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## Fine-tune your LEDs

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Warm • Cool • Diffusion • Correction

**LEE** Filters



## Fine-tune your LEDs

There's a reason why lighting professionals are turning to our Zircon filters for their LED fixtures. It's because they've been specifically designed to fine-tune the inconsistencies often associated with LED lighting. With options that include warming, cooling, correction and diffusion, they ensure your LEDs give the same performance, time and time again.



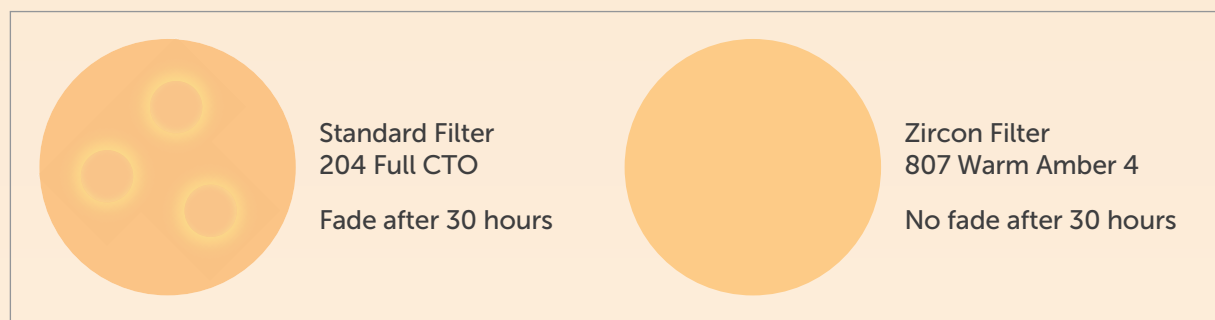
LED light - no filter



LED light - Warm Amber 4 filter

## Longer life filters for LED

LED lighting has many benefits, but one of its stumbling blocks is that its intensity can contribute to the fade times of standard lighting filter. In order to overcome this, the LEE Filters Research and Development team has developed a new method of production, to ensure filters last longer when used in conjunction with LED lights. In fact, Zircon Warm Amber filters have been shown to retain at least 80% of their effectiveness after as much as eight months of continuous use on LED downlighters.



## Heavyweight substrate

Not only are Zircon filters longer-lasting than their standard counterparts, they're sturdier, too. Manufactured using a 180-micron material, they are more than double the thickness of a normal lighting filter. This makes them more durable and easy to use.

# The Zircon Range

There are 21 filters in the Zircon range, these include warming filters that give white LEDs the look of Tungsten, cooling filters that cool down warm white LED's, as well as correction and diffusion filters to remove LED colour casts and reduce light levels.







Due to the inconsistency in LED characteristics, we strongly recommend you trial the filters first to ensure the desired result.

## Sizes




Rolls: 3.05m x 1.2m (10ft x 4ft)

Sheets: 61cm x 61cm (24in x 24in)










## Warm

	<b>806 Zircon Warm Amber 2</b> Longer life filter for major warm up correction of cool white LED to Tungsten. Example: 5500K LED to 3000K
	<b>807 Zircon Warm Amber 4</b> Longer life filter for medium warm up correction of white LED to Tungsten. Example: 4000K LED to 3000K.
	<b>813 Zircon Warm Amber 5</b> Longer life filter for medium warm up correction of white LED with minus green tint. Example: 4000K LED to 2900K. Approx equivalent - O32 Apricot 2.
	<b>808 Zircon Warm Amber 6</b> Longer life filter for correction of warm white LED to Tungsten. Example: 3500K LED to 3000K.
	<b>809 Zircon Warm Amber 8</b> Longer life filter for fine correction of warm white LED to Tungsten. Example: 3000K LED to 2700K.
	<b>814 Zircon Warm Amber 9</b> Longer life filter for fine warm up and minus green correction of warm white LED. Example: 3000K LED to 2600K. Approx equivalent - R31 Amber Blush 1.




## Cool

	<b>818 Zircon Cool Blue 6</b> Longer life filter used to cool down warm white LEDs so that they look whiter. Example: 3000K LED to 3500K.
	<b>819 Zircon Cool Blue 8</b> Longer life filter used to slightly cool down warm white LEDs so that they look whiter. Example: 2700K LED to 3000K.
	<b>820 Zircon Cool Blue 10</b> Longer life filter used to very slightly cool down warm white LEDs, so allowing different batches of LEDs to be used together. Example: 3000K LED to 3200K.

