



Type:

SPECIFICATION SHEET

Project:

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AVA-Commercial

AM504 / AM506 / AM507



DESCRIPTION

Ava-Commercial series, it comes into round and square with modular design, in various wattage, besides, single downlight could be more with dual head, perfectly fit into any indoor retails or commercial environments.

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.

SPECIFICATIONS

ELECTRICAL

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

OPTICAL

LED Type: COB
 Lumen Output: 615lm (AM504), 1356lm (AM506) , 693lm (AM507)
 Beam Optic: Narrow Spot (15°) / Spot (24°, 36°) / Flood (50°)
 Color Quality: CRI 80+/90+, SDCM < 3
 Color Temperature: Static White: 2700K, 3000K, 3500K, 4000K
 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 Carefree for Parts and Components
 (Labor not included) LED luminaire life reduction and warranty invalidation will occur if installed in environments above 40°C

PHYSICAL

Ceiling Thickness: 1mm to 20mm spring clip
 Construction: Aluminum
 Mounting: Recessed with spring plates

DETAILS





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ORDERING INFORMATION

| MODULE | TRIM | LUMEN | TRIM COLOR | CRI | CCT | OPTIC | DIMMING |
|--|---|---|---|--|--|---|--|
| <input type="checkbox"/> AM504 AVA 50mm Aperture | <input type="checkbox"/> AF31RA01 Round | <input type="checkbox"/> L04 400lm | <input type="checkbox"/> W White | <input type="checkbox"/> 8 80+ | <input type="checkbox"/> 27 2700K | <input type="checkbox"/> 015 Narrow Spot 15° | <input type="checkbox"/> V 0/1-10V |
| <input type="checkbox"/> AM506 AVA 50mm Aperture | <input type="checkbox"/> AF31SA01 Square | <input type="checkbox"/> L06 600lm | <input type="checkbox"/> B Black | <input type="checkbox"/> 9 90+ | <input type="checkbox"/> 30 3000K | <input type="checkbox"/> 024 Spot 24° | <input type="checkbox"/> T Triac |
| <input type="checkbox"/> AM507 AVA 50mm Aperture | <input type="checkbox"/> AF31SA02 Dual-head | <input type="checkbox"/> L10 1000lm | <input type="checkbox"/> S Silver | | <input type="checkbox"/> 35 3500K | <input type="checkbox"/> 036 Spot 36° | <input type="checkbox"/> X 0-10V/Triac |
| | | <input type="checkbox"/> L13 1300lm | | | <input type="checkbox"/> 40 4000K | <input type="checkbox"/> 050 Flood 50° | <input type="checkbox"/> D DALI |
| | | | | | <input type="checkbox"/> DW Dim To Warm 1800K-3000K | | <input type="checkbox"/> N Non-dimming |

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

OPTICAL ACCESSORY

Honeycomb
AM504-H / AM506-H / AM507-H



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





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PHOTOMETRIC DATA (NON-DIMMING)

| LUMEN PACKAGE | POWER | CCT | 15° | | | 24° | | | 36° | | | 50° | | |
|----------------|-------|-------|--------|----------|-------------|--------|----------|-------------|--------|----------|-------------|--------|----------|-------------|
| | | | LUMENS | EFFICACY | MAX CANDELA | LUMENS | EFFICACY | MAX CANDELA | LUMENS | EFFICACY | MAX CANDELA | LUMENS | EFFICACY | MAX CANDELA |
| AM504-AF31RA01 | 5W | 3000K | 398 | 84 | 3006 | 423 | 90 | 2501 | 378 | 80 | 749 | 293 | 62 | 361 |
| AM504-AF31RA01 | 8W | 3000K | 574 | 86 | 4341 | 615 | 92 | 3642 | 553 | 82 | 1099 | 426 | 64 | 525 |
| AM506-AF31RA01 | 10W | 3000K | 905 | 85 | 5063 | 1026 | 97 | 4818 | 992 | 94 | 2612 | 675 | 64 | 837 |
| AM506-AF31RA01 | 15W | 3000K | 1182 | 70 | 6621 | 1356 | 89 | 6354 | 1308 | 86 | 3443 | 895 | 57 | 1111 |

Above test data is based on [Standard Trim\(AF31RA01\)](#) 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 (from PHOTOMETRIC DATA) | x | CCT Multiplier | = | Delivered Lumens for Desired Fixture |
|--|---|-------------------|---|---|
| STANDARD TRIM Example: AM504-AF31RA01 3500K | | | | |
| 398 lm | x | 1.04 | = | 414 lm |

