

# Labino MB 3.0 Series

*UV LED Inspection Lights*



**THE PERFECT TOOL!**

## **AN EXTREMELY ROBUST, LIGHTWEIGHT & COMPACT UV INSPECTION LIGHT**

This compact light is simply Genius! A combination of smart mechanics and efficient electronics, designed to survive extreme temperatures and harsh working conditions, 24x7. Penetrant resistant and certified with an ingress protection marking of IP68 Waterproof. Battery running times are up to 3.5 hours.

There are four **MB 3.0 Series** models, **Zeus**, **Hermes**, **Selene** and **Atlas**. Depending on the model, the beam diameter is 8-9 inches / 20-22 cm and with intensities that vary from  $\approx 4,500$  to  $9,000 \mu\text{W}/\text{cm}^2$ . Zeus and Selene are equipped with a strong white light as well. Spray can holder accessory Athena is available factory installed or as a later addition (PN: A503)

**MB 3.0 Series** products **Zeus**, **Hermes**, **Selene** and **Atlas** are lights with UV-A output. They are compact and weigh less than many comparable products but are extremely robust in nature, designed for heavy industries with very difficult operating environments. The AC (mains) operated model weighs just 650 grams (1.4 lbs) and the battery operated model weighs just 680 grams (1.5 lbs).

The **MB 3.0 Series** has been specifically designed to meet the ASTM E3022-18 and ISO 3059-12 standards as well requirements set by the PRIMES. The optics used in the MB 3.0 Series meet the Rolls-Royce RRES 90061 specification. The beam profile of the UV light is extremely homogenous without any footprints showing from the LEDs, shades, dark spots or other disturbing defects.

The estimated LED lifetime is 30,000 hours, they have a peak wavelength of  $365\text{nm} \pm 5\text{nm}$  and are 100% free from UV-B.

The light is compact in size in a housing diameter of just 3.15 inches (8 cm)!

|  |  |  |  |  |  |                                       |
|--|--|--|--|--|--|---------------------------------------|
| COMPLIES WITH<br>ASTM E3022-2015<br>Standard | COMPLIES WITH<br>Rolls-Royce RRES 90061<br>Specification | COMPLIES WITH<br>Airbus AITM6-1001<br>Testing Method | COMPLIES WITH<br>Pratt & Whitney<br>Requirements | COMPLIES WITH<br>The Boeing Co<br>Requirements | COMPLIES WITH<br>ISO 3059-12<br>Standard | COMPLIES WITH<br>USAF<br>Requirements |
|--|--|--|--|--|--|---------------------------------------|

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*E & O.E*

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## Labino MB 3.0 Zeus & Hermes

### MB 3.0 Zeus

(Mains model PN: L119, Battery model PN: L118)

### MB 3.0 Hermes

(Mains model PN: L121, Battery model PN: L120)



**MB 3.0 Zeus** and **MB 3.0 Hermes** have been tested to comply with both ASTM E3022-18 and ISO 3059-12 standards as well as with the internal requirements of all PRIMES, including Rolls-Royce RRES 90061 and Airbus AITM6-1001. **MB 3.0 Hermes** is also in compliance with USAF. These UV lights generate an intensity of approximately 4,500  $\mu\text{W}/\text{cm}^2$  at 38 cm (15 inches) and the battery version has a running time of 3.5 hours.

Difference between Zeus and Hermes: Zeus is equipped with a strong white light LED that generates 1,076 lux (100 fc) for after inspection. Hermes does not have a white light LED for organizations that do not allow use of white light.

The battery versions of **MB 3.0 Zeus** and **MB 3.0 Hermes** have a useful accessory, the Athena spray can holder, which works with all aerosol brands. Get it factory installed or add one later (PN: A503).

