

SPECIFICATIONS  
AND  
BID DOCUMENTS  
FOR  
AMERICAN ELECTRIC LIGHTING LED STREETLIGHTS  
RFQ 147328  
CITY OF OAK RIDGE, TENNESSEE

**Bids due by 3:00 PM Local Time**  
**March 17<sup>th</sup>, 2016**

Specification #: 2016 Purchase of LED streetlights  
City of Oak Ridge Electric Department

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**Attachments:**

- Autobahn Series ATB0 Multi-volt
- Autobahn Series ATB2 Multi-volt
- Autobahn Series ATB2 480V

## **1.0 INVITATION TO BIDDERS**

Sealed bids will be received by the City of Oak Ridge, Tennessee, at its office in Oak Ridge, Tennessee for the project bid package shown below, until the date and time indicated, and immediately thereafter will be opened, and publicly read.

The City of Oak Ridge reserves the right to reject any or all bids and to waive any informalities or technicalities therein. The bid will be awarded to the lowest and best responsive bidder as determined by the Engineer.

No bidder may withdraw a bid for a period of sixty (60) days after the date set for opening of bids.

Specifications may be obtained from the Engineer. Specifications may be examined at the office of the Engineer.

OWNER: City of Oak Ridge, Tennessee  
Electric Department  
100 Woodbury Lane  
Post Office Box 1  
Oak Ridge, TN 37831-0001

ENGINEER: ATTN : Ardo Ba  
TEL : 865 425-1842  
FAX : 865 482-8313  
email: aba@oakridgetn.gov

PROJECT / PACKAGE: American Electric Lighting LED streetlights

BID DATE: 3:00PM, March 17<sup>th</sup>, 2016

## **2.0 INSTRUCTIONS TO BIDDERS**

- 2.1 You are invited to submit a Bid for American Electric Lighting LED Streetlights – the City of Oak Ridge, Tennessee.
- 2.2 The Owner does not obligate itself to accept the lowest or any other bid and specifically reserves the right to reject any and all bids.
- 2.3 The Bidder shall provide all information requested. The Bidder shall take care to complete all portions of the Proposal documents and to provide all required submittals. Failure to comply may result in the rejection of the bid.

Bidder shall return three (3) signed and priced copies of the Bid documents and all submittals required at the time of the Bid to:

City of Oak Ridge  
100 Woodbury Lane  
Oak Ridge, TN 37830  
ATTN: Lyn Majeski, Materials Management

sealed and marked in the lower left corner:

"SEALED BID for American Electric Lighting LED Streetlights  
Confidential - To be delivered to addressee unopened"

- 2.4 No proposal security will be required to accompany proposals.
- 2.5 The Owner invites cost saving and schedule improving alternatives. A Bidder shall first complete the Base Bid as issued by the Owner; Bidder may then submit the alternatives referenced to the base proposal. If the Bidder recommends any changes or deviations from the documents, Bidder shall describe the change fully and furnish complete information so that the Owner can make a decision based upon the alternative information provided.
- 2.6 If the Bidder requires additional information or is in doubt as to the meaning of any part of the Contract documents, Bidder shall notify Lyn Majeski at [lmajeski@oakridgetn.gov](mailto:lmajeski@oakridgetn.gov) and obtain an interpretation or clarification prior to submitting a bid. For questions to be answered, they must be received at least seven (7) days prior to the Bid due-date. Only questions answered in writing will be binding. Oral and other interpretations or clarifications will be without legal affect. Addenda may be issued as deemed necessary by the Engineer.
- 2.7 The Engineer will represent the Owner in all matters pertaining to the project, including but not limited to, answering technical questions of prospective bidders, bid evaluation and recommendation, review and approval of fabrication drawings and similar documents, and approval of invoices prior to payment by the Owner.
- 2.8 The terms Purchaser and Owner shall refer to the City of Oak Ridge. The terms Bidder,

Seller and Manufacturer shall refer to the supplier of the equipment described by the documents.

- 2.9 If these specifications call for material, equipment or manufacturing procedures different from the Manufacturer's standard, the Manufacturer shall clearly identify all deviations or substitutions in this bid. When possible, the Manufacturer should bid according to the specifications with the Manufacturer's standard as an option.
- 2.10 Equal shall mean a satisfactory equivalent as approved solely by the Engineer.
- 2.11 Proposals should include Manufacturer's best delivery date that is as close as possible to the requested delivery date.
- 2.12 The Bidder shall clearly state all exceptions to this specification. Unless specifically stated otherwise, the Bidder shall furnish equipment, material and services in exact accordance with this specification, and any modifications to equipment, material and services necessary to comply with this specification shall be made by the Bidder at no additional cost to the Purchaser.
- 2.13 The cost to furnish any and all prints, drawings, diagrams, instruction manuals, cutsheets, AutoCad electronic files, reports, and certified test reports shall be included in the bid process and shall not be listed as a separate item.
- 2.14 All requested options, devices, and equipment are required, and expected per the specifications, and the cost to furnish fully operational equipment with explanatory documentation shall be included in the bid process and shall not be listed as separate items.

### 3.0 TERMS AND CONDITIONS

#### 3.1 Acceptance; Entire Agreement

Acceptance of this order by acknowledgement, shipment or other performance shall be expressly limited to the terms and conditions contained in this order. Any additional or different terms or conditions proposed by the Seller are objected to and are hereby rejected. Upon acceptance, the terms contained in this order shall constitute the entire agreement between Seller and Purchaser with respect to the subject matter of this agreement (hereinafter referred to as the "Agreement") and may not be modified, added to, or rescinded except by a written document signed by Seller and Purchaser.

#### 3.2 Assignment and Setoff

The Seller shall not assign any right or interest under this Agreement nor delegate any work or other obligation to be performed or owned under this Agreement without the prior written consent of Purchaser. Any attempted assignment or delegation in contravention of this provision shall be void. Purchaser shall be entitled to set off any amounts owed by Seller to Purchaser against any amounts payable to Seller.

