



# KAD LED

## LED Area Luminaire



Catalog  
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

### Specifications

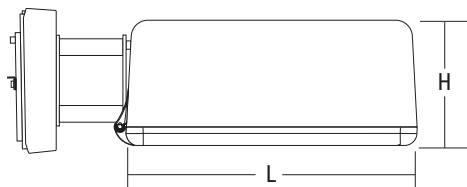
**EPA:** 1.2 ft<sup>2</sup>  
(0.11 m<sup>2</sup>)

**Length:** 17-1/2"  
(44.5 cm)

**Width:** 17-1/2"  
(44.5 cm)

**Height:** 7-1/8"  
(18.1 cm)

**Weight (max):** 36 lbs.  
(16.4 kg)



### Introduction

The Contour® Series luminaires offer traditional square dayforms with softened edges for a versatile look that complements many applications. The KAD LED combines the latest in LED technology with the familiar aesthetic of the Contour® Series for stylish, high-performance illumination that lasts. It is ideal for replacing 100- 400W metal halide in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

### Ordering Information

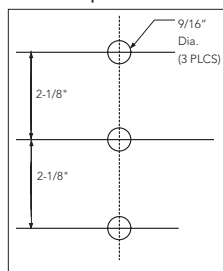
**EXAMPLE: KAD LED 40C 1000 40K R5 MVOLT PUMBAK04 DDBXD**

| KAD LED |                                                          |                                          |                                        |                                                      |                                                                                                     |                                                                                                                                                                                                                                                                                                           |
|---------|----------------------------------------------------------|------------------------------------------|----------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series  | LEDs                                                     | Drive current                            | CCT                                    | Distribution                                         | Voltage                                                                                             | Mounting                                                                                                                                                                                                                                                                                                  |
| KAD LED | 20C 20 LEDs<br>30C 30 LEDs<br>40C 40 LEDs<br>60C 60 LEDs | 530 530 mA<br>700 700 mA<br>1000 1000 mA | 30K 3000 K<br>40K 4000 K<br>50K 5000 K | R2 Type II<br>R3 Type III<br>R4 Type IV<br>R5 Type V | MVOLT<br>120 <sup>1</sup><br>208 <sup>1</sup><br>240 <sup>1</sup><br>277 <sup>1</sup><br>347<br>480 | <b>Shipped included</b><br>PUMBAK___ Universal mounting adaptor <sup>2</sup> 04 4" arm<br>SPD___ Square pole 06 6" arm<br>RPD___ Round pole 09 9" arm<br>WBD___ Wall bracket 12 12" arm<br>WWD___ Wood pole or wall<br><b>Shipped separately</b><br>DAD12P Degree arm (pole)<br>DAD12WB Degree arm (wall) |

| Options                                                                                                                                                                                                                                                                                                                                                                                                        | Finish (required)                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipped installed</b><br>PER7 NEMA twist-lock receptacle only (no controls)<br>SF Single fuse (120, 277, 347V) <sup>1</sup><br>DF Double fuse (208, 240, 480V) <sup>1</sup><br>PIR Motion sensor, 8-15' mounting height <sup>4</sup><br>PIRH Motion sensor, 15-30' mounting height <sup>4</sup><br>BL30 Bi-level switched dimming, 30% <sup>5,6</sup><br>BL50 Bi-level switched dimming, 50% <sup>5,6</sup> | <b>Shipped separately <sup>7</sup></b><br>WG Wire guard<br>DDBXD Dark bronze<br>DBLXD Black<br>DNAXD Natural aluminum<br>DWHXD White<br>DDBTXD Textured dark bronze<br>DBLBXD Textured black<br>DNATXD Textured natural aluminum<br>DWHGXD Textured white |

### Drilling

Template #5  
Top of Pole



### Accessories

Ordered and shipped separately.

|                    |                                                    |                 |                                                                           |
|--------------------|----------------------------------------------------|-----------------|---------------------------------------------------------------------------|
| DLL127F 1.5 JU     | Photocell - SSL twist-lock (120-277V) <sup>8</sup> | KMA DDBXD U     | Mast arm adapter (specify finish)                                         |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) <sup>8</sup>     | KADWG U         | Wire guard accessory                                                      |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) <sup>8</sup>     | PUMBAK DDBXD U* | Square and round pole universal mounting bracket adaptor (specify finish) |
| SCU                | Shorting cap <sup>8</sup>                          |                 |                                                                           |
| KADLEDHS U         | Houseside shield                                   |                 |                                                                           |

For more control options, visit [DTL](#) and [ROAM](#) online.