**MB 3.0 Zeus** (battery) with Athena, PN: L122.

**MB 3.0 Hermes** (battery) with Athena, PN: L123.

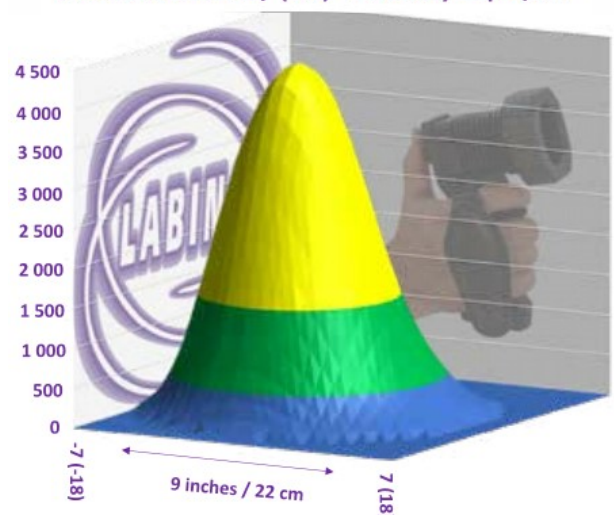
### FACTS ABOUT MB 3.0 ZEUS, MB 3.0 HERMES

| Output Characteristics                  | MB 3.0 Zeus<br>MB 3.0 Hermes                   |
|---|--|
| Intensity                               | $\approx 4\,500 \mu\text{W}/\text{cm}^2$       |
| Visible light                           | $< 2 \text{ lux} / 0.2 \text{ fc}$             |
| Beam $> 1\,000 \mu\text{W}/\text{cm}^2$ | $\varnothing 9 \text{ inches} / 22 \text{ cm}$ |

At a distance of 38 cm (15 inches)

**Beam profile  $> 1\,000 \mu\text{W}/\text{cm}^2$  measured at 15 inches / 38 cm of Zeus and Hermes:**

Beam Size in inch / (cm) - intensity in  $\mu\text{W}/\text{cm}^2$



# Labino MB 3.0 Series

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## Labino MB 3.0 Selene & Atlas

### MB 3.0 Selene

(Mains model PN: L139, Battery model PN: L138)

### MB 3.0 Atlas

(Mains model PN: L125, Battery model PN: L124)



**MB 3.0 Selene** and **MB 3.0 Atlas** have been tested to comply with ASTM E3022-18 and ISO 3059-12 standards. Both models comply with Airbus AITM6-1001 at a working distance of 21 inches (53 cm). MB 3.0 Atlas complies with the internal requirements of US Airforce as well. These UV lights generate an intensity of approximately 9 000  $\mu\text{W}/\text{cm}^2$  at 38 cm (15 inches) and the battery version has a running time of 2.5 hours.

Difference between Selene and Atlas: Selene is equipped with a strong white light LED that generates 1 076 lux (100 fr) for after inspection. Atlas does not have a white light LED for organizations that do not allow use of white light.

The battery versions of **MB 3.0 Selene** and **MB 3.0 Atlas** have a useful accessory, the Athena spray can holder, which works with all aerosol brands. Get it factory installed or add one later (PN: A503).

**MB 3.0 Selene** (battery) with Athena, PN: L140.

**MB 3.0 Atlas** (battery) with Athena, PN: L126.

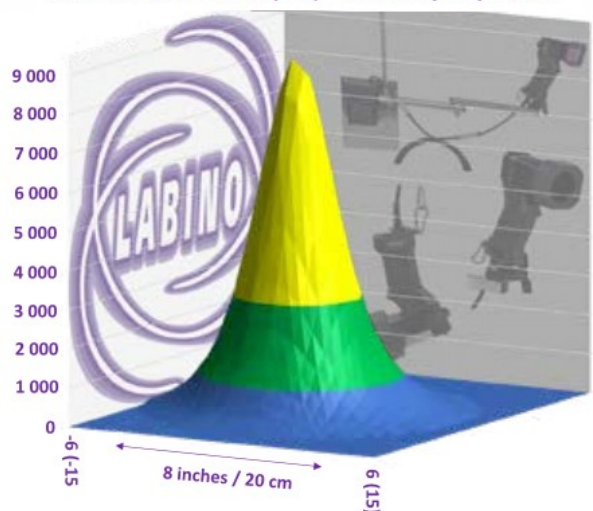
**Beam profile > 1 000  $\mu\text{W}/\text{cm}^2$  measured at 15 inches / 38 cm of Selene and Atlas:**

