



# The Architectural Range



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Building on their experience in film and theatrical lighting, LEE Filters presents a range of lighting filter products specifically designed for use in the architectural, retail and entertainment industries.



T5 Sleeves



T8 Sleeves



T12 Sleeves



Two-tone Sleeves

## Fluorescent Sleeves

Get creative with fluorescent lighting! LEE Filters offers a choice of over 200 colours for use as Fluorescent Sleeves for architectural applications.

Visit [www.leefilters.com](http://www.leefilters.com) to view the latest colours.

### Pre-assembled Sleeves

You choose the colour and leave the rest to us. Your chosen colour is inserted into a clear sleeve and delivered ready to install.

The sleeves are made from a thermally stable, electrically insulating, polycarbonate. The ends of each sleeve are capped with an end cap; these end caps fix the sleeve to the fluorescent tube making installation easy. The sleeves are available in standard lengths for T5, T8 and T12 diameter tubes.

It is recommended that you contact us if intending to use sleeves on T5 tubes, as your colour choice and tube wattage will determine if a sleeve is suitable.

The sleeves are not recommended for use on high output T5 tubes, as the extreme heat at either end of the tube can cause the filter to discolour.

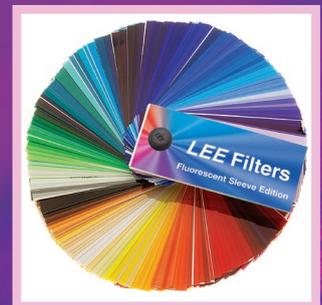
### Self-assembly

Alternatively LEE Filters can supply pre-cut "Quick Rolls" of your chosen colour along with clear polycarbonate sleeves enabling self assembly of the inserts and sleeves.

The pre-cut "Quick Rolls" are 7.62m (25') long and are available for T5, T8 and T12 diameter sleeves.

### Two-tone sleeves

There are a number of different ways you can use coloured fluorescent sleeves creatively. An effect that works particularly well is a two-tone sleeve. This is where you have one colour at the front of the sleeve and a contrasting colour at the back. With over 250 colours to choose from, the number of different colour combinations are endless!



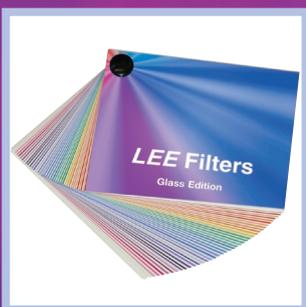


## The Dichroic Series

### Dichroic Glass Colours

Specifically designed to meet the demands of the lighting industry, LEE Filters dichroic glass filters are produced by the

vacuum deposition of thin layers of metal films onto a substrate of borofloat glass. The glass is available in a thickness of 3.3mm and the production process creates spectacularly clear and pure colours. The glass filters will not fade, as the dichroic coating can withstand temperatures up to 371°C.



### Professional Colours

Chosen after extensive research among design professionals, the Glass Series colour palette provides a range of 50 consistent, repeatable colours. This includes subtle, less saturated tones suitable for architectural use. Building on their expertise in film and theatrical lighting, LEE has closely matched the glass series on a polyester base filter material to provide a convenient swatch

book. Lighting professionals can use this book to test colour schemes or demonstrate the effects of different filters.

The swatch book is available upon request.

No.	Name	No.	Name
R31	Amber Blush 1	B71	Cornflower 1
R50	Red 0	B93	Congo 3
R99	Flame 9	V10	Indigo 0
O01	Sunset 1	V28	Blueberry 8
O08	Sunset 8	V43	Violet 3
O14	Peach 4	V67	Rose Purple 7
O18	Peach 8	V74	Plum 4
O32	Apricot 2	V81	Lilac 1
O42	Nectarine 2	V98	Lavender 8
O43	Nectarine 3	M31	Fuchsia 1
O59	Orange 9	M56	Magenta 6
O80	Gold Amber 0*	M63	Carnation Pink 3
O82	Gold Amber 2	M91	Salmon 1
O89	Gold Amber 9	071	Tokyo Blue
Y02	Wheat 2	156	Chocolate
G28	Lime 8	201	Full CT Blue
G96	Jade 6	202	Half CT Blue
C04	Blue Green 4	203	Quarter CT Blue
C45	Turquoise 5	204	Full CT Orange
C47	Turquoise 7	205	Half CT Orange
B06	Lagoon 6	206	Quarter CT Orange
B14	Steel 4	209	0.3 Neutral Density
B24	Crystal Blue 4	210	0.6 Neutral Density
B44	Royal Blue 4	278	Eighth Plus Green
B53	Blue 3	279	Eighth Minus Green
B64	Navy Blue 4		

