**AR7 CHANNEL FIXTURE**

**GEN LED Acolyte**’s AR7 Channel Fixture is a recessed mounted linear fixture designed to work with the new Micro RibbonLyte 3.0 & 4.5. AR7’s ultra slim width of 0.39 in (10 mm) can create clean and modern linear designs for retail stores, commercial buildings and residential interiors.

- Beam Angle 35°
- Wattage: 3.0 W/ft (9.84 W/m) or 4.5 W/ft (14.76 W/m)
- Delivered Lumen Range from 149.3 lm/ft (489.7 lm/m) to 268.2 lm/ft (879.7 lm/m)

**Applications:**
- Commercial
- Hospitality
- Residential
- Entertainment
- Museums
- Retail
- Healthcare
- Public Spaces

**AVAILABLE LENS FINISHES**

- Milky Lens
  - 63% Light Transmission

**ORDERING GUIDE**

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>LENS</th>
<th>CRI</th>
<th>RIBBON TYPE &amp; IP RATING</th>
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</thead>
<tbody>
<tr>
<td>CHAR7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHAR7 - AR7 Channel</td>
<td>0 - No Lens</td>
<td>0 - Static Colors</td>
<td>SWMC20 - Static White Micro IP20</td>
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<tr>
<td></td>
<td>M - Milky</td>
<td>90 - 90+ CRI Static White</td>
<td>SWMC65 - Static White Micro IP65</td>
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<table>
<thead>
<tr>
<th>WATTAGE</th>
<th>COLOR</th>
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<tbody>
<tr>
<td>3.0</td>
<td>24 - 2400K</td>
</tr>
<tr>
<td>4.5</td>
<td>27 - 2700K</td>
</tr>
<tr>
<td>30</td>
<td>30 - 3000K</td>
</tr>
<tr>
<td>35</td>
<td>35 - 3500K</td>
</tr>
<tr>
<td>40</td>
<td>40 - 4000K</td>
</tr>
<tr>
<td>60</td>
<td>60 - 6000K</td>
</tr>
</tbody>
</table>

**CONNECTION OPTIONS**

1 - Back Feed Hard Wire Connection
2 - Side Feed Hard Wire Connection
3 - IP20 Connector Input
4 - IP67 Connector Input
5 - Soldered Daisy-Chain
6 - Daisy-Chain With IP20 Connectors
7 - Daisy-Chain With IP67 Connectors

* See last page for connection diagram

**AVAILABLE COLORS AND COLOR TEMPERATURES**

- 2400K
- 2700K
- 3000K
- 3500K
- 4000K
- 6000K
- Red
- Amber
- Green
- Blue
- Violet
## AR7 CHANNEL FIXTURE

### SPECIFICATIONS

#### AR7 Channel

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Beam Angle</td>
<td>35°</td>
</tr>
<tr>
<td>Lens Type</td>
<td>Milky</td>
</tr>
<tr>
<td>Recessed Width</td>
<td>0.39 in (10 mm)</td>
</tr>
<tr>
<td>Height</td>
<td>0.59 in (15 mm)</td>
</tr>
<tr>
<td>Internal Width</td>
<td>0.33 in (8.5 mm)</td>
</tr>
<tr>
<td>Length</td>
<td>Channel is sold by the foot and cut to your exact desired length.</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>24V</td>
</tr>
<tr>
<td>Dimming</td>
<td>DMX / MLV / 0-10 Volt / Lutron A-Series 1% dimming LED drivers / Lutron VIVE code compliance available / ELV / DALI</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° F to 158° F (-40° C to 70° C)</td>
</tr>
<tr>
<td>Colors</td>
<td>2400K, 2700K, 3000K, 3500K, 4000K, 6000K, Red, Amber, Green, Blue, Violet</td>
</tr>
<tr>
<td>CRI</td>
<td>90+ CRI (Static White only)</td>
</tr>
<tr>
<td>Lamp Life</td>
<td>50,000 Hours</td>
</tr>
<tr>
<td>MacAdam's Ellipses (SDCM)</td>
<td>2-Step Binning (For Static White LEDs only)</td>
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</tbody>
</table>

