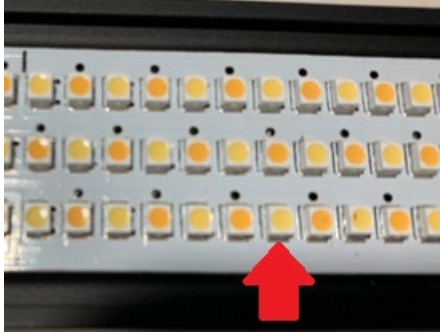
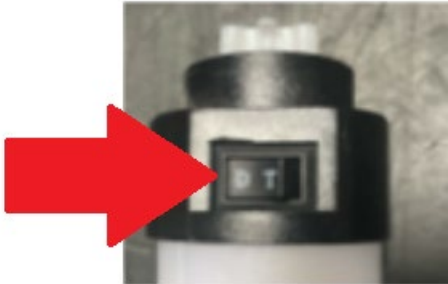


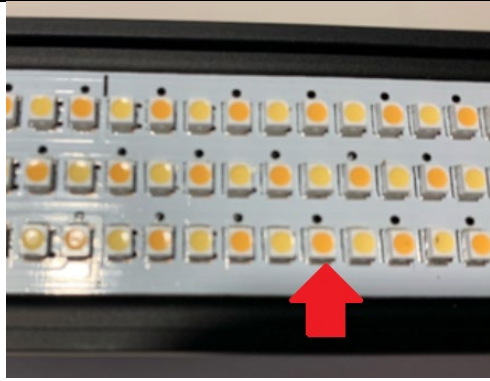
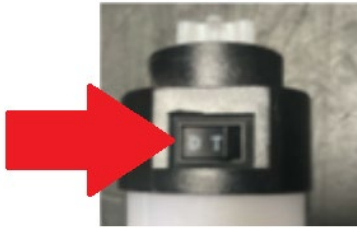
U.S. Patent No. 10,566,895 vs Colt's Bicolor LED Tubular Lights

Claim 1	Colt's Bicolor LED Tubular Lights
An LED light system configured for providing broad-spectrum white light suitable for a commercial image recording, in a form factor of a fluorescent light tube lamp, the LED light system comprising:	Colt's Bicolor LED Tubular Lights provide broad spectrum white light suitable for commercial image recording and Colt's Bicolor LED Tubular Lights have the form of a fluorescent tube.  Ex. 2052 at PDF 1 and Ex. 2068 (Macias Decl.), ¶39
a. a housing having ends and	Colt's Bicolor LED Tubular Lights have a housing (red arrow B) with end caps (red arrow A) at their ends.  Ex. 2052 at PDF 1
including a support structure in a form of an elongated and narrow surface having a top side and a bottom side;	Colt's Bicolor LED Tubular Lights include a support structure (red arrow) that has a long narrow surface with top and bottom sides.  Ex 2052 at PDF 1

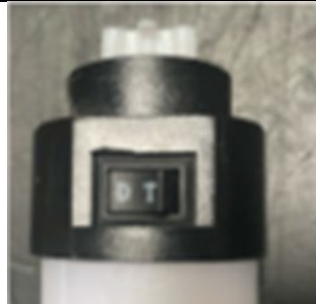
U.S. Patent No. 10,566,895 vs Colt's Bicolor LED Tubular Lights

b. a plurality of first LEDs mounted on the top side of the support structure and configured to emit broad-spectrum white light in a first predetermined Kelvin temperature range of cool white light;	Colt's Bicolor LED Tubular Lights include a first set of LEDs (yellow-ish LEDs at red arrow) mounted on the support structure configured to emit white light in the Kelvin temperature range of cool white.  Ex2052 at PDF 1 and Ex2068 (Macias Decl.), ¶39. There is a switch for daylight "D" (red arrow) to use the daylight (cool) white LEDs  Ex2052 at PDF 1
c. a plurality of second LEDs mounted on the top side of the support structure and configured to emit broad-spectrum white light in a second predetermined Kelvin temperature range of warm white light;	Colt's Bicolor LED Tubular Lights include a second set of LEDs (orange-ish LEDs - red arrow) mounted on the support structure configured to emit warm white light.

