**Installation Guide**

**HORT145 | A-1027542**

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**Arize® Life²**

**LED Lighting System**

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**STOP**

**BEFORE YOU BEGIN**

Read these instructions completely and carefully.

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**Save These Instructions**

Use only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.

The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

The external flexible cable or cord of this luminaire can not be replaced; if the cord is damaged, the luminaire shall be destroyed.

**Prepare Electrical Wiring**

*FOR UL ONLY*

**Electrical Requirements**

- Acceptable for use in dry, damp and wet locations.
- Follow all National Electric Codes (NEC) and local codes.

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**This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

CAN ICES-005 (A) / NMB-005 (A)

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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**For the latest North American install guides for your product go to:**
https://products.gecurrent.com/horticulture/arize-Life

**For the latest European install guides for your product go to:**
https://gecurrent.com/eu-en

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**GE current**

*a Daintree Company*
Please contact support at arize.support@gecurrent.com with regard to applications other than horizontal. In these applications, luminaires should not be directly interconnected and the male connector (power input) should be in the upward orientation with the female end facing down.

Electrical products must not be thrown out with domestic waste. They must be taken to a communal collecting point for environmentally friendly disposal in accordance with local regulations. Contact your local authorities or stockist for advice on recycling. The packaging material is recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection-service.

These photobiological safety markings are based on testing of the light output characteristic of a single horticultural luminaire. Increased exposure risk to facility personnel may be present depending upon the number of horticultural luminaires and their placement and/or positioning within the plant growth facility.

It is the responsibility of the plant growth facility to address these risks at the facility level and to ensure that people entering the plant growth areas while the lights are on, are aware of these risks and that appropriate safeguards are in place.

Suitable for operation in an ambient temperature between 32°F (0°C) and 104°F (40°C). A mechanical ventilation or cooling system is required to maintain the temperature within the growing space below 104°F (40°C) when the light module is in operation.

Opération compatible avec un environnement à température ambiante contrôlée entre 32°F (0°C) et 104°F (40°C). L'utilisation d'un système de contrôle de la température sera nécessaire pour garder la serre sous les 104°F (40°C) lorsque le luminaire est en fonction.

Please contact support at arize.support@gecurrent.com with regard to applications other than horizontal. In these applications, luminaires should not be directly interconnected and the male connector (power input) should be in the upward orientation with the female end facing down.

Conforms to the following standards:
- IP66 rated

Manufacturer:
Current Lighting Solutions LLC, 1975 Noble Road, Cleveland, Ohio 44112 USA

Importer:
UK: Current Lighting Limited, 3rd Floor, 1 Ashley Road, Altrincham, UK, WA14 2DT
EU: Current Netherlands B.V., Programmeurstraat 6, 1033MT Amsterdam, Netherlands

Part Number | IEC 62471 UL Only | IEC 62778 CE/UKCA Only | Min viewing distance (mm)
--- | --- | --- | ---
GEHL48HPPR3 | RG2 (Lb, Eb) | RG1 | N/A
GEHL48HPPB3 | RG2 (Lb) | RG2 | 447
GEHL48HPKR3 | RG1 | RG1 | N/A
GEHL48HPPF3 | RG2 (Eb) | RG2 | 352
GEHL48HPPB3 | RG1 | RG2 | 390
GEHL48HPKB3 | RG1 | RG1 | N/A
GEHL48HPKB3 | RG1 | RG2 | 390
GEHL48HPPV3 | RG2 (Eb) | RG2 | 359
GEHL96HPPR3 | RG2 (Eb, Lb) | RG2 | 420
GEHL96HPPB3 | RG2 (Eb) | RG2 | 530
GEHL96HPKR3 | RG0 | RG2 | 325
GEHL96HPPB3 | RG0 | RG2 | 325
GEHL96HPKR3 | RG0 | RG2 | 432
GEHL96HPKB3 | RG1 | RG2 | 257
GEHL96HPPV3 | RG2 (Eb, Lr) | RG2 | 390

Please contact support at arize.support@gecurrent.com with regard to applications other than horizontal. In these applications, luminaires should not be directly interconnected and the male connector (power input) should be in the upward orientation with the female end facing down.

Conforms to the following standards:
- IP66 rated
Product Length

<table>
<thead>
<tr>
<th>A Luminaire length</th>
<th>B Minimum spacing / Leader cable length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 ft.</td>
<td>47.3” (120 cm)</td>
</tr>
<tr>
<td>8 ft.</td>
<td>95” (240 cm)</td>
</tr>
</tbody>
</table>

Tools Required

1. Wire stripper/cutter
2. Screwdriver
3. Cordless drill with driver bit

Components Required

1. Arize Life² fixtures (4 ft. or 8 ft.)
2. Cable Accessories (GECAaabcc-deffg), see page 7
3. Optional - Jumper cable (93138395 – 2ft, with dimming wire)
4. Mounting clips (88818 – standard) or (10734 – slim)
5. #10 (M5) self-tapping flathead screws
6. Approved 18-14 AWG (0.82-2.08 mm²) wire connectors, in-line splice connectors or alternative approved connectors.
7. End cap for connectors
8. Optional - Cable clamps
METHOD 1
Single Luminaire Installation

Before starting:
Luminaires must only be mounted using Current’s standard or slim mounting clips (see Components Required on page 3).