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# AR7 CHANNEL FIXTURE

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Available Wattages</th>
<th>Cuttable Length</th>
<th>LED Pitch</th>
<th>Color Temperature</th>
<th>lm/W without Lens</th>
<th>Delivered Lumens with Milky Lens</th>
<th>Standard Cable Length</th>
<th>Compatible with Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 Static White Micro / 3.0 Static Color Micro</td>
<td>3.94 in (100 mm)</td>
<td>18 LEDs/ft (60 LEDs/m)</td>
<td>2400K</td>
<td>79</td>
<td>149.3 lm/ft (489.7 lm/m)</td>
<td>12 in (30.5 cm)</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2700K</td>
<td>90</td>
<td>170.1 lm/ft (557.9 lm/m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3000K</td>
<td>94</td>
<td>177.7 lm/ft (582.7 lm/m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3500K</td>
<td>98</td>
<td>185.2 lm/ft (607.5 lm/m)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4000K</td>
<td>97</td>
<td>183.3 lm/ft (601.3 lm/m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6000K</td>
<td>93</td>
<td>175.8 lm/ft (576.5 lm/m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Red</td>
<td>27</td>
<td>50.3 lm/ft (164.9 lm/m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Green</td>
<td>78</td>
<td>147.5 lm/ft (483.9 lm/m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Blue</td>
<td>17</td>
<td>31.9 lm/ft (104.6 lm/m)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Amber</td>
<td>19</td>
<td>35.5 lm/ft (116.4 lm/m)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Violet</td>
<td>1</td>
<td>0.9 lm/ft (2.9529 lm/m)</td>
<td></td>
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<tr>
<td>4.5 Static White Micro / 4.5 Static Color Micro</td>
<td>1.97 in (50 mm)</td>
<td>36 LEDs/ft (120 LEDs/m)</td>
<td>2400K</td>
<td>80</td>
<td>223.5 lm/ft (733.2 lm/m)</td>
<td>12 in (30.5 cm)</td>
<td>✓ ✓ ✓</td>
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<tr>
<td></td>
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<td></td>
<td>2700K</td>
<td>88</td>
<td>247.8 lm/ft (812.7 lm/m)</td>
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<td></td>
<td></td>
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<td>3000K</td>
<td>93</td>
<td>259.8 lm/ft (852.2 lm/m)</td>
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<td></td>
<td></td>
<td></td>
<td>3500K</td>
<td>87</td>
<td>244.7 lm/ft (802.6 lm/m)</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>4000K</td>
<td>97</td>
<td>268.2 lm/ft (879.7 lm/m)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>6000K</td>
<td>94</td>
<td>263.1 lm/ft (862.9 lm/m)</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Red</td>
<td>26</td>
<td>73.5 lm/ft (241 lm/m)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Green</td>
<td>83</td>
<td>243.8 lm/ft (799.9 lm/m)</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Blue</td>
<td>17</td>
<td>52.8 lm/ft (173.2 lm/m)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Amber</td>
<td>17</td>
<td>51.7 lm/ft (169.6 lm/m)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Violet</td>
<td>1</td>
<td>1.4 lm/ft (4.5 lm/m)</td>
<td></td>
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</tbody>
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**AVAILBLE DRIVERS**

### NON-DIMMING ELECTRONIC DRIVERS

#### 60W, 100W Non-Dimming Electronic Class 2 Drivers

- **Part No.:**
  - DRV/W2460HTC (60 Watt)
  - DRV/W24100HTC (100 Watt)
- **Output Voltage:** 24 V
- **Voltage Range:** 120-277 VAC
- **IP Rating:** Dry or Damp
- **UL Listed**

#### 240W, 320W Non-Dimming Electronic Drivers

- **Part No.:**
  - DRV/W24240 (240 Watt)
  - DRV/W24320 (320 Watt)
- **Output Voltage:** 24 V
- **Voltage Range:** 90-305 VAC
- **IP Rating:** Dry or Damp
- **UL Listed**

### LUTRON HI-LUME DRIVERS

#### 40W, 96W Class 2 Lutron Hi-Lume Drivers

- **Part No.:**
  - DRV/LUT24403W (40 Watt)
  - DRV/LUT24402W (40 Watt)
  - DRV/LUT24963W (96 Watt)
- **Output Voltage:** 24 V
- **Voltage Range:** 120-277 VAC or 120V (2-wire model)
- **IP Rating:** Dry or Damp
- **Dimmable using 2-wire forward phase or 3-wire ecosystem**
- **UL Listed**

### MAGNETIC, ELV & MLV DRIVERS WITH COMPATIBLE DIMMERS.

#### 60W, 96W, 200W, 300W Class 1 & 2 Magnetic Drivers

- **Part No.:**
  - DRV/WDIM2460 (60 Watt)
  - DRV/WDIM2496, (96 Watt)
  - DRV/WDIM24200 (200 Watt)
  - DRV/WDIM24300 (300 Watt)
- **Magnetic Driver**
  - **Output Voltage:** 24 V
  - **Voltage Range:** 120-277 VAC
  - **IP Rating:** Dry or Damp
  - **Forward Phase Dimming**
  - **ETL Listed**