#### Tenon Mounting Slipfitter \*

| Tenon O.D. | Single Unit | 2 at 180° | 2 at 90° <sup>†</sup> | 3 at 120°            | 3 at 90° <sup>†</sup> | 4 at 90° <sup>†</sup> |
|------------|-------------|-----------|-----------------------|----------------------|-----------------------|-----------------------|
| 2-3/8"     | T20-190     | T20-280   | T20-290               | T20-320 <sup>†</sup> | T20-390               | T20-490               |
| 2-7/8"     | T25-190     | T25-280   | T25-290               | T25-320              | T25-390               | T25-490               |
| 4"         | T35-190     | T35-280   | T35-290               | T35-320              | T35-390               | T35-490               |

\* For round pole mounting (RPA) only.

<sup>†</sup> Requires 9" or 12" arm.

### NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Available as a separate combination accessory: PUMBAK (finish) U.
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: [sales@roamservices.net](mailto:sales@roamservices.net). N/A with BL30, BL50, PIR or PIRH.
- PIR specifies the [SensorSwitch SBGR-10-ODP](#) control; PIRH specifies the [SensorSwitch SBGR-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Dimming driver standard.
- Requires an additional switched circuit with same phase as main luminaire power..
- Dimming driver standard. MVOLT only.
- Also available as a separate accessory; see Accessories information at left.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.



## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/-10%. Contact factory for performance data on any configurations not shown here.