Mounting instructions using Current’s standard and slim mounting clips.

1. Secure each luminaire mounting clip to a rigid flat mounting surface using two #10 (M5) self-tapping flathead screws along the intended run of luminaire. To avoid stress and damage to luminaire the entire mounting surface should be flat and the mounting clips be properly aligned. Refer to table on page 11 for required number of mounting clips per luminaire.

2. Press the luminaire into its mounting clips so that the male connector is oriented towards the intended electrical supply. TIP: Align luminaire on one side of the mounting clips; then rotate the luminaire until it snaps into other side of the mounting clips. (Only for single luminaire installation)

Alternately: The required mounting clips may first be pressed onto the luminaire, then the luminaire mounting clip assembly may be mounted on to the mounting surface using two #10 (M5) self-tapping flathead screws per mounting clip.

3. Place the luminaire on the surface with the male connector oriented towards the intended electrical supply.

4. If not already covered, insert an end cap into the female connector, and twist the end cap clockwise to secure.

Go to METHOD 3 on page 7
METHOD 2
Directly Interconnected Luminaires

Before starting:
See Multiple Bar Installation Details to ensure you won’t exceed the maximum run length per leader cable. Luminaires must only be mounted using Current’s standard or slim mounting clips (see Components Required on page 3).

Linear Layout  NOTE: the recommended distance between two ends should be no more than 0.8” (20mm) for better optical uniformity.

1. Secure each luminaire mounting clip to a rigid flat mounting surface using two #10 (M5) self-tapping flathead screws along the intended run of luminaire. To avoid stress and damage to luminaire the entire mounting surface should be flat and the mounting clips properly aligned. Refer to table on page 8 for the required number of mounting clips per luminaire.

2. Press the luminaire into its mounting clips so that the male connector is oriented towards the intended electrical supply. TIP: Align luminaire on one side of the mounting clips, then rotate the luminaire until it snaps into other side of the mounting clips.

Parallel Layout  NOTE: the recommended maximum space between parallel luminaires is 10’ (245mm) for better optical uniformity.

Align using chalk line, laser projector or similar

Male connector towards electrical supply

SNAP!

SNAP!

SNAP!

SNAP!

SNAP!

SNAP!

Secure each luminaire mounting clip to a rigid flat mounting surface using two #10 (M5) self-tapping flathead screws along the intended run of luminaire.

To avoid stress and damage to luminaire the entire mounting surface should be flat and the mounting clips properly aligned. Refer to table on page 8 for the required number of mounting clips per luminaire.

Press the luminaire into its mounting clips so that the male connector is oriented towards the intended electrical supply. TIP: Align luminaire on one side of the mounting clips, then rotate the luminaire until it snaps into other side of the mounting clips.
METHOD 2
Directly Interconnected Luminaires

3A Remove end cap from the female connector. Insert the male connector to the female connector. Make sure the connector is fully engaged as indicated by hearing a click.

3B Use a jumper cable to connect luminaires if the distance between them is too long.

3C Optional: Secure the cables using the optional cable clamp accessory.

4 Insert an end cap into the female connector on the last luminaire in the run, and twist the end cap clockwise to secure.

Go to METHOD 3 on page 7
**METHOD 3**

**Wiring Connections**

1. Insert the female connector of the leader cable so that it fully engages the male connector of the first luminaire in the run as indicated by hearing a click.  
   **NOTE:** the male connector can be cut off if there is no leader cable.  
   See Multiple Bar Installation Details to not exceed maximum run length for one leader.  
   To avoid damage, do not bend or otherwise exert excessive force on the connector during installation.  
   See Components Required on page 3 for leader cable part number.

2. Insert lead wire into junction box.

3. Inside the junction box, connect the line and neutral wires of the AC supply source to the line (black or brown) and neutral (white or blue) wires of the leader cable using suitable wire nuts. If 0-10V dimming will not be used, cap the dimming wires (purple and pink*) with suitable wire nuts. Do not connect the dimming wires together or to line, neutral, or ground. If 0-10V dimming will be used, proceed to Step 4.

4. Connect the DIM + (purple) to the incoming dimmer circuit +. Connect the Dim – (pink*) to the incoming dimmer circuit –.
   **Warning:** The class 2 0-10V dimming circuit must be separated from the AC circuit as required by the applicable electric code.

