

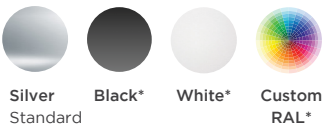
AR7 CHANNEL FIXTURE

Our AR7 Channel Fixture is a recessed mounted linear fixture designed to work with the new Micro RibbonLyte 1.0, 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.

- Available for field assembly or factory assembly
- Beam Angle 110°
- Wattage: 1.0 W/ft (3.3 W/m), 3.0 W/ft (9.84 W/m) or 4.5 W/ft (14.76 W/m)
- Delivered Lumen Range from 1 lm/ft (3 lm/m) to 500 lm/ft (1638 lm/m)
- Assembled in USA



HOUSING FINISHES



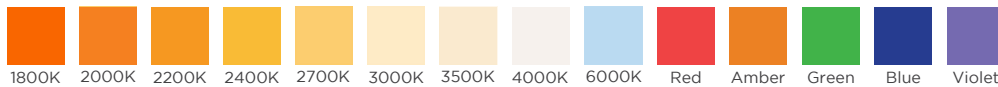
*Additional fee applies

AVAILABLE LENS FINISHES



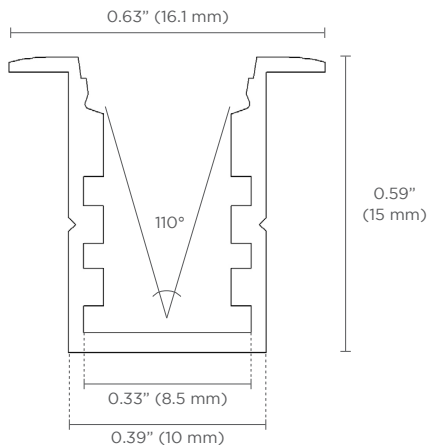
Milky Lens
63% Light Transmission

AVAILABLE COLORS & COLOR TEMPERATURES



DIMENSIONS

AR7 Channel



Overall Width: 0.63 in. (16.1 mm)
Recessed Width: 0.39 in. (10 mm)
Height: 0.59 in. (15 mm)
Internal Width: 0.33 in. (8.5 mm)

- Note:**
1. This channel does not require mounting clips. Please see our installation guide for instructions.
 2. **Exterior channel applications** should be securely attached to the mounting surface with appropriate screws and/or liquid nails. Acolyte strongly recommends field assembly for exterior applications.

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SPECIFICATIONS

| | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Beam Angle | 110° |
| Lens Type | Milky Lens |
| Length | Channel is sold by the foot and cut to your exact desired length |
| Operating Voltage | 24V |
| Dimming | MLV / 0-10 Volt / ELV / DALI / DMX |
| Operating Temperature | -40° F to 158° F (-40° C to 70° C) |
| Colors | 1800K, 2000K, 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 6000K, Red, Amber, Green, Blue, Violet (1800K, 2000K, 2200K only available in IP20) |
| CRI | 90+ CRI (Static white only) |
| Lamp Life | L70 at 50,000 Hours |
| MacAdam Ellipses (SDCM) | 2-Step Binning (For Static White LEDs only) |
| Certifications | UL Listed UL 2108 Issued: 2004/02/27 Ed: 1 Rev: 2014/02/24 Low Voltage Lighting Systems CSA C22.2#9.0 Issued: 1996/06/01 Ed: 1 (R2011) General Requirements for Luminaries; with Gen. Inst. 1: 1997, Gen Inst. 2: 1998. ROHS compliant |

ORDERING GUIDE

STEP 1 Complete Channel Part Number

| CHANNEL | LENS | HOUSING COLOR | |
|-----------------------------|----------------|-----------------------------------|------------|
| CHAR7 | M | | |
| CHAR7 - AR7 Channel Fixture | M - Milky Lens | SV - Silver (default) | WH - White |
| | | BK - Black | |
| | | Consult factory for custom colors | |

STEP 2 Complete RibbonLyte Part Number

| CATEGORY | CRI | RIBBON TYPE & IP RATING | |
|-----------------|----------------------------------|----------------------------------|----------------------------------|
| RB | | | |
| RB - RibbonLyte | 0 - Static Color, Color Changing | SWMC20 - Static White Micro IP20 | SCMC20 - Static Color Micro IP20 |
| | 90 - 90+ CRI Static White | SWMC65 - Static White Micro IP65 | SCMC65 - Static Color Micro IP65 |