LIGHT DISTRIBUTION

AM504-AF31RA01 3000K 5W

| NARROW SPOT 15° | | | SPOT 24° | | | SPOT 36° | | | FLOOD 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) |
| 30.5 | 1 | 2967 | 39.38 | 1 | 2499 | 73.1 | 1 | 749.4 | 92.85 | 1 | 358.4 |
| 61 | 2 | 741.6 | 78.76 | 2 | 624.8 | 146.21 | 2 | 187.3 | 185.71 | 2 | 89.6 |
| 91.5 | 3 | 329.6 | 118.13 | 3 | 277.7 | 219.31 | 3 | 85.26 | 278.56 | 3 | 39.82 |
| 122 | 4 | 185.4 | 157.51 | 4 | 156.2 | 292.42 | 4 | 46.84 | 371.41 | 4 | 22.4 |
| 152.5 | 5 | 118.7 | 196.89 | 5 | 99.77 | 365.52 | 5 | 29.97 | 464.27 | 5 | 14.34 |

AM504-AF31RA01 3000K 8W

| NARROW SPOT 15° | | | SPOT 24° | | | SPOT 36° | | | FLOOD 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) |
| 30.38 | 1 | 4286 | 39.4 | 1 | 3636 | 72.79 | 1 | 1104 | 92.81 | 1 | 521.4 |
| 60.75 | 2 | 1072 | 78.79 | 2 | 909.1 | 145.58 | 2 | 276.1 | 185.62 | 2 | 130.4 |
| 91.13 | 3 | 476.3 | 118.19 | 3 | 404 | 218.37 | 3 | 122.7 | 278.43 | 3 | 57.94 |
| 121.5 | 4 | 267.9 | 157.59 | 4 | 227.3 | 291.16 | 4 | 69.02 | 371.24 | 4 | 32.59 |
| 151.88 | 5 | 171.5 | 196.98 | 5 | 145.5 | 363.94 | 5 | 44.17 | 464.05 | 5 | 20.86 |

AM506-AF31RA01 3000K 10W

| NARROW SPOT 15° | | | SPOT 24° | | | SPOT 36° | | | FLOOD 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) |
| 36.62 | 1 | 5039 | 45.67 | 1 | 4803 | 65.76 | 1 | 2609 | 92.45 | 1 | 857.6 |
| 73.24 | 2 | 1260 | 91.33 | 2 | 1201 | 131.51 | 2 | 652.2 | 184.91 | 2 | 209.4 |
| 109.87 | 3 | 559.9 | 137 | 3 | 533.7 | 197.27 | 3 | 289.9 | 277.36 | 3 | 93.07 |
| 146.49 | 4 | 314.9 | 182.67 | 4 | 300.2 | 263.02 | 4 | 163.1 | 369.81 | 4 | 52.35 |
| 183.11 | 5 | 201.6 | 228.33 | 5 | 192.1 | 328.78 | 5 | 104.4 | 462.27 | 5 | 33.51 |

AM506-AF31RA01 3000K 15W

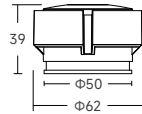
| NARROW SPOT 15° | | | SPOT 24° | | | SPOT 36° | | | FLOOD 50° | | |
|-----------------|------|-------|----------|------|-------|----------|------|-------|-----------|------|-------|
| D(cm) | h(m) | E(lx) | D(cm) | h(m) | E(lx) | D(cm) | h(m) | E(lx) | D(cm) | h(m) | E(lx) |
| 36.59 | 1 | 6607 | 45.7 | 1 | 6357 | 65.74 | 1 | 3450 | 92.14 | 1 | 1117 |
| 73.17 | 2 | 1652 | 91.41 | 2 | 1589 | 131.47 | 2 | 862.4 | 184.28 | 2 | 279.3 |
| 109.76 | 3 | 734.1 | 137.11 | 3 | 706.3 | 197.21 | 3 | 383.3 | 276.43 | 3 | 124.1 |
| 146.34 | 4 | 412.9 | 182.81 | 4 | 397.3 | 262.94 | 4 | 215.6 | 368.57 | 4 | 69.82 |
| 182.93 | 5 | 264.3 | 228.52 | 5 | 254.3 | 328.68 | 5 | 138 | 460.71 | 5 | 44.68 |

DIMENSION

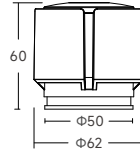
LED Module



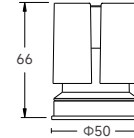
AM504



AM506



AM507

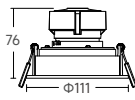


Trim For AVA-Commercial

STANDARD



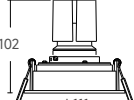
AM504-AF31RA01



AM506-AF31RA01



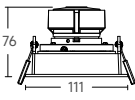
AM507-AF31RA01



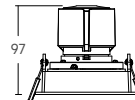
Φ100mm



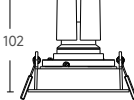
AM504-AF31SA01



AM506-AF31SA01



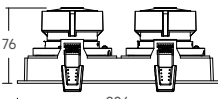
AM507-AF31SA01



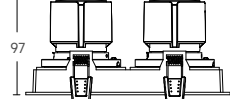
100x100mm



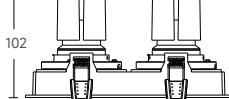
AM504-AF31SA02



AM506-AF31SA02



AM507-AF31SA02



100x192mm



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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 \leq 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