MICROCORE™

REFINED LED TECHNOLOGY
FOR OUTDOOR LIGHTING
AAL’s revolutionary MicroCore™ light engine represents a notable revolution in optical technology. Precision engineering harnesses 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™ optical arrays are available in a wide range of Architectural Area Lighting’s post-top luminaires, including Providence®, Flex™, Universe®, Largent™, 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.

Features

- Superior performance
- Long life 138,000+ hours
- Optical arrays are designed and tested to IP66
- Type II, III, IV, V, Custom, Right & Left distributions
- Superior, industry-leading BUG ratings
- Integral thermal management and excessive temperature protection
- Color temperatures 3000K, 4000K, 5000K

Consistent, Efficient Operation

By employing long-life, low-maintenance LED’s, MicroCore™ optical arrays deliver incredibly dependable, uniform, energy-efficient performance across a wide range of applications. High brightness lighting class diodes of the highest quality are used for color and chromacity control, and have an operational life of more than 138,000 hours.

Improved Light Transmission

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%.

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.
Excess heat buildup is the enemy of conventional lighting systems, compromising performance, and shortening the life of 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.

These important features work together to not only extend the life of the modules, but also to eliminate the need for exterior fins, thereby preserving the timeless aesthetics of the housing design.
### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LIGHT ENGINE</th>
<th>COLOR TEMPERATURE</th>
<th>DRIVE CURRENT</th>
<th>COLOR</th>
<th>OPTIONS</th>
<th>CONTROL</th>
<th>MOUNTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROV</td>
<td>T2-32LED</td>
<td>3K</td>
<td>700</td>
<td>AWT</td>
<td>PCA-C</td>
<td>PM3</td>
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<td>T3-32LED</td>
<td>4K</td>
<td>500mA</td>
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<td>BLK</td>
<td>SCP*</td>
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<tr>
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<td>AM*</td>
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<td>BRM</td>
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</table>

**Descriptions**

- **Model**
  - PROV: Providence medium housing
  - PROL: Providence large housing

- **Light Engine**
  - Type 2 distribution: T2-32LED
  - Type 3 distribution: T3-32LED
  - Type 4 distribution: T4-32LED
  - Left distribution: TL-32LED
  - Right distribution: TR-32LED

- **Drive Current**
  - 700mA
  - 450mA

- **Color**
  - Arctic White
  - Antique Green
  - Black
  - Bronze Metallic
  - Corteon
  - Dark Green
  - Dark Bronze
  - Light Grey
  - Matte Aluminum

- **Color Temperature**
  - 3K: 3000K
  - 4K: 4000K
  - 5K: 5000K

- **Options**
  - Decorative Spike
  - Strut painted brass
  - Lightly diffused lens
  - Clear flat lens
  - House side shield
  - Finial painted brass
  - Egress-Contemporary
  - Egress-Traditional
  - Slips Over A 2 3/8" OD Tenon
  - Slips Over A 3" OD Tenon
  - Slips Over A 4" OD Tenon

- **Control**
  - PCA-C: Rotatable photocell-Contemporary
  - PCA-T: Rotatable photocell-Traditional
  - SCP: Sensor Control Programmable

- **Mounting**
  - Wall Mount Arm
  - Pole Mount Arm
  - Pier Mount

* Contact factory for latest offerings for sensors and wireless control.

* A pole base accessory is available for Title 24 compliance.
The Providence family are period themed lighting fixtures that combine modern lighting performance with aesthetics in traditional forms. The large and medium family members of Providence feature MicroCore technology. The Providence LED is the first truly elegant LED luminaire on the market.

700mA and 450mA drive current are both available in our LT20 Quick Ship Program!
### Ordering Information

**Model**
- **UCM/UCL**
- **UCM**
- **UCM-WND**
- **UCM-SR**
- **UCM-VSL**
- **UCM-LUM**
- **UCL**
- **UCM/LUM**
- **FLR**
- **FLR-STS**
- **FLR-COP**
- **ANG**
- **ANG-STS**
- **ANG-COP**
- **STR**
- **STR-STS**
- **STR-COP**
- **BEL**
- **BEL-STS**
- **BEL-COP**
- **SKB**
- **SKB-STS**
- **SKB-COP**

**Hood**
- **FLR**
- **FLR-STS**
- **FLR-COP**
- **ANG**
- **ANG-STS**
- **ANG-COP**
- **STR**
- **STR-STS**
- **STR-COP**
- **BEL**
- **BEL-STS**
- **BEL-COP**
- **SKB**
- **SKB-STS**
- **SKB-COP**