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	 Ex2052 at PDF 1 and Ex2068 (Macias Decl.), ¶39. There is a switch for tungsten “T” (red arrow) to use the tungsten (warm) white LEDs  Ex2052 at PDF 1
d. electronic circuitry mounted to the support structure	Colt's Bicolor LED Tubular Lights include circuitry (red arrows) mounted to the support structure that includes a circuit that provides power to the LEDs.  Ex2052 at PDF 1 and Ex2068 (Macias Decl.), ¶39.
[the circuitry] including an LED driver circuit configured for driving (i) the first LEDs, to provide light in the first predetermined Kelvin temperature range; or (ii) the second LEDs, to provide light in the second predetermined Kelvin temperature range,	Colt's Bicolor LED Tubular Lights use a switch (“D” or “T”) enabling selection between cool white LEDs on and warm white LEDs on.

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Ex2052 at PDF 1

The switch in Colt's Bicolor LED Tubular Lights switches the electronic circuit path to selectively power the first LEDs with the second LEDs off or the second LEDs with the first LEDs off.



Ex2052 at PDF 1

The LED driver circuitry (generally at red arrow below) is shown below.



Ex2052 at PDF 1 and Ex2068 (Macias Decl.), ¶39.

wherein the first and second predetermined Kelvin temperature ranges are nonoverlapping, and

In Colt's Bicolor LED Tubular Lights, the kelvin temperature range of the first and second LEDs are non-overlapping.

Daylight (cool) and Tungsten (warm) are not overlapping.

Ex2068 (Macias Decl.), ¶39

Claim Chart U.S. Patent No. 10,566,895 v S-Switch Lights

including a printed circuit board mounted to the support structure for carrying electrical power from a connection to the LED driver circuit and then to the first and second LEDs; and	Colt's Bicolor LED Tubular Lights include a printed circuit board (top photo - generally at red arrow) mounted to the support structure (bottom photo - generally at red arrow) that connects to the LED driver circuit.  Ex2052 at PDF 1; Ex2068 (Macias Decl.), ¶39
e. an elongate cover extending substantially a length of the support structure and covering the top side of the support structure for diffusing light emitted by the first and second LEDs; and	Colt's Bicolor LED Tubular Lights include a cover (red arrow) that extends substantially the length of the support structure and covers the top side of the support structure and that diffuses the emitted light.  Ex2052 at PDF 1
f. wherein the housing and cover together have an elongate linear form factor,	Colt's Bicolor LD Tubular Lights have a housing and cover have an elongate linear form factor.

Claim Chart U.S. Patent No. 10,566,895 v S-Switch Lights

	 Ex. 2052 at PDF 1 and Ex. 2068 (Macias Decl.), ¶39
g. wherein the LED light system is configured for receiving input power to be provided to the LED driver circuit to selectively light the first or second LEDs, and	Colt's Bicolor LED Tubular Lights have a connection (the pins) at one of the ends (marked "input") for receiving power that will be provided to the LEDs.  Ex2052 at PDF 1 and Ex. 2068 (Macias Decl.), ¶39
h. wherein the first and second LEDs are disposed in a plurality of rows distributed along the length of the top side of the support structure to emit light, when selectively lit by the LED driver circuit, along the length of the top side of the support structure,	In Colt's Bicolor LED Tubular Lights, the first and second sets of LEDs (yellow-ish and orange-ish LEDs respectively) are equally distributed in three rows along the length of the support structure.  Ex2052 at PDF 1; Ex. 2068 (Macias Decl.), ¶39

Claim Chart U.S. Patent No. 10,566,895 v S-Switch Lights

i. wherein the light is diffused by the cover and	In Colt's Bicolor LED Tubular Lights, the light is diffused by a cover.  Ex2052 at PDF 1
[the light] is suitable for the commercial image recording both when the emitted light from the LED light system is in the first temperature range of cool white light and when the emitted light from the LED light system is in the second temperature range of warm white light, and	The light produced by Colt's Bicolor LED Tubular Lights is suitable for commercial image recording when either the first or second sets of LEDs are illuminated. See below re elements j.(i), (ii) and (iii).
j. wherein the light emitted from the LED light system is said suitable for the commercial image recording when said emitted light:	The light produced by Colt's Bicolor LED Tubular Lights is suitable for use in commercial image recording as shown below in elements j.(i), (ii) and (iii).
(i) is at least 1000 lumens when the first LEDs are lit and is also at least 1000 lumens when the second LEDs are lit;	Colt's Bicolor LED Tubular Lights produce at least 1000 lumens when on daylight (cool) and also when on tungsten (warm). Ex2068 (Macias Decl.) at ¶39
(ii) is broad-spectrum white light having a color deviation corresponding to less than five points of green and less than five points of magenta (5M, 5G) of color compensation (CC), and	Colt's Bicolor LED Tubular Lights have broad-spectrum white light with less than five points of green and less than five points of magenta (5M, 5G) of color compensation (CC). Ex2068 (Macias Decl.) at ¶39

