

## FEATURES & SPECIFICATIONS

**INTENDED USE** — The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design makes it an excellent choice for renovation projects.

**CONSTRUCTION** — BLT enclosure components are die-formed for dimensional consistency and painted after fabrication with a polyester powder paint for improved performance and protection.

The reflector is finished with a high reflective matte white powder paint for improved aesthetics and increased light diffusion.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards are accessible from below; driver is accessible from the plenum.

**OPTICS** — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available – curved and square designs with linear prisms or a smooth frosted finish.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step MacAdam ellipse (3SDCM).

Available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the BLT luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

**SENSOR** — **Integrated sensor (individual control):** Sensor Switch MSD7ADCX Passive Infrared (PIR) or MSDPDT7ADCX PIR/Microphonics Dual Tech (PDT) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 2 for more details on the integrated sensor.

**Integrated Sensor (nLight Wired Networking):** This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 2 for the nLight sensor options.

**INSTALLATION** — The BLT's low profile design provides increased installation flexibility especially in restrictive plenum applications. The BLT fits into standard 15/16" and narrow 9/16" T-grid ceiling systems. Suitable for damp location.

**LISTINGS** — CSA Certified to meet U.S. and Canadian standards. IC rated.

**WARRANTY** — 5-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)

NOTE: 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.

|                |
|----------------|
| Catalog Number |
| Notes          |
| Type           |

BLT Series LED

# 2BLT



500x1200  
600x1200  
LED



eldoLED



### 500x1200 Specifications

Length: 1193.80 (47)

Width: 493.78 (19.44)

Depth: 69.85 (2.75)



### 600x1200 Specifications

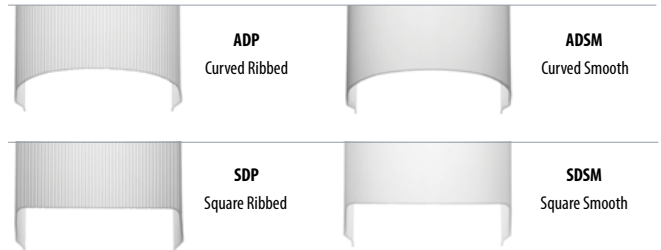
Length: 1193.80 (47)

Width: 593.60 (23.37)

Depth: 63.50 (2.50)

All dimensions are millimeters (inches) unless otherwise specified.

## Multiple Diffuser Options



## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

# 2BLT Volumetric Recessed Lighting 500/600x1200



A+ Capable options indicated by this color background.

## ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** 2BLT4 MG 40L ADP EZ1 LP835

| 2BLT4 |                   | Trim Type |                      | Lumens <sup>1</sup>                      |  | Diffuser   |                       | Voltage |                  | Driver |  | Color temperature |               |
|-------|-------------------|-----------|----------------------|--|--|--|-----------------------|---------|------------------|--------|--|-------------------|---------------|
| 2BLT4 | BLT metric series | MG        | Metric grid 600x1200 | <b>Standard efficiency (&gt;100 LPW)</b> | <b>High efficiency<sup>2,3</sup> (&gt;130 LPW)</b> | ADP  | Curved, linear prisms | (blank) | MVOLT            | EZ1    | eldoLED dims to 1% (0-10 volt dimming) | LP830             | 82CRI, 3000 K |
|       |                   |           |                      |  |  | ADSM   | Curved, smooth        | 120     | 120              |        |  | LP835             | 82CRI, 3500 K |
|       |                   | MGS       | Metric grid 500x1200 | 30L 3000                                 | 40LHE 4000   | SDP  | Square, linear prisms | 277     | 277              | SLD    | Step-level dimming <sup>5</sup>        | LP840             | 82CRI, 4000 K |
|       |                   |           |                      |  |  | SDSM   | Square, smooth        | 347     | 347 <sup>4</sup> |        |  | LP850             | 82CRI, 5000 K |
|       |                   |           |                      |  |  | <b>Includes trim rings to match sensed version</b> |                       |         |                  |        |  | LP930             | 90CRI, 3000K  |
|       |                   |           |                      |  |  | ADPT   | Curved, linear prisms |         |                  |        |  | LP935             | 90CRI, 3500K  |
|       |                   |           |                      |  |  | ADSMT  | Curved, smooth        |         |                  |        |  | LP940             | 90CRI, 4000K  |
|       |                   |           |                      |  |  | SDPT   | Square, linear prisms |         |                  |        |  | LP950             | 90CRI, 5000K  |
| SDSMT | Square, smooth    |           |                      |  |  |  |                       |         |                  |        |  |                   |               |