**Light Engine**
- **UCM**
  - **T2-32LED**
  - **T3-32LED**
  - **T4-32LED**
  - **T5-32LED**
- **UCL**
  - **T2-56LED**
  - **T3-56LED**
  - **T4-56LED**
  - **T5-56LED**

**Color Temperature**
- **3K**
- **4K**
- **5K**
- **27K**
- **35K**
- **AM**

**Lumen Package**
- **700**
- **450**
- **XMA**

**Finish**
- **AWT**
- **MAL**
- **ATG**
- **MDG**
- **BLK**
- **MTB**
- **BRM**
- **VBL**
- **C RT**
- **DGN**
- **DBZ**
- **DBG**
- **LGY**
- **SAG**
- **FLD**
- **HSS**

**Options**
- **R80**
- **FTG**
- **RCK**
- **SAG**
- **FLC**
- **SLC**
- **FTG**
- **SAG**
- **FLC**
- **SLC**

**Control**
- **WIR**
- **WIRSC**
- **SCP**

**Voltage**
- **120-277**
- **347**
- **480**

**Mounting**
- Wall Mount Arm
- Pole Mount Arm
- Pier Mount

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**Descriptions**

**Model**
- **UCM**
  - Universe medium without luminous element
- **UCM-WND**
  - Universe medium with luminous window
- **UCM-SR**
  - Universe medium with luminous solid rings
- **UCM-VSL**
  - Universe medium with luminous vertical slots
- **UCM-LUM**
  - Universe medium with luminous rings

**Hood**
- **FLR**
  - Flared hood
- **FLR-STS**
  - Flared hood in natural brushed stainless steel
- **FLR-COP**
  - Flared hood in natural brushed copper
- **ANG**
  - Angled hood
- **ANG-STS**
  - Angled hood in natural brushed stainless steel
- **ANG-COP**
  - Angled hood in natural brushed copper
- **STR**
  - Straight hood
- **STR-STS**
  - Straight hood in natural brushed stainless steel
- **STR-COP**
  - Straight hood in natural brushed copper
- **BEL**
  - Bell hood
- **BEL-STS**
  - Bell hood in natural brushed stainless steel
- **BEL-COP**
  - Bell hood in natural brushed copper
- **SKB**
  - Skirted bell hood
- **SKB-STS**
  - Skirted bell hood in natural brushed stainless steel
- **SKB-COP**
  - Skirted bell hood in natural brushed copper

**Light Engine**
- **UCM**
  - **T2-32LED**
  - **T3-32LED**
  - **T4-32LED**
  - **T5-32LED**
- **UCL**
  - **T2-56LED**
  - **T3-56LED**
  - **T4-56LED**
  - **T5-56LED**

**Color Temperature**
- **3K**: 3000K
- **4K**: 4000K
- **5K**: 5000K
- **27K**: 2700K
- **35K**: 3500K
- **AM**: monochromatic amber

**Lumen**
- **700**: 7000lm
- **450**: 4500lm
- **XMA**: Custom wattage or drive current

**Color**
- **AWT**: Arctic White
- **ATG**: Antique Green
- **BLK**: Black
- **BRM**: Bronze Metallic
- **CRT**: Corten
- **DGN**: Dark Green
- **DBZ**: Dark Bronze
- **DBG**: Dark Gray
- **LGY**: Light Grey
- **MAL**: Matte Aluminum
- **MDG**: Medium Grey
- **MTB**: Matte Black
- **VBL**: Verde Blue
- **WRZ**: Weathered Bronze
- **RAL**: RAL/Premium Color
- **WR**: RAL/Premium Color
- **COP**: Custom Color

**Others**
- **RCK**: Rock guard painted black
- **SLC**: Luminous element remains until during normal operation

**Control**
- **WIR**: wiScape connectivity
- **WIRSC**: wiScape connectivity, integral motion sensor
- **SCP**: Photo-control and motion sensor

**Voltage**
- **120-277**: 120-277 VAC input
- **347**: 347 VAC input
- **480**: 480 VAC input

**Mounting**
- **WMA**: Contemporary pole mount arm
- **TRA**: Traditional pole mount arm
- **SLA**: Wall mount arm

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*See mounting on page 11

© 2023 UNIVERSE® WITH MICROCORE LED TECHNOLOGY
Superior Industry-leading Bug Ratings

Pole, wall and pendant mounting available. Coordinates with Universe bollard, small and large luminaires.

The Universe Collection® is a complete family of customizable decorative luminaries that transcend architectural styles past and present. The Universe features five luminous element options, and five hood styles.

