

# Finiré Prime Design Guide

#### **Overview**

The Finiré Prime family offers a variety of options that allow the product to be used both as a compliment to other Lutron downlights as well as a full home solution on its own. While the product is easy to specify, knowing the subtle differences between options is critical for a successful installation. This document will cover design options, explain the differences, and the discuss the applications where these options might be best suited.

## **Table of Contents**

Fixed Position vs Tilt Position	
Fixed Position	
Tilted Position	
Sloped Ceilings	
Rotation	
Non-Insulation Contact (Non-IC) Housings vs. Insulation Contact (IC) Housings	
Non-IC Housings	
IC Housings	
Shallow IC Housings	
Beam Spread Options	4
30° Spread	4
65° Spread	
Wall Wash Lens	5
Wall Wash Lens Spacing	5
Distance From the Wall	
Distance Between Downlights	
Correlated Color Temperature (CCT)	6
2700 К	6
3000 К	6
Finiré Prime Downlights With Warm Dimming	6
Thick Ceiling Applications	7
HomeWorks Digital vs 2-wire Technology	
HomeWorks Digital Technology	
2-wire Technology	
Soft-on, Fade-to-black Technology	7
Suggested Applications	8
General Living Space.	
Multi-Dwelling Units.	
Back-of-House Space	8

## **Fixed Position vs Tilt Position**

The Finiré Prime downlight can be tilted from 0° to 25°. This section will explain the different ways the downlight can be adjusted and the uses for each application.

## **Fixed** Position

Fixed position is used in applications where it is desired to have the light shine perpendicular to the bottom surface of the downlight (nadir). This encompasses a majority of general lighting applications that have a standard ceiling which is parallel to the floor.



#### **Tilted Position**

The tilt feature is used in applications where it is desirable to have the light shine at an angle rather than straight down. Finiré Prime downlights have a light module that can be adjusted from 0° to 25°. This feature is commonly used to shine light on something specific (e.g., artwork, vase, pedestal) or when used as a wall wash (e.g., hallway, accent wall).



## **Sloped Ceilings**

Sloped ceilings is another application where the tilt feature can be useful. The design intent of many sloped ceilings is to provide the appearance of a fixed downlight. To achieve this when the ceiling is not parallel to the floor, adjust the tilt to counter the slope of the ceiling. For example, if the ceiling is slanted 25°, tilt the light module 25°. Since the exact slope of the ceiling may not be known, this may require multiple rounds of adjusting the tilt and checking the result.



# Rotation

Rotation for the Finiré Prime downlight is achieved by simply rotating the trim/LED module. To avoid damaging the ceiling material, the trim/LED module should be removed from the downlight, rotated to the desired position, and re-installed into the downlight.

The round trim is capable of being rotated 360° in any direction. The square trim is more limited, as it is usually desired to keep all of the edges of the square trim aligned. To meet this intent, the square trim can be rotated in increments of 90°.

# Non-Insulation Contact (Non-IC) Housings vs. Insulation Contact (IC) Housings

Non-IC vs IC refers to whether or not the housing is able to be in contact with insulation. This cannot be changed after the downlight is shipped.

## **Non-IC Housings**

Non-IC housings have ventilation slots that cannot be blocked. These housings are used in applications that do not have insulation around the downlight. If there is insulation around the downlight, a downlight with an IC housing MUST be used.



## **IC Housings**

IC housings are able to come in contact with insulation. They have larger enclosures to allow for heat dissipation.



#### **Shallow IC Housings**

Shallow IC housings have a reduced lumen output in order to achieve a lower overall height (the product is limited by thermal requirements). By reducing the lumen output, the height of shallow IC housings are smaller compared to standard IC housings. This is perfect for applications where ceiling height is limited (e.g., apartment buildings, guest rooms).



# **Beam Spread Options**

Finiré Prime downlights have two beam spreads that meet the needs of many applications. The 30° and 65° options are field changeable by purchasing an optics kit. This allows the flexibility to quickly and easily change the beam spread in the field if the original option does not give the desired effect.

#### 30° Spread

The  $30^{\circ}$  beam spread is typically used in applications that require concentrated lumen output. It can be used in high ceiling applications because it keeps the light concentrated so that it looks like a pool of light on the floor. This option can be seen below and is rendered in a  $10 \times 10$  ft ( $3 \times 3$  m) room with a 9 ft (2.75 m) ceiling.



## 65° Spread

The 65° beam spread is intended for general purpose lighting and flood lighting applications. In these applications, the light needs to be spread out as much as possible to create even distribution of light between the downlights. This could include low or normal height ceilings or applications where the number of downlights is limited. This option can be seen below and is rendered in a 10 x 10 ft (3 x 3 m) room with a 9 ft (2.75 m) ceiling.



