The Autobahn LED – ATBL, ATBM & ATBS

Built on breakthrough LEDs and precision-engineered glass optics, Autobahn luminaires provide exceptional illumination while saving energy and reducing maintenance cost. They also works seamlessly with advanced Acuity Brands® controls which allow for maximized energy savings, as well as enhanced monitoring and reporting functions.

REDUCES Maintenance Costs by 50%  
REDUCES Energy Costs by 60%  
REDUCES CO₂ Emission by 60%
Key Benefits

- 60% more energy efficient than comparable HID luminaires
- Long life and reduced maintenance make it the ultimate sustainable solution for renovating legacy roadway lighting
- Leading edge optics and white light improve visibility on roadways
- Sleek, attractive dayform with weight and EPA less than comparable 50 – 400W cobraheads ensure no issues with retrofiting to existing poles and arms
- Standard “Enhanced” 10kV/5kA surge protection with 20kV/10kA “Extreme” surge protection option available
- Improved fixture efficacy reduces energy usage vs competitive LED fixtures
- 3000K, 4000K & 5000K CCT, 70 CRI Min.
- A complete line of Acuity Controls capabilities ensure a long, virtually maintenance-free life, while also allowing for energy reduction, monitoring and control

Applications

- Municipal Streets and Public Roadways
- Residential Areas
- Campuses
- Military Bases
- Industrial Parks
- Hotels and Resorts
- Municipal Parks
- Recreation Centers
Using breakthrough LEDs and highly engineered precision optics, the Autobahn series provides zero uplight with highly efficient superior optical distributions, which drive 40-60% energy savings over HID.

**Optical Performance**

- 250-400W Replacement
  - Types II, IIN, III, IV & V
- 150-250W Replacement
  - Types II, III, IV & V
- 50-150W Replacement
  - Types II, III & V

**IP66 rated borosilicate glass optics for increased longevity and decreased dirt depreciation**
## Optical Performance

<table>
<thead>
<tr>
<th>Luminaire Performance</th>
<th>400W HPS Cobrahead</th>
<th>LED Competitor</th>
<th>ATBL E R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole Spacing</td>
<td>440 ft.</td>
<td>440 ft.</td>
<td>440 ft.</td>
</tr>
<tr>
<td>Average Footcandles</td>
<td>1.1</td>
<td>1.3</td>
<td>1.3</td>
</tr>
<tr>
<td>Avg/Min</td>
<td>5.5</td>
<td>2.3</td>
<td>2.2</td>
</tr>
<tr>
<td>Power (Watts)</td>
<td>465</td>
<td>264</td>
<td>238</td>
</tr>
<tr>
<td>Energy Savings</td>
<td>Baseline</td>
<td>43%</td>
<td><strong>49%</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Luminaire Performance</th>
<th>250W HPS Cobrahead</th>
<th>LED Competitor</th>
<th>ATBM E R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole Spacing</td>
<td>480 ft.</td>
<td>480 ft.</td>
<td>480 ft.</td>
</tr>
<tr>
<td>Average Footcandles</td>
<td>1.7</td>
<td>1</td>
<td>1.2</td>
</tr>
<tr>
<td>Avg/Min</td>
<td>3.4:1</td>
<td>3.3:1</td>
<td>2.9:1</td>
</tr>
<tr>
<td>Power (Watts)</td>
<td>300W</td>
<td>139W</td>
<td>115W</td>
</tr>
<tr>
<td>Energy Savings</td>
<td>Baseline</td>
<td>54%</td>
<td><strong>62%</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Luminaire Performance</th>
<th>AEL 100W HPS</th>
<th>LED Competitor</th>
<th>ATBS E R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole Spacing</td>
<td>180 ft.</td>
<td>180 ft.</td>
<td>180 ft.</td>
</tr>
<tr>
<td>Average Footcandles</td>
<td>0.7</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Avg/Min</td>
<td>7:1</td>
<td>5:1</td>
<td>5:1</td>
</tr>
<tr>
<td>Power (Watts)</td>
<td>115W</td>
<td>42W</td>
<td>39W</td>
</tr>
<tr>
<td>Energy Savings</td>
<td>Baseline</td>
<td>63%</td>
<td><strong>66%</strong></td>
</tr>
</tbody>
</table>
**Autobahn Design**

The rugged die-cast aluminum housing provides superior thermal management to effectively cool internal electronics and LED's. This, coupled with the durable polyester powder coat paint, ensures corrosion resistance and product longevity. Lineman-friendly features make the Autobahn easy to install and its long, reliable operating life reduces the hassle of lighting grid maintenance.
ATBS