#### 3.3 Delivery Terms

All goods ordered hereunder shall be shipped F.O.B. destination, unless otherwise agreed. No charge will be allowed for packing, crating, freight, express, or cartage, unless agreed to and specified on this order. This order shall not be filled at prices higher than last quoted or charged without proper authorization.

#### 3.4 Payment

Upon the shipment of any material hereunder, the Seller shall submit to the Purchaser a detailed invoice duplicate of the materials shipped. Within 30 days after written acknowledged receipt, the Purchaser shall make payment thereof to the Seller.

#### 3.5 Time of Performance

Time is of the essence of this Agreement. If tender of conforming goods is not made by the delivery date specified or services are not completed by the completion date specified, Purchaser may treat such failure as a breach hereof and will have all remedies afforded to it by law including, but not limited to, the rights to cover.

#### 3.6 Identification; Risk of Loss

Identification of the goods ordered herein shall occur at the moment this order is accepted by Seller. Risk of loss shall pass to the Purchaser at the time that conforming goods to the Agreement are confirmed received at the Delivery Site.

#### 3.7 Infringement

Seller shall indemnify Purchaser and Purchaser's customers for any and all loss, damage,

expense, (including but not limited to attorney's fees) claims or liability arising out of any infringement or claim of infringement of any patent, trademark, copyright, trade secret or other proprietary interest based on the manufacture, installation, normal use, lease, or sale of any service of material furnished to Purchaser under this Agreement. Purchaser shall notify Seller promptly of any such claim or infringement and Seller shall, at its own cost, defend, compromise, or settle, any such action or actions to satisfy and discharge the same without any cost or expense whatsoever to the Purchaser.

### 3.8 Warranties

Seller warrants to Purchaser that material furnished will be merchantable, fit for Purchaser's intended purposes and free from defect in design, material and workmanship and will conform to and perform in accordance with Purchaser's drawings and specifications and will be safe for its intended use. Seller also warrants to Purchaser that services will be performed in a first class workmanlike manner consistent with accepted industry standards. In addition, if material furnished contains one or more manufacturers' warranties, Seller hereby assigns such warranties to Purchaser. All warranties shall survive inspection, acceptance and payment. Material not meeting the warranties shall at Purchaser's option be repaired, adjusted or replaced by Seller at no cost to Purchaser. Services not meeting the warranties shall at Purchaser's option be reperformed by Seller at no cost to Purchaser. Such remedies shall be available to Purchaser in addition to all others afforded to it at law or equity.

### 3.9 Rejected Goods

Purchaser shall give notice to Seller of any rejection of goods, and goods rejected will, at Seller's expense, be returned to Seller or otherwise disposed of as Seller may reasonably request. Payment for the goods prior to inspection and approval shall not constitute acceptance thereof. Neither Purchaser's inspection nor its failure to inspect the goods delivered hereunder shall release Seller from its warranties and obligations under this Agreement.

### 3.10 Termination

- A) Purchaser may terminate this Agreement for default upon notice to Seller if: 1) Seller fails to comply with any of the terms and conditions of this Agreement, including failure to deliver goods or perform services required within the time specified in this Agreement; 2) at any time reasonable grounds for insecurity arise with respect to Seller's expected performance and Seller fails to furnish adequate assurance of due performance within ten (10) days after a written demand by Purchaser for such adequate assurance; 3) Seller shall become insolvent or make an assignment for the benefit of creditors; or 4) Seller shall file a voluntary petition in bankruptcy or insolvency or shall be involuntarily petitioned into bankruptcy or insolvency.
- B) Purchaser may terminate this Agreement, in whole or in part, for its convenience, at any time by giving written notice to Seller, and Seller shall promptly comply with the directions contained in such notice. In such event, Purchaser shall make payment to Seller for all costs incurred by Seller prior to such termination

reasonably allocable to this Agreement under recognized accounting practice, less any scrap or salvage value.

3.11 Liens

Seller shall promptly pay for all materials, supplies and labor employed by it in manufacturing the ordered goods to the end that such goods may be kept free from Materialmen's, Warehousemen's and Mechanics' liens. Seller shall promptly discharge any such liens arising from the performance of this Agreement.

3.12 Indemnity of the Purchaser

The Seller shall indemnify and hold Purchaser and its officers, employees, and agents harmless from and against all suits or claims that may be based upon any alleged injury to or the death of any person or damage to property that may occur or that may be alleged to have occurred in the course of performance of this Agreement whether or not such claim is made by a third person, except when it shall be proved that the alleged injury was caused solely by a negligent act or omission of the Purchaser. Seller shall, at its own cost and expense, pay all costs and expenses or such suit or claim, including attorney's fees in connection therewith, and if any judgement shall be rendered against the Purchaser in any such action or actions the Seller shall satisfy and discharge the same without cost or expense to Purchaser.

3.13 Compliance with Laws

Seller and all material furnished by Seller shall fully comply with all federal, state, and local laws, ordinances, regulations, orders and codes, including identification and procurement of required permits, certificates, approvals and inspections in performance hereunder. Any provision required to be included in this Agreement by any such law, rule or regulation shall be deemed to be included herein. The Equal Opportunity Clause contained in Executive Order 11246 as amended, relating to equal employment opportunity for all persons without regard to race, color, religion, sex or national origin, the Affirmative Action Clause contained in 41 C.F.R. Chapter 60.250 relating to affirmative action obligations to disabled veterans and to veterans of the Vietnam Era, and the Affirmative Action Clause contained in 41 C.F.R. Chapter 60.741 relating to affirmative action obligations to handicapped workers, are incorporated herein by reference. The Seller also certifies that it does not engage in and requires that its subcontractor's (if any) employees or agents not engage in, any form of discrimination based on race, color, religion, sex or national origin. Seller agrees to indemnify Purchaser for any loss or damage that may be sustained by reason of any failure to do so.

3.14 Labeling

All goods and materials to be supplied by Seller under this Agreement shall be labeled in accordance with the requirements of the Federal Occupational Safety and Health Act Hazard Communication Standard (29 CFR 1910.1200) and/or applicable State law or standard of similar effect. Seller shall immediately send to the Purchaser, referencing this purchase order number, all required written safety information materials including without limitation, Material Safety Data Sheets, required under said standards.

