



Lullaby™ LED Phototherapy System



Excellent clinical
performance, effortlessly
achieved, for a lifetime
of savings

It always starts with excellent clinical performance

Optimal 458 nm wavelength

Our LEDs focus tightly on the optimal wavelength (450-465 nm) to help maximize bilirubin metabolism.

Ideal irradiance levels

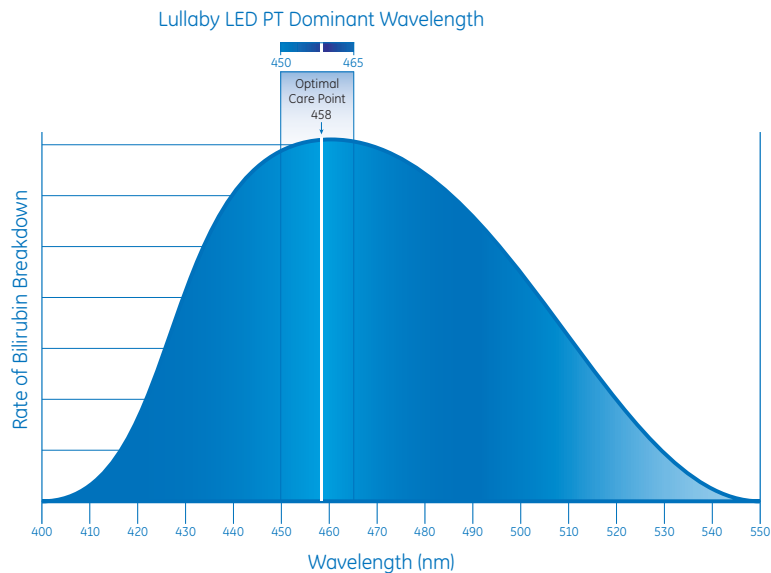
With a high irradiance of 45 $\mu\text{W}/\text{cm}^2/\text{nm}$ and a low irradiance at 22 $\mu\text{W}/\text{cm}^2/\text{nm}$, Lullaby LED allows treatment tailored to each patient's needs.

Uniform light distribution

Our optical design ensures uniform light distribution to the patient's exposed surface area, to help maximize bilirubin metabolism.

Maximizing treatment area

Maximizing treatment area of total body surface area by combining Lullaby LED with BiliSoft™ phototherapy



Lullaby LED focuses tightly on the optimal 458 nm wavelength to help maximize bilirubin metabolism.

Designed to provide optimal care for infants

No spill, no glare

Our innovative optical design minimizes spill light outside the bed so neither caregivers nor other patients receive undesired exposure to light from the Lullaby LED.



Spectral Irradiance vs Distance

Distance from hood bottom to bed surface (cm)	Surface Area (L x W cm)	Irradiance max (cm ²)	Mean Irradiance (cm ²)
35	50 x 30	45	35
40	50 x 30	40	31
50	50 x 30	31	25

Using an Ohmeda Medical BiliBlanket Meter II

Treat the patient, not the equipment

The Lullaby LED is designed to be user friendly and provide worry-free operation day after day.

Removable head – For seamless use with incubators

Light weight – Only 9.98 kg for exceptional maneuverability

Ultra compact – Small footprint takes minimal space

Adjustable height – By up to 45.72 cm

Lamp unit tilt – Up to 90° tilt, allowing use in conjunction with a radiant warmer. There may be a drop in the incident irradiance when used in the tilted condition

Omnidirectional, small wheels – Slide under most bassinets or warmers

Quiet operation – Designed with no fan and no other mechanical moving parts

Innovative optical design – Minimizes spill light outside the bed



An investment for today and tomorrow

Almost 6 years of night and day performance

Our LEDs are rated to last up to an incredible 50,000 hours¹ before requiring replacement.

Only 20-watt power consumption

Operating at just 20 watts the Lullaby LED can offer energy savings over the life of the LEDs.

¹ Before a 30% drop in irradiance. Rating is by LED manufacturer under specified operating conditions



Performance specifications

Spectral irradiance**	High irradiance mode: > 45 $\mu\text{W}/\text{cm}^2/\text{nm}$ Low irradiance mode: > 22 $\mu\text{W}/\text{cm}^2/\text{nm}$
Wavelength range	Dominant wave length range of 450-465 nm Irradiance measured by placing the LED PT head parallel to bed and at a height of 35 cm.
LED lamps	LED lamps are rated to last up to 50,000 hours at high power (with 30% lumen depreciation)
Maximum noise level	22.4 dB (A)

Physical specifications

Overall dimensions (L x W x H)	53.01 cm x 53.01 cm x 170.00 cm (at maximum height)
Total unit weight	22.05 lbs (10.00 kg)
Footprint	53.01 cm x 53.01 cm
Height adjustment	113 cm to 160.02 cm from light source to floor Adjustment of 46.99 cm
Lamp unit weight	2.0 kg
Lamp unit dimensions	35.99 cm x 23.01 cm x 8.00 cm
Lamp unit tilt	Continuous up to 90°
Effective surface area	50.01 cm x 29.0 cm x 35.0 cm) in from the light source
Uniformity ratio	> 0.4 (IEC Compliant)

Packaging details

Box dimensions	170.01 cm x 50.01 cm x 21.01 cm
Total package weight	13.50 kg

Electrical specifications

20 W maximum at 100-240 V ~ 50/60 Hz	
Overheat protection	Power cutoff for temperature $\geq 85^\circ\text{C}$
Touch current	Less than 500 μA at 264 VAC RMS (power on) with ground intact for normal and reverse polarity and with ground open for normal and reverse polarity

Environmental operations

Ambient temperature	+10° C to 40° C
Humidity	20% to 95% RH non-condensing
Atmospheric pressure	70 kPa to 106 kPa

Storage and transportation requirements

Temperature	0° F to +158° F (-17.78° C to +70° C)
Humidity	10% to 95% RH non-condensing
Atmospheric pressure	50 kPa to 106 kPa

Regulatory standards

IEC class 1	TUV Rheinland CB certified to the (continuous operation) following standards: IEC 606001-2-50; IEC 60601-1; IEC 60601-1-2
EMC class-A	Certified under IECEE CB scheme, CISPR 11, group 1

Ordering information

Lullaby LED Phototherapy	2089203-001
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Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost.

In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

** The irradiance might vary within the range of $\pm 25\%$ depending upon operating conditions.



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