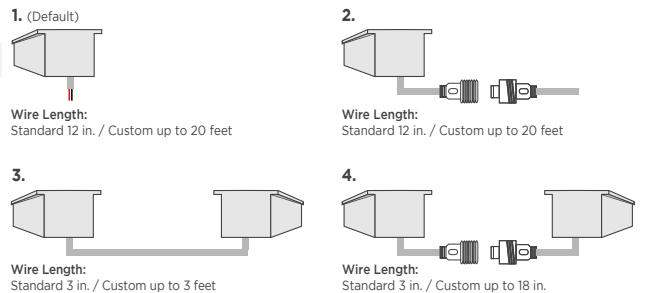
| WATTAGE | COLOR |
|--------------------------------------------------------|------------|
| 1.0 - 1.0 W/ft (3.3 W/m - Static White, Static Color) | 18 - 1800K |
| 3.0 - 3.0 W/ft (9.8 W/m - Static White, Static Color) | 20 - 2000K |
| 4.5 - 4.5 W/ft (14.8 W/m - Static White, Static Color) | 22 - 2200K |
| | 24 - 2400K |
| | 27 - 2700K |
| | 30 - 3000K |
| | 35 - 3500K |
| | 40 - 4000K |
| | 60 - 6000K |

NOTE: To ensure waterproofing standards are met, IP65 RibbonLyte can NOT be cut in the field.

CONNECTION OPTIONS (See diagrams on the right)

- 1 - Back Feed Bare Wire Connection
- 2 - Back Feed with IP67 Male Coupler
- 3 - Soldered Daisy Chain
- 4 - Daisy Chain With IP67 Couplers

Custom Length (ft.)



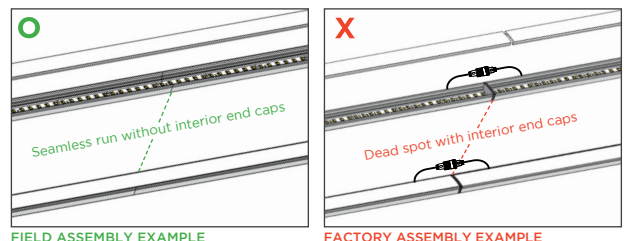
STEP 3 Complete Assembly Option & Length

| ASSEMBLY OPTION | LENGTH (Standard factory assembled length up to 6 ft 6.7 in. / 2 m) |
|--------------------------------------------------------------------|---------------------------------------------------------------------|
| FI - Field Assembly | |
| FA - Factory Assembly* (not recommended for exterior applications) | |

* Factory assembled runs exceeding 6 ft 6.7 in. (2 m) will be split into multiple daisy chained fixtures.

DO NOT BUTT END CAPS AGAINST EACH OTHER WHEN CREATING LONGER FIXTURES

Acolyte STRONGLY SUGGESTS field assembly (without using interior end caps) for direct-view fixtures of more than 6 ft 6.7 in. (2 m) in length. Field assembly without interior end caps will eliminate gaps or dead spots that can be caused by butting interior end caps against each other.



