



# Ava-Residential

## AM504 / AM506 / AM507



### DESCRIPTION

Ava-Residential series, it well integrated the excellent aesthetic appearance and extraordinary functions. Versatile spot lighting or accent lighting could be easily achieved by different mounting rings options. Modular design with the mounting rings of Spot, Standard, Deep Frame, Narrow Trim plus adjustable or fixed options in various wattage, Ava-Residential series is a great choice to get a unified impression in one environment.

### FEATURES

- Ava Mr16 module fits various custom mounting rings or any MR16 fittings for wide range of applications.
- Aesthetic in design, Small in size but high in wattage thanks to it's efficient convection ventilation design heatsink.
- Uniform light distribution, light efficiency up to 90lm/W, 4 beam angles selectable(15, 24, 36, 50D)
- Dim-to Warm 1800K-3000K and single color 2700K to 5000K range with SDCM<3 high color consistency.
- Ava Mr16 Module, mounting rings, optics and accessories, all in modular design to help customer to reduce stock.
- Variable Mounting rings with different cut-outs & low glare level & tiltable for choice.

### ELECTRICAL

|               |                                            |
|---------------|--------------------------------------------|
| Power:        | 5W/8W(AM504), 10W/15W(AM506), 5W/8W(AM507) |
| Voltage:      | 220-240V / 100-277V AC                     |
| Frequency:    | 50/60Hz                                    |
| Power factor: | >0.90                                      |
| Dimming:      | On-off / 0/1-10V / TRIAC / DALI            |

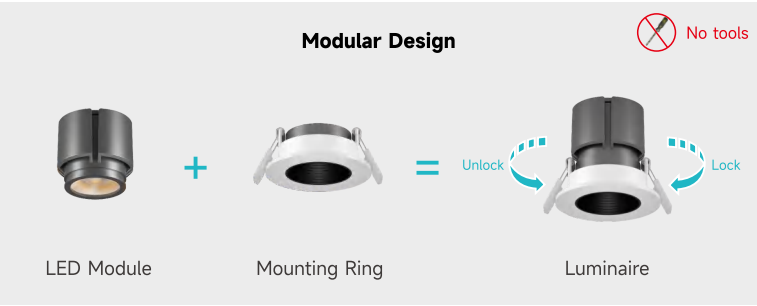
### OPTICAL

|                |                                                                      |
|----------------|----------------------------------------------------------------------|
| LED type:      | COB                                                                  |
| Lumen output:  | 664lm (AM504), 1182lm (AM506) , 693lm (AM507)                        |
| Beam optic:    | 15° / 24° / 36° / 50°                                                |
| Color quality: | CRI 80+/90+, SDCM < 3                                                |
| Light color:   | Static White: 2700K, 3000K, 3500K, 4000K<br>Dim To Warm: 1800K-3000K |

### LUMINAIRE

|                        |                          |
|------------------------|--------------------------|
| Frame color:           | Black                    |
| Trim color:            | White / Black / Silver   |
| Operating temperature: | -20°C~40°C               |
| Lifespan:              | >50000h@80%(L80)         |
| Warranty:              | 5 years limited warranty |