| LEDs             | Drive Current (mA) | System Watts | Dist. Type | 30K<br>(3000 K, 70 CRI) |   |   |   |     | 40K<br>(4000 K, 70 CRI) |   |   |   |     | 50K<br>(5000 K, 70 CRI) |   |   |   |     |
|------------------|--------------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|
|                  |                    |              |            | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW | Lumens                  | B | U | G | LPW |
| 20C<br>(20 LEDs) | 530 mA             | 35 W         | R2         | 3,615                   | 1 | 0 | 1 | 95  | 3,846                   | 1 | 0 | 1 | 101 | 3,860                   | 1 | 0 | 1 | 102 |
|                  |                    |              | R3         | 3,600                   | 1 | 0 | 1 | 95  | 3,830                   | 1 | 0 | 1 | 101 | 3,844                   | 1 | 0 | 1 | 101 |
|                  |                    |              | R4         | 3,605                   | 1 | 0 | 1 | 95  | 3,835                   | 1 | 0 | 1 | 101 | 3,849                   | 1 | 0 | 1 | 101 |
|                  |                    |              | R5         | 3,826                   | 2 | 0 | 1 | 101 | 4,070                   | 3 | 0 | 1 | 107 | 4,084                   | 3 | 0 | 1 | 107 |
|                  | 700 mA             | 46 W         | R2         | 4,537                   | 1 | 0 | 1 | 95  | 4,827                   | 1 | 0 | 1 | 101 | 4,844                   | 1 | 0 | 2 | 101 |
|                  |                    |              | R3         | 4,519                   | 1 | 0 | 2 | 94  | 4,807                   | 1 | 0 | 2 | 100 | 4,825                   | 1 | 0 | 2 | 101 |
|                  |                    |              | R4         | 4,524                   | 1 | 0 | 2 | 94  | 4,813                   | 1 | 0 | 2 | 100 | 4,830                   | 1 | 0 | 2 | 101 |
|                  |                    |              | R5         | 4,802                   | 3 | 0 | 1 | 100 | 5,108                   | 3 | 0 | 1 | 106 | 5,126                   | 3 | 0 | 1 | 107 |
|                  | 1000 mA            | 73 W         | R2         | 6,203                   | 1 | 0 | 2 | 86  | 6,598                   | 2 | 0 | 2 | 92  | 6,622                   | 2 | 0 | 2 | 92  |
|                  |                    |              | R3         | 6,177                   | 1 | 0 | 2 | 86  | 6,571                   | 1 | 0 | 2 | 91  | 6,595                   | 1 | 0 | 2 | 92  |
|                  |                    |              | R4         | 6,185                   | 1 | 0 | 2 | 86  | 6,579                   | 1 | 0 | 2 | 91  | 6,603                   | 1 | 0 | 2 | 92  |
|                  |                    |              | R5         | 6,564                   | 3 | 0 | 1 | 91  | 6,983                   | 3 | 0 | 1 | 97  | 7,008                   | 3 | 0 | 1 | 97  |
| 30C<br>(30 LEDs) | 530 mA             | 53 W         | R2         | 5,328                   | 1 | 0 | 2 | 99  | 5,669                   | 1 | 0 | 2 | 105 | 5,689                   | 1 | 0 | 2 | 105 |
|                  |                    |              | R3         | 5,307                   | 1 | 0 | 2 | 98  | 5,645                   | 1 | 0 | 2 | 105 | 5,666                   | 1 | 0 | 2 | 105 |
|                  |                    |              | R4         | 5,313                   | 1 | 0 | 2 | 98  | 5,652                   | 1 | 0 | 2 | 105 | 5,672                   | 1 | 0 | 2 | 105 |
|                  |                    |              | R5         | 5,639                   | 3 | 0 | 1 | 104 | 5,999                   | 3 | 0 | 1 | 111 | 6,020                   | 3 | 0 | 1 | 111 |
|                  | 700 mA             | 69 W         | R2         | 6,674                   | 2 | 0 | 2 | 95  | 7,100                   | 2 | 0 | 2 | 101 | 7,126                   | 2 | 0 | 2 | 102 |
|                  |                    |              | R3         | 6,647                   | 1 | 0 | 2 | 95  | 7,071                   | 2 | 0 | 2 | 101 | 7,097                   | 2 | 0 | 2 | 101 |
|                  |                    |              | R4         | 6,655                   | 1 | 0 | 2 | 95  | 7,080                   | 1 | 0 | 2 | 101 | 7,105                   | 1 | 0 | 2 | 102 |
|                  |                    |              | R5         | 7,063                   | 3 | 0 | 2 | 101 | 7,514                   | 3 | 0 | 2 | 107 | 7,541                   | 3 | 0 | 2 | 108 |
|                  | 1000 mA            | 108 W        | R2         | 8,881                   | 2 | 0 | 2 | 84  | 9,448                   | 2 | 0 | 2 | 89  | 9,482                   | 2 | 0 | 2 | 89  |
|                  |                    |              | R3         | 8,844                   | 2 | 0 | 2 | 83  | 9,409                   | 2 | 0 | 2 | 89  | 9,443                   | 2 | 0 | 2 | 89  |
|                  |                    |              | R4         | 8,855                   | 2 | 0 | 2 | 84  | 9,420                   | 2 | 0 | 2 | 89  | 9,454                   | 2 | 0 | 2 | 89  |