RIBBONLYTE SPECIFICATIONS & COMPATIBILITY

| Available Wattages | Cuttable Length | LED Pitch | Color Temperature | lm/W without Lens | Delivered Lumens with Milky Lens | Max Length | Compatible with Channel | |
|-------------------------------------------------|------------------|--------------------------|-------------------------------------------------|-------------------|----------------------------------|---------------|-------------------------|--------------------------|
| | | | | | | | IP20 | IP65 |
| 1.0 Static White Micro & 1.0 Static Color Micro | 1.97 in. (50 mm) | 43 LEDs/ft (140 LEDs/m) | 2400K | 79 | 49.8 lm/ft (163.3 lm/m) | 28 ft (8.5 m) | ✓ | ✓ |
| | | | 2700K | 90 | 56.7 m/ft (186 lm/m) | | | |
| | | | 3000K | 94 | 59.2 lm/ft (194 lm/m) | | | |
| | | | 3500K | 98 | 61.7 lm/ft (202.5 lm/m) | | | |
| | | | 4000K | 97 | 61.1 lm/ft (200.5 lm/m) | | | |
| | | | 6000K | 93 | 58.6 lm/ft (192.2 lm/m) | | | |
| | | | Red | 27 | 16.8 lm/ft (55.0 lm/m) | | | |
| | | | Green | 78 | 49.2 lm/ft (161.3 lm/m) | | | |
| | | | Blue | 17 | 10.6 lm/ft (34.9 lm/m) | | | |
| | | | Amber | 19 | 11.8 lm/ft (38.8 lm/m) | | | |
| | | | Violet | 1 | 0.3 lm/ft (1.0 lm/m) | | | |
| | | | 3.0 Static White Micro & 3.0 Static Color Micro | 1.97 in. (50 mm) | 43 LEDs/ft (140 LEDs/m) | | | |
| 2700K | 90 | 170.1 lm/ft (557.9 lm/m) | | | | | | |
| 3000K | 94 | 177.7 lm/ft (582.7 lm/m) | | | | | | |
| 3500K | 98 | 185.2 lm/ft (607.5 lm/m) | | | | | | |
| 4000K | 97 | 183.3 lm/ft (601.3 lm/m) | | | | | | |
| 6000K | 93 | 175.8 lm/ft (576.5 lm/m) | | | | | | |
| Red | 27 | 50.3 lm/ft (164.9 lm/m) | | | | | | |
| Green | 78 | 147.5 lm/ft (483.9 lm/m) | | | | | | |
| Blue | 17 | 31.9 lm/ft (104.6 lm/m) | | | | | | |
| Amber | 19 | 35.5 lm/ft (116.4 lm/m) | | | | | | |
| Violet | 1 | 0.9 lm/ft (2.9529lm/m) | | | | | | |
| 4.5 Static White Micro & 4.5 Static Color Micro | 1.97 in. (50 mm) | 43 LEDs/ft (140 LEDs/m) | | | | 2400K | 80 | 223.5 lm/ft (733.2 lm/m) |
| | | | 2700K | 88 | 247.8 lm/ft (812.7 lm/m) | | | |
| | | | 3000K | 93 | 259.8 lm/ft (852.2 lm/m) | | | |
| | | | 3500K | 87 | 244.7 lm/ft (802.6 lm/m) | | | |
| | | | 4000K | 97 | 268.2 lm/ft (879.7 lm/m) | | | |
| | | | 6000K | 94 | 263.1 lm/ft (862.9 lm/m) | | | |
| | | | Red | 26 | 73.5 lm/ft (241.1 lm/m) | | | |
| | | | Green | 83 | 243.8 lm/ft (799.9 lm/m) | | | |
| | | | Blue | 17 | 52.8 lm/ft (173.2 lm/m) | | | |
| | | | Amber | 17 | 51.7 lm/ft (169.6 lm/m) | | | |
| | | | Violet | 1 | 1.4 lm/ft (4.5 lm/m) | | | |

DIODE VISIBILITY CHART (Data below applies to installations with Milky lens only)

| | | | |
|-------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------|-------------------------------|
|  | No Visible Diode = N |  | With Visible Diode = Y |
| Static White & Static Color Micro RibbonLyte | | | |
| 1.0 | 3.0 | 4.5 | |
| IP20 IP65 | IP20 IP65 | IP20 IP65 | |
| N | N | N | |

AVAILABLE DRIVERS / CONTROLLERS AND DIMMING OPTIONS / WIRE GAUGE CHART

NON-DIMMING ELECTRONIC DRIVERS

ELV & MLV DRIVERS



**30W, 60W, 96W
Non-Dimming Electronic
Class 2 Drivers**

- Part No.:
- DRVW2430 (30 Watt)
 - DRVW2460 (60 Watt)
 - DRVW2496 (96 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.:
- DRVW24240 (240 Watt)
 - DRVW24320 (320 Watt)

Output Voltage: 24 V
Voltage Range: 90-305 VAC
IP Rating: Dry or Damp
UL Recognized



**60W, 96W, 150W, 300W
ELV/MLV Dimmable Drivers**

- Part No.:
- DRVW2460ELVMLV (60 Watt)
 - DRVW2496ELVMLV (96 Watt)
 - DRVW24150ELVMLV (150 Watt)
 - DRVW24300ELVMLV (300 Watt)

Line Voltage Dimmable Drivers
Output Voltage: 24 V
Voltage Range: 100-277 VAC
IP Rating: IP67
Dimmable
UL, CE, and CSA Listed