Claim Chart U.S. Patent No. 10,566,895 v S-Switch Lights

(iii) has a color rendering index of light emitted from each of the first LEDs or each of the second LEDs, whichever respective plurality of first or second LEDs is lit, that is greater than 90.	Colt's Bicolor LED Tubular Lights have a color rendering index (CRI) greater than 90. Ex2068 (Macias Decl.) at ¶39
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Claim 3	Colt's Bicolor LED Tubular Lights
The LED light system of claim 1, wherein the first LEDs are each configured to emit light with a color temperature between 5000 K and 5800 K, and the second LEDs are each configured to emit light with a color temperature between 2800 K and 3300 K.	Colt's Bicolor LED Tubular Lights have a switch to select between a cool color temperature (daylight) and a warm color temperature (tungsten) Ex2068 (Macias Decl.) at ¶39 (switch between approximately 5600K and 3200K)

Claim 6	Colt's Bicolor LED Tubular Lights
The LED light system of claim 1, wherein the first and second LEDs are phosphor-based light emitters.	Colt's Bicolor LED Tubular Lights have LEDs that emit white light and so are phosphor-based. The first and second sets of LEDs are the yellow-ish and orange-ish LEDs respectively. Both sets of LEDs are phosphor LEDs.  Ex2052 at PDF 1 Ex2068 (Macias Decl.) at ¶39

Claim Chart U.S. Patent No. 10,566,895 v S-Switch Lights

Claim 8	Colt's Bicolor LED Tubular Lights
The LED light system of claim 1, wherein the housing has a length of about four feet.	Colt's Bicolor LED Tubular Lights have a version that is four feet long. Ex2068 (Macias Decl.) at ¶39

Claim 9	Colt's Bicolor LED Tubular Lights
The LED light system of claim 8, wherein the housing has a cross-sectional dimension of no greater than about 41 mm.	Colt's Bicolor LED Tubular Lights are size T12 or less and thus have a cross section of about 1.5" and thus are no greater than 41 mm (1.5" x 25.4 mm/in = 38.1 mm) Ex2051 (Hoffman Decl.) at ¶12

Claim 12	Colt's Bicolor LED Tubular Lights
The LED light system of claim 1, further comprising a power supply configured to provide at least 42 watts, and	Colt's Bicolor LED Tubular Lights have a power supply that provides at least 42 watts of power. Ex2068 (Macias Decl.) at ¶39
wherein the LED driver is configured to selectively drive the first LEDs with at least 42 watts and the second LEDs with at least 42 watts.	In Colt's Bicolor LED Tubular Lights, the LED driver provides at least 42 watts to the first or second LEDs, and Colt's Bicolor LED Tubular Lights using a switch enabling selection between cool white LEDs on and warm white LEDs on. Ex2068 (Macias Decl.) at ¶39

Claim Chart U.S. Patent No. 10,566,895 v S-Switch Lights

Claim 13	Colt's Bicolor LED Tubular Lights
The LED light system of claim 8, further comprising a power supply configured to provide at least 42 watts, and	Colt's Bicolor LED Tubular Lights have a power supply that provides at least 42 watts of power. Ex2068 (Macias Decl.) at ¶39
wherein the LED driver is configured to selectively drive the first LEDs with at least 42 watts and the second LEDs with at least 42 watts.	In Colt's Bicolor LED Tubular Lights, the LED driver provides at least 42 watts to the first or second LEDs, and Colt's Bicolor LED Tubular Lights using a switch enabling selection between cool white LEDs on and warm white LEDs on. Ex2068 (Macias Decl.) at ¶39