3.15 Non-Waiver

No course of dealing or failure of either party to strictly enforce any term, right or condition of this Agreement shall be construed as a waiver of such term, right, or condition.

3.16 Choice of Law

The construction, interpretation and performance of this Agreement and all transactions under it shall be governed and resolved in accordance with the laws of the State of Tennessee.

3.17 Notification

The Manufacturer shall acknowledge in writing to the Engineer that the Owner's Purchase Order or acceptance has been received within 5 days ARO. The acknowledgement shall include the date that the Purchase Order or acceptance is received and the date that equipment delivery is expected.

3.18 Terminology

The terms "shall" and "will" which appear in the Proposal and specifications place an absolute obligation on the Manufacturer to do that which is designated and/or specified.

3.19 Taxes

City of Oak Ridge, Tennessee is exempt from sales tax.

#### **4.0 EQUAL OPPORTUNITY PROVISIONS**

- 4.1 This Contract is subject to the provisions of Section 202 of Executive Order Number 11246 of September 24, 1965 as amended relating to Equal Opportunity and to the Affirmative Action requirements of 41CFR60. The Contractor, in performing the work or services of this contract, shall not discriminate against any person seeking employment with or by the contractor because of race, creed, color, sex, sexual orientation, or national origin or other legally protected status.
- 4.2 The City of Oak Ridge, Tennessee encourages the utilization of minority and women-owned businesses in its contracting and subcontracting projects and the Bidder is encouraged to actively solicit the participation of these businesses.
- 4.3 Each Bidder shall complete the following Equal Opportunity Compliance Certificate as part of the submitted proposal.

**EQUAL OPPORTUNITY  
COMPLIANCE CERTIFICATE**

We hereby certify:

As a(n): \_\_\_\_\_ Division of Parent Company \_\_\_\_\_  
\_\_\_\_\_ Subsidiary  
\_\_\_\_\_ Affiliate Address \_\_\_\_\_  
\_\_\_\_\_ Separate Corporation \_\_\_\_\_

And being: \_\_\_\_\_ a Small Business (Ref: ASPR-1-701-1)  
\_\_\_\_\_ Minority Owned Business (Ref: 41CFR-1.701-1)  
\_\_\_\_\_ from a Labor Surplus Area (Ref: 41CFR 1-1.801-1);

Having \_\_\_\_\_ employees in all divisions, subsidiaries, affiliates and parent (number) company;

That we shall comply with the applicable portions of the Equal Opportunity Clause as promulgated under Executive Order 11246, September 24, 1965 as amended, and all other federal laws and regulations pertaining to the Equal Employment Opportunity and Affirmative Action obligations of Federal Government Contractors, and shall submit the required compliance reports, and shall maintain non-segregated facilities.

Contractor \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Signature of Authorized Representative \_\_\_\_\_

Date of Signing \_\_\_\_\_

## 5.0 SHIPPING

- 1 Unit(s) shall be furnished F.O.B. Destination, Freight Prepaid and Allowed to the destination. Unloading will be provided by the Owner. Destination is: City of Oak Ridge Warehouse, 100 Woodbury Lane, Oak Ridge, TN 37830
- 2 Manufacturer shall be responsible for obtaining necessary permits, providing and verifying routing and, in general, making all the necessary arrangements for transporting the equipment provided to Purchaser's destination.
- 3 Partial shipments will be accepted for this order.
- 4 Lead time may be a factor in the award process.
- 5 Provide forty-eight (48) hours advance notice to the Engineer of the exact time delivery will be made at destination, along with information listed below.
- 6 The manufacturer shall, at the time arrangements for delivery are to be made, inform the Engineer of:
  - a. Purchase Order Number
  - b. Number of items being shipped per purchase order
  - c. Weight of each item (heaviest)
  - d. Estimated time of arrival
  - e. Location of use ("to be used for:" not "ship to:")

## **6.0 LIGHTING SPECIFICATION**

### 1.0 Standards

The primary standards to which this equipment shall be constructed and tested are:

- 1.1 National Electric Code
- 1.2 American National Standards Institute
- 1.3 National Electric Safety Code
- 1.4 American Society for Testing Materials
- 1.5 Institute of Electrical and Electronic Engineers
- 1.6 Insulated Power Cable Engineers Association
- 1.7 All applicable local codes including the SSBC

### 2.0 Bid Specification:

The Bid shall be for LED streetlighting meeting the specifications below:

American Electric Lighting ATB0 Autobahn LED Roadway. 30B, 700mA performance package, multi-volt 120-277V, with R3 Roadway type III, and 4000K CCT. Delivered Lumens 8413.

American Electric Lighting ATB2 Autobahn LED Roadway. 80B, 1050mA performance package, multi-volt 120-277V, with R3 Roadway type III, and 4000K CCT. Delivered Lumens 30491.

American Electric Lighting ATB2 Autobahn LED Roadway. 80B, 1050mA performance package, 480V, with R3 Roadway type III, and 4000K CCT. Delivered Lumens 30491.

Approved Manufacturers and Catalog Numbers:

American Electric Lighting ATB0 30BLEDE70 MVOLT R3 NL  
American Electric Lighting ATB2 80BLEDE10 MVOLT R3 HK NL  
American Electric Lighting ATB2 80BLEDE10 480 R3 HK NL

**NO SUBSTITUTION TO AMERICAN ELECTRIC LIGHTING AUTOBAHN SERIES WILL BE ACCEPTED.**

## **7.0 BID PROPOSAL**

In submitting this Proposal, the Manufacturer agrees as follows:

The prices set forth herein do not include any sums which are or may be payable by the Manufacturer on account of taxes imposed by any taxing authority upon the sale, purchase, or use of the equipment. If any such tax is applicable to the sale, purchase, or use of the equipment, the amount thereof shall be added to the purchase price and paid by the Owner.

The prices set forth herein are firm if accepted by the Owner within sixty (60) days and shall include the cost of delivery to the job site, inspection, testing and certification.

