ARCHITECTURAL AREA LIGHTING

MICROCORE™ UPGRADE KITS

REFINED LED TECHNOLOGY FOR OUTDOOR LIGHTING
MicroCore™-enabled luminaires present a balanced, versatile approach to light delivery, emphasizing superior control, uniform illumination, and glare reduction.

AAL’s revolutionary MicroCore™ light engine represents a notable revolution in optical technology, Precision Engineering harnessed the power of today’s brilliant, high-efficiency LED’s, delivering maximum performance in outdoor lighting applications.

MicroCore™-enabled luminaires present a balanced, versatile approach to light delivery, emphasizing superior control, uniform illumination, and glare reduction.

MicroCore™ upgrade kits are available in a wide range of Architectural Area Lighting’s post-top luminaires, including Providence®, Flex™, Universe®, Promenade, and Mitre™.
Low-Profile Design
All MicroCore™ optical arrays have been designed to blend seamlessly into their installations, presenting a smooth, streamlined appearance, plus a color matched bezel greatly improves the appearance during non-operational daytime hours. High efficiency coupled with sleek optical array construction means you’ll no longer have to sacrifice aesthetics for performance.

Consistent, Efficient Operation
MicroCore™ modules are completely sealed, conforming to stringent IP66 standards. The need for a conventional fixture-sealing lens is eliminated, improving native light transmission by up to 15%.

Precise Optical Control
All MicroCore™ optical arrays have been carefully engineered for maximum light emission management. Their unique construction affords flexibility of beam, precise distribution, and crisp definition. Tight cutoffs minimize light loss and allow for aiming adjustments and color control. MicroCore™ arrays are time-tested, tested, and proven to reproduce any IES distribution pattern, delivering highly uniform illumination and creating inviting outdoor environments.

Thermal Management
Excess heat buildup is the enemy of conventional lighting systems, compromising performance, and shortening the fluid components over time. In order to mitigate these effects, all MicroCore™ enabled luminaires employ a comprehensive thermal management profile that negates heat effects in three important ways. First, individual heat sinks on the rear of each module draw heat away from the diodes, efficiently dissipating heat. Second, driver compartments have been isolated from other heat-generating components in order to eliminate sympathetic heat concentration. Third, every MicroCore system incorporates an integrated thermostat that continually monitors heat levels, and automatically adjusts the on-board temperature to compensate for any over temperature situation.

Superior performance
Long-life: 100,000+ hours
Optical arrays are designed and tested to IP66.
Type II, III, IV, V, Custom
Superior, industry-heading BUG ratings
Integrated thermal management and
excessive temperature protection
Color temperatures: 3000K, 4000K, 5000K
Upgrade Kits
Looking to upgrade from an HID system? MicroCore™ optical arrays are designed for backwards compatibility with our existing luminaire housings. Any of AAL’s luminaires currently equipped with a High-Intensity Discharge illumination system can be field-upgraded to an efficient MicroCore™ optical array, quickly and easily via plug-and-play connectors.

Superior performance
Long-life: 100,000+ hours
Optical arrays are designed and tested to IP66.
Type II, III, IV, V, Custom
Superior, industry-heading BUG ratings
Integrated thermal management and
excessive temperature protection
Color temperatures: 3000K, 4000K, 5000K
7 simple steps to finish

1. Remove ballast components from gear compartment
2. Install pre-wired driver assembly into lower fitter cap assembly
3. Make connections in lower filter cap assembly. Install lower filter cap assembly
4. Remove existing HID components
5. Make connections in lamp compartment
6. Install MicroCore optical array
7. Close fixture securely
**UPGRADE KITS AVAILABLE**

- Flex™
- Mitre
- Providence®
- Promenade
- Universe®

**PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Luminaire</th>
<th>Nomencature</th>
<th>Volts – AC</th>
<th>Current</th>
<th>Sys Watts</th>
<th>Replaces</th>
<th>Luminos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flex™ M2</td>
<td>120 - 277</td>
<td>450mA</td>
<td>132w</td>
<td>250PSMH</td>
<td>8,900-3,700</td>
<td></td>
</tr>
<tr>
<td>Mixture M2</td>
<td>120 - 277</td>
<td>450mA</td>
<td>75w</td>
<td>150PSMH</td>
<td>6,700-2,800</td>
<td></td>
</tr>
<tr>
<td>Providence®</td>
<td>PROV</td>
<td>120 - 277</td>
<td>450mA</td>
<td>75w</td>
<td>150PSMH</td>
<td>5,600-2,300</td>
</tr>
<tr>
<td>Promenade</td>
<td>PRMS</td>
<td>120 - 277</td>
<td>450mA</td>
<td>72w</td>
<td>150PSMH</td>
<td>7,900-2,900</td>
</tr>
<tr>
<td>Universe®</td>
<td>UCL</td>
<td>120 - 277</td>
<td>450mA</td>
<td>84mA</td>
<td>11,000-2,700</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MicroCore</th>
<th>NAME</th>
<th>VOLS – AC</th>
<th>CURRENT</th>
<th>SYS. WATTS</th>
<th>REPLACES</th>
<th>LUMENS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flex™ PR</td>
<td>120 - 277</td>
<td>700mA</td>
<td>84mA</td>
<td>11,000-2,700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>XMA</td>
<td>Custom wattage or drive current</td>
<td>450mA</td>
<td>84mA</td>
<td>11,000-2,700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRODUCT</td>
<td>DISTRIBUTIONS</td>
<td>COLOR TEMP</td>
<td>CURRENT (MA)</td>
<td>FINISH COLOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>---------------</td>
<td>------------</td>
<td>--------------</td>
<td>--------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flex FN</td>
<td>T2/T3/T4/T5-56LED</td>
<td>3K, 4K, 5K</td>
<td>450, 700</td>
<td>Base finish available in 13 standard finishes and premium finishes *</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M9na M2</td>
<td>T2/T3/T4/T5-32LED</td>
<td>3K, 4K, 5K, 27K, 35K, AM</td>
<td>450, 700, XMA</td>
<td>Base finish in white</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Providence PROV</td>
<td>T2/T3/T4/T5-32LED</td>
<td>450, 700</td>
<td>Bezel finish in white</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Providence PROD</td>
<td>T2/T3/T4/T5-32LED</td>
<td>450, 700</td>
<td>Bezel finish in white</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Providence PROV</td>
<td>T2/T3/T4/T5-32LED</td>
<td>450, 700</td>
<td>Bezel finish in white</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Universe UCM</td>
<td>T2/T3/T4/T5-32LED</td>
<td>3K, 4K, 5K</td>
<td>450, 700</td>
<td>Base finish available in 13 standard finishes and premium finishes *</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Universe UCL</td>
<td>T2/T3/T4/T5-56LED</td>
<td>3K, 4K, 5K</td>
<td>450, 700</td>
<td>Base finish available in 13 standard finishes and premium finishes *</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- AWT Arctic White
- BLK Black
- MTB Matte Black
- DGN Dark Green
- DBZ Dark Bronze
- WRZ Weathered Bronze
- BRM Metallic Bronze
- VBL Verde Blue
- CRT Corten
- MAL Matte Aluminum
- MDG Medium Grey
- ATG Antique Green
- LGY Light Grey
- RAL/PREMIUM COLOR Provide RAL
- CUSTOM COLOR Provide color chip for matching