0-10V DRIVERS AND DIMMERS



0-10V Dimmable Waterproof Drivers

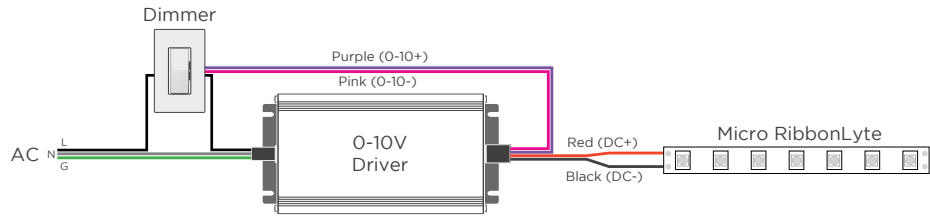
- 96W** Part No.: DRVW249610P
288W Part No.: DRVW2428810P
Output Voltage: 24 V (+/- 0.5V)
Voltage Range: 100-277 VAC
Environmental Rating: UL Wet Location
UL Listed

DRIVER AND RIBBONLYTE AT FULL LOAD

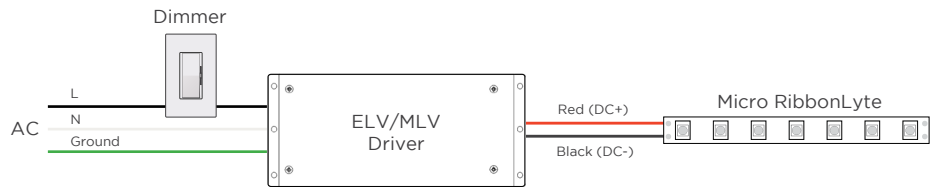
| Wattages | 30 | | 60 | | 96 | | 150 | | 200 | | 240 | | 300 | | 320 | |
|----------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters | Feet | Meters |
| 24 AWG | 14 | 4.27 | 9 | 2.74 | 5.5 | 1.68 | 3.75 | 1.14 | 2.75 | 0.84 | 2.25 | 0.69 | 1.75 | 0.53 | 1.75 | 0.53 |
| 22 AWG | 22 | 6.71 | 14 | 4.27 | 9 | 2.74 | 5.75 | 1.75 | 4.5 | 1.37 | 3.5 | 1.07 | 2.75 | 0.84 | 2.75 | 0.84 |
| 20 AWG | 35 | 10.67 | 23 | 7.01 | 14 | 4.27 | 9 | 2.74 | 7 | 2.13 | 5.75 | 1.75 | 4.5 | 1.37 | 4.25 | 1.30 |
| 18 AWG | 56 | 17.07 | 37 | 11.28 | 23 | 7.01 | 15 | 4.57 | 11 | 3.35 | 9 | 2.74 | 7.5 | 2.29 | 7 | 2.13 |
| 16 AWG | 90 | 27.44 | 60 | 18.29 | 37 | 11.28 | 24 | 7.32 | 18 | 5.49 | 15 | 4.57 | 12 | 3.66 | 11 | 3.35 |
| 14 AWG | 142 | 43.29 | 95 | 28.96 | 59 | 17.99 | 38 | 11.59 | 28 | 8.54 | 23 | 7.01 | 19 | 5.79 | 17 | 5.18 |
| 12 AWG | 226 | 68.90 | 151 | 46.04 | 94 | 28.66 | 60 | 18.29 | 45 | 13.72 | 37 | 11.28 | 30 | 9.15 | 28 | 8.54 |
| 10 AWG | 360 | 109.76 | 240 | 73.17 | 150 | 45.73 | 96 | 29.27 | 72 | 21.95 | 60 | 18.29 | 48 | 14.63 | 45 | 13.72 |
| 8 AWG | 574 | 175.00 | 381 | 116.16 | 239 | 72.87 | 153 | 46.65 | 115 | 35.06 | 95 | 28.96 | 76 | 23.17 | 71 | 21.65 |

WIRING DIAGRAM

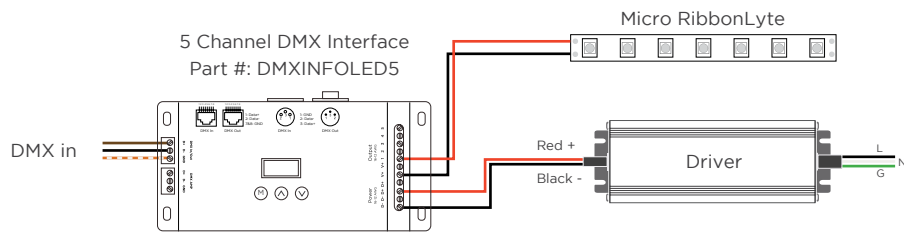
0-10V



MLV / ELV



DMX



WIRE COLORS PER RIBBONLYTE COLOR

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