\*(Also available in a combination 2 in 1 filter such as the O80/Linear Spread Lens. A Linear spread on one side plus dichroic coating on the other).

### Glass Frames

These lightweight aluminium frames, suit the popular lighting fixtures in the entertainment and theatrical industries.

An innovative silicone gasket completely surrounds the glass, providing protection from both mechanical and thermal shock. A safety mesh can be added where required.

#### Framed Glass

- 15.8cm (6.25") Source Four
- 19cm (7.5") Source Four PAR
- 25.4cm (10") PAR 64

#### Unframed Glass

Unframed filters can be supplied for use in smaller light fittings with integral holders.

- 50mm (1.96") MR16 and PAR 16 (circular)
- Custom sizes can be supplied – please ask for a quotation



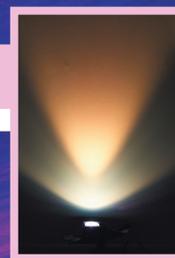
All colours are available in custom shapes and sizes.



## Frosted Glass

LEE Filters Frosted Dichroic Glass Filters are fabricated with 3.3mm thick high temperature borofloat glass. Frosted Colour Dichroic Filters are colour-coated on one side by vacuum deposition of metal film, and diffuse textured on the other side (the no-colour version is simply diffuse textured on one side).

This precise diffusion technique creates a frost very similar to LEE 251 Quarter White Diffusion, when the frosted side is placed on the fixture outwards, away from the lamp. Our dichroic coating has a maximum operating temperature of 371°C, allowing the colour to last for years without fading.



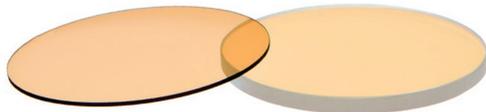
Unfrosted Glass



Frosted Glass

## Dichroic Polycarbonate

Colour correct your LED light source using the new dichroic coated polycarbonate filter. With a thickness of 0.76mm, the polycarbonate will easily fit within a small LED fixture. This filter has a dichroic coating on one side providing the optimal colour correction solution for permanent applications.



Polycarbonate 0.76mm thick vs. glass 3.3mm thick

General Information:

- Stocked in 50mm diameter (available in custom shapes & size up to 28cm square – upon request).
- 11 stock Dichroic series colours (custom colours available – upon request)
- Polycarbonate substrate includes a high heat resistance hard coating on both sides.
- Dichroic coating is a process of vacuum deposition of thin metal films onto a polycarbonate substrate.
- Maximum operating temperature is 100°C.
- Polycarbonate material is 0.76mm thick.

New colours

No.	Name	No.	Name
● O32	Apricot 2	● 218	Eighth CT Blue
● R31	Amber Blush 1	● 223	Eighth CT Orange
● O42	Nectarine 2	● 249	Quarter Minus Green
● O80	Gold Amber 0	● 256	Half Hampshire Frost
● 205	Half CT Orange	● 443	Quarter CT Straw
● 206	Quarter CT Orange		



## Specialised Dichroic Filters

Dichroic filters developed specifically for use in permanent applications for either high heat or energy efficient light sources. Series includes colour correcting filters, as well as wavelength control filters such as UV, IR and AR filters.

### Colour Correction Dichroic Glass Filters

Provides colour correction and warming for lamps such as metal halide and LEDs.



