

# ledunited



## REALITY DIMMABLE AR70 LED 8W LAMP 2013 PART L

residential-commercial

The AR70 LED 8W is a 8W LED lamp designed to connect own dimmable driver. The AR70 LED 8W is fully dimmable with all **leading edge** dimmers (we recommend against trailing edge) and also complies with the 2013 Part L Regulations.



### Key Features

- Complies with 2013 Part L regulations
  - L1A New dwellings
  - L1B Existing Dwellings
  - L2A New Buildings other than Dwellings
  - L2B Existing Buildings other than dwellings
- Fully dimmable with leading edge dimmers
- Equivalent to AR70 75W Halogen
- Lifetime of **25,000hrs**
- 8W Dimmable driver (Model : GY8WX1)

### Specification

|                |                        |
|----------------|------------------------|
| Length         | 47.5mm                 |
| Diameter       | 70mm                   |
| Wattage        | 8W                     |
| Voltage        | 240V                   |
| Colour Temp    | 2700k / 3000k / 4000k  |
| CRI            | 80                     |
| Lumen          | 750 lm / 750lm / 750lm |
| Lumen per Watt | 93lm/W 93lm/W 93lm/W   |
| Beam Angles    | 12° / 24° / 36°        |
| Power Factor   | 0.92                   |

### Test Report for AR70 LED 8W LAMP Dimmable

| Manufacturer  | Product Name                          | Product Code    | Wattage  | Min Load Required      | LED Bulb Quantity |
|---------------|---------------------------------------|-----------------|----------|------------------------|-------------------|
| ATON          | 2 Way 400W Push Dimmer Module         | IDIMP400        | 4-400W   | NO                     | 1---20            |
| ATON          | 2 Way 1000W Push Dimmer Module        | IDIMP1000       | 10-1000W | NO                     | 1---20            |
| DANLERS       | 2 Way 250W Push Dimmer Module         | DPD250W         | 40-250W  | NO                     | 2---10            |
| DANLERS       | 2 Way 400W Push Dimmer Module         | DPD400W         | 60-400W  | NO                     | 2---10            |
| FOCUS SB      | 2 Way 400W Push Dimmer Module         | SB-DSP400X      | 60-400W  | NO                     | 1---20            |
| LUTRON        | Rania 1 Gang 450W Master Dimmer       | RNSU-452B       | 50-450W  | NO                     | 2---20            |
| LUTRON        | Lyneo 1 Gang 500W Dimmer              | LLSI-502B       | 40-500W  | NO                     | 1---20            |
| LUTRON        | Grafik Eye QS 4 Circuit 500W Dimmer   | QSGRK-4PCE      | 40-500W  | NO                     | 1---20            |
| LUTRON        | Grafik Eye 4 Circuit 800W Dimmer      | GRX3104TCE      | 40-800W  | NO                     | 1---20            |
| MK            | 2 Way 450W Push Dimmer                | MK1535 WHITE    | 65-450W  | NO                     | 1---20            |
| RAKO          | Trailing Edge 500W Dimming Pack       | RDT500-C        | 1-500W   | NO                     | 1---20            |
| SUPERSWITCH   | 2 Way 250W Push Dimmer                | WHDSW1 250W     | 40-250W  | NO                     | 1---16            |
| WISE CONTROLS | Fusion 1 Gang 450W Dimmer             | WISE FUSIONREC1 | 25-450W  | NO - Must use LED Mode | 2---20            |
| WISE CONTROLS | Scene/Dimming Receiver 1 Circuit 500W | WISESCENE DIM   | 25-500W  | NO                     | 1---20            |
| WISE CONTROLS | Scene/Dimming Receiver 1 Circuit 250W | WISESCENE OCTO  | 25-250W  | NO - Must use LED Mode | 2---16            |
| WISE CONTROLS | Dimming Receiver 4 Channel 700W       | WISEDIMREC BOX  | 60-700W  | NO                     | 1---20            |
| ZANO          | 500W(T)400W(VA)66W(CFL)50W(LED)       | ZGRID500        | 40-500W  | NO                     | 1---20            |
| MK            | 230V 50Hz 40W/VA-200W/180VA           | K4501           | 40-220W  | NO                     | 1---20            |

The above list of dimmers have been tested with the AR70 LED 8W . Please speak to your supplier if you would like your dimmer added to our testing list.

• FOR USE WITH LEADING EDGE DIMMERS ONLY.

# Available Lamps

| Product Code        | Angle | Temp             | Lumens | lm/W | Life     |
|---------------------|-------|------------------|--------|------|----------|
| AR70 LED 8W 12D W/W | 12°   | W/W 2700k /3000k | 750    | 93   | 25000hrs |
| AR70 LED 8W 12D C/W | 12°   | C/W 4000k        | 750    | 93   | 25000hrs |
| AR70 LED 8W 24D W/W | 24°   | W/W 2700k /3000k | 750    | 93   | 25000hrs |
| AR70 LED 8W 24D C/W | 24°   | C/W 4000k        | 750    | 93   | 25000hrs |
| AR70 LED 8W 36D W/W | 36°   | W/W 2700k /3000k | 750    | 93   | 25000hrs |
| AR70 LED 8W 36D C/W | 36°   | C/W 4000k        | 750    | 93   | 25000hrs |

## Light Cone Data

AR70 LED 8W 2700k/3000k/4000k 12D

Lux at a Distance

|     |              |       |
|-----|--------------|-------|
| 1m  | 13062.31 lux | 16cm  |
| 2m  | 3265.58 lux  | 32cm  |
| 3m  | 1451.37 lux  | 49cm  |
| 4m  | 816.39 lux   | 65cm  |
| 5m  | 522.49 lux   | 81cm  |
| 6m  | 362.84 lux   | 97cm  |
| 7m  | 266.58 lux   | 113cm |
| 8m  | 204.10 lux   | 129cm |
| 9m  | 161.26 lux   | 146cm |
| 10m | 130.62 lux   | 162cm |

Beam Angle : 12°

AR70 LED 8W 2700k/3000k/4000k 24D

Lux at a Distance

|     |             |       |
|-----|-------------|-------|
| 1m  | 5893.10 lux | 26cm  |
| 2m  | 1473.28 lux | 53cm  |
| 3m  | 654.79 lux  | 79cm  |
| 4m  | 368.32 lux  | 106cm |
| 5m  | 235.72 lux  | 132cm |
| 6m  | 163.70 lux  | 159cm |
| 7m  | 120.27 lux  | 185cm |
| 8m  | 92.08 lux   | 211cm |
| 9m  | 72.75 lux   | 238cm |
| 10m | 58.93 lux   | 264cm |

Beam Angle : 24°

AR70 LED 8W 2700k/3000k/4000k 36D

Lux at a Distance

|     |             |       |
|-----|-------------|-------|
| 1m  | 1217.63 lux | 48cm  |
| 2m  | 304.41 lux  | 97cm  |
| 3m  | 135.29 lux  | 145cm |
| 4m  | 76.10 lux   | 193cm |
| 5m  | 48.71 lux   | 242cm |
| 6m  | 33.82 lux   | 290cm |
| 7m  | 24.85 lux   | 338cm |
| 8m  | 19.03 lux   | 387cm |
| 9m  | 15.03 lux   | 435cm |
| 10m | 12.18 lux   | 484cm |

Beam Angle : 36°