Beam Size in inch / (cm) - intensity in  $\mu\text{W}/\text{cm}^2$

### FACTS ABOUT MB 3.0 SELENE, MB 3.0 ATLAS

| Output Characteristics                 | MB 3.0 Selene<br>MB 3.0 Atlas             |
|--|---|
| Intensity                              | $\approx 9\,000\ \mu\text{W}/\text{cm}^2$ |
| Visible light                          | < 4 lux / 0.4 fc                          |
| Beam > 1 000 $\mu\text{W}/\text{cm}^2$ | $\varnothing$ 8 inches / 20 cm            |

At a distance of 38 cm (15 inches)





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## TECHNICAL DATA

|                                    | <b>MB 3.0 Zeus, MB 3.0 Hermes,<br/>MB 3.0 Selene and MB 3.0 Atlas</b> |
|------------------------------------|---|
| UV LED:                            | 4 (MB 3.0 Zeus, MB 3.0 Hermes)<br>3 (MB 3.0 Selene, MB 3.0 Atlas)     |
| Wavelength:                        | 365 nm (peak) +/- 5 nm  |
| Estimated LED life time:           | 30 000 hours  |
| UV-B:                              | 100% free from UV-B   |
| Filter:                            | White light block filter  |
| Power supply:                      | Battery and Mains   |
| Weight Battery:                    | 680 grams (1.5 lbs)   |
| Weight Mains:                      | 650 grams (1.4 lbs)   |
| Zeus/Hermes Battery running time:  | 3.5 hours (+/- 5%)  |
| Selene/Atlas Battery running time: | 2.5 hours (+/- 5%)  |



THE GLOBAL LEADER IN  
ULTRAVIOLET INSPECTION  
LIGHTS HAS YOU COVERED



### Battery Versions Include:

1 Lamp, 1 Car Charger, 4 Batteries, 1 Carrying Case, 1 UV Block Goggles, 1 External Charger, 1 Rubber Bumper, 1 Power Supply for charging while operating, 1 belt holster & Manufacturers Test Report to relevant standards.



### Mains Versions Include:

1 Lamp, 1 PSU (Power Supply Unit), 1 Rubber Bumper, 1 UV Block Glasses, 1 Carrying Case & Manufacturers Test Report to relevant standards.



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## Labino MB 3.0 Series - UV LED Light Comparisons

|  | MB 3.0<br>ZEUS & HERMES   | MB 3.0<br>SELENE & ATLAS   |
|--|---|--|
| <b>Part No:</b>  | ZEUS Battery = L118<br>ZEUS Mains = L119<br>HERMES Battery = L120                     | SELENE Battery = L138<br>SELENE Mains = L139<br>ATLAS Battery = L124 |
| <b>Irradiance:</b>   | ≈ 4,500 $\mu\text{W}/\text{cm}^2$   | ≈ 9,000 $\mu\text{W}/\text{cm}^2$                                    |
| <b>Visible Light:</b>  | < 2 lux / 0.2 fc  | < 4 lux / 0.4 fc   |
| <b>White Light LED</b><br>(for after Inspections)                        | ZEUS = YES  | SELENE = YES   |
| <b>Beam Diameter:</b><br>> 1,000 $\mu\text{W}/\text{cm}^2$ :             | 9 inches / 220 mm   | 8 inches / 200 mm  |
| <b>Battery Running Time:</b><br>(per battery pair, continuous operation) | 3.5 Hours (+/- 5%)  | 2.5 Hours (+/- 5%)   |
| <b>Complies With:</b>  | - ASTM E3022-2018<br>- ISO 3059-12<br>- Rolls-Royce RRES 90061<br>- Airbus AITM6-1001 | ASTM E3022-2018<br>- ISO 3059-12<br>- Airbus AITM6-1001              |