### DETAILS





ORDERING INFORMATION

| AM504                                                            |                                                         |                                               |                                             |                                          |                                                                  |                                            |                                                  |
|------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------|---------------------------------------------|------------------------------------------|------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------|
| MODULE                                                           | TRIM                                                    | LUMEN                                         | TRIM COLOR                                  | CRI                                      | CCT                                                              | OPTIC                                      | DIMMING                                          |
| <input type="checkbox"/> <b>AM504</b><br>AVA<br>50mm<br>Aperture | <input type="checkbox"/> <b>AF21RA01</b><br>Spot        | <input type="checkbox"/> <b>L03</b><br>300lm  | <input type="checkbox"/> <b>W</b><br>White  | <input type="checkbox"/> <b>8</b><br>80+ | <input type="checkbox"/> <b>27</b><br>2700K                      | <input type="checkbox"/> <b>015</b><br>15° | <input type="checkbox"/> <b>V</b><br>0/1-10V     |
|                                                                  | <input type="checkbox"/> <b>AF21RA02</b><br>Spot        | <input type="checkbox"/> <b>L06</b><br>600lm  | <input type="checkbox"/> <b>B</b><br>Black  | <input type="checkbox"/> <b>9</b><br>90+ | <input type="checkbox"/> <b>30</b><br>3000K                      | <input type="checkbox"/> <b>024</b><br>24° | <input type="checkbox"/> <b>T</b><br>Triac       |
| <input type="checkbox"/> <b>AM506</b><br>AVA<br>50mm<br>Aperture | <input type="checkbox"/> <b>AF21RF01</b><br>Spot        | <input type="checkbox"/> <b>L09</b><br>900lm  | <input type="checkbox"/> <b>S</b><br>Silver |                                          | <input type="checkbox"/> <b>35</b><br>3500K                      | <input type="checkbox"/> <b>036</b><br>36° | <input type="checkbox"/> <b>X</b><br>0-10V/Triac |
|                                                                  | <input type="checkbox"/> <b>AF22RF01</b><br>Standard    |                                               |                                             |                                          | <input type="checkbox"/> <b>40</b><br>4000K                      | <input type="checkbox"/> <b>050</b><br>50° | <input type="checkbox"/> <b>D</b><br>DALI        |
| <input type="checkbox"/> <b>AM507</b><br>AVA<br>50mm<br>Aperture | <input type="checkbox"/> <b>AF22RA01</b><br>Standard    | <input type="checkbox"/> <b>L12</b><br>1200lm |                                             |                                          | <input type="checkbox"/> <b>DW</b><br>Dim To Warm<br>1800K-3000K |                                            | <input type="checkbox"/> <b>N</b><br>Non-dimming |
|                                                                  | <input type="checkbox"/> <b>AF22RA02</b><br>Standard    |                                               |                                             |                                          |                                                                  |                                            |                                                  |
|                                                                  | <input type="checkbox"/> <b>AF23RA01</b><br>Deep Frame  |                                               |                                             |                                          |                                                                  |                                            |                                                  |
|                                                                  | <input type="checkbox"/> <b>AF23RA02</b><br>Deep Frame  |                                               |                                             |                                          |                                                                  |                                            |                                                  |
|                                                                  | <input type="checkbox"/> <b>AF23RA03</b><br>Deep Frame  |                                               |                                             |                                          |                                                                  |                                            |                                                  |
|                                                                  | <input type="checkbox"/> <b>AF24RA01</b><br>Narrow Trim |                                               |                                             |                                          |                                                                  |                                            |                                                  |
|                                                                  | <input type="checkbox"/> <b>AF24SA01</b><br>Narrow Trim |                                               |                                             |                                          |                                                                  |                                            |                                                  |
|                                                                  | <input type="checkbox"/> <b>AF24SA02</b><br>Narrow Trim |                                               |                                             |                                          |                                                                  |                                            |                                                  |

ACCESSORIES (TO BE ORDERED SEP ARATELY)  
FOR INSTALLATION CONSULT THE INSTRUCTION SHEET

OPTICAL ACCESSORY

☐ **Honeycomb**  
AM504-H / AM506-H / AM507-H

☐ **Soft Lens**  
AM504-L / AM506-L / AM507-L



PHOTOMETRIC DATA (NON-DIMMING)

| POWER      | CCT   | CRI | BEAM OPTIC | LUMENS (lm) | EFFICACY (lm/W) | MAX CANDELA (cd) |
|------------|-------|-----|------------|-------------|-----------------|------------------|
| 5W (AM504) | 3000K | 90  | 15°        | 363         | 76              | 2868             |
|            |       |     | 24°        | 408         | 86              | 2474             |
|            |       |     | 36°        | 345         | 73              | 758              |
|            |       |     | 50°        | 294         | 62              | 363              |

Above test data is based on [Spot trim\(AF21RF01\)](#) with 3000K 90CRI LED.