#### Wall Wash Lens

The wall wash lens uses a micro prism film in order to pull the light further up the wall and spread it wider than a standard downlight. This is helpful in applications where general wall lighting is desired. To achieve the widest spread possible, Lutron suggests pairing the wall wash lens with a 65° beam spread option The wall wash lens is part of the optics kits.





42 in (106.7 cm) from wall

18 in (45.7 cm) from wall

#### Wall Wash Lens Spacing

When using wall wash lenses, it is important to know how far apart to space downlights. There are some variables that go into determining this, including the beam spread of the downlight as well as the distance from the wall.

#### **Distance From the Wall**

The distance from the wall that the downlight should be installed is determined by the desired height of the light on the wall. Moving the downlights closer to the wall will raise the beam of light; however, more downlights will be needed to illuminate the wall.

#### **Distance Between Downlights**

Once the distance from the wall is determined, the distance between the downlights can be determined by analyzing how wide the beam of light should be for each downlight. The beams should blend together and create even, continuous light across the wall.

Lutron suggests modeling your wall wash application in design software to confirm spacing for the specific application. IES and REVIT files can be found at www.lutron.com

## **Optics Kits**

To allow for further flexibility, optics kits can be ordered. Optics kits contain 6 pieces of wall wash film and 6 reflectors (30° or 65° depending on the kit). The wall wash film and reflectors are easy to install in the field. Model numbers and installation details can be found in the <u>Finiré Prime Spec Submittal</u> and the <u>Optics Kit Installation Instructions</u> at www.lutron.com

# **Correlated Color Temperature (CCT)**

CCT refers to how warm or cool a particular light source appears. CCT is measured in degrees Kelvin (K). Finiré Prime offers two different options to meet the preference of the end-user.

#### 2700 K

2700 K is the warmer option and represents a color temperature roughly equivalent to that of a standard incandescent bulb at high-end. This option is the most popular because the warm feel is what most people are familiar with in residential applications.

#### 3000 K

3000 K is a slightly cooler color temperature and is more equivalent to newer high efficiency halogen bulbs. This cooler temperature can be used in specific applications where a cooler, brighter feel is desired (e.g., kitchen, bathroom, back of house space).

#### Warm Dimming

Finiré fixtures with warm dimming offers lighting that shifts to a warm amber color as it dims. This feature is difficult to render naturally, but Finiré's warm dimming technology provides a smooth, continuous dimming down to 0.1%, offering an incandescent-like experience that dims smoothly from 2700 K or 3000 K down to 1800 K.

The graph below shows a graphical representation of the 2700 K and 3000 K Finire Prime with warm dimming options compared to a standard incandescent bulb. For each intensity, the corresponding CCT values of the downlights are shown.

**Note:** Adjusting certain system variables (e.g., high-end and low-end trim) will not only affect the intensity of the downlight, but also the maximum and minimum achievable color temperature.



# **Thick Ceiling Applications**

Finiré Prime downlights include clips for 0.5 (1/2) to 0.625 (5/8) in (13 to 16 mm) ceiling material. For applications that have thicker ceiling material, accessory kits are available with thick ceiling brackets that allow the LED/Trim Module to grip the housing despite the thicker material. For model number and quantity information, see <u>Finiré Prime Spec Submittal</u> at www.lutron.com



# HomeWorks Digital vs 2-wire Technology

## HomeWorks Digital Technology

Lutron's HomeWorks Digital control technology is digitally addressable and allows individual control of each downlight regardless of wiring. Selecting the HomeWorks Digital control option for a Finiré downlight allows lighting zones to be easily reconfigured to accommodate changes in a space (e.g., rearranging furniture) without rewiring.

Finiré downlights have residential FCC compliance options (Part 15B) and HomeWorks Digital technology is available for HomeWorks QSX.

#### 2-wire Technology

2-wire technology is Lutron's traditional dimming technology. Originally designed for incandescent loads, it has been integrated into Lutron LED drivers to provide guaranteed compatibility between Lutron control systems and Lutron drivers. This is accomplished by using the existing 2-wire (hot and neutral) configuration found in most homes. By using the existing wiring, Lutron control solutions can be retrofit into an existing application without installing new wires.

## **Suggested Applications**

Finiré Prime downlights provide a flexible solution that can fit many different spaces and budgets.

#### **General Living Space**

Finiré Prime downlights can be used as the primary recessed lighting downlights for general lighting spaces. They provide Lutron quality dimming and performance for budgets that do not allow for other Finiré solutions.



#### **Multi-Dwelling Units**

The Lutron quality, price, and quick ship of Finire Prime downlights make them perfect for multi-dwelling units (e.g., apartment buildings, hotels). The shallow dimensions of both the IC and non-IC options are perfect for small mechanical spaces that are typical in these applications.



## Back-of-House Space

For applications already using Finiré 3" downlights, Finiré Prime downlights offer the perfect budget option for back-ofhouse downlights installed in areas that are not occupied as often (e.g., basements, laundry rooms, guest rooms).



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