| Controls |   | Occupancy control <sup>7</sup> |   | Options                   |   |
|----------|---|--------------------------------|---|---------------------------|---|
| (blank)  | No nLight <sup>®</sup>  | (blank)                        | No sensor control   | <b>Individual Control</b> | EL7L 700 lumen battery pack <sup>10</sup>   |
| N80      | nLight <sup>®</sup> with 80% lumen management   | <b>nLight Wired Networking</b> |   | MSD7ADCX                  | EL14L 1400 lumen battery pack <sup>10</sup>   |
| N80EMG   | nLight <sup>®</sup> with 80% lumen management For use with generator supply EM power <sup>6</sup> | NES7                           | nLight™ nES 7 PIR integral occupancy sensor <sup>8</sup>  |                           | BGTD Bodine Generator Transfer Device <sup>15</sup>   |
| N100     | nLight <sup>®</sup> without lumen management  | NESPDT7                        | nLight™ nES PDT 7 dual technology integral occupancy control <sup>8</sup>                                 | MSDPDT7ADCX               | PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit   |
| N100EMG  | nLight <sup>®</sup> without lumen management For use with generator supply EM power <sup>6</sup>  | NES7ADCX                       | nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell <sup>8</sup>            |                           | PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit   |
|          |   | NESPDT7ADCX                    | nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell <sup>8</sup> |                           | PWS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge, purple and gray <sup>11</sup> |
|          |   |                                |   |                           | PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires <sup>12</sup>   |
|          |   |                                |   |                           | GLR Fast-blowing fuse <sup>13</sup>   |
|          |   |                                |   |                           | GMF Slow-blowing fuse <sup>13</sup>   |
|          |   |                                |   |                           | NPLT Narrow pallet  |
|          |   |                                |   |                           | RRL_ RELOC <sup>®</sup> -ready luminaire <sup>14</sup>  |
|          |   |                                |   |                           | LATC Earthquake clip  |
|          |   |                                |   |                           | DWAM Anti-Microbial paint   |

Accessories next page

### Notes

- 1 Approximate lumen output. HE versions not available with MGS option.
- 2 All versions may not achieve 130+ LPW. Refer to photometry on [www.acuitybrands.com](http://www.acuitybrands.com).
- 3 90 CRI and versions with integral sensor trim rings may not achieve 130 LPW.
- 4 Not available with SLD EL7L, or EL14L options.
- 5 Not available with N80, N80EMG, N100, N100EMG, or occupancy control.
- 6 nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
- 7 Must specify diffuser with trim rings. See sensor options on page 3.
- 8 Requires N80, N80EMG, N100, or N100EMG.
- 9 Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
- 10 When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
- 11 Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
- 12 Not available with nLight wired/wireless network or individual controls.
- 13 Must specify voltage, 120 or 277, with GLR and GFM fusing.
- 14 For ordering logic consult [RRL\\_2013](http://RRL_2013).

# 2BLT Volumetric Recessed Lighting 500/600x1200

## nLight® Control Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlight](http://www.acuitybrands.com/products/controls/nlight).

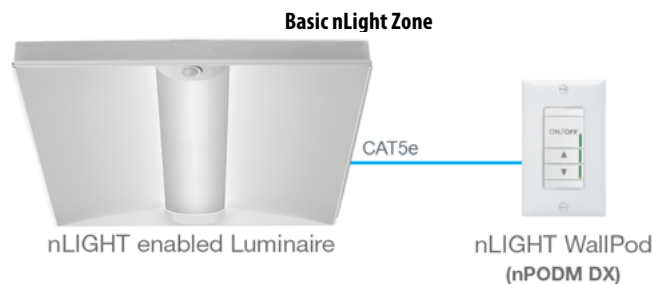
| WallPod stations     | Model number     | Occupancy sensors                            | Model number               |
|----------------------|------------------|--|----------------------------|
| On/Off               | nPODM [color]    | Small motion 360°, ceiling (PIR / dual tech) | nCM 9 RJB / nCM PDT 9 RJB  |
| On/Off & raise/lower | nPODM DX [color] | Large motion 360°, ceiling (PIR / dual tech) | nCM10 RJB / nCM PDT 10 RJB |
| Graphic touchscreen  | nPOD GFX [color] | Wall switch with raise/lower                 | nWSX PDT LV DX [color]     |
| Photocell controls   | Model number     | Cat-5 cable (plenum rated)                   | Model number               |
| Full range dimming   | nCM ADCX RJB     | 10' cable                                    | CAT5 10FT J1               |
|                      |                  | 30' cable                                    | CAT5 30FT J1               |