|                  |                    |              | R5         | 9,398                   | 3 | 0 | 2 | 89  | 9,998                   | 4 | 0 | 2 | 94  | 10,034                  | 4 | 0 | 2 | 95  |
| 40C<br>(40 LEDs) | 530 mA             | 71 W         | R2         | 7,034                   | 2 | 0 | 2 | 102 | 7,483                   | 2 | 0 | 2 | 108 | 7,510                   | 2 | 0 | 2 | 109 |
|                  |                    |              | R3         | 7,005                   | 2 | 0 | 2 | 102 | 7,453                   | 2 | 0 | 2 | 108 | 7,479                   | 2 | 0 | 2 | 108 |
|                  |                    |              | R4         | 7,014                   | 1 | 0 | 2 | 102 | 7,462                   | 1 | 0 | 2 | 108 | 7,488                   | 1 | 0 | 2 | 109 |
|                  |                    |              | R5         | 7,444                   | 3 | 0 | 2 | 108 | 7,919                   | 3 | 0 | 2 | 115 | 7,947                   | 3 | 0 | 2 | 115 |
|                  | 700 mA             | 94 W         | R2         | 8,737                   | 2 | 0 | 2 | 96  | 9,295                   | 2 | 0 | 2 | 102 | 9,329                   | 2 | 0 | 2 | 103 |
|                  |                    |              | R3         | 8,701                   | 2 | 0 | 2 | 96  | 9,257                   | 2 | 0 | 2 | 102 | 9,290                   | 2 | 0 | 2 | 102 |
|                  |                    |              | R4         | 8,712                   | 2 | 0 | 2 | 96  | 9,268                   | 2 | 0 | 2 | 102 | 9,301                   | 2 | 0 | 2 | 102 |
|                  |                    |              | R5         | 9,246                   | 3 | 0 | 2 | 102 | 9,836                   | 4 | 0 | 2 | 108 | 9,871                   | 4 | 0 | 2 | 108 |
|                  | 1000 mA            | 141 W        | R2         | 11,537                  | 2 | 0 | 2 | 82  | 12,273                  | 2 | 0 | 2 | 88  | 12,322                  | 2 | 0 | 2 | 88  |
|                  |                    |              | R3         | 11,489                  | 2 | 0 | 3 | 82  | 12,223                  | 2 | 0 | 3 | 87  | 12,272                  | 2 | 0 | 3 | 88  |
|                  |                    |              | R4         | 11,503                  | 2 | 0 | 3 | 82  | 12,237                  | 2 | 0 | 3 | 87  | 12,286                  | 2 | 0 | 3 | 88  |
|                  |                    |              | R5         | 12,208                  | 4 | 0 | 2 | 87  | 12,988                  | 4 | 0 | 2 | 93  | 13,039                  | 4 | 0 | 2 | 93  |
| 60C<br>(60 LEDs) | 530 mA             | 103 W        | R2         | 10,334                  | 2 | 0 | 2 | 102 | 10,993                  | 2 | 0 | 2 | 109 | 11,033                  | 2 | 0 | 2 | 109 |
|                  |                    |              | R3         | 10,291                  | 2 | 0 | 2 | 102 | 10,948                  | 2 | 0 | 2 | 108 | 10,988                  | 2 | 0 | 2 | 109 |
|                  |                    |              | R4         | 10,304                  | 2 | 0 | 2 | 102 | 10,961                  | 2 | 0 | 2 | 109 | 11,001                  | 2 | 0 | 2 | 109 |
|                  |                    |              | R5         | 10,935                  | 4 | 0 | 2 | 108 | 11,633                  | 4 | 0 | 2 | 115 | 11,675                  | 4 | 0 | 2 | 116 |
|                  | 700 mA             | 137 W        | R2         | 12,871                  | 2 | 0 | 2 | 96  | 13,692                  | 3 | 0 | 3 | 102 | 13,742                  | 3 | 0 | 3 | 103 |
|                  |                    |              | R3         | 12,818                  | 2 | 0 | 3 | 96  | 13,636                  | 2 | 0 | 3 | 102 | 13,685                  | 2 | 0 | 3 | 102 |
|                  |                    |              | R4         | 12,833                  | 2 | 0 | 3 | 96  | 13,653                  | 2 | 0 | 3 | 102 | 13,702                  | 2 | 0 | 3 | 102 |
|                  |                    |              | R5         | 13,620                  | 4 | 0 | 2 | 102 | 14,489                  | 4 | 0 | 2 | 108 | 14,541                  | 4 | 0 | 2 | 109 |
|                  | 1000 mA            | 216 W        | R2         | 16,336                  | 3 | 0 | 3 | 76  | 17,379                  | 3 | 0 | 3 | 80  | 17,440                  | 3 | 0 | 3 | 81  |
|                  |                    |              | R3         | 16,268                  | 3 | 0 | 3 | 75  | 17,307                  | 3 | 0 | 4 | 80  | 17,368                  | 3 | 0 | 4 | 80  |
|                  |                    |              | R4         | 16,288                  | 3 | 0 | 3 | 75  | 17,328                  | 3 | 0 | 4 | 80  | 17,389                  | 3 | 0 | 4 | 81  |
|                  |                    |              | R5         | 17,286                  | 4 | 0 | 2 | 80  | 18,390                  | 4 | 0 | 2 | 85  | 18,455                  | 4 | 0 | 2 | 85  |

## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient     |             | Lumen Multiplier |
|-------------|-------------|------------------|
| 0°C         | 32°F        | 1.02             |
| 10°C        | 50°F        | 1.01             |
| 20°C        | 68°F        | 1.00             |
| <b>25°C</b> | <b>77°F</b> | <b>1.00</b>      |
| 30°C        | 86°F        | 1.00             |
| 40°C        | 104°F       | 0.99             |

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **KAD LED** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours          | 0                | 25,000 | 50,000 | 100,000 |
|--------------------------|------------------|--------|--------|---------|
| Lumen Maintenance Factor | KAD LED 60C 1000 |        |        |         |
|                          | 1.0              | 0.91   | 0.86   | 0.76    |
|                          | KAD LED 40C 1000 |        |        |         |
|                          | 1.0              | 0.93   | 0.88   | 0.79    |
|                          | KAD LED 60C 700  |        |        |         |
|                          | 1.0              | 0.98   | 0.97   | 0.94    |

## Electrical Load

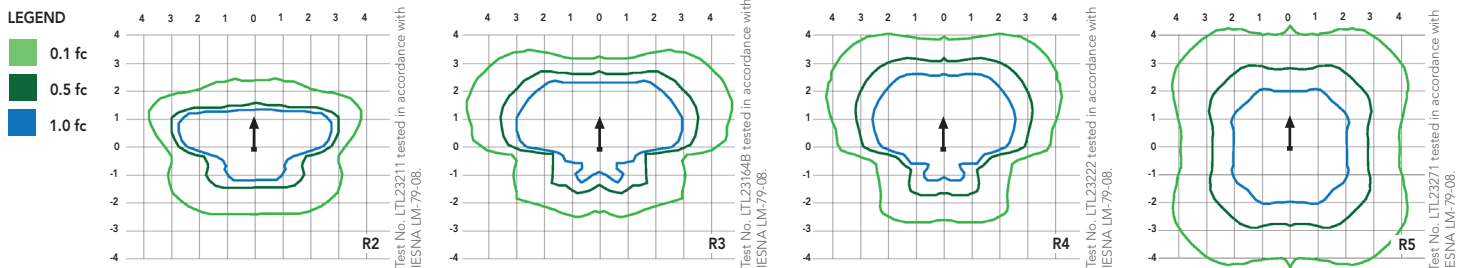
| Number of LEDs | Drive Current (mA) | System Watts | Current (A) |      |      |      |      |      |
|----------------|--------------------|--------------|-------------|------|------|------|------|------|
|                |                    |              | 120         | 208  | 240  | 277  | 347  | 480  |
| 20             | 530                | 35           | 0.30        | 0.18 | 0.16 | 0.15 | -    | -    |
|                | 700                | 46           | 0.39        | 0.23 | 0.20 | 0.18 | 0.15 | 0.12 |
|                | 1000               | 73           | 0.61        | 0.35 | 0.31 | 0.27 | 0.22 | 0.17 |
| 30             | 530                | 53           | 0.44        | 0.26 | 0.23 | 0.20 | -    | -    |
|                | 700                | 69           | 0.58        | 0.34 | 0.29 | 0.26 | 0.21 | 0.16 |
|                | 1000               | 108          | 0.90        | 0.52 | 0.46 | 0.40 | 0.32 | 0.24 |
| 40             | 530                | 71           | 0.60        | 0.35 | 0.32 | 0.29 | 0.21 | 0.16 |
|                | 700                | 94           | 0.79        | 0.46 | 0.41 | 0.36 | 0.27 | 0.20 |
|                | 1000               | 141          | 1.18        | 0.68 | 0.59 | 0.52 | 0.42 | 0.30 |
| 60             | 530                | 103          | 0.87        | 0.50 | 0.44 | 0.39 | 0.29 | 0.22 |
|                | 700                | 137          | 1.15        | 0.66 | 0.58 | 0.51 | 0.40 | 0.29 |
|                | 1000               | 216          | 1.81        | 1.04 | 0.92 | 0.81 | 0.63 | 0.47 |

**NOTE:** All ratings in this table are for a nominal system operated at 25°C ambient temperature. Current and power specifications in this table do not include branch circuit derating specified in the National Electrical Code. Please observe all applicable electrical codes and ratings.

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KAD LED homepage](#).

Isofootcandle plots for the KAD LED 60C 1000 40K. Distances are in units of mounting height (20').



## FEATURES & SPECIFICATIONS

### INTENDED USE

The energy savings and long life of the KAD LED area luminaire make it a reliable choice for illuminating streets, walkways, parking lots, and surrounding areas.

### CONSTRUCTION

Single-piece die-cast, aluminum housing with contoured edges has a 0.12" nominal wall thickness. Die-cast door frame has an impact-resistant, tempered glass lens that is fully gasketed with one piece tubular silicone.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

### OPTICS

Precision-molded refractive acrylic lenses are available in four distributions. Light engines are available in standard 4000K, 3000K or 5000K (70 CRI) configurations.

### ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included universal mounting block and extruded aluminum arm facilitate quick and easy installation using nearly any existing drilling pattern. Stainless steel bolts fasten the luminaire to the mounting block securing it to poles or walls. The KAD LED can withstand up to a 1.5 G vibration load rating per ANSI C136.31. The KAD LED also utilizes the standard K-Series (Template #5) for pole drilling.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient. 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](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

Five year limited warranty. Full warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Specifications subject to change without notice.

