EA03HB series of LED luminaires are equipped with patented heat-dissipation design for higher energy efficiency and longer lifespan. An amazing saving of up to 78% in energy consumption can be realized by replacing your existing HID lighting source. EA03HB series of luminaires are ideal lighting solutions for High Bay such as warehouse and manufacturing facilities, as well as outdoor and commercial applications.

### Technical Specifications

#### Driver Info

<table>
<thead>
<tr>
<th>Input Watts:</th>
<th>40W</th>
<th>55W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency:</td>
<td>88.10%</td>
<td>88.60%</td>
</tr>
<tr>
<td>Type:</td>
<td>Constant Current</td>
<td>Constant Current</td>
</tr>
<tr>
<td>120V:</td>
<td>0.37A</td>
<td>0.50A</td>
</tr>
<tr>
<td>208V:</td>
<td>0.21A</td>
<td>0.29A</td>
</tr>
<tr>
<td>240V:</td>
<td>0.18A</td>
<td>0.25A</td>
</tr>
<tr>
<td>277V:</td>
<td>0.16A</td>
<td>0.22A</td>
</tr>
</tbody>
</table>

#### LED Info

<table>
<thead>
<tr>
<th>Watts</th>
<th>Base Type</th>
<th>CRI</th>
<th>Lumens</th>
<th>LPW</th>
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</thead>
<tbody>
<tr>
<td>3000K</td>
<td>40W</td>
<td>84</td>
<td>4800</td>
<td>120</td>
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<tr>
<td></td>
<td>55W</td>
<td>82</td>
<td>6600</td>
<td>120</td>
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<tr>
<td>4000K</td>
<td>40W</td>
<td>84</td>
<td>5200</td>
<td>130</td>
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<td></td>
<td>55W</td>
<td>82</td>
<td>7150</td>
<td>130</td>
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<tr>
<td>5000K</td>
<td>40W</td>
<td>84</td>
<td>5600</td>
<td>140</td>
</tr>
<tr>
<td></td>
<td>55W</td>
<td>82</td>
<td>7700</td>
<td>140</td>
</tr>
</tbody>
</table>

#### LED Characteristics

- **LEDs:** High-output, long-life LEDs.
- **Lifespan:** 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.
- **Color Consistency:** MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.
- **Color Stability:** LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period.

#### Color Uniformity:


#### Electrical

**Drivers (3):**

- Constant Current Output, Safety Output, 2kV surge protection, 100-277VAC, 50/60 Hz.

**THD:** 9.8% at 100-277V

**Power Factor:** 0.99 at 120V  0.91 at 277V

#### Construction

**Ambient Temperature:** Suitable for use in -25°C — 40°C ambient temperatures.

**Thermal Management:** Proprietary heat sink. Cast aluminum heat dissipation.

**Housing:** One-piece, die-formed aluminum housing and PC material shell, sealed by silicone ring, comply with IP65.

**Mounting:** Follow the installation guide to install the product.

**Lens:** Transparent PC material.

#### Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

**Green Technology:** Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

#### Shipping Weight (Per Carton):

- 40W: 26lbs (11.8kg)
- 55W: 39.5lbs (17.92kg)

#### Equivalency:

- 40W replaces 150W MHL/HID
- 55W replaces 250W MHL/HID

#### Dark Sky:

The product is compliant with dark sky certificate, but not certified.

#### Additional Accessories:

- E26 Enlarger
- E39/EX39 Reducer

Additional accessories are not included in the packaging, they are available upon request.
**EA03HB**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Watts</th>
<th>Input Voltage</th>
<th>Color Temp</th>
<th>Housing Color</th>
<th>Base Type</th>
<th>Dimming</th>
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</thead>
<tbody>
<tr>
<td>40</td>
<td>UE</td>
<td>CW</td>
<td>W</td>
<td>E26</td>
<td>Blank=N</td>
</tr>
<tr>
<td>55</td>
<td>UE=AC100-277V</td>
<td>NW=4000K</td>
<td>WW=3000K</td>
<td>EX39=Mogul</td>
<td>EX39=Mogul</td>
</tr>
</tbody>
</table>

**Features**
- Replaces 150W MH high bays
- Reduces energy consumption by 73%
- 50,000-hour LED lifespan

**Features**
- Replaces 250W MH high bays
- Reduces energy consumption by 78%
- 50,000-hour LED lifespan
Thank you for purchasing ECOO luminaires and for investing in the future of eco-friendly products. By selecting ECOO luminaires, you have chosen a high-quality, eco-friendly product that is designed for years of dependable performance. We stand behind our products and are confident that you will have a peace of mind knowing that it is a reliable product.

This guide explains the steps necessary to install ECOO luminaires in a fixture. It is for reference only and is intended for qualified electricians or lighting technicians who are familiar with the construction and operation of the product and the hazards involved. Wiring modification for ECOO luminaires installation requires knowledge of luminaire electrical systems. If not qualified, DO NOT attempt this installation – Contact a qualified electrician or a lighting technician.


