Track	Other			
1	H	Decorative Suspended LED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	4	44	174
1	C	1x4 Fluorescent Luminaire 2T8	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	32	64	2,048
1	D	Track Lights CMH	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	15	39	585
1	E	Fluorescent Down Lights 1CFL	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	22	32	704
			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			

## Exterior Building Lighting Power Allowance (Tradable Lighting Applications)

Application	Allowance	Area or Length, ft <sup>2</sup> or ft (m <sup>2</sup> or m)	Tradable Power Allowance
Tradable Power Allowance			

## Exterior Building Lighting Power Allowance (Non-Tradable Lighting Applications)

ID	Application	Allowance per Unit	Area or Length or Quantity	Non-Tradable Power Allowance
Non-Tradable Power Allowance				

## Exterior Connected Lighting Power (Tradable Applications)

ID	Luminaire Description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Number of Luminaires	Watts/Luminaire	Total Watts
Total				

## Exterior Connected Lighting Power (Non-Tradable Applications)

ID	Non-Tradable Application	Luminaire Description (including number of lamps per fixture, watts per lamp, type of ballast, type of fixture)	Number of Luminaires	Watts/Luminaire	Total Watts
Total					

## Exterior Lighting Compliance Test

	Tradable Power Allowance (Watts)	+	Base site allowance	≥	Tradable Connected Lighting Power (Watts)
Non-Tradable Application	Non-Tradable Power Allowance (Watts)				Non-Tradable Connected Lighting Power (Watts)
		+		≥	
		+		≥	
		+		≥	
			Allocated base site allowance		Unallocated base site allowance
				≤	