











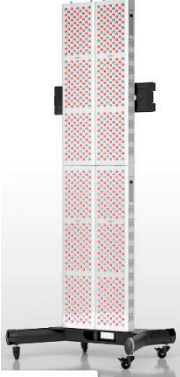

## SunPowerLED™ FEATURE COMPARISON

COMPANY & PRODUCT	SunPowerLED™ SuperPalm 1050™	Thor Large LED Cluster	Bales Photonics Home Model	UltraLux Red Pro
IMAGE				 (Battery operated)
SIZE	7.6 cm (diameter)	7.6 cm (diameter)	Small (unknown)	15 cm x 10 cm
TREATMENT AREA	40 cm <sup>2</sup>	45.4 cm <sup>2</sup>	Small (unknown)	120 cm <sup>2</sup>
Number of LEDs	Red            12 (30 LEDs/ 100cm <sup>2</sup> ) Near Infrared 10 (25 LEDs/ 100cm <sup>2</sup> )	Red            56 (123 LEDs/ 100cm <sup>2</sup> ) Near Infrared 48 (106 LEDs/ 100cm <sup>2</sup> ) (Old technology low-power LEDs)	Red            5 Blue            12 Near Infrared 850 nm    8 Near Infrared 940 nm    8	Total           12 (10 LEDs/ 100cm <sup>2</sup> ) (Both wavelengths together)
LED WAVELENGTH	Red                    660 nm Near Infrared        1050 nm	Red                    660 nm Near Infrared        850 nm	Red                    Unknown Blue                    Unknown Near Infrared        850 nm Near Infrared        940 nm	Red                    660 nm Near Infrared        850 nm
LIGHT POWER	Red                    6500 mW (6.5W) Near Infrared        7500 mW (7.5 W)	Red                    140 mW Near Infrared        360 mW	Red                    7.5 W Blue                    18.1 W Near Infrared        6.0 W Near Infrared        6.0 W	Total                    2.0 W (Est) (Both wavelengths)
IRRADIANCE	Red                    162 mW/cm <sup>2</sup> Near Infrared        187 mW/cm <sup>2</sup>	Red                    3.1 mW/cm <sup>2</sup> Near Infrared        7.9 mW/cm <sup>2</sup>	Red                    Unknown Blue                    Unknown Near Infrared        Unknown Near Infrared        Unknown	Red (Est)             8.3 mW/cm <sup>2</sup> Near Infrared (Est) 8.3 mW/cm <sup>2</sup>
PRICE	\$1900 USD	Unknown (Part of \$25,000 USD system)	\$8,000 USD approx.	\$550 USD

## SunPowerLED™ FEATURE COMPARISON

COMPANY & PRODUCT	SunPowerLED™ Mini Canopy	Platinum Biomax 450	Kala Red Light Pro Panel	UltraLux Red Mini
IMAGE				
SIZE	30.5 cm x 22.9 cm	48.3 cm x 30.5 cm	35.6 cm x 22.9 cm	38.1 cm x 20.8 cm
TREATMENT AREA	620 cm <sup>2</sup>	1473.2 cm <sup>2</sup>	780 cm <sup>2</sup> (estimated)	750 cm <sup>2</sup> (estimated)
Number of LEDs	Red 160 (25.8 LEDs/ 100cm <sup>2</sup> ) Near Infrared 150 (24.2 LEDs/ 100cm <sup>2</sup> )	Total 150 (25 for each wavelength) (1.7 LEDs/ 100cm <sup>2</sup> for each wavelength)	Red 42 (5W) (5.1 LEDs/ 100cm <sup>2</sup> ) Near Infrared 43 (5W) (5.2 LEDs/ 100cm <sup>2</sup> )	Total 132 (17.6 LEDs/ 100cm <sup>2</sup> ) (All wavelengths together) 660 W (Published)
LED WAVELENGTH	Red 660 nm Near Infrared 810 nm	480 nm, 630 nm, 660 nm, 810 nm, 830 nm, 850 nm	Red 660 nm Near Infrared 850 nm	Red 630nm, 660 nm Near Infrared 830 nm, 850 nm
LIGHT POWER	Red 63 W Near Infrared 60 W	8.7 W (each wavelength (Est)) (Assuming 80% of max. allowable power at 110VAC and 25% efficiency)	Red 21W (Assuming 80% of max. allowable power at 110VAC and 25% efficiency) Near Infrared 21.5W	16.5 W (each wavelength (Est)) (Assuming 80% of max. allowable power at 110VAC and 25% efficiency)
IRRADIANCE	Red 102 mW/ cm <sup>2</sup> Near Infrared 97 mW/ cm <sup>2</sup>	5.9 mW/cm <sup>2</sup> (for each wavelength)	Total (published) 170 mW/ cm <sup>2</sup> Red (est) 26.9 mW/ cm <sup>2</sup> Near infrared (est) 27.6 mW/ cm <sup>2</sup>	Total (published) <160 mW/ cm <sup>2</sup> Red (est) 22 mW/ cm <sup>2</sup> Near Infrared (est) 22 mW/ cm <sup>2</sup>
PRICE	\$5,900 USD	\$1,089 USD	\$799.99 CDN	\$695 USD

# SunPowerLED™ FEATURE COMPARISON

COMPANY & PRODUCT	SunPowerLED™ Canopy	NovoTHOR NovoTHOR XL	Kala Red Light Quad Panel	UltraLux Red Mini
IMAGE				
SIZE	91.5 cm x 45.8 cm	238 cm x 96 cm	178 cm x 40.6 cm	91.4 cm x 27.9 cm
TREATMENT AREA	3720 cm <sup>2</sup>	20,000 cm <sup>2</sup> (Estimated)	7,200 cm <sup>2</sup> (Estimated)	2,400 cm <sup>2</sup> (Estimated)
Number of LEDs	Red 960 (25.8 LEDs/ 100cm <sup>2</sup> ) Near Infrared 900 (25.8 LEDs/ 100cm <sup>2</sup> )	Unknown	Red 504 (5W) (5.25 LEDs/ 100cm <sup>2</sup> ) Near Infrared 516 (5W) (5.4 LEDs/ 100cm <sup>2</sup> )	Total 464 (19.3 LEDs/ 100cm <sup>2</sup> )
LED WAVELENGTH	Red 660 nm Near infrared 810 nm	Red 660 nm Near infrared 850 nm	Red 660 nm Near Infrared 850 nm	610nm, 630nm, 660nm, 810nm, 830nm, 850nm
LIGHT POWER	Red 378 W Near Infrared 360 W	Total 675 W Each wavelength 337.5 W	Red 252 W (Assuming 80% of max. allowable power at 110VAC and 25% efficiency) Near Infrared 258 W	Total 120 W (Assuming 80% of max. allowable power at 110VAC and 25% efficiency)
IRRADIANCE	Red 102 mW/ cm <sup>2</sup> Near Infrared 97 mW/ cm <sup>2</sup>	Total 33.8 mW/ cm <sup>2</sup> Each wavelength 16.9 mW/ cm <sup>2</sup>	Total (Published) 161 mW/cm <sup>2</sup> Red (Estimated) 25 mW/ cm <sup>2</sup> Near Infrared (Estimated) 25 mW/ cm <sup>2</sup>	Total (published) <170 mW/ cm <sup>2</sup> Each Wavelength 8.3 mW/ cm <sup>2</sup> (Estimated)
PRICE	\$35,000 USD	\$150,000 USD	\$6,000 CDN	\$1,995 USD