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**For UL Only**

**IMPORTANT GUIDELINES / CONSEILS IMPORTANTS**

- Cables shall not be concealed or extended through a wall, floor, ceiling, or other parts of the building structure; located above a suspended ceiling or dropped ceiling; permanently affixed to the building structure.  
- Cables shall be routed so that they are not subject to strain and are protected from physical damage; visible over their entire length; and used within their rated ampacity as determined for the maximum temperature of the installed environment specified in the instructions.  
- Before applying power, ensure that any open female connectors in the installation are sealed with an end cap. (see Method 1, step 4)

- Les câbles ne doivent pas être cachés à l’intérieur ou passer à travers un mur, un plancher, un plafond ou d’autres parties de la structure du bâtiment; ne doivent pas être placés au-dessus d’un plafond suspendu; ne doivent pas faire partie intégrante de la structure du bâtiment.  
- Les câbles doivent être installés de façon à être protégés contre l’étièrement et tout autre dommage; être visibles sur toute leur longueur; utilisés dans la limite de leur capacité électrique, déterminée pour les limites de température de l’environnement spécifiée dans ce document.  
- Avant de mettre sous tension, assurez-vous que les connecteurs femelles ouverts du système sont scellés avec une butée de gaine. (consulter méthode 1, étape 4).
METHOD 3
M19 Cable Accessories

<table>
<thead>
<tr>
<th>Accessory Type</th>
<th>SKU</th>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M19 Leader Cable (NA)</td>
<td>93142247</td>
<td>GECA30A18-CC10B</td>
<td>10ft (3.0m) Leader with dimming</td>
</tr>
<tr>
<td></td>
<td>93142232</td>
<td>GECA30A18-BB06B</td>
<td>6ft (1.8m) Leader</td>
</tr>
<tr>
<td>M19 Leader Cable (EU/UK)</td>
<td>93142234</td>
<td>GECA30A18-BB10B</td>
<td>10ft (3.0m) Leader with dimming</td>
</tr>
<tr>
<td></td>
<td>93142246</td>
<td>GECA30A18-BC06B</td>
<td>6ft (1.8m) Leader with dimming</td>
</tr>
<tr>
<td></td>
<td>93142248</td>
<td>GECA30A18-BC10B</td>
<td>10ft (3.0m) Leader with dimming</td>
</tr>
<tr>
<td>M19 Leader Cable with Plug (NA)</td>
<td>93142249</td>
<td>GECA30A18-CD06B</td>
<td>6ft (1.8m) Leader with 5-15P Plug</td>
</tr>
<tr>
<td></td>
<td>93142250</td>
<td>GECA30A18-CE06B</td>
<td>6ft (1.8m) Leader with L6-20P Plug</td>
</tr>
<tr>
<td></td>
<td>93148137</td>
<td>GECA30A18-CP06B</td>
<td>6ft (1.8m) Leader with L7-15P plug</td>
</tr>
<tr>
<td></td>
<td>93142251</td>
<td>GECA30A18-CK06B</td>
<td>6ft (1.8m) Leader with L7-20P Plug</td>
</tr>
<tr>
<td>M19 Jumper (NA/EU/UK)</td>
<td>93142252</td>
<td>GECA30A18-CF02B</td>
<td>2ft (0.6m) Jumper with dimming</td>
</tr>
<tr>
<td>M19 Splitter (NA/EU/UK)</td>
<td>93142256</td>
<td>GECA30A14-Cl04B</td>
<td>4ft (1.2m) Splitter with 1 M19 male to 5 M19 female connectors with dimming.</td>
</tr>
</tbody>
</table>

METHOD 3
M19 Cable Accessories Installation Example

1. M19 Leader
2. M19 Jumper (optional)
3. M19 Splitter
4. SJOW 18AWG*2
5. NEMA Plug
6. L5-15P
7. L7-15P
8. L6-20P
9. L7-20P
10. M19 Female

GEHL48Hxxx3 < 14@120V, 20@208V, 26@240V, 26@277V;
GEHL96Hxxx3 < 7@120V, 10@208V, 13@240V, 13@277V;
METHOD 3
M25 Cable Accessories

<table>
<thead>
<tr>
<th>Accessory Type</th>
<th>SKU</th>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M25 Leader (EU/UK)</td>
<td>93142254</td>
<td>GECA30A14-BG06B</td>
<td>6ft (1.8m) Leader with dimming, 15A, EU</td>
</tr>
<tr>
<td>M25 Jumper (NA/EU/UK)</td>
<td>93142255</td>
<td>GECA30A14-CH02B</td>
<td>2ft (0.6m) Jumper with dimming</td>
</tr>
<tr>
<td>M25 Splitter (NA/EU/UK)</td>
<td>93142257</td>
<td>GECA30A14-CJ08B</td>
<td>8ft (2.4m) Splitter with 1 M25 male to 5 M19 female connectors with dimming.</td>
</tr>
<tr>
<td>M25 Leader (NA)</td>
<td>93142253</td>
<td>GECA30A14-CG06B</td>
<td>6ft (1.8m) Leader with dimming, 15A, NA</td>
</tr>
</tbody>
</table>