| POWER       | CCT   | CRI | BEAM OPTIC | LUMENS (lm) | EFFICACY (lm/W) | MAX CANDELA (cd) |
|-------------|-------|-----|------------|-------------|-----------------|------------------|
| 8W (AM504)  | 3000K | 90  | 15°        | 608         | 83              | 6302             |
|             |       |     | 24°        | 664         | 91              | 4649             |
|             |       |     | 36°        | 638         | 88              | 1789             |
|             |       |     | 50°        | 639         | 88              | 1143             |
| 10W (AM506) | 3000K | 90  | 15°        | 812         | 78              | 8793             |
|             |       |     | 24°        | 898         | 87              | 6450             |
|             |       |     | 36°        | 867         | 84              | 2444             |
|             |       |     | 50°        | 860         | 83              | 1581             |
| 15W (AM506) | 3000K | 90  | 15°        | 1085        | 74              | 11524            |
|             |       |     | 24°        | 1182        | 81              | 8457             |
|             |       |     | 36°        | 1139        | 78              | 3198             |
|             |       |     | 50°        | 1132        | 78              | 2094             |

Above test data is based on [Standard trim\(AF22RF01\)](#) with 3000K 90CRI LED.

| POWER      | CCT   | CRI | BEAM OPTIC | LUMENS (lm) | EFFICACY (lm/W) | MAX CANDELA (cd) |
|------------|-------|-----|------------|-------------|-----------------|------------------|
| 8W (AM507) | 3000K | 90  | 15°        | 693         | 83              | 4062             |
|            |       |     | 24°        | 655         | 78              | 2932             |
|            |       |     | 36°        | 579         | 70              | 1394             |
|            |       |     | 50°        | 520         | 62              | 813              |

Above test data is based on [Spot trim\(AF21RF01\)](#) with 3000K 90CRI LED.

LUMEN MULTIPLIERS

| CCT   | MULTIPLIER |
|-------|------------|
| 2700K | 0.96       |
| 3000K | 1.00       |
| 3500K | 1.04       |
| 4000K | 1.05       |

Applying Lumen Multipliers to Calculate Delivered Lumens

|                                                          |   |                   |   |                                         |
|----------------------------------------------------------|---|-------------------|---|-----------------------------------------|
| Base Fixture Delivered Lumens<br>(from PHOTOMETRIC DATA) | x | CCT<br>Multiplier | = | Delivered Lumens for<br>Desired Fixture |
| STANDARD TRIM Example: AM504-AF21RA01 3500K              |   |                   |   |                                         |
| 363 lm                                                   | x | 1.04              | = | 377 lm                                  |



LIGHT DISTRIBUTION

AM504-AF21RF01 3000K 5W

| 15° |        |      |       | 24° |        |      |       | 36° |        |      |       | 50° |        |      |       |
|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|
|     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |
|     | 30.62  | 1    | 2849  |     | 39.65  | 1    | 2471  |     | 72.14  | 1    | 757.3 |     | 92.9   | 1    | 359.7 |
|     | 61.24  | 2    | 712.2 |     | 79.30  | 2    | 617.8 |     | 144.27 | 2    | 189.3 |     | 185.79 | 2    | 89.91 |
|     | 91.87  | 3    | 316.6 |     | 118.95 | 3    | 274.6 |     | 216.41 | 3    | 84.14 |     | 278.69 | 3    | 39.96 |
|     | 122.49 | 4    | 178.1 |     | 158.6  | 4    | 154.4 |     | 288.55 | 4    | 47.33 |     | 371.58 | 4    | 22.48 |
|     | 153.11 | 5    | 114   |     | 198.25 | 5    | 98.85 |     | 360.68 | 5    | 30.29 |     | 464.48 | 5    | 14.39 |

AM504-AF22RF01 3000K 8W

| 15° |        |      |       | 24° |        |      |       | 36° |        |      |       | 50° |        |      |       |
|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|
|     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |
|     | 25     | 1    | 6257  |     | 36.66  | 1    | 4654  |     | 63.54  | 1    | 1785  |     | 81.47  | 1    | 1138  |
|     | 50.01  | 2    | 1564  |     | 73.32  | 2    | 1164  |     | 127.08 | 2    | 446.2 |     | 162.94 | 2    | 284.4 |
|     | 75.01  | 3    | 695.2 |     | 109.97 | 3    | 517.2 |     | 190.62 | 3    | 198.3 |     | 244.41 | 3    | 126.4 |
|     | 100.01 | 4    | 391.1 |     | 146.63 | 4    | 290.9 |     | 254.16 | 4    | 111.5 |     | 325.89 | 4    | 71.1  |
|     | 125.01 | 5    | 250.3 |     | 183.29 | 5    | 186.2 |     | 317.7  | 5    | 71.38 |     | 407.36 | 5    | 45.5  |