## Replacement Parts: Order as separate catalog number.

|                                   |                        |
|-----------------------------------|------------------------|
| DBLT48 ADP LENS ASSEMBLY          | 4 ft. replacement lens |
| DBLT48 SDP LENS ASSEMBLY          | 4 ft. replacement lens |
| DBLT48 ADSM LENS ASSEMBLY         | 4 ft. replacement lens |
| DBLT48 SDSM LENS ASSEMBLY         | 4 ft. replacement lens |
| DBLT48 ADPT LENS ASSEMBLY         | 4 ft. replacement lens |
| DBLT48 SDPT LENS ASSEMBLY         | 4 ft. replacement lens |
| DBLT48 ADSMT LENS ASSEMBLY        | 4 ft. replacement lens |
| DBLT48 SDSMT LENS ASSEMBLY        | 4 ft. replacement lens |
| DBLT48 ADPT SENSOR LENS ASSEMBLY  | 4 ft. replacement lens |
| DBLT48 SDPT SENSOR LENS ASSEMBLY  | 4 ft. replacement lens |
| DBLT48 ADSMT SENSOR LENS ASSEMBLY | 4 ft. replacement lens |
| DBLT48 SDSMT SENSOR LENS ASSEMBLY | 4 ft. replacement lens |

# 2BLT Volumetric Recessed Lighting 500/600x1200

| Sensor Options |                             |                   |     |                         |
|----------------|-----------------------------|-------------------|-----|-------------------------|
| Option         | Automatic Dimming Photocell | Occupancy Sensing |     | nLight Wired Networking |
|                |                             | PIR               | PDT |                         |
| MSD7ADCX       | X                           | X                 |     |                         |
| MSDPDT7ADCX    | X                           |                   | X   |                         |
| NES7           |                             | X                 |     | X                       |
| NES7ADCX       | X                           | X                 |     | X                       |
| NESPDT7        |                             |                   | X   | X                       |
| NESPDT7ADCX    | X                           |                   | X   | X                       |



## Integrated Sensor with Individual Control

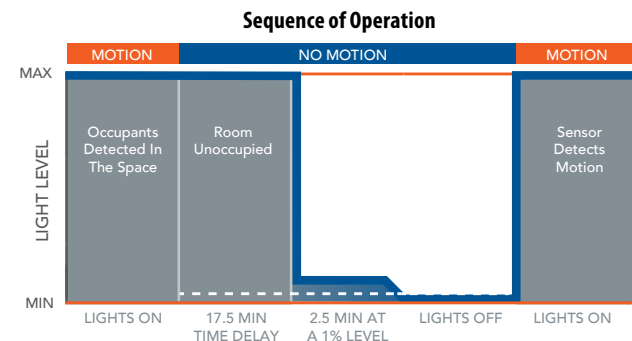
The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

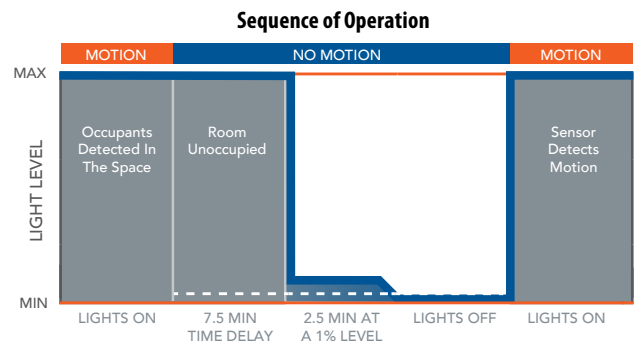
## nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.



\*The presetting on the automatic dimming photocell is 5fc.