700mA and 450mA drive current are both available in our LT20 Quick Ship Program!
### Model
- FH: Flex Microcore Light Engine

### Light Engine
- T2-56LED: Type2 distribution
- T3-56LED: Type3 distribution
- T4-56LED: Type4 distribution
- T5-56LED: Left distribution
- TR-56LED: Right distribution

### Color Temperature
- 3K: 3000K
- 4K: 4000K
- 5K: 5000K
- AM: Monochromatic amber

### Drive Current
- 700: 700mA
- 450: 450mA

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

### Lens Options
- HSS: House side shield
- LDL: Lightly diffused lens
- CLR: Clear flat lens

### Control
- LPC12: Photocell with adjustable swivel for aiming. 120 volt
- LPC27: Photocell with adjustable swivel for aiming. 208/240/277 volt
- SCP: Sensor Control Programmable

### Mounting
- *See mounting on page 13

* A pole base accessory is available for Title 24 compliance. Contact factory for latest offerings for sensors and wireless control.
MicroCore™ Available with multiple arm designs and mounting options, including single, twin, tri shape and quad, form a versatile “create it yourself” look

Flex™ features AAL’s exclusive MicroCore technology which provides ample, smooth, even illumination of the environment. The precision aiming system of AAL’s MicroCore technology ensures that even when looking directly at the luminaire, only one-half of the LEDs can be viewed at any given time. Upgrade kits are available for existing HID installations.

MicroCore is available in Flex

**TIMELESS STYLING**
### Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Light Engine</th>
<th>Color Temperature</th>
<th>Drive Current</th>
<th>Color</th>
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<td>T2-56LED</td>
<td>3K, 4K, 5K, AM*</td>
<td>700, 450</td>
<td>MAL, ATG, BLK, BRM, CRT, DGN, DBZ, LGY, RAL/Premium, Custom Color</td>
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<tr>
<td></td>
<td>T3-56LED</td>
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<tr>
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<td>T4-56LED</td>
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### Options

<table>
<thead>
<tr>
<th>Options</th>
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<tbody>
<tr>
<td>LDL</td>
</tr>
<tr>
<td>CLR</td>
</tr>
<tr>
<td>HSS</td>
</tr>
<tr>
<td>EPA-C</td>
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<td>PT23</td>
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<td>PT3</td>
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### Control

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<tbody>
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<td>LPC12</td>
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<tr>
<td>LPC27</td>
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<td>SCP</td>
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### Mounting

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<tr>
<th>Mounting</th>
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<tbody>
<tr>
<td>Wall Mount Arm</td>
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<tr>
<td>Pole Mount Arm</td>
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<tr>
<td>Pier Mount</td>
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<tr>
<td>WMA7, WMA8D, WMA9U</td>
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<tr>
<td>WMA22U, WMA35U, WMA36U</td>
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<td>TRA5U, TRA6U</td>
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<td>SLA1, SLA1-2, SLA8U</td>
</tr>
<tr>
<td>SLA22U</td>
</tr>
<tr>
<td>PM1, PM2, PM3</td>
</tr>
</tbody>
</table>

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*Contact factory for latest offerings for sensors and wireless control.*
ELEGANT STYLING

The Largent™ is a geometric design using state of the art optical systems to precisely light streets, parks and pedestrian venues. The fixture is available with a diffused lens. Largent LED is now featuring highly efficient MicroCore LED technology. LED upgrade kits with Hubbell TIR optics are also available.
# ORDERING INFORMATION

## Descriptions

<table>
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## Light Engine

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<tr>
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<th>Type</th>
<th>Distribution</th>
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<tr>
<td>T2-32LED</td>
<td>Type2</td>
<td>Distribution</td>
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<tr>
<td>T3-32LED</td>
<td>Type3</td>
<td>Distribution</td>
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<tr>
<td>T4-32LED</td>
<td>Type4</td>
<td>Distribution</td>
</tr>
<tr>
<td>TL-32LED</td>
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<tr>
<td>TR-32LED</td>
<td>Right</td>
<td>Distribution</td>
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## Color Temperature

<table>
<thead>
<tr>
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<th>3K</th>
<th>4K</th>
<th>5K</th>
<th>AM*</th>
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## Drive Current

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## Color

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<th>ATG</th>
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<th>DBZ</th>
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## Options

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## Control

<table>
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<tr>
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</thead>
<tbody>
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<td>Sensor Control Programmable</td>
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</table>

*Note: A pole base accessory is available for Title 24 compliance. Contact factory for latest offerings for sensors and wireless control.*
MODERN SIMPLICITY

The classic geometric form of the Mitre™ complements architectural expressions of precision, structure and line. The medium scale can be pole or wall mounted and a U0 MicroCore light engine. A matching wall sconce, bollard and large scale luminaire also available. Mitre medium size is now available with MicroCore technology!

MicroCore is available in Mitre Medium