AM506-AF21RA01 3000K 10W

| 15° |        |      |       | 24° |        |      |       | 36° |        |      |       | 50° |        |      |       |
|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|
|     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |
|     | 25.34  | 1    | 8791  |     | 35.95  | 1    | 6433  |     | 63.55  | 1    | 2440  |     | 79.77  | 1    | 1573  |
|     | 50.68  | 2    | 2198  |     | 71.89  | 2    | 1608  |     | 127.1  | 2    | 609.9 |     | 159.53 | 2    | 393.1 |
|     | 76.02  | 3    | 976.8 |     | 107.84 | 3    | 714.8 |     | 190.65 | 3    | 271.1 |     | 239.3  | 3    | 174.7 |
|     | 101.36 | 4    | 549.4 |     | 143.79 | 4    | 402.1 |     | 254.21 | 4    | 152.5 |     | 319.07 | 4    | 98.29 |
|     | 126.7  | 5    | 351.6 |     | 179.73 | 5    | 257.3 |     | 317.76 | 5    | 97.59 |     | 398.83 | 5    | 62.9  |

AM506-AF21RA01 3000K 15W

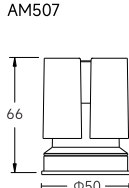
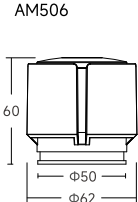
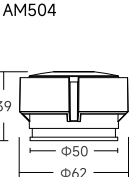
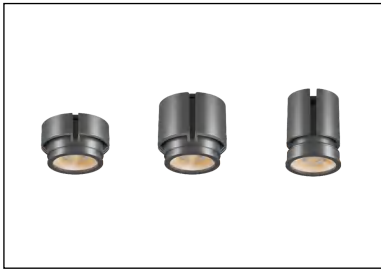
| 15° |        |      |       | 24° |        |      |       | 36° |        |      |       | 50° |        |      |        |
|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|--------|
|     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx)  |
|     | 25.34  | 1    | 11545 |     | 36.15  | 1    | 8504  |     | 63.71  | 1    | 3203  |     | 81.39  | 1    | 2068   |
|     | 50.68  | 2    | 2886  |     | 72.31  | 2    | 2126  |     | 127.43 | 2    | 800.7 |     | 162.78 | 2    | 517    |
|     | 76.02  | 3    | 1283  |     | 108.46 | 3    | 944.9 |     | 191.14 | 3    | 355.9 |     | 244.17 | 3    | 229.81 |
|     | 101.36 | 4    | 721.6 |     | 144.61 | 4    | 531.5 |     | 254.85 | 4    | 200.2 |     | 325.56 | 4    | 129.3  |
|     | 126.7  | 5    | 461.8 |     | 180.76 | 5    | 340.2 |     | 318.56 | 5    | 128.1 |     | 406.95 | 5    | 82.72  |

AM507-AF21RF01 3000K 8W

| 15° |        |      |       | 24° |        |      |       | 36° |        |      |       | 50° |        |      |       |
|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|-----|--------|------|-------|
|     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |     | D(cm)  | h(m) | E(lx) |
|     | 35.4   | 1    | 4063  |     | 42.14  | 1    | 2942  |     | 65.31  | 1    | 1393  |     | 90.49  | 1    | 815.4 |
|     | 70.79  | 2    | 1016  |     | 84.28  | 2    | 735.6 |     | 130.62 | 2    | 348.3 |     | 180.98 | 2    | 203.8 |
|     | 106.19 | 3    | 451.4 |     | 126.42 | 3    | 326.9 |     | 195.93 | 3    | 154.8 |     | 271.47 | 3    | 90.6  |
|     | 141.59 | 4    | 253.9 |     | 168.56 | 4    | 183.9 |     | 261.24 | 4    | 87.07 |     | 361.96 | 4    | 50.96 |
|     | 176.98 | 5    | 162.5 |     | 210.7  | 5    | 117.7 |     | 326.55 | 5    | 55.72 |     | 452.45 | 5    | 32.61 |

