

Start Measuring Samples

The Beacon measures the potency percent (percent weight) of each of these values: THC-A, Delta-9 THC, Total THC, Total Potential THC, CBD-A, CBD, Total CBD and Total Potential CBD*

On the touchscreen, choose your sample type and continue:

Dry Sample (Buds, Trimmings)

- **1** Clean the measurement window, ensuring there is no residue or haze remaining.
- **2** Place the clean, empty bud holder on the measurement window, aligning the holder with the adjacent pins.
- **3** Loosely fill the bud holder all the way to the top with ground sample.
- **4** Press the bud holder cap in place, which compresses the sample for measurement.
- **5** Press CALC to obtain the potencies for the sample.
- 6 Once the potencies are displayed on the touchscreen, enter the relevant information regarding the product name, sample type, and your name.
- 7 Press PRINT to print out the CannaMetric[™] Profile Label.







Concentrate (Extracts, Waxes, Hash, Kief)

A disposable sample cell is used to measure concentrates. The cell contains an external reflector (the white side) that is used to pass the light shone through the sample, back through the

sample, and on to the instrument detector.

- Snap the disposable sample cell halves together. Place the empty disposable sample cell onto the measurement window such that the round indentation in the center of the disposable is on the bottom, close the lid, and press [NEXT]. This will establish a baseline measurement for just the sample cell.
- **2** Using the **same** sample cell, add the concentrate to the indentation inside the sample cell. which is the sample well, and snap the cell shut. We recommend adding a small amount with a spatula and spreading evenly in the sample well. Only fill the round well; there is no need to fill the entire inside of the sample cell, as only the sample contained in the well will be measured. Given the thickness of these types of samples, a little can go a long way.
- Place the disposable sample cell onto the 3 measurement window such that the round indentation in the center of the disposable is on the bottom, close the lid, and press NEXT The cell is designed to fit in the square portion of the Beacon measurement window.
- **4** Press CALC to obtain the potencies for the sample.
- **5** Once the potencies are displayed on the touchscreen, enter the relevant information regarding the product name, sample type, and your name.
- 6 Press (PRINT) to print out the CannaMetric[™] Profile Label.



*Refer to the "Cannabinoid Explanation" sheet for further information on each of these values.





The Luminary[™] Beacon Quick Start Guide



Beacon

Disposable sample cell

Label Printer

The Beacon performs an instantaneous and accurate measurement of potency in cannabis products. It shines and analyzes near infrared light to report on information about the molecules in each sample.

The Beacon uses light. Measurement accuracy requires cleanliness.

Set Up the System Start the Beacon Wait 20 Minutes for Warm Up Connect the CannaMetric[™] Label Printer Clean the Measurement Window Conduct a Black Calibration Conduct a White Calibration **Start Measuring Samples**

Note: Steps 2 through 6 must be conducted every time the Beacon is turned off and back on again.



- **1** Carefully remove the Beacon from the box.
- **2** Place the unit on a flat and stable work surface. Keep it away from any bright lights or strong air flow, such as a fan.
- **3** Plug in the Beacon and turn it on.





AC power connection

Power switch



Start the Beacon Interface

After turning on the Beacon base, a blank screen will appear, followed by a screen indicating that the system is loading (which takes approximately 30 seconds). Once the system has loaded, you will be automatically taken to Step 3.



Wait 20 Minutes for Warm Up

When you first turn it on, the Beacon requires 20 minutes for the lamp to warm up and reach a stable system temperature. On the touchscreen, the warm up window looks like this:



Connect the CannaMetric[™] Profile Label Printer

Place the label printer next to the Beacon, and connect using the USB connection port in the back of the Beacon. The power cable on the printer should be connected to the printer and the wall outlet.







Clean the Measurement Window

The Beacon sees the sample through the measurement window. It is critical to keep this window clean by using rubbing alcohol wipes.

- 1 Clean the measurement window with alcohol wipes and allow to completely dry.
- **2** If the wipe leaves a foggy residue, wipe off with a clean, lint-free cloth

Tips

- The cleaner the window the more of the sample is detected and reliably measured.
- Clean the window after every measurement.
- Let the window dry completely before you place a sample on it.
- The window is made of sapphire and is very difficult to scratch (but please don't try).



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Conduct a Black Calibration

A daily calibration is required to normalize the system. It must be known how the Beacon responds to the maximum amount of light coming into the window (white calibration) and no light coming in (black calibration).

1 To perform the black calibration, simply close the sample holder lid, and press NEXT. The system will conduct the calibration, and will move on to the white calibration screen.





Conduct a White Calibration

1 Get the white reference puck:





3 Press NEXT to perform the calibration then remove and appropriately store the puck.

The white reference is encapsulated in glass. Be careful not to touch the white area, get it dirty, or scratch the glass. The Beacon assumes the white area is 100% reflective for producing a maximum signal for measurement. Use the rubbing alcohol wipes to clean it when necessary.