The equipment shall be delivered to the Delivery Site on or before Delivery Date and certified for the Owner's use by the Manufacturer on or before the Certification Date. Include delivery and certification dates with proposal.

Certification by the Manufacturer shall include such inspections and tests as required to certify the units for external connection and subsequent energization.

Title of equipment shall pass to the Owner once the equipment has been delivered, satisfactorily inspected for transit damage, and certified ready for energization by the Manufacturer.

The Manufacturer agrees that all requests for time extensions shall be in writing, and that only such time extensions as are granted by the Owner in writing shall be considered.

Descriptive literature, including dimensions and weight of manufacturer equipment, shall be furnished with the proposal.

# PROPOSAL FORM

**BASE BID:**

TO: CITY OF OAK RIDGE, TENNESSEE

Manufacturer: **American Electric Lighting** Supplier \_\_\_\_\_

Item	Catalog number	Quantity	Price/fixture	Extended Price	Lead time ARO
1	ATB0 30BLEDE70 MVOLT R3 NL	82	_____	_____	_____
2	ATB2 80BLEDE10 MVOLT R3 HK NL	153	_____	_____	_____
3	ATB2 80BLEDE10 480 R3 HK NL	50	_____	_____	_____

---

Bidder: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Prepared By: \_\_\_\_\_

Signature \_\_\_\_\_

Title: \_\_\_\_\_

Telephone Number : \_\_\_\_\_

Fax Number : \_\_\_\_\_

email : \_\_\_\_\_

Date : \_\_\_\_\_

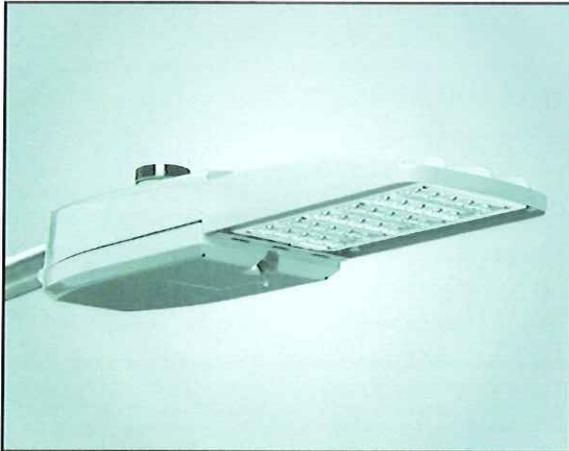
Tax ID#: \_\_\_\_\_





Consistent with LEED® goals & Green Globes® criteria for light pollution reduction

## PRODUCT OVERVIEW



### Applications:

- Roadways
- Off ramps
- Residential streets
- Parking lots

### Features:

#### OPTICAL

**Same Light: Performance** is comparable to 70-200W HPS roadway luminaires.

**White Light: Correlated color temperature** - standard 4000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing. Available in Type II, III, IV, and V roadway distributions.

#### ELECTRICAL

**Expected Life:** LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

**Lower Energy:** Saves an expected of 40-60% over comparable HID luminaires.

**Robust Surge Protection:** Three different surge protection options provide a minimum of IEEE/ANSI C62.41 Category C (10kV/5kA) protection.

#### MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easily leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 1000 hours exposure to salt fog chamber (operated per ASTM B117). Optional Enhanced Corrosion Resistant finish (CR) increases the salt spray exposure over 5000 hours.

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. Provides a 3G vibration rating per ANSI C136.31

Wildlife shield is cast into the housing (not a separate piece).

#### CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 5 pin and 7 pin receptacles optionally available.

Premium solid state locking style photocontrol - PCSS (10 year rated life)  
Extreme long life solid state locking style photocontrol - PCLL (20 year rated life).

Multi-level dimming available to provide scheduled dimming as specified by the customer.

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

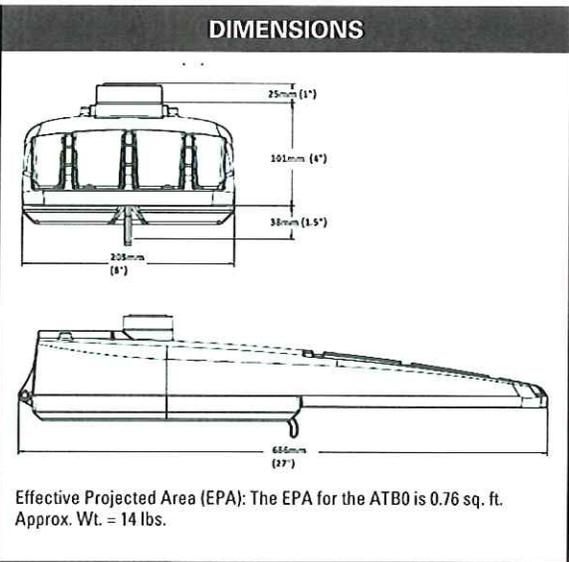
#### STANDARDS

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

Rated for -40°C to 40°C ambient

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37



Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.



# Autobahn Series ATB0

## Roadway Lighting

### ORDERING INFORMATION

Example: ATB0 30LEDE10 MVOLT R2

Series	Performance Packages	Voltage	Optics
<b>ATB0</b> Autobahn LED Roadway	<b>20BLEDE53<sup>1</sup></b> 20B Chips, 525mA Driver <b>20BLEDE70</b> 20B Chips, 700mA Driver <b>20BLEDE10</b> 20B Chips, 1050mA Driver <b>20BLEDE13</b> 20B Chips, 1300mA Driver <b>30BLEDE70</b> 30B Chips, 700mA Driver <b>30BLEDE85</b> 30B Chips, 850mA Driver <b>30BLEDE10</b> 30B Chips, 1050mA Driver <b>30BLEDE13</b> 30B Chips, 1300mA Driver	<b>MVOLT</b> Multi-volt, 120-277V 347 347V 480 480V	<b>R2</b> Roadway Type II <b>R3</b> Roadway Type III <b>R4</b> Roadway Type IV <b>R5</b> Roadway Type V

