

STEP 1: Determine your lighting application



**General Lighting**  
Uniform light patterns that are bright and comfortable living and family rooms.



**Accent & Task Lighting**  
Accent book cases and artwork or use light to accomplish specific tasks on kitchen islands or counter areas.



















**Wall Wash**  
Emphasize vertical surfaces. Draw attention to fireplaces and warm hangings.



**Specialty Lighting**  
Shower trims allow for use in wet locations.

STEP 2: Determine trim type & size to achieve the desired lighting effect




General Lighting	Accent & Task Lighting	Wall Washing	Specialty Lighting
 <div>Reflector</div>	 <div>Eyeball</div>	 <div>Eyeball</div>	 <div>Smaller Aperture</div>
 <div>Open</div>	 <div>Reflector</div>	 <div>Eyeball</div>	 <div>Smaller Aperture</div>
 <div>Baffle</div>	 <div>Open</div>	 <div>Baffle</div>	 <div>Shower</div>
 <div>Lens</div>	 <div>Baffle</div>	 <div>Baffle</div>	 <div>Shower</div>

STEP 3: Determine housing type



<b>New Construction Housings:</b> These housings should be used during ceiling construction or when there is access available from above the ceiling.	<b>Remodel Housings:</b> These housings can be easily installed in existing ceilings where there is limited or no access above the ceiling.	<b>IC Rated Housings:</b> These fixtures may be completely covered with insulation to maintain an unbroken insulation barrier.	<b>Non-IC Housings:</b> Insulation must be kept 3" away from all sides of the housing.	<b>Air Tight Housings:</b> Use these housings to minimize air flow between conditioned spaces in a house or unconditioned attic areas. These housings may be covered in insulation.	<b>Shallow Ceiling Housings:</b> For ceilings with 2"x 6" joist construction.	<b>Slope Ceiling Housings:</b> These fixtures are designed to fit in sloped ceilings and still allow the lamp to be aimed straight down.
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STEP 4: Determine housing size

6"		Most commonly used size. Can be used for all lighting applications.
5"		Slightly smaller aperture. Tighter fit around the bulb. All lighting applications.
3" and 4"		Smallest aperture. Used mainly for accent, task and wall wash applications.

STEP 1: Identify your lighting application

General	G	<input type="checkbox"/>	Uniform light patterns that are bright and comfortable. Living and family rooms.
Accent	A	<input type="checkbox"/>	Draw attention to an object or design element. Bookcases and artwork.
Task	T	<input type="checkbox"/>	Lighting used to accomplish a specific task. Kitchen islands and counter areas.
Wall Wash	WW	<input type="checkbox"/>	Emphasize vertical surfaces. Draw attention to fireplaces and wall hangings.
Specialty	S	<input type="checkbox"/>	Shower trim for wet locations.




STEP 2: Select your trim

		Quantity	
Baffle		<input type="checkbox"/> ____	Most popular style. Traps and shapes light to minimize glare. (G, A, T, WW)
Open		<input type="checkbox"/> ____	Most economical choice. Attractive finished look. (G, A, T)
Reflector		<input type="checkbox"/> ____	Reflector maximizes light output. Used in residential and commercial environments. (G, A, T)
Eyeball		<input type="checkbox"/> ____	Adjustable, directional lighting. (A, T, WW)
Lens		<input type="checkbox"/> ____	Diffuses light and shields lamp. Closets, porches and shower lights. (G, A, T, S)

STEP 3: Select your housing type

New Construction		If you have ceiling access use new construction.
IC Rated	<input type="checkbox"/>	Will the can be in direct contact with insulation? If yes, choose IC Rated.
Non-IC Rated	<input type="checkbox"/>	If no direct contact with insulation, choose Non-IC Rated.
Remodel		No ceiling access? Use remodel can.
IC Rated	<input type="checkbox"/>	Will the remodel can be in direct contact with insulation? If yes, choose IC Rated.
Non-IC Rated	<input type="checkbox"/>	If no direct contact with insulation, choose Non-IC Rated.

STEP 4: Select your housing size

		Quantity	
6"		<input type="checkbox"/> ____	Most commonly used size. Can be used for all lighting applications.
5"		<input type="checkbox"/> ____	Slightly smaller aperture. Tighter fit around the bulb. All lighting applications.
3" and 4"		<input type="checkbox"/> ____	Smallest aperture. Used mainly for accent, task and wall wash applications.

Planning Your Lighting Layout

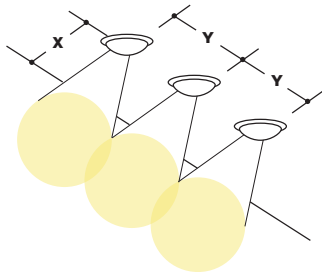
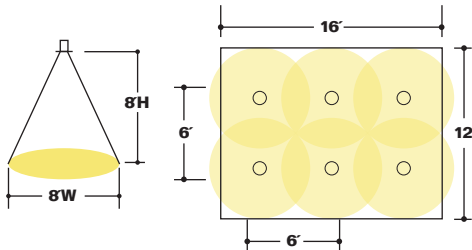
3 Easy Steps

- To plan your room lighting, measure and sketch in the general room dimensions and the placement of items such as countertops, work and reading areas and pictures or wall hangings on the grid space below (Each square represents 1 foot).
- Decide where illumination is required. The type of illumination – general, wall wash, task or accent – will generally determine the trims that are needed. Baffle, open or reflector trims are recommended for general downlighting illumination, while adjustable trims are suited for wall wash, task or accent lighting.
- The housing required will generally be decided by the ceiling construction – Shallow housing for shallow ceilings, IC or IC Air Tight housings for insulated ceilings, Non IC housings where insulation is not in direct contact with fixture and Remodel housings for below ceiling installations.

Installation Guidelines

General Downlighting

Width of beam (W) is generally equal to height (H) of room. For proper spacing of fixtures, use the following rule of thumb: for multiple units, space fixtures 5' to 6' apart in 8' to 10' ceiling heights to achieve relative uniform lighting. For example: a 12'x16' room using a 65W BR30 bulb would require a minimum of six fixtures to be uniformly lit.

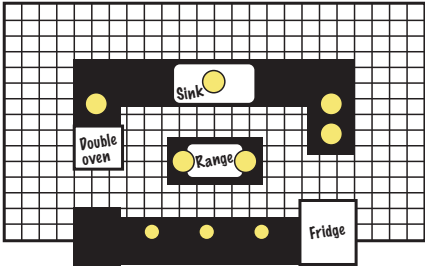


Wall Washing

For uniform wall washing, distance from walls (X) is equal to the distance between fixtures (Y).

Recessed lighting provides a variety of fixtures to meet different lighting requirements. Downlight fixtures – open, baffle – are intended for overall room illumination, while others – adjustable eyeballs – can help you create interesting accents by high-lighting walls, above cabinets, fireplaces, plants, bookcases and paintings. As well as using different aperture sizes such as 6", 5", 4" and 3".

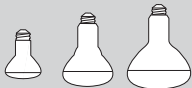
Sample Kitchen Plan Top View



Types of Bulbs

Determine correct bulb type to produce the desired lighting effect

Incandescent "R, BR" Bulbs



Halogen "PAR" Bulbs



Low & Line Voltage Halogen Bulbs