- ANSI C136 surge protection: 10kV/5kA “enhanced” or 20kV/10kA “extreme” option, or
- Field-Adjustable Output
- Internal Bubble Level
- Cast-In Leveling Steps
- 2-Bolt Mounting Clamp for 3G Vibration Rating
- IP65 Rated Driver
- Large Stainless Steel Thumb-Screw for Secure Tool-Less Access
- Diecast Aluminum Housing & Door
- 12 lb. Unit
- 3-Station Terminal Block
- MOV Pack
- Indicator Light SPD
- NEMA Photocontrol Receptacle
- 2-Bolt Mounting Clamp for 3G Vibration Rating
- 12 lb. Unit
# Autobahn Series ATBL

## Autobahn LED ATBL

<table>
<thead>
<tr>
<th>Series</th>
<th>Performance Packages</th>
<th>Voltage</th>
<th>Optics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATBL</td>
<td></td>
<td>MVOLT</td>
<td>N2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>347</td>
<td>R2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>480</td>
<td>R3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>R4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>R5</td>
</tr>
</tbody>
</table>

### Options

**Mounting**
- 2 Bolt Mounting
- 4 Bolt Mounting

**Color Temperature (CCT)**
- 4000K CCT, 70 CRI Min.
- 3000K CCT, 70 CRI Min.
- 5000K CCT, 70 CRI Min.

**Paint**
- Gray
- Black
- White
- Bronze
- Dark Bronze
- Graphite

**Surge Protection**
- Standard 10kA/5kV SPD
- 20kV/10kA SPD
- MOV Pack – 10kA/5kV SPD
- SPD with Indicator Light – 10kA/5kV SPD

**Controls**
- 3 Pin NEMA Photocontrol Receptacle
- 5 Pin Photocontrol Receptacle
- 7 Pin Photocontrol Receptacle
- No Photocontrol Receptacle
- Field Adjustable Output
- OV-10V Dimmable Driver
- Solid-State Lighting Photocontrol
- Solid-State Long Life Photocontrol
- Solid-State Long Life Photocontrol with remote control on/off
- Shorting Cap

**Install Packages**
- Standard Pack
- Job Pack (24/pallet)

**Accessories**
- House Side Shield for field installation
- Light Trespass Shield for field installation

### Effective Projected Area (EPA)

The EPA for the ATBL is .75 sq. ft. Approx. Wt. = 30 lbs. (13.6 kg.)

**Autobahn Series ATBL**

- LED Roadway Lighting
# Autobahn Series ATBM

## Autobahn LED ATBM

<table>
<thead>
<tr>
<th>Series</th>
<th>Performance Packages</th>
<th>Voltage</th>
<th>Optics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATBM</td>
<td></td>
<td>MVOLT</td>
<td>R2</td>
</tr>
<tr>
<td></td>
<td>A 7,000 lumens</td>
<td>347</td>
<td>Roadway Type II</td>
</tr>
<tr>
<td></td>
<td>B 8,000 lumens</td>
<td>347</td>
<td>Roadway Type III</td>
</tr>
<tr>
<td></td>
<td>C 9,000 lumens</td>
<td>480</td>
<td>Roadway Type IV</td>
</tr>
<tr>
<td></td>
<td>D 11,600 lumens</td>
<td></td>
<td>Roadway Type V</td>
</tr>
<tr>
<td></td>
<td>E 13,400 lumens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F 15,700 lumens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>G 16,600 lumens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>H 17,400 lumens</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Options

- **Mounting**
  - (Blank)
  - 2 Bolt Mounting
  - 4B
  - 4 Bolt Mounting

- **Color Temperature (CCT)**
  - (Blank)
  - 4000K CCT, 70 CRI Min.
  - 3K
  - 3000K CCT, 70 CRI Min.
  - 5K
  - 5000K CCT, 70 CRI Min.

- **Paint**
  - (Blank)
  - Gray
  - BK
  - Black
  - WH
  - White
  - BZ
  - Bronze
  - DDB
  - Dark Bronze
  - GI
  - Graphite

- **Surge Protection**
  - (Blank)
  - Standard 10kA/5kV SPD
  - 20
  - 20kV/10kA SPD
  - MP
  - MOV Pack – 10kA/5kV SPD
  - IL
  - SPD with Indicator Light – 10kA/5kV SPD

- **Misc.**
  - HSS
  - House Side Shield
  - NL
  - NEMA Label
  - XL
  - Not CSA Certified