### Options

#### Color Temperature (CCT)

**(Blank)** 4000K CCT, 70 CRI Min. (Standard)  
**5K** 5000K CCT, 70 CRI Min.

#### Paint

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

#### Surge Protection

**Blank** Acuity SPD with inductive filter circuit (Standard)  
**MP<sup>2</sup>** MOV Pack  
**IL<sup>2</sup>** SPD with Indicator Light

#### Terminal Block

**(Blank)** Terminal Block (Standard)  
**T2** Wired to L1 & L2 Positions

#### Misc.

**BL** External Bubble Level  
**CR** Enhanced Corrosion Resistant Finish  
**HS** House-Side Shield  
**NL** Nema Label  
**XL** Not CSA Certified

#### Controls

**(Blank)** 3 Pin NEMA Photocontrol Receptacle (Standard)  
**P5<sup>3</sup>** 5 Pin Photocontrol Receptacle (Dimmable Driver Included)  
**P7<sup>3</sup>** 7 Pin Photocontrol Receptacle (Dimmable Driver Included)  
**NR** No Photocontrol Receptacle  
**AO<sup>4</sup>** Field Adjustable Output  
**DM** 0V-10V Dimmable Driver (Controls by others)  
**ML<sup>5,6</sup>** Multi-Level Dimming  
**PCSS<sup>2</sup>** Solid State Lighting Photocontrol (120-277V)  
**PCLL** Solid State Long Life Photocontrol  
**SH** Shorting Cap

#### Packaging

**(Blank)** Single Unit (Standard)  
**JP** Job Pack (42/Pallet)

#### Notes

1 20BLEDE53 not compatible with the following options: P5, P7, AO, DM, ML.  
 2 Not available in 347 or 480V.  
 3 Not available with DM, ML or NR.  
 4 Not available with DM or ML options.  
 5 Not available with AO, DM, P5 or P7 options.  
 6 Dimming Schedule and light level information required from the customer in order to configure product. Contact Infrastructure Technical Support to proceed.



AEL Headquarters, 3825 Columbus Road, Granville, OH 43023  
 www.americanelectriclighting.com  
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**Warranty** Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)  
 Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Please contact your sales representative for the latest product information.

# Autobahn Series ATB0

## Roadway Lighting

### PERFORMANCE PACKAGE

Performance Package	Drive Current (mA)	Input Watts	Optic	4000K CCT		LLD @ 25°C	
				Delivered Lumens	Efficacy (LPW)	50k Hours	100k Hours
20B	525	39	R2	4623	119	0.98	0.96
	700	48		5571	116	0.98	0.96
	1000	72		7760	108	0.96	0.92
	1300	88		8990	102	0.95	0.89
	525	39	R3	4635	119	0.98	0.96
	700	48		5598	117	0.98	0.96
	1000	72		7829	109	0.96	0.92
	1300	88		9099	103	0.95	0.89
	525	39	R4	4542	116	0.98	0.96
	700	48		5487	114	0.98	0.96
	1000	72		7653	106	0.96	0.92
	1300	88		8870	101	0.95	0.89
	525	39	R5	4945	127	0.98	0.96
	700	48		5976	125	0.98	0.96
	1000	72		8391	117	0.96	0.92
	1300	88		9759	111	0.95	0.89
30B	700	70	R2	8536	122	0.98	0.96
	850	86		9891	115	0.96	0.92
	1000	104		11806	114	0.96	0.92
	1300	129		13754	107	0.95	0.89
	700	70	R3	8413	120	0.98	0.96
	850	86		9774	114	0.96	0.92
	1000	104		11639	112	0.96	0.92
	1300	129		13502	105	0.95	0.89
	700	70	R4	8209	117	0.98	0.96
	850	86		9635	112	0.96	0.92
	1000	104		11392	110	0.96	0.92
	1300	129		13215	102	0.95	0.89
	700	70	R5	8576	123	0.98	0.96
	850	86		9968	116	0.96	0.92
	1000	104		11847	114	0.96	0.92
	1300	129		13766	107	0.95	0.89

Note: Information shown above is based on nominal system data. Individual fixture performance may vary. Specifications subject to change without notice.

ATB0 LLD Multiplier	15°C	20°C	25°C	30°C	35°C	40°C
	1.02	1.01	1	0.98	0.97	0.95

To calculate the LLD for a temperature other than 25°C, multiply the LLD @ 25°C (shown in the performance package table) by the LLD multiplier for the selected temperature.



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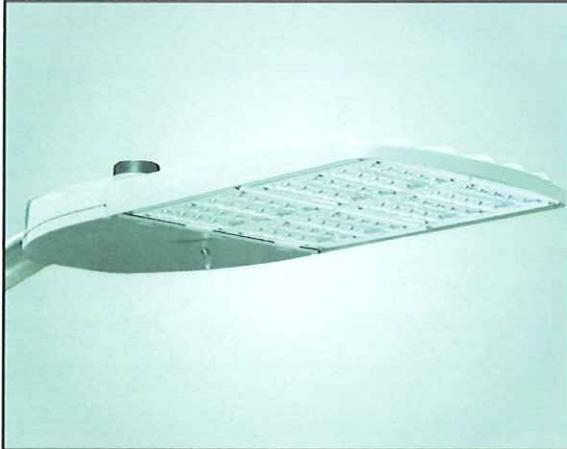
Warranty Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)  
 Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Please contact your sales representative for the latest product information.



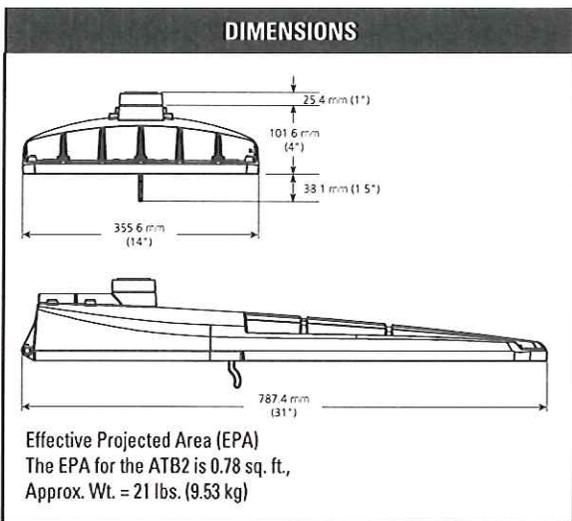
Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

### PRODUCT OVERVIEW



#### Applications:

- Roadways
- Off ramps
- Residential streets
- Parking lots



#### Features:

##### OPTICAL

Same Light: Performance is comparable to 250-400W HPS roadway luminaires.

