

Dazor Lighting Technology**Quantification of LED Advantages for Bricolage light sources**

September 29, 2017

<u>Model</u>	<u>Light Characteristic</u>	<u>"White" Light</u>		<u>"UV" Light</u>	
		<u>Fluorescent</u>	<u>LED</u>	<u>Fluorescent</u>	<u>LED</u>
17108	Package	F8T5	.3W SMD	F8T5	.3W SMD
17108	Light Color (CCT)	4100K	4000K	-	-
17108	Wavelength (nm)	-	-	370nm	370nm
17108	Color Quality (CRI)	60	80	-	-
17108	Power (Watts)	8	3	8	3
17108	Lumens (Lu)	320	840	-	-
17108	Footcandle (FC) @ 12"	56	140	-	-
17108	Energy @ 12" ($\mu\text{J}/\text{cm}^2$)	-	-	170	1,526
17108	Life (hours)	7,500	50,000	7500	50,000

Advantage - LED:

- 1 Greatly improved visual detection of impurities:
 - * 30%+ Better color rendering
 - * 2.5X Brighter white light
 - * 9X Stronger UV
- 2 Consumes 1.5X less energy
- 3 6X Longer life
- 4 Consistent white light color and quality between small and large box

<u>Model</u>	<u>Light Characteristic</u>	<u>"White" Light</u>		<u>"UV" Light</u>	
		<u>Fluorescent</u>	<u>LED</u>	<u>Fluorescent</u>	<u>LED</u>
17109	Package	F15T8	.3W SMD	F15T8	.3W SMD
17109	Light Color (CCT)	3000K	4000K	-	-
17109	Wavelength (nm)	-	-	370nm	370nm
17109	Color Quality (CRI)	52	80	-	-
17109	Power (Watts)	15	6	15	6
17109	Lumens (Lu)	845	840	-	-
17109	Footcandle (FC) @ 12"	40	67	-	-
17109	Energy @ 12" ($\mu\text{J}/\text{cm}^2$)	-	-	211	600
17109	Life (hours)	7500	50,000	7500	50,000

Advantage - LED:

- 1 Greatly improved visual detection of impurities:
 - * 30%+ Better color rendering
 - * 67% Brighter white light
 - * 3X Stronger UV
- 2 Consumes 1.5X less energy
- 3 6X Longer life
- 4 Consistent white light color and quality between small and large box