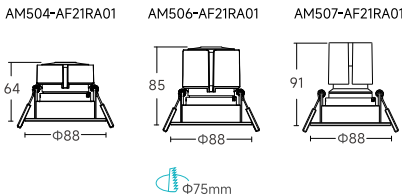
DIMENSION

LED Module

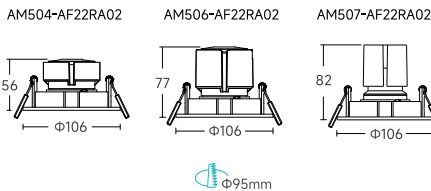
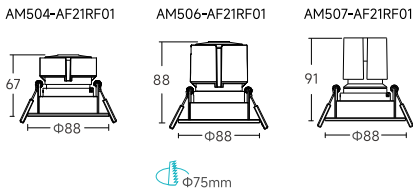
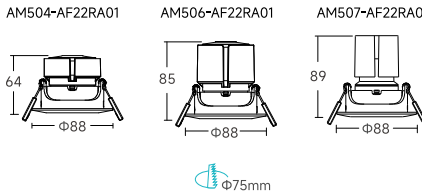
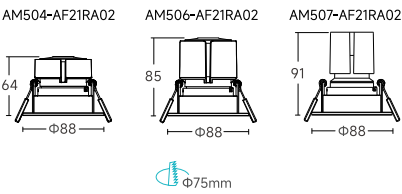
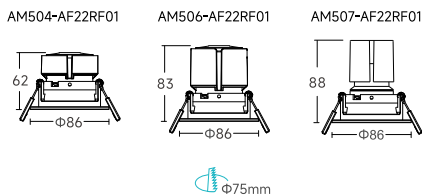


Trim For AVA-RESIDENTIAL

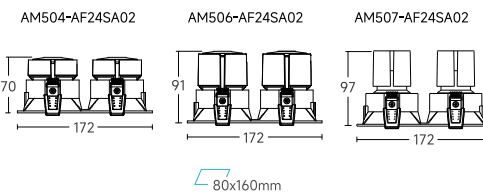
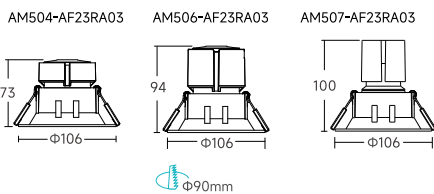
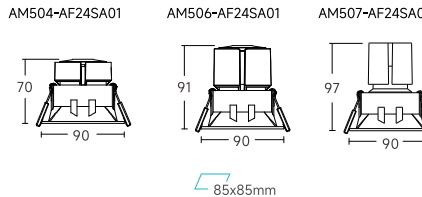
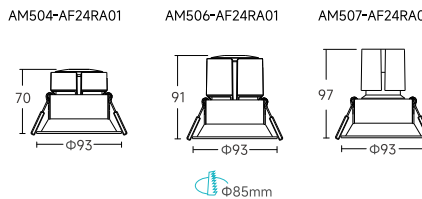
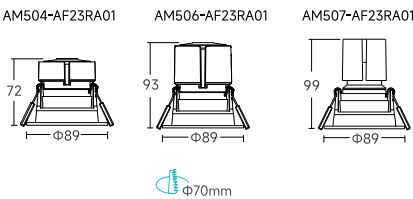
SPOT



STANDARD



DEEP FRAME





AVA DOWNLIGHT SYSTEM

Elegant MR16(GU10) compatible design, AVA was born to be versatile. The perfect thermal management ensures the high wattage in the smaller housing. Aesthetic design is not the only advantage of AVA, it's 90lm/W efficacy with uniform light distribution also worth a mention. Except the single color 2700K to 5000K range, AVA also offers 1800K-3000K Dim-to warm create a SDCM≤3 color consistency home-like atmosphere to where it is needed. It complies with the modular design, everything is interchangeable except COB, well covered the commercial and residential applications. The performance of AVA is the ice of the cake on the aesthetic appearance.

DETAILS



Scan to know more about product information