White Light: Correlated color temperature - standard 4000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available in Type II, III, IV, & V roadway distributions.

##### ELECTRICAL

Expected Life: LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an average of 40-60% over comparable HPS platforms.

Robust Surge Protection: Three different surge protection options provide a minimum of IEEE/ANSI C62.41 Category C (10kV/5kA) protection.

##### MECHANICAL

Easy to Maintain: Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing is polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 1000 hours exposure to salt fog chamber (operated per ASTM B117) Optional Enhanced Corrosion Resistant finish (CR) increases the salt spray exposure to 5000 hours.

Four-bolt mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter and provides a 3G vibration rating per ANSI C136.

Wildlife shield is cast into the housing (not a separate piece).

##### CONTROLS

NEMA 3 Pin photocontrol receptacle is standard, with the Acuity designed ANSI 5 Pin and 7 Pin receptacles optionally available.

Premium solid state locking sale photocontrol - PCSS (10 year rated life). Extreme long life sold state locking style photocontrol - PCLL (20 year rated life).

Mult-level dimming available to provide scheduled dimming as specified by the customer.

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and can also allow a single fixture to be flexibly applied in many different applications.

##### WARRANTY & STANDARDS

5 year limited warranty. Full warranty terms located at [http://www.acuitybrands.com/Libraries/Terms\\_and\\_Conds/ABL\\_LED\\_Commerical\\_Outdoor.sflb.ashx](http://www.acuitybrands.com/Libraries/Terms_and_Conds/ABL_LED_Commerical_Outdoor.sflb.ashx)

Rated for -40°C to 40°C ambient.

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

# Autobahn Series ATB2

## Roadway Lighting

### ORDERING INFORMATION

Example: ATB2 40LEDE70 MVOLT R2

Series	Performance Packages	Voltage	Optics
ATB2 Autobahn LED Roadway & Security	<b>40BLEDE70</b> 40B Chips, 700mA Driver <b>40BLEDE10</b> 40B Chips, 1050mA Driver <b>40BLEDE13</b> 40B Chips, 1300mA Driver <b>60BLEDE70</b> 60B Chips, 700mA Driver <b>60BLEDE85</b> 60B Chips, 850mA Driver <b>60BLEDE10</b> 60B Chips, 1050mA Driver <b>60BLEDE13</b> 60B Chips, 1300mA Driver <b>80BLEDE70</b> 80B Chips, 700mA Driver <b>80BLEDE85</b> 80B Chips, 850mA Driver <b>80BLEDE10</b> 80B Chips, 1050mA Driver	<b>MVOLT</b> Multi-volt, 120-277V 347 347V 480 480V	<b>R2</b> Roadway Type II <b>R3</b> Roadway Type III <b>R4</b> Roadway Type IV <b>R5</b> Roadway Type V

### Options

Color Temperature (CCT)	Controls	Notes
<b>(Blank)</b> 4000K CCT, 70 CRI Min. (Standard) <b>5K</b> 5000K CCT, 70 CRI Min.	<b>(Blank)</b> 3 Pin NEMA Photocontrol Receptacle (Standard) <b>P5</b> 5 Pin Photocontrol Receptacle (Dimmable Driver Included) <b>P7</b> 7 Pin Photocontrol Receptacle (Dimmable Driver Included) <b>NR</b> No Photocontrol Receptacle <b>AO<sup>2</sup></b> Field Adjustable Output <b>DM</b> 0V-10V Dimmable Driver (Controls by others) <b>ML<sup>3,4</sup></b> Multi-Level Dimming <b>PCSS<sup>1</sup></b> Solid State Lighting Photocontrol (120-277V) <b>PCLL</b> Solid State Long Life Photocontrol <b>SH</b> Shorting Cap	<ol style="list-style-type: none"> <li>Not available in 347 or 480V.</li> <li>Not available with DM or ML options.</li> <li>Not available with AO, DM, P5 or P7 options.</li> <li>Dimming schedule and light level information required from the customer in order to configure product. Contact Infrastructure Technical Support to proceed.</li> </ol>
<b>Paint</b> <b>(Blank)</b> Gray (Standard) <b>BK</b> Black <b>BZ</b> Bronze <b>DDB</b> Dark Bronze <b>GI</b> Graphite <b>WH</b> White	<b>Packaging</b> <b>(Blank)</b> Single Unit (Standard) <b>JP</b> Job Pack (24/Pallet)	
<b>Surge Protection</b> <b>Blank</b> Acuity SPD with inductive filter (Standard) <b>MP<sup>1</sup></b> MOV Pack <b>IL<sup>1</sup></b> SPD with Indicator Light		
<b>Terminal Block</b> <b>(Blank)</b> Terminal Block (Standard) <b>T2</b> Wired to L1 & L2 Positions		
<b>Misc.</b> <b>BL</b> External Bubble Level <b>CR</b> Enhanced Corrosion Resistant Finish <b>HS</b> House-Side Shield <b>NL</b> Nema Label <b>XL</b> Not CSA Certified <b>HK</b> Hinge Keeper		