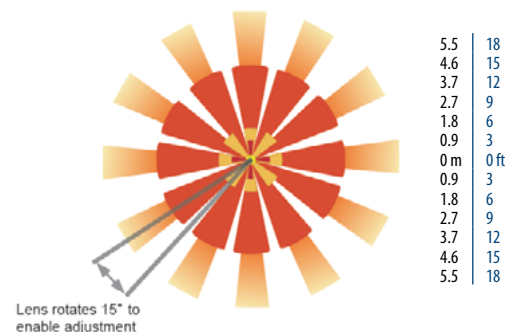


\*The presetting on the automatic dimming photocell is 5fc.

## Sensor Coverage Pattern Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

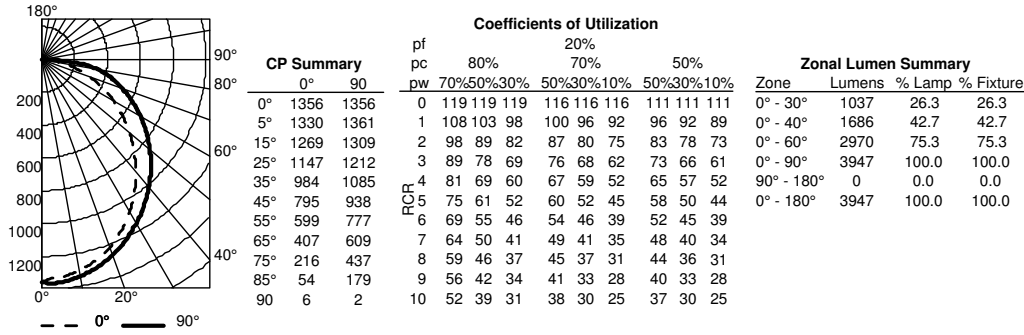
## 9 FT Mounting



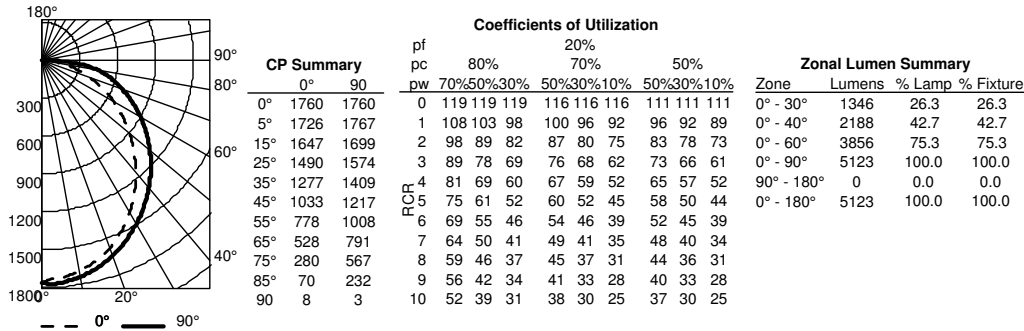
# 2BLT Volumetric Recessed Lighting 500/600x1200

## PHOTOMETRICS

**2BLT4 MG 40L ADP LP835**, 3945 delivered lumens, test no. LTL28918P151, tested in accordance to IESNA LM-79

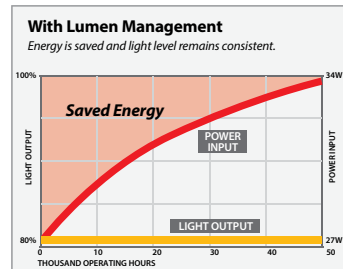
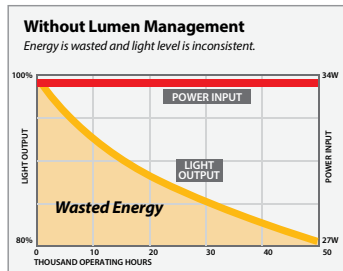


**2BLT4 MG 48L ADP LP835**, 5121 delivered lumens, test no. LTL28918P155, tested in accordance to IESNA LM-79



## Constant Lumen Management

Enabled by the embedded nLight control, the BLT actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.



