## Lighting Diagram and Suggestions

Good lighting is the key to great images. Use multiple Rotolights to quickly create the perfect lighting solution for your location or studio needs.

The Rotolight RL48-B LED Ring Light gives you the possibility of having a front-facing, camera mounted 'keylight' on your subject, and, then using a second Rotolight with perhaps a creative Colour FX filter, mounted on a spare tripod as a kicker/backlight/sidelight or toplight.  This is called '2-point lighting' and will considerably improve the dramatic impact, separation and presence for your subject.

The sample image on the right was lit with the Rotolight Interview Kit using a 216 Diffuser on the Keylight (set to 5600K) and a second (tripod mounted) Rotolight was used with a 712 Bedford Blue filter as a side fill.
(See diagram for suggested light positions)



Subject
Rotolight on Tripod with Colour FX Filter
Camera-Mounted Rotolight
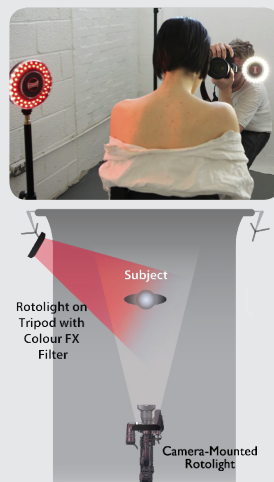
## Add-On Colour FX Filter Kit Guide

Rotolight 'Add-on Colour FX Filter Kit' features 10 of the most popular LEE Lighting colour filter gels, comprising eight Colour FX filters for sidelight, backlight, kicker or top light and two cosmetic filters for skin tone enhancement.

The Rotolight Add-On Colour FX Filter gels have been created by some of the World's leading lighting designers working in Stage, Screen, Cinema and Television to capture specific moods or colour effects, and the result is a superb collection designed to compliment most common lighting conditions.

**184 - Cosmetic Peach**
A warm cosmetic highlight or front light, complimentary for most light skin tones and key lighting.

**063 - Pale Blue**
A 'Cool' light blue wash, ideal for sidefill or backlight

**020 - Medium Amber**
Good for afternoon sunlight and candlelight. Also great for side lighting.

**765 - LEE / Sunlight Yellow**
Looks like natural strong sunlight effect.  Good for sidefill / toplight

**052 - Light Lavender**
Good 'pink' sidefill or Great backlight

**791 - Moroccan Frost**
A warm cosmetic highlight or front light, complimentary for dark skin tones and key lighting

**712 - Bedford Blue**
A smoky warm blue. dramatic sidefill for skin , hair, or hardware

**182 - Light Red**
Good for theatre and television effect lighting as well as cycloramas.

**730 - Liberty Green**
A good light green backfill for creating mystery and suspense.

**128 - Bright Pink**
Excellent backlighting and side lighting. Great on hair or skin.

## Specifications:

| Model: | Rotolight RL48-B |
|---|---|
| Size: | 130OD/38ID(mm) |
| Weight: | 6oz/170grams |
| Power: | 3 x AA Batteries |
| Battery Life: | 4 Hours (Li-Ion) |

| Hot Light Equivalent: | 80W |
|---|---|
| Colour Temperature: | 6300K, 5600K, 4300K, 3200K |
| ND/Dif Filters: | 298, 209, 216 |
| Beam Angle: | 140 Degrees |
| Mounting: | Mic Foam, hotshoe or 1/4"-20 |

# ROTOLIGHT™

## STEALTH RL48

# QUICK START GUIDE



## Thank you for choosing a Rotolight kit.

Thank you for buying the world's most portable, professional, colour calibrated LED HD lighting kit.  In order to take full advantage of the Rotolight RL48-B 'Stealth Edition' features and ensure maximum perfomance and longevity please read this manual carefully before using this kit.  A full user guide is available at www.rotolight.com.

## Opening the Rotolight RL48-B

1)  To open the Rotolight, remove the filter holder, then hold  the Rotolight in your left hand face down. Hold the back of the Rotolight with your right hand, then rotate the back, counter clockwise one eighth of a turn to open the body of the light.

2)  When the Rotolight is open you can change the batteries (3 x AA), read the calibration chart, and access the filters stored in the back of the light.