METHOD 3
M25 Cable Accessories Installation Example A

(M19 18AWG Leader Cable
GEHL48Hxxx3 Max 14@120V, 20@208V, 26@240V, 26@277V;
GEHL96Hxxx3 Max 7@120V, 10@208V, 13@240V, 13@277V)

(M25 14AWG Leader Cable
GEHL48Hxxx3 max 38@120V, 65@208V, 72@240V, 83@277V;
GEHL96Hxxx3 max 19@120V, 32@208V, 36@240V, 41@277V)
METHOD 3
M25 Cable Accessories Installation Example B

- **M19 Splitter *5**
- **M19 Jumper (optional)**

**M25 14AWG Leader Cable**
- GEHL48Hxxx3
  - 38@120V,
  - 65@208V,
  - 72@240V,
  - 83@277V;
- GEHL96Hxxx3
  - 19@120V,
  - 32@208V,
  - 36@240V,
  - 41@277V

**M19 18AWG Leader Cable**
- GEHL48Hxxx3 max 14@120V, 20@208V, 26@240V, 26@277V;
- GEHL96Hxxx3 max 7@120V, 10@208V, 13@240V, 13@277V

- **M25 Splitter**
- **M25 Jumper (optional)**
- **M25 Leader**
Multiple Bar Installation Details

Input voltage: 120VAC - 277VAC, 50/60Hz

### Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>All LED fixtures are not</td>
<td>• Check leader cable connection and/or check circuit breaker.</td>
</tr>
<tr>
<td>illuminated</td>
<td>• Check plug connectors on the LED fixtures for improper connections or short circuits.</td>
</tr>
<tr>
<td></td>
<td>• Ensure leader cable is securely connected to the female plug connector on the first LED luminaire.</td>
</tr>
<tr>
<td>Some LED fixtures are not</td>
<td>• Check plug connectors on the LED fixtures for improper connections or short circuits.</td>
</tr>
<tr>
<td>illuminated</td>
<td>• Ensure any jumper cables are securely connected between the male/female plug connectors of the LED fixtures.</td>
</tr>
</tbody>
</table>

### Product Codes

GEHLxxHyyz3

*Key for xx: 48=48 in., 96=96 in.
*Key for yy: PP=Purple, PK=Pink, BR=Broad Spectrum
*Key for z: Type "R", "B", "V", "I", "F"

### Electrical Loading Detail

<table>
<thead>
<tr>
<th>Lamp Length</th>
<th>Maximum Bars Per M25 14AWG Leader Cable</th>
<th>Maximum Bars Per Interconnected run or M19 18AWG Leader Cable</th>
<th>Qty of Mounting Clips</th>
<th>Electrical Loading Detail Typical Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>93137762</td>
<td>GEHL48HPPR3</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>93137763</td>
<td>GEHL48HPF3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>93137764</td>
<td>GEHL48HPB3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>93137765</td>
<td>GEHL48HPPV3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>93137936</td>
<td>GEHL48HPKR3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>93137937</td>
<td>GEHL48HPKF3</td>
<td></td>
<td></td>
<td>0.30 0.17 0.16 0.14</td>
</tr>
<tr>
<td>93137938</td>
<td>GEHL48HPKB3</td>
<td></td>
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</tr>
<tr>
<td>93137939</td>
<td>GEHL48HBR3</td>
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<td>93137940</td>
<td>GEHL48HBRV3</td>
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<tr>
<td>8 ft.</td>
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</tr>
<tr>
<td>93137941</td>
<td>GEHL96HPPR3</td>
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<td>93137942</td>
<td>GEHL96HPB3</td>
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<tr>
<td>93137943</td>
<td>GEHL96HPPV3</td>
<td></td>
<td></td>
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<tr>
<td>93137944</td>
<td>GEHL96HPKR3</td>
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<td></td>
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</tr>
<tr>
<td>93137945</td>
<td>GEHL96HPKB3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
METHOD 4
Replacement Instructions for Directly Interconnected Luminaires

1. Disconnect the connector on both sides of the luminaire.

2A. Unscrew the mounting clips to completely remove the luminaire.

2B. Using a screwdriver, gently pry the luminaire out of the mounting clips.

3. To insert a new luminaire, see Method 2.

To avoid damage, do not bend or otherwise exert excessive force on the connector during installation.