#### 60W, 96W, 150W, 200W ELV & MLV Drivers

- **Part No.:**
  - DRV/W2460ELV (60 Watt)
  - DRV/W2496ELV (96 Watt)
  - DRV/W24150ELV (150 Watt)
  - DRV/W24200ELV (200 Watt)
- **Line Voltage Dimmable Drivers**
  - **Output Voltage:** 24 V
  - **Voltage Range:** 100-130 VAC
  - **IP Rating:** Dry or Damp
  - **Dimmable**
  - **ETL, UL and CSA Listed**

- **LUTRON Skylark Contour Dimmer**
  - **Part No.:** TRIDIMSKY
  - **Width:** 2.94 in (75 mm)
  - **Length:** 4.69 in (120 mm)
  - **Depth:** 0.30 in (7.6 mm)
  - · Single pole and 3-way versions
  - · Compatible with GENLED Acolyte Triac Dimmer
  - · Slide adjusts brightness and On/Off control
  - · 30 mA max control current
  - · Available in White finish

- **LUTRON NOVA-T Dimmer**
  - **Part No.:** TRIDIMNOVA
  - **Width:** 2.75 in (70 mm)
  - **Length:** 4.56 in (116 mm)
  - **Depth:** 0.30 in (7.6 mm)
  - · Slide adjusts brightness and On/Off control
  - · 30 mA max control current
  - · Available in White finish

- **LUTRON DIVA Dimmer**
  - **Part No.:** TRIDIMDIVA
  - **Width:** 2.94 in (75 mm)
  - **Length:** 4.69 in (120 mm)
  - **Depth:** 0.30 in (7.6 mm)
  - · Large paddle switch with a captive linear-slide dimmer
  - · 30 mA max control current
  - · Available in White finish
  - · Available with locator light which glows green when the switch is off

*For more options, please reference the Optional Dimmer List on GENLED Acolyte’s product website page.*

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WIRING DIAGRAM

0-10V

AC

L

N

Dimmer

0-10V

Purple

Grey

Red

Red +

- Black

AC

L

N

Driver

LED

WIRE COLORS PER RIBBONLYTE COLOR

STATIC WHITE +
STATIC COLOR MICRO
Red Wire (+) Positive
Black Wire (-) Negative

CONNECTION OPTIONS

1.

2.

3.

4.

5.

6.

7.

MAX LENGTH BETWEEN DRIVER AND RIBBONLYTE AT FULL LOAD

<table>
<thead>
<tr>
<th>Wattages</th>
<th>40</th>
<th>60</th>
<th>96 + 100</th>
<th>150</th>
<th>200</th>
<th>240</th>
<th>300</th>
<th>320</th>
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<tbody>
<tr>
<td>Wire Gauge</td>
<td>Feet</td>
<td>Meters</td>
<td>Feet</td>
<td>Meters</td>
<td>Feet</td>
<td>Meters</td>
<td>Feet</td>
<td>Meters</td>
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<tr>
<td>24 AWG</td>
<td>14</td>
<td>4.27</td>
<td>9</td>
<td>2.74</td>
<td>5.5</td>
<td>1.68</td>
<td>3.75</td>
<td>1.14</td>
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<td>22 AWG</td>
<td>22</td>
<td>6.71</td>
<td>14</td>
<td>4.27</td>
<td>9</td>
<td>2.74</td>
<td>5.75</td>
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<td>20 AWG</td>
<td>35</td>
<td>10.67</td>
<td>23</td>
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<td>4.27</td>
<td>9</td>
<td>2.74</td>
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<td>18 AWG</td>
<td>56</td>
<td>17.07</td>
<td>37</td>
<td>11.28</td>
<td>23</td>
<td>7.01</td>
<td>15</td>
<td>4.57</td>
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<td>16 AWG</td>
<td>90</td>
<td>27.44</td>
<td>60</td>
<td>18.29</td>
<td>37</td>
<td>11.28</td>
<td>24</td>
<td>7.32</td>
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<td>14 AWG</td>
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<td>43.29</td>
<td>95</td>
<td>28.96</td>
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<td>226</td>
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<td>46.04</td>
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<td>18.29</td>
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<td>10 AWG</td>
<td>360</td>
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<td>240</td>
<td>73.17</td>
<td>150</td>
<td>45.73</td>
<td>96</td>
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<td>8 AWG</td>
<td>574</td>
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<td>116.16</td>
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<td>72.87</td>
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<td>46.65</td>
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