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

# Autobahn Series ATB2

## Roadway Lighting

### PERFORMANCE PACKAGE

Performance Package	Drive Current (mA)	Input Watts	Optic	4000K CCT		LLD @ 25°C		
				Delivered Lumens	Efficacy (LPW)	50k Hours	100k Hours	
40B	700	91	R2	11266	124	0.98	0.96	
	1000	138		15685	114	0.95	0.90	
	1300	177		18277	103	0.94	0.88	
	700	91	R3	11160	123	0.98	0.96	
	1000	138		15520	112	0.95	0.90	
	1300	177		18050	102	0.94	0.88	
	700	91	R4	10775	118	0.98	0.96	
	1000	138		15015	109	0.95	0.90	
	1300	177		17341	98	0.94	0.88	
	700	91	R5	12097	133	0.98	0.96	
	1000	138		16729	121	0.95	0.90	
	1300	177		19564	111	0.94	0.88	
60B	700	133	R2	16986	128	0.98	0.96	
	850	173		19966	115	0.95	0.90	
	1000	208		23710	114	0.95	0.90	
	1300	260		27308	105	0.94	0.88	
	700	133	R3	17128	129	0.98	0.96	
	850	173		20105	116	0.95	0.90	
	1000	208		23250	112	0.95	0.90	
	1300	260		27477	106	0.94	0.88	
	700	133	R4	16516	124	0.98	0.96	
	850	173		19429	112	0.95	0.90	
	1000	208		22718	109	0.95	0.90	
	1300	260		26400	102	0.94	0.88	
	700	133	R5	17882	134	0.98	0.96	
	850	173		21000	121	0.95	0.90	
	1000	208		24673	119	0.95	0.90	
	1300	260		28838	111	0.94	0.88	
	80B	700	180	R2	22528	125	0.98	0.96
		850	224		26394	118	0.95	0.90
1000		274	30998		113	0.95	0.90	
700		180	R3	22127	123	0.98	0.96	
850		224		25955	116	0.95	0.90	
1000		274		30491	111	0.95	0.90	
700		180	R4	21701	121	0.98	0.96	
850		224		25350	113	0.95	0.90	
1000		274		29567	108	0.95	0.90	
700		180	R5	23799	132	0.98	0.96	
850		224		27851	124	0.95	0.90	
1000		274		32391	118	0.95	0.90	

Note: Information shown above is based on nominal system data. Individual fixture performance may vary. Specifications subject to change without notice.

ATB2 LLD Multiplier	15°C	20°C	25°C	30°C	35°C	40°C
	1.02	1.01	1	0.99	0.97	0.96

To calculate the LLD for a temperature other than 25°C, multiply the LLD @ 25°C (shown in the performance package table) by the LLD multiplier for the selected temperature.



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Warranty Five-year limited warranty. Complete warranty terms located at:  
[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)  
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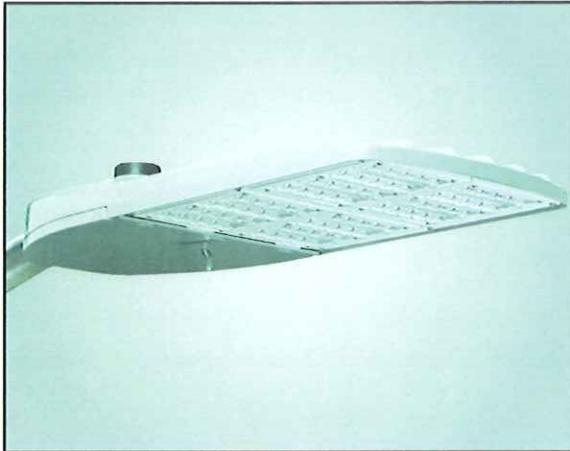
ATB2 480V



Consistent with LEED® goals & Green Globes® criteria for light pollution reduction

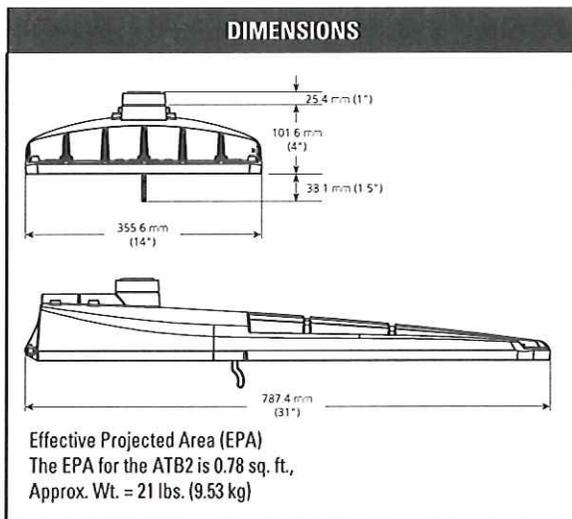
# Autobahn Series ATB2 Roadway Lighting

## PRODUCT OVERVIEW



### Applications:

- Roadways
- Off ramps
- Residential streets
- Parking lots



### Features:

#### OPTICAL

**Same Light:** Performance is comparable to 250-400W HPS roadway luminaires.

**White Light:** Correlated color temperature - standard 4000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available in Type II, III, IV, & V roadway distributions.

#### ELECTRICAL

**Expected Life:** LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

**Lower Energy:** Saves an average of 40-60% over comparable HPS platforms.

**Robust Surge Protection:** Three different surge protection options provide a minimum of IEEE/ANSI C62.41 Category C (10kV/5kA) protection.

#### MECHANICAL

**Easy to Maintain:** Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing is polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 1000 hours exposure to salt fog chamber (operated per ASTM B117) Optional Enhanced Corrosion Resistant finish (CR) increases the salt spray exposure to 5000 hours.

Four-bolt mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter and provides a 3G vibration rating per ANSI C136.

Wildlife shield is cast into the housing (not a separate piece).

#### CONTROLS

NEMA 3 Pin photocontrol receptacle is standard, with the Acuity designed ANSI 5 Pin and 7 Pin receptacles optionally available.

Premium solid state locking sale photocontrol - PCSS (10 year rated life). Extreme long life sold state locking style photocontrol - PCLL (20 year rated life).

Mult-level dimming available to provide scheduled dimming as specified by the customer.

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and can also allow a single fixture to be flexibly applied in many different applications.