Warning: Before conducting any inspection, installation, maintenance, disable all power to the luminaire. ECOO luminaire are designed to work with 100V to 277V, AC. Ballast (if equipped) MUST be bypassed or removed from the fixture before installing the ECOO luminaire. See “Wiring Diagram” on backside. Failure to follow instructions can result in a damaged product and will VOID the Warranty. It could also result in an electric shock, or fire.

- Disable all power to luminaire before conducting any inspection, installation, maintenance, or removal. Failure to do so will create a hazardous and potentially fatal working environment.
- For use in Dry Locations Only. Do not use where directly exposed to Liquid, Vapor, Rain or Weather. Non-Submergible (not water tight).
- The installer must determine and verify whether the supply voltage is the same as the rated luminaire voltage before installation. Improper voltage matching can result in performance degradation and/or physical damage. These luminaires work on line voltage and require all Ballasts and Starters to be bypassed.
- Operate in fixtures that provide the free flow of air around the luminaires. In enclosed fixtures, ensure the luminaires has enough space for heat dissipation. This will ensure lumen maintenance and extend its lifespan. When luminaires are used inside an outdoor enclosure, ensure the enclosure is waterproof and well ventilated.

- Not intended for use in emergency exit fixtures or exit lights. Not for use with a dimmer or remote controls.
- Luminaire wiring, Ballast, or other electrical parts may be damaged during installation. Always check for loose wiring and components.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure for wiring or electrical components during installation.
- Do not block light emanating from luminaires in whole or part, as this may cause an unsafe condition.
- Installing surge/lightning protectors is highly recommended and helps to eliminate premature driver failure caused by surges and other power fluctuations.
Installation Instructions for ECOO Lamp:

1. Ensure circuit breaker is turned off and no power is going to the fixture.
2. Unscrew existing lamp and recycle appropriately.
3. Open/Access the ballast compartment and disconnect the ballast from the AC Mains and the socket. If existing system does not have a ballast, skip to Step 6.
4. Connect the AC Mains to the wires leading to the socket.
   a. To avoid the risk of electric shock, do not connect the “L” and “N” wire together.
   b. Use approved electrical insulating tape or wire caps to ensure that all the wires which were cut are well insulated or capped.
5. Close ballast compartment or Junction Box.
6. Apply the ECOO “Cautionary Label” where it can be seen by anyone installing or maintaining a lamp.
7. Screw-In ECOO Lamp.
8. After installation is completed, turn circuit breaker back on and Switch-on.

Note:
The SPD is an optional accessory, it's not included in the package, It is available upon request.

Caution:
Distance between SPD L, N, PG Wires, and ECOO Lamp must not exceed 3 ft. (1 m)
LIMITED WARRANTY

ECOO Inc. warrants to the original purchaser that all products sold will be free from defects in material and workmanship for a period of five (5) years from the date of original purchase. Special and custom orders carry ONLY one year warranty unless stated expressly. All returns must be approved and returned with shipping prepaid in original condition and in their original packaging.

If any product covered by this limited warranty is returned by the original purchaser and found to be defective, ECOO will, at its own discretion, repair or replace the product, or reimburse the original purchaser for the purchase price. ECOO will bear any freight cost that arises from shipping the replacement product back to the purchaser. If ECOO chooses to replace the product, and the particular product is not available, ECOO may have the discretion to replace it with a comparable product.

The limited warranty may be voided due to the following conditions:

• Purchaser’s continuing use of products after reporting the defect.
• Purchaser fails to store, install, operate, or maintain applicable products in accordance with ECOO’s operating instruction, or adhere to any of the electric codes, such as the National Electric Code (NEC), the Standards for Safety of Underwriters Laboratories (UL), or the American National Standards for the American National Standards Institute (ANSI).
• Purchaser alters, repairs or has service performed on the applicable product without ECOO’s prior written consent.
• Damage or failure to perform arising from any abuse, misuse, abnormal use, improper power supply, power surges, use of unauthorized components, vandalism, or in the event of Force Majeure.

THIS LIMITED WARRANTY SET FORTH ABOVE IS THE ONLY EXCLUSIVE WARRANTY GIVEN BY ECOO WITH RESPECT TO THE PRODUCTS AND SOLE REMEDY FOR ANY AND ALL CLAIMS, AND NO OTHER WARRANTIES OR ANY KIND, WHETHER STATUTORY, ORAL, WRITTEN, EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY. UNDER NO CIRCUMSTANCES SHALL ECOO BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR COMPENSATORY DAMAGES, INCLUDING, WITHOUT LIMITATION, DAMAGES RESULTING FROM LOSS OF USE, PROFITS, BUSINESS OR GOODWILL.

Warranty terms and policies are subject to change without notice.