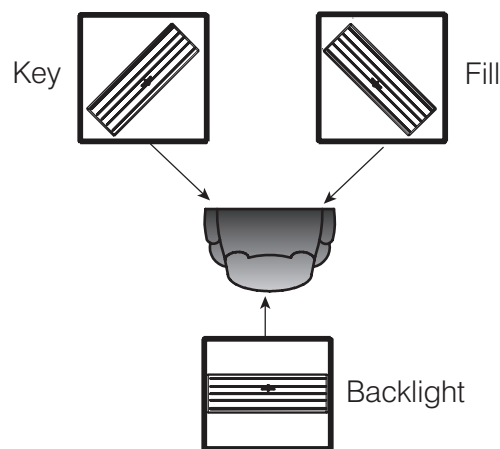


## Introduction to Lighting Concepts

### Lighting in Board Room Scenarios

#### Basic Lighting Principals- Functions of Light:

- Key Light is the main light which is positioned to one side of the subject.
- Fill Light is usually positioned on the opposite side to the Key, brightness of the Fill compared to that of the Key is what sets the tone.
- Back Light is positioned behind the subject and offers depth while offering highlights to such features as hair.



The ability of the T-Series to be positioned as required in false ceilings allows specifiers to design VC lighting scenarios based on lighting principals to achieve properly lit VC's.

#### Lighting Control:

- Honey Comb Focussing Screens are attached to the front of fixtures to control the beam angle. Narrow Field Screens focuses the light source so light is concentrated onto the subject's face and doesn't "spill" onto someone or something else. Medium Field Screens can be used to light two or more subjects at a table, while the Broad Field Screen is designed to light a general area.
- Lighting fixtures can be dimmed to achieve the appropriate light level for a specific fixture. For example the Key and Fill Light may be dimmed to different levels to achieve the desired result. Dimming can be done through a variety of means, the most popular for VC applications being via Dali or Digital method for integration with control systems.

## Introduction to Lighting Concepts cont...

### Colour Temperature:

- Television traditionally uses Tungsten (hot) lighting balanced at 3200° K. Brightline offers tubes to balance to this colour temperature. There are also 5600° K (daylight) balanced tubes to the fixtures can be used in situations where windows allow daylight into the VC environment so the overall lighting is the same colour temperature (balanced)

### Lighting a VC Boardroom Table- The Process

Considerations:

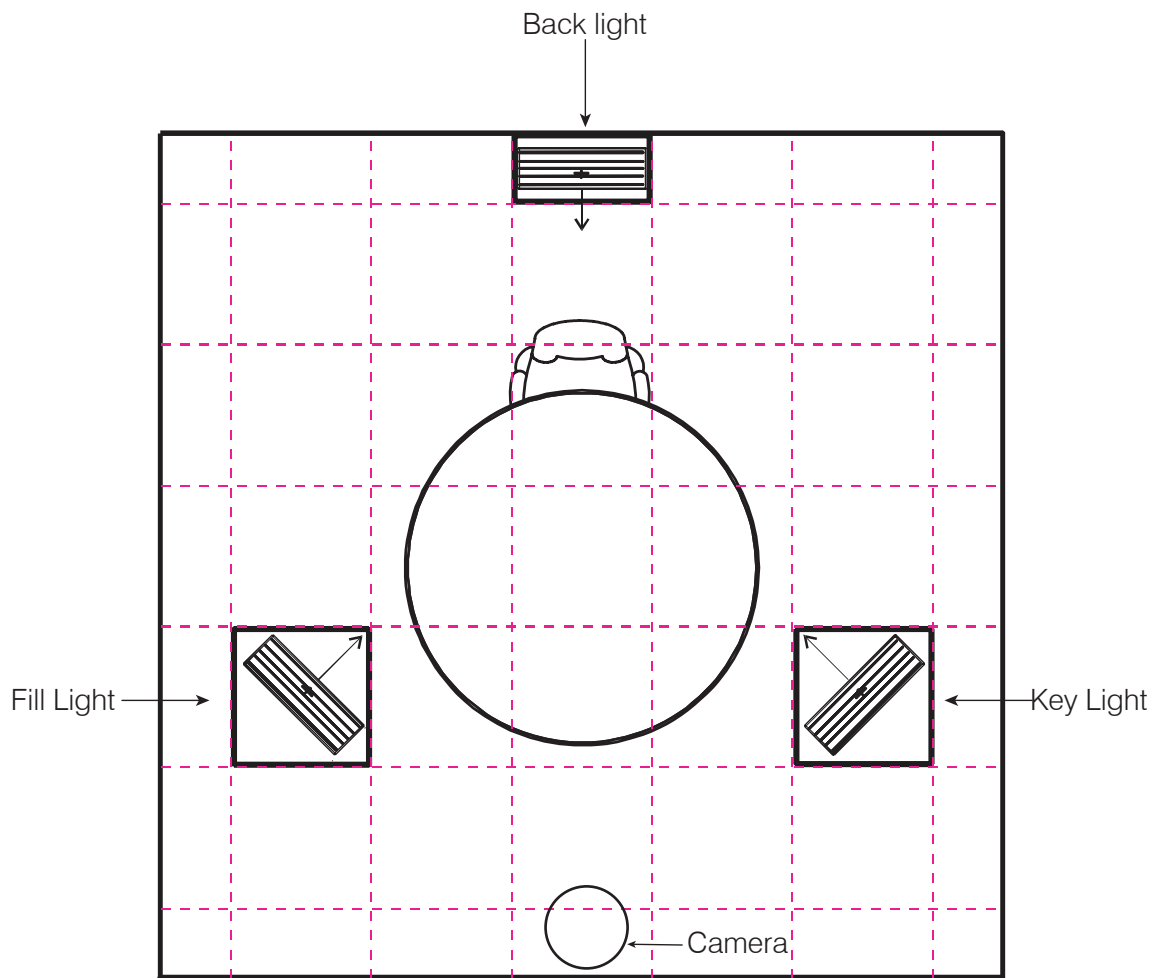
- Room Layout- table position in relationship to monitors
- Existing Lighting Conditions- Are there large windows?
- Number of people around the table required to be lit. Where are they positioned?
- Aesthetics- maintain integrity of ceiling (Brightline Stealth-T), or more purposeful lighting (Brightline T-Series).
- Consider the basic principles of lighting: Key, Fill and Back lighting.
  - Backlighting will help to make the body stand out in front of a background.
  - Mixing fixture types and intensity levels may create a "key -fill" effect, providing more three-dimensionality to the face.
  - Plan the fixtures to be positioned at 45 deg. to eliminate facial shadowing.
- Lighting control is vital in achieving the best possible image for VC work. Brightline T-Series utilise a range of focusing screens to control the beam angles of each fixture. These are Broad, Medium and Narrow Field. Combining beam angle control and output level (dimming) of each fixture, an image which shows facial features, good general area and depth of field will ensure a quality VC image will be projected to the VC receiver maximising effective communication which being the purpose of VC.

## Introduction to Lighting Concepts cont...

### Lighting Plan Examples

Examples of How to Light One Key Seating Position

Fixture Number	Product Code	Function
1	BRT02X2RMSMM Teamed with a Narrow Control Screen	Back light
2	BRT02X2RMS45 Teamed with a Medium Control Screen	Key Light
3	BRT02X2RMS45 Teamed with a Broad Control Screen	Fill Light



## Introduction to Lighting Concepts cont...

### Lighting Plan Examples

Example of How to Light Three Key Seating Positions

Fixture Number	Product Code	Function
1,2,3 and 4	BRT02X2MMS45 Teamed with a Medium Control Screen	Key and Fill Lights - 45° angle is important
7 and 8	BRT01X2RMSOM Teamed with a Prismatic Lens	Back Light for talent
5 and 6	BRT02X2MMSOM Teamed with a Broad Control Screen	Lighting for the back wall – add depth to overall image