#### WARRANTY & STANDARDS

5 year limited warranty. Full warranty terms located at [http://www.acuitybrands.com/Libraries/Terms\\_and\\_Conds/ABL\\_LED\\_Commerical\\_Outdoor.sflb.ashx](http://www.acuitybrands.com/Libraries/Terms_and_Conds/ABL_LED_Commerical_Outdoor.sflb.ashx)

Rated for -40°C to 40°C ambient.

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

# Autobahn Series ATB2

## Roadway Lighting

### ORDERING INFORMATION

Example: ATB2 40LEDE70 MVOLT R2

Series	Performance Packages	Voltage	Optics
<b>ATB2 Autobahn LED</b> Roadway & Security	<b>40BLEDE70</b> 40B Chips, 700mA Driver <b>40BLEDE10</b> 40B Chips, 1050mA Driver <b>40BLEDE13</b> 40B Chips, 1300mA Driver <b>60BLEDE70</b> 60B Chips, 700mA Driver <b>60BLEDE85</b> 60B Chips, 850mA Driver <b>60BLEDE10</b> 60B Chips, 1050mA Driver <b>60BLEDE13</b> 60B Chips, 1300mA Driver <b>80BLEDE70</b> 80B Chips, 700mA Driver <b>80BLEDE85</b> 80B Chips, 850mA Driver <b>80BLEDE10</b> 80B Chips, 1050mA Driver	<b>MVOLT</b> Multi-volt, 120-277V <b>347</b> 347V <b>480</b> 480V	<b>R2</b> Roadway Type II <b>R3</b> Roadway Type III <b>R4</b> Roadway Type IV <b>R5</b> Roadway Type V

### Options

#### Color Temperature (CCT)

- (Blank) 4000K CCT, 70 CRI Min. (Standard)
- 5K 5000K CCT, 70 CRI Min.

#### Paint

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

#### Surge Protection

- Blank Acuity SPD with inductive filter (Standard)
- MP<sup>1</sup> MOV Pack
- IL<sup>1</sup> SPD with Indicator Light

#### Terminal Block

- (Blank) Terminal Block (Standard)
- T2 Wired to L1 & L2 Positions

#### Misc.

- BL External Bubble Level
- CR Enhanced Corrosion Resistant Finish
- HS House-Side Shield
- NL Nema Label
- XL Not CSA Certified

**HK Hinge Keeper**

#### Controls

- (Blank) 3 Pin NEMA Photocontrol Receptacle (Standard)
- P5 5 Pin Photocontrol Receptacle (Dimmable Driver Included)
- P7 7 Pin Photocontrol Receptacle (Dimmable Driver Included)
- NR No Photocontrol Receptacle
- AO<sup>2</sup> Field Adjustable Output
- DM 0V-10V Dimmable Driver (Controls by others)
- ML<sup>3,4</sup> Multi-Level Dimming
- PCSS<sup>1</sup> Solid State Lighting Photocontrol (120-277V)
- PCLL Solid State Long Life Photocontrol
- SH Shorting Cap

#### Packaging

- (Blank) Single Unit (Standard)
- JP Job Pack (24/Pallet)

#### Notes

1. Not available in 347 or 480V.
2. Not available with DM or ML options.
3. Not available with AO, DM, P5 or P7 options.
4. Dimming schedule and light level information required from the customer in order to configure product. Contact Infrastructure Technical Support to proceed.

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.



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**Warranty** Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)  
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Please contact your sales representative for the latest product information.

# Autobahn Series ATB2

## Roadway Lighting

### PERFORMANCE PACKAGE

Performance Package	Drive Current (mA)	Input Watts	Optic	4000K CCT		LLD @ 25°C		
				Delivered Lumens	Efficacy (LPW)	50k Hours	100k Hours	
40B	700	91	R2	11266	124	0.98	0.96	
	1000	138		15685	114	0.95	0.90	
	1300	177		18277	103	0.94	0.88	
	700	91	R3	11160	123	0.98	0.96	
	1000	138		15520	112	0.95	0.90	
	1300	177		18050	102	0.94	0.88	
	700	91	R4	10775	118	0.98	0.96	
	1000	138		15015	109	0.95	0.90	
	1300	177		17341	98	0.94	0.88	
	700	91	R5	12097	133	0.98	0.96	
	1000	138		16729	121	0.95	0.90	
	1300	177		19564	111	0.94	0.88	
60B	700	133	R2	16986	128	0.98	0.96	
	850	173		19966	115	0.95	0.90	
	1000	208		23710	114	0.95	0.90	
	1300	260		27308	105	0.94	0.88	
	700	133	R3	17128	129	0.98	0.96	
	850	173		20105	116	0.95	0.90	
	1000	208		23250	112	0.95	0.90	
	1300	260		27477	106	0.94	0.88	
	700	133	R4	16516	124	0.98	0.96	
	850	173		19429	112	0.95	0.90	
	1000	208		22718	109	0.95	0.90	
	1300	260		26400	102	0.94	0.88	
	700	133	R5	17882	134	0.98	0.96	
	850	173		21000	121	0.95	0.90	
	1000	208		24673	119	0.95	0.90	
	1300	260		28838	111	0.94	0.88	
	80B	700	180	R2	22528	125	0.98	0.96
		850	224		26394	118	0.95	0.90
1000		274	30998		113	0.95	0.90	
700		180	R3	22127	123	0.98	0.96	
850		224		25955	116	0.95	0.90	
1000		274		30491	111	0.95	0.90	
700		180	R4	21701	121	0.98	0.96	
850		224		25350	113	0.95	0.90	
1000		274		29567	108	0.95	0.90	
700		180	R5	23799	132	0.98	0.96	
850		224		27851	124	0.95	0.90	
1000		274		32391	118	0.95	0.90	

Note: Information shown above is based on nominal system data. Individual fixture performance may vary. Specifications subject to change without notice.

ATB2 LLD Multiplier	15°C	20°C	25°C	30°C	35°C	40°C
	1.02	1.01	1	0.99	0.97	0.96

To calculate the LLD for a temperature other than 25°C, multiply the LLD @ 25°C (shown in the performance package table) by the LLD multiplier for the selected temperature.



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