### Controls
- (Blank)
- 3 Pin NEMA Photocontrol Receptacle
- PS
- 5 Pin Photocontrol Receptacle
- P7
- 7 Pin Photocontrol Receptacle
- NR
- No Photocontrol Receptacle
- AO
- Field Adjustable Output
- DM
- 0V-10V Dimmable Driver
- PCSS
- Solid-State Lighting Photocontrol
- PCLL
- Solid-State Long Life Photocontrol
- PCCC
- Solid-State Long Life Photocontrol with remote control on/off
- SH
- Shorting Cap

### Install Packages
- (Blank)
- Standard Pack
- JP
- Job Pack (24/pallet)

### Accessories
- ATBMHSS
  - House Side Shield for field installation
- ATBMLTS
  - Light Trespass Shield for field installation

### Effective Projected Area (EPA)
- The EPA for the ATBM is 0.3 sq. ft., Approx. Wt. = 21 lbs. (9.5 kg)

## Example: ATBM D MVOLT R2

- Roadway Type II
- Multi-volt, 120-277V
- Mounting 2 Bolt
- Color Temperature (CCT) 3000K
- Paint Gray
- Surge Protection Standard 10kA/5kV SPD
- Misc. HSS

- Lumens: 11,600
# Autobahn Series ATBS

## Autobahn LED ATBS

<table>
<thead>
<tr>
<th>Series</th>
<th>Performance Packages</th>
<th>Voltage</th>
<th>Optics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATBS Autobahn ATBS LED Roadway</td>
<td>A 1,900 lumens</td>
<td>MVOLT Multi-volt, 120-277V</td>
<td>R2 Roadway Type II</td>
</tr>
<tr>
<td></td>
<td>B 3,200 lumens</td>
<td></td>
<td>R3 Roadway Type III</td>
</tr>
<tr>
<td></td>
<td>C 3,800 lumens</td>
<td></td>
<td>R5 Roadway Type V</td>
</tr>
<tr>
<td></td>
<td>D 4,700 lumens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E 5,400 lumens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F 6,100 lumens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>G 7,100 lumens</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>H 8,500 lumens</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Options

#### Color Temperature (CCT)

<table>
<thead>
<tr>
<th>Blank</th>
<th>4000K CCT, 70 CRI Min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3K</td>
<td>3000K CCT, 70 CRI Min.</td>
</tr>
<tr>
<td>5K</td>
<td>5000K CCT, 70 CRI Min.</td>
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</tbody>
</table>

#### Paint

<table>
<thead>
<tr>
<th>Blank</th>
<th>Gray (Standard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>Black</td>
</tr>
<tr>
<td>WH</td>
<td>White</td>
</tr>
<tr>
<td>BZ</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

#### Surge Protection

<table>
<thead>
<tr>
<th>Blank</th>
<th>Standard 10kA/5kV SPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>20kV/10kA SPD</td>
</tr>
<tr>
<td>MP</td>
<td>MOV Pack – 10kA/5kV SPD</td>
</tr>
<tr>
<td>IL</td>
<td>SPD with Indicator Light – 10kA/5kV SPD</td>
</tr>
</tbody>
</table>

#### Misc

<table>
<thead>
<tr>
<th>HSS</th>
<th>House Side Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>NL</td>
<td>NEMA Label</td>
</tr>
<tr>
<td>XL</td>
<td>Not CSA Certified</td>
</tr>
</tbody>
</table>

#### Controls

<table>
<thead>
<tr>
<th>(Blank)</th>
<th>3 Pin NEMA Photocoupler Receptacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR</td>
<td>No Photocoupler Receptacle</td>
</tr>
<tr>
<td>DM</td>
<td>0V-10V Dimmable Driver</td>
</tr>
</tbody>
</table>

#### Accessory

| ATBSSHSS | House Side Shield for field installation |
| ATBSLTS  | Light Trespass Shield for field installation |

#### Notes

1. Not available with Install Packages.

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**Example:** ATBS A MVOLT R2

**Effective Projected Area (EPA)**

The EPA for the ATBS is 0.25 sq. ft., Approx. Wt. = 12 lbs. (5 kg)
Providing quality performance with quick payback, Autobahn, the next generation LED cobrahead from AEL, will drive you to significant energy savings, lower maintenance costs and peace of mind. The Autobahn is designed to upgrade existing HID cobraheads with progressive styling and advanced solid-state lighting performance, enhancing the landscape and improving nighttime safety. AEL provides you the assurance and confidence of a dependable solution from the industry leader. With 60 years of roadway experience, we know the road and our expertise manifests itself in the Autobahn’s optical design, tool-less features and component reliability. Move forward with Autobahn.