| Performance Data |        |             |     |
|------------------|--------|-------------|-----|
| Lumen Package    | Lumens | Input Watts | LPW |
| MG 30L ADP LP830 | 3286   | 30          | 110 |
| MG 30L ADP LP835 | 3371   | 30          | 113 |
| MG 30L ADP LP840 | 3445   | 30          | 115 |
| MG 30L ADP LP850 | 3614   | 30          | 121 |
| MG 40L ADP LP830 | 3846   | 34          | 113 |
| MG 40L ADP LP835 | 3945   | 34          | 116 |
| MG 40L ADP LP840 | 4032   | 34          | 118 |
| MG 40L ADP LP850 | 4230   | 34          | 124 |
| MG 48L ADP LP830 | 4993   | 45          | 111 |
| MG 48L ADP LP835 | 5121   | 45          | 114 |
| MG 48L ADP LP840 | 5234   | 45          | 116 |
| MG 48L ADP LP850 | 5492   | 45          | 122 |
| MG 60L ADP LP830 | 6014   | 53          | 114 |
| MG 60L ADP LP835 | 6169   | 53          | 117 |
| MG 60L ADP LP840 | 6305   | 53          | 119 |
| MG 60L ADP LP850 | 6615   | 53          | 125 |
| MG 72L ADP LP830 | 7388   | 67          | 110 |
| MG 72L ADP LP835 | 7579   | 67          | 113 |
| MG 72L ADP LP840 | 7746   | 67          | 115 |
| MG 72L ADP LP850 | 8127   | 67          | 121 |

| Performance Data  |        |             |     |
|-------------------|--------|-------------|-----|
| Lumen Package     | Lumens | Input Watts | LPW |
| MG5 30L ADP LP830 | 3178   | 30          | 106 |
| MG5 30L ADP LP835 | 3242   | 30          | 108 |
| MG5 30L ADP LP840 | 3331   | 30          | 111 |
| MG5 30L ADP LP850 | 3359   | 30          | 112 |
| MG5 40L ADP LP830 | 3720   | 34          | 109 |
| MG5 40L ADP LP835 | 3795   | 34          | 112 |
| MG5 40L ADP LP840 | 3898   | 34          | 115 |
| MG5 40L ADP LP850 | 3952   | 34          | 116 |
| MG5 48L ADP LP830 | 4828   | 45          | 107 |
| MG5 48L ADP LP835 | 4927   | 45          | 109 |
| MG5 48L ADP LP840 | 5060   | 45          | 112 |
| MG5 48L ADP LP850 | 5104   | 45          | 113 |
| MG5 60L ADP LP830 | 5816   | 53          | 110 |
| MG5 60L ADP LP835 | 5935   | 53          | 112 |
| MG5 60L ADP LP840 | 6096   | 53          | 115 |
| MG5 60L ADP LP850 | 6148   | 53          | 116 |
| MG5 72L ADP LP830 | 7145   | 67          | 107 |
| MG5 72L ADP LP835 | 7291   | 67          | 109 |
| MG5 72L ADP LP840 | 7489   | 67          | 112 |
| MG5 72L ADP LP850 | 7553   | 67          | 113 |

| HE Performance Data |        |             |     |
|---------------------|--------|-------------|-----|
| Lumen Package       | Lumens | Input Watts | LPW |
| MG 48LHE ADP LP830  | 4655   | 36          | 127 |
| MG 48LHE ADP LP835  | 4775   | 36          | 130 |
| MG 48LHE ADP LP840  | 4880   | 36          | 133 |
| MG 48LHE ADP LP850  | 5121   | 36          | 139 |
| MG 60LHE ADP LP830  | 5473   | 42          | 129 |
| MG 60LHE ADP LP835  | 5614   | 42          | 132 |
| MG 60LHE ADP LP840  | 5738   | 42          | 135 |
| MG 60LHE ADP LP850  | 6020   | 42          | 142 |
| MG 72LHE ADP LP830  | 6805   | 52          | 130 |
| MG 72LHE ADP LP835  | 6981   | 52          | 133 |
| MG 72LHE ADP LP840  | 7135   | 52          | 136 |
| MG 72LHE ADP LP850  | 7486   | 52          | 143 |
| MG 85LHE ADP LP830  | 8189   | 64          | 127 |
| MG 85LHE ADP LP835  | 8400   | 64          | 131 |
| MG 85LHE ADP LP840  | 8585   | 64          | 134 |
| MG 85LHE ADP LP850  | 9008   | 64          | 140 |

| MOUNTING DATA                   |                       |
|---------------------------------|-----------------------|
| Ceiling Type                    | Appropriate Trim Type |
| Exposed grid tee (1' and 9/16") | G                     |
| Concealed grid tee              | G                     |