Compliance with relevant ASTM and ISO Standards as well as Industry Engineering specifications

| Labino AB<br>LED UV Lights            | Built in<br>White<br>Light LED | UV Intensity<br>at 38 cm (15")<br>( $\mu\text{W}/\text{cm}^2$ ) | COMPLIES WITH<br>ASTM E3022-2018<br>Standard | COMPLIES WITH<br>Rolls-Royce RRES 90061<br>Specification | COMPLIES WITH<br>Airbus AITM6-1001<br>Testing Method | COMPLIES WITH<br>Pratt & Whitney<br>Requirements | COMPLIES WITH<br>The Boeing Co<br>Requirements | COMPLIES WITH<br>ISO 3059-12<br>Standard | COMPLIES WITH<br>USAF<br>Requirements |
|---------------------------------------|--------------------------------|---|--|--|--|--|--|--|---------------------------------------|
| <b>MB 3.0 SERIES – HANDHELD LIGHT</b> |                                |   |  |  |  |  |  |  |                                       |
| <b>Hercules Ex</b>                    | –                              | ≈ 4 000   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓                                     |
| <b>MB 3.0 Zeus</b>                    | ✓                              | ≈ 4 500   | ✓  | ✓  | ✓  | ✓  | –  | ✓  | –                                     |
| <b>MB 3.0 Zeus with Athena</b>        | ✓                              | ≈ 4 500   | ✓  | ✓  | ✓  | ✓  | –  | ✓  | –                                     |
| <b>MB 3.0 Hermes</b>                  | –                              | ≈ 4 500   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓                                     |
| <b>MB 3.0 Hermes with Athena</b>      | –                              | ≈ 4 500   | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓                                     |
| <b>MB 3.0 Selene</b>                  | ✓                              | ≈ 9 000   | ✓  | –  | ✓  | ✓  | –  | ✓  | –                                     |
| <b>MB 3.0 Selene with Athena</b>      | ✓                              | ≈ 9 000   | ✓  | –  | ✓  | ✓  | –  | ✓  | –                                     |
| <b>MB 3.0 Atlas</b>                   | –                              | ≈ 9 000   | ✓  | –  | ✓  | ✓  | –  | ✓  | ✓                                     |
| <b>MB 3.0 Atlas with Athena</b>       | –                              | ≈ 9 000   | ✓  | –  | ✓  | ✓  | –  | ✓  | ✓                                     |

PLEASE NOTE: The above models are in compliance with the above ASTM and ISO standards as well as industry specifications as indicated on the table above irrespective of the power source (Battery or Mains).

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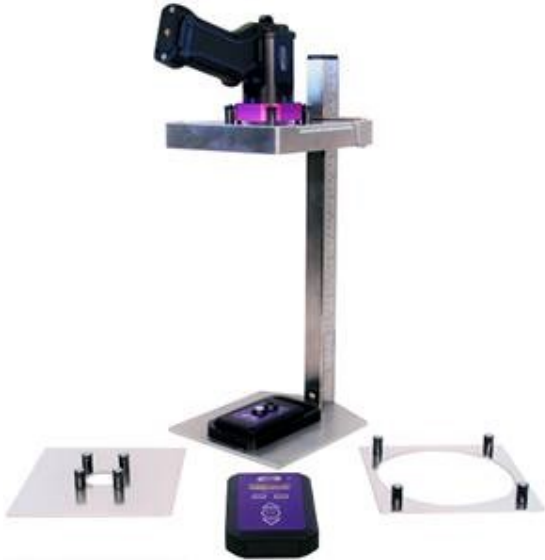
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## Accessories



A542

Olympus Measurement Stand



A533

MB Variable Gooseneck Arm



A530

Variable Friction Arm



F105

MB Thumb Screws



A504

MB Belt Holster



F111

Rubber Bumper

### **Other MB Versions include:**

*MB Hercules EX - Explosion Proof UV Light*

*MB Iris - Mountable UV Light*

*MB Poseidon - Blue LED Light*

*MB Aris - Forensic Alternate Light Source*

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