## Correction

	<b>801 Zircon Minus Green 1*</b> Longer life filter for use by photographers to remove large green casts produced by some LEDs. Approx equivalent - CC10M.
	<b>802 Zircon Minus Green 2*</b> Longer life filter for use by photographers to remove medium green casts produced by some LEDs. Approx equivalent - CC05M.
	<b>803 Zircon Minus Green 3*</b> Longer life filter for use by photographers to remove light green casts produced by some LEDs. Approx equivalent - CC03M.
	<b>804 Zircon Minus Green 4*</b> Longer life filter for use by photographers to remove fine green casts produced by some LEDs. Approx equivalent - CC02M.
	<b>805 Zircon Minus Green 5*</b> Longer life filter for use by photographers to remove tint green casts produced by some LEDs. Approx equivalent - CC01M.
	<b>815 Zircon Dark Density</b> Longer life filter for LED fixtures, used to reduce the light level by approximately 80%. Approx equivalent - 210; 0.6 Neutral Density.
	<b>816 Zircon Mid Density</b> Longer life filter for LED fixtures, used to reduce the light level by approximately 60%. Approx equivalent - 209; 0.3 Neutral Density.
	<b>817 Zircon Pale Density</b> Longer life filter for LED fixtures, used to reduce the light level by approximately 40%.
	<b>821 Zircon UV Blue Blocker</b> Longer life filter used to block UV and blue light. Has an optical density above 4 in the UV and visible up to 470nm. > 1% Transmission above 505nm. Approx equivalent - LDO89 Gold Amber 9.

## Diffusion

	<b>810 Zircon Diffusion 1</b> Strongest diffusion on thick polyester for easy use on panels and in channels. Can be used close to LED chip to blur the pixels. Approx equivalent - 216 White Diffusion.
	<b>811 Zircon Diffusion 2</b> Strong diffusion on thick polyester for easy use on panels and in channels. Can be used close to LED chip to provide some blurring of the pixels. Approx equivalent - 416 White Diffusion.
	<b>812 Zircon Diffusion 3</b> Medium diffusion on thick polyester for easy use on panels and in channels. Provides reasonable diffusion properties without too much loss of light. Approx equivalent - 250 White Diffusion.

Please Note: Zircon filters are designed for use on LED fittings only and are, therefore, NON-FLAME Retardant.

\*May cause a change of Colour Temperature on some LEDs.

# Lighting packs

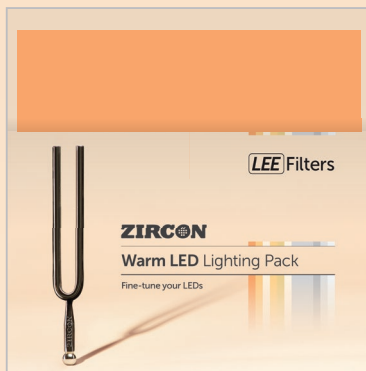


## Cool LED Lighting Pack

Contains 9 sheets 12"x12" (300mm x 300mm), thickness 180 microns.

This pack contains:

810 Zircon Diffusion 1	817 Zircon Pale Density
811 Zircon Diffusion 2	818 Zircon Cool Blue 6
812 Zircon Diffusion 3	819 Zircon Cool Blue 8
815 Zircon Dark Density	820 Zircon Cool Blue 10
816 Zircon Mid Density	

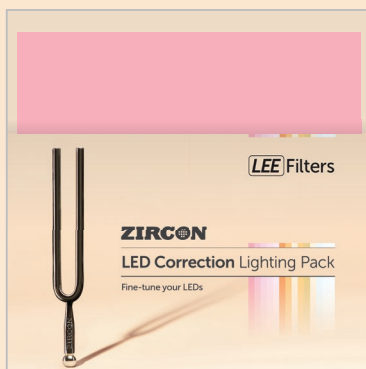


## Warm LED Lighting Pack

Contains 12 sheets 12"x12" (300mm x 300mm), thickness 180 microns.

This pack contains:

806 Zircon Warm Amber 2	810 Zircon Diffusion 1
807 Zircon Warm Amber 4	811 Zircon Diffusion 2
813 Zircon Warm Amber 5	812 Zircon Diffusion 3
808 Zircon Warm Amber 6	815 Zircon Dark Density
809 Zircon Warm Amber 8	816 Zircon Mid Density
814 Zircon Warm Amber 9	817 Zircon Pale Density



## LED Correction Lighting Pack

Contains 14 sheets 12"x12" (300mm x 300mm), thickness 180 microns.

This pack contains:

801 Zircon Minus Green 1	813 Zircon Warm Amber 5
802 Zircon Minus Green 2	808 Zircon Warm Amber 6
803 Zircon Minus Green 3	809 Zircon Warm Amber 8
804 Zircon Minus Green 4	814 Zircon Warm Amber 9
805 Zircon Minus Green 5	818 Zircon Cool Blue 6
806 Zircon Warm Amber 2	819 Zircon Cool Blue 8
807 Zircon Warm Amber 4	820 Zircon Cool Blue 10

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