

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 365nm +/- 5nm and are 100% free from UV-B.

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



Advanced NDT Limited
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Worcester WR2 6NJ

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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.

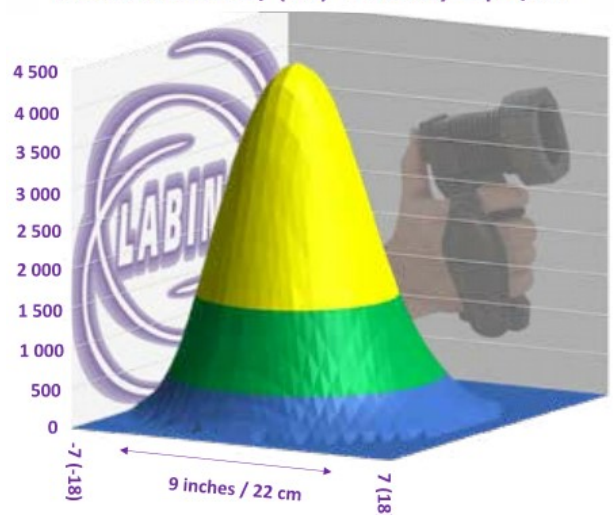
Beam profile > 1 000 $\mu\text{W}/\text{cm}^2$ measured at 15 inches / 38 cm of Zeus and Hermes:

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

FACTS ABOUT MB 3.0 ZEUS, MB 3.0 HERMES

| Output Characteristics | MB 3.0 Zeus 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)



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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.

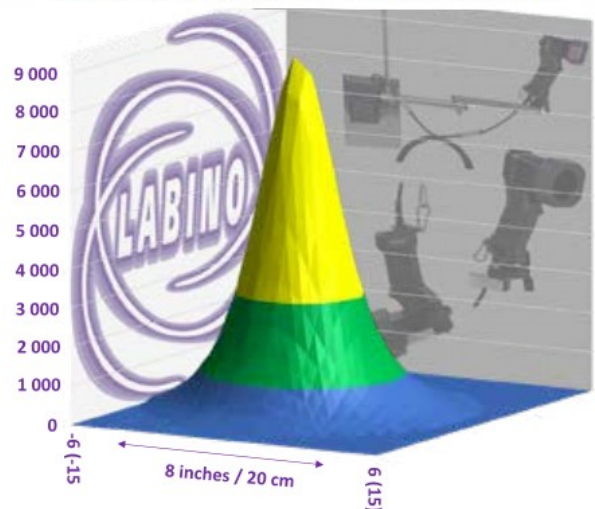
The battery versions of **MB 3.0 Selene** and **MB 3.0 Atlas** have a useful accessory, the Athena spray can holder, which works with all aerosol brands. Get it factory installed or add one later (PN: A503).

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

At a distance of 38 cm (15 inches)

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TECHNICAL DATA

| | MB 3.0 Zeus, MB 3.0 Hermes, MB 3.0 Selene and MB 3.0 Atlas |
|------------------------------------|---|
| UV LED: | 4 (MB 3.0 Zeus, MB 3.0 Hermes) 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 ZEUS & HERMES | MB 3.0 SELENE & ATLAS |
|---|--|--|
| Part No: | ZEUS Battery = L118 ZEUS Mains = L119 HERMES Battery = L120 HERMES Mains = L121 | SELENE Battery = L138 SELENE Mains = L139 ATLAS Battery = L124 ATLAS Mains = L125 |
| Irradiance: | ≈ 4,500 μw/cm ² | ≈ 9,000 μw/cm ² |
| Visible Light: | < 2 lux / 0.2 fc | < 4 lux / 0.4 fc |
| White Light LED <i>(for after Inspections)</i> | ZEUS = YES HERMES = NO | SELENE = YES ATLAS = NO |
| Beam Diameter: > 1,000 μw/cm² : | 9 inches / 220 mm | 8 inches / 200 mm |
| Battery Running Time: <i>(per battery pair, continuous operation)</i> | 3.5 Hours (+/- 5%) | 2.5 Hours (+/- 5%) |
| Complies With: | - ASTM E3022-2018 - ISO 3059-12 - Rolls-Royce RRES 90061 - Airbus AITM6-1001 | ASTM E3022-2018 - ISO 3059-12 - Airbus AITM6-1001 |

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

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