LED no filter



LED warming filter

No.	Name	No.	Name
● O80	Gold Amber 0*	● 201	Full CT Blue
● O82	Gold Amber 2	● 202	Half CT Blue
● R31	Amber Blush 1	● 203	Quarter CT Blue
● 156	Chocolate	● 204	Full CT Orange
● 278	Eighth Plus Green	● 205	Half CT Orange
● 279	Eighth Minus Green	● 206	Quarter CT Orange

\*(Also available in a combination 2 in 1 filter such as the O80/Linear Spread Lens. A Linear spread on one side plus dichroic coating on the other).

### Neutral Density Dichroic Filters

Transmission reduction filters reduce light output without changing colour:

No.	Name
● 209	0.3 Neutral Density – 50% transmission reduction
● 210	0.6 Neutral Density – 75% transmission

### Wavelength Control Filters

#### UV Blocker

Reduces photochemical degradation and allows the increase of light levels without risking damage to display objects. Coated on a 3.3mm thick Borofloat substrate for high heat resistance, this filter blocks UV rays below 390nm.

#### IR (infrared) Filters

Blocks the heat generating IR component (wavelength above 750nm) while simultaneously transmitting the required visible light with minimal light loss.

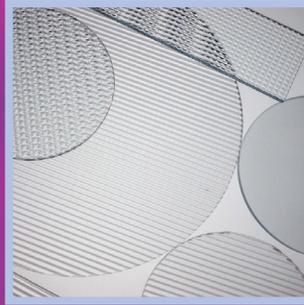
#### AR (anti reflective) Filters

Designed for telecommunication applications providing a low level of reflectance.

## Glass Diffusion Filters

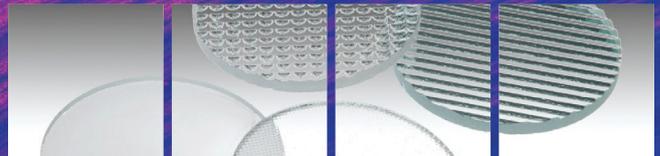
The LEE range of Glass Diffusion Filters offer different densities of diffusion for a wide range of lighting effects. They are available for MR16 and PAR fittings as well as custom shapes and sizes.

The diagram opposite shows the diffusion effect created when using an 8°, 24° or 36° 50w MR16 bulb, at a distance of 92cm (3').



-  **Linear Diffusion**
-  **O80 Linear Diffusion**  
*Combined Linear Diffusion and warming filter*
-  **Prismatic Diffusion**
-  **Softening Diffusion**
-  **Frosted Diffusion**

	8° Lamp	24° Lamp	36° Lamp
 No Filter			
 Linear Diffusion (Vertical)			
 Linear Diffusion (Horizontal)			
 Prismatic Diffusion			
 Softening Diffusion			
 Frosted Diffusion			



## MR16 / PAR 16 accessories

Attach filters directly to an MR16 or PAR 16 bulb using the LEE Filters Accessory Holder. Available in either black or silver, the screw-on holder fits securely onto the bulb and can hold up to two filters. This allows for a combination of colour, diffusion or louvre effects to be used on the one fitting.

LEE Clip-on accessories are a quick and easy way of adding a filter to, or limiting the glare from MR16 or PAR 16 bulbs.

The Clip-on Filter Holder holds a single filter to a standard open bulb. The holder is available in either black or silver (packs of five).

The Clip-on Baffle (also known as blade louvres) traps the peripheral light sideways, limiting glare. The baffle also gives the fixture a more professional look. Available in black or silver (packs of five).

Clip-on Barndoors trap the light sideways; this limits the glare from a bulb but also allows you to direct the illumination from the bulb to a specific area. The flaps are adjustable by rotation and by bending the hinges. The high quality material of the hinges allows you to adjust them a number of times. Available in black or silver (packs of five).



Accessory Holder



Clip-on Filter Holder



Clip-on Baffle



Clip-on Barn Doors





## Louvres

Honeycomb Louvres reduce the glare from a light fitting. They are available in either a 45° or 60° angle and come in silver and black to match the LEE filter holders.

Louvres are also available in custom shapes and sizes enabling them to be used on a number of different light fittings.