**Batteries :**
*Use 3 x Energizer Lithium L91 AA batteries for best performance and 4 hours continuous use, or standard alkaline AA batteries for 3 hours use.  If you intend to use rechargeable batteries, use Lithium Hydride models for superior performance. Normal rechargeable batteries are not recommended as they have a lower voltage output so Rotolight will be less bright.*

## Using the filter holder

To fit the filter holder, simply hold it in your left hand with the open side facing upwards and push the Rotolight (face down) into the centre of the filter holder. To remove it, place your thumb in the middle of the front face of the Rotolight (near the ON switch) and use your other fingers to lift the outer edge of the filterholder away from the face of the Rotolight.
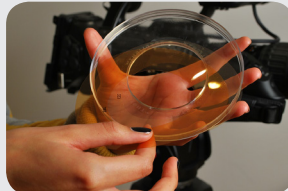
*To turn the unit on, simply press the switch in the front of the Rotolight RL48-B.*

## How to mount Rotolight on your Shotgun Mic

Align the centre hole of your Rotolight over the foam windshield of your Camcorder Microphone and carefully slide the Rotolight over the foam windshield.

To remove Rotolight, pinch the back of the microphone foam windshield with your left hand and with your right hand carefully slide the Rotolight off the mic to the front.

## How to mount Rotolight using the Rotolight Stand

Fit the accessory shoe to 1/4" thread adapter to the accessory or 'hot' shoe on your camera. Tighten the lower thread of the shoe adapter down onto the shoe. Attach the support arm to the shoe adapter and secure it facing forward by tightening the upper thread tensioner of the accessory shoe. Put the Red Boss assembly through the centrehole of the RL48-B and clip the legs into the holes of the support arm.

To release, gently squeeze the legs together at the rear of the support arm whilst holding the Rotolight and Logo boss assembly (take care not to let the Logo Boss pop out of the front hole).

*Rotolight Stand can also mount onto tripods, suction mounts, 360° Swivels, Lighting Stands, etc.*

## Filters, Colour Temperature and 'White Balance'

Colour temperature is a standard method of describing colours for use in a range of situations and with different equipment.

Colour temperatures are normally expressed in units called 'degrees' Kelvin (K). This scale is used to describe a visible light colour , and was based on heating a black object up until it glowed at a precise colour, hence 'degrees' Kelvin.

Modern digital photographic and video cameras can adjust the 'white balance'of their image capture system mimicking the way that the Human eye perceives colour. This process allows the camera to accurately capture the colours as the eye sees them.

Most common lighting conditions produce light in the temperature range from around 2,000K to 8,000K. In practical terms this usually means selecting lights, gels and filters which are most appropriate to the prevailing light or to create a particular colour effect.

For example, a camera operator will select a "3200K filter" to use for an interior shot when the prevailing ambient light is from tungsten bulbs. Ideally you want all the elements in your image illuminated at roughly the same colour temperature, otherwise different parts of the picture may have a blue or orange tint.

The human eye can detect a colour difference of 50 Kelvin, so you'll be pleased to know that Rotolight is 'Studio Accurate' (i.e. to within +/- 50 kelvin of its calibrated colour temperatures)

**CFLs & Fluorescent** 2700°K - 6500°K

**Calibrated Studio Tungsten Light** 3200°K

**Halogen** 3000°K

**Incandescent** 2700°K

8000°K
7500°K
7000°K
6500°K
6000°K
5500°K
5000°K
4500°K
4000°K
3500°K
3000°K
2500°K
2000°K
1500°K
1000°K

**Overcast Sky** 6500°K - 7500°K An overcast sky casts a bluish light measuring approximately 6,500 to 7,500 degrees Kelvin.

**Calibrated Studio Daylight** 5600°K

**Sunlight at Midday** 5500°K The whitest light of all measures approximately 5,500 degrees Kelvin.

**Candle Light** 2000°K The warmest light source of all measures around 2,000 degrees Kelvin.

## Using the Colour Correction and Calibration filters

Rotolight RL48-B ships with 6 special ringlight calibration filters (by LEE Lighting) which are stored inside the Rotolight and fit into the Filter Holder. These are used for colour correction, dimming and diffusion, which allow you to accurately match Rotolight to the ambient light colour temperature. Please refer to the Calibration Chart inside the Rotolight RL48-B for more information on which filters to use for desired effect.

**Included Colour Correction, Dimming and Diffusion Filters :**

5600 - 1/16th CTO (Indirect Daylight)
3200 - 15/16ths CTO (Tungsten)
Lee 205 - 1/2 CTO
Lee 216 - Diffusion Filter
Lee 209 - Neutral Density (Reduces light 1 stop)
Lee 298 - Neutral Density (Reduces light 1/2 stop)