120 V STATIC WHITE DIRECT AC RIBBONLYTE

GENLED Acolyte® Static White Direct AC RibbonLyte extends up to 164 ft on a single run with no drivers - perfect for long coves and other large spaces. It is factory cuttable every 4 inches, compared to many competitors which are only cuttable every 1.5 feet.

- Directly input 120 Volts AC
- Max run length: 164 ft (50 m)
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K and 6000K. Other color temperatures may be available. Consult Factory.
- Factory cuttable every 4" (101.6 mm)
- 90+ CRI
- IP65
- Dimmable with Lutron Phase - Adaptive Power Module PHPM - WBX paired with Lutron 3-wire or Lutron 2-wire 0-10V dimmer
- Sold with AC plug or bare wire input (see page 3)
- Mounting clips included

Applications:

Commercial	Hospitality	Residential
Entertainment	Museums	Retail
Healthcare	Public Spaces	

ETL · RoHS · IP65

ORDERING GUIDE

Category	CRI	Ribbon Type & IP Rating	Wattage + Color	
RB	**90**	**AC12065**		
RB - RibbonLyte	90 - 90+ CRI Static White	AC12065 - Direct AC 120V IP65	**4.024** - 4.0 2400K	**4.040** - 4.0 4000K
			4.027 - 4.0 2700K	**4.050** - 4.0 5000K
			4.030 - 4.0 3000K	**4.060** - 4.0 6000K
			4.035 - 4.0 3500K	

Connection Options:

RBAC2MI - 2 meter cable to bare wire

RBAC2MM6MI - 2 meter cable to male connector + 6 meter cable to bare wire

RBAC2MMI - 2 meter cable to male connector (for daisy-chain use with 2MO output cable)

RBAC15CMI - 15cm cable to male connector (for daisy-chain use with 15CO output cable)

RB2MAC - 2 meter cable to AC Plug

**RBAC6CJ** - 6 cm jumper cable

Included Accessories:

Mounting Clip (1 clip per linear foot)

Optional Accessories:

Waterproof Cable Connector
(Part No.: COUPW683WH) See page 4 for instruction

MAESTRO 3-wire Dimmer (Part No.: RBACDIMMAES)

Diva 3-wire Dimmer (Part No.: RBACDIMDIVA)

NOVAT 3-wire Dimmer (Part No.: RBACDIMNOVAT)

Phase Adaptive power Module (Part No.: RBACPHPM1203W)

0-10V Adapter (Part No.: RBACDIM010ADPT)

Diva 0-10V Dimmer (Part No.: RBACDIMDIVA010)

Nova T 0-10V Dimmer (Part No.: LVDIMNOVA)

AVAILABLE COLOR TEMPERATURES

2400K	2700K	3000K	3500K

4000K	5000K	6000K
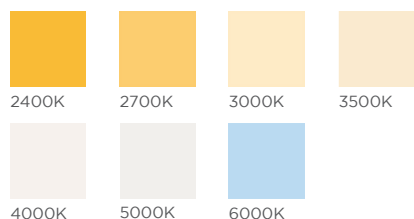
SPECIFICATIONS / DIMENSIONS / CHANNEL COMPATIBILITY

SPECIFICATIONS	120 V STATIC WHITE DIRECT AC RIBBONLYTE						
Operating Voltage	120 VAC						
Power Consumption	4 W/ft (13.1 W/m)						
Current (mA) - 24V	33 mA/ft (108.2 mA/m)						
LED Pitch	18 LEDs/ft (60 LEDs/m)						
Protection Rating	IP65						
Dimming	Dimmable with Lutron Phase - Adaptive Power Module PHPM - WBX paired with Lutron 3-wire or Lutron 2-wire 0-10V dimmer. Use with 0-10V dimmer requires 0-10V adapter shown on pages 6 and 8						
Ambient Temperature	-4˚F -113˚F (-20˚C - 45˚C)						
Color Temperatures	2400K	2700K	3000K	3500K	4000K	5000K	6000K
Lumens	265.1 lm/ft (869.8 lm/m)	274.5 lm/ft (900.5 lm/m)	291.4 lm/ft (956.0 lm/m)	311.1 lm/ft (1020.8 lm/m)	308.4 lm/ft (1012.0 lm/m)	307.1 lm/ft (1007.7 lm/m)	314.2 lm/ft (1031.0 lm/m)
MacAdam's Ellipses (SDCM)	2-Step Binning						
LED Beam Angle	120°						
Cuttable Length	Every 4 in (101.6 mm) Please account for the 0.5 in. / 12.7 mm RibbonLyte inside of the power feed cap and end cap when calculating the total run length (add 1 in. / 2.54 mm for each run). See next page for details.						
CRI - All Color Temp	90+ CRI						
Lumens/Watt	65.2 lm/W	67.6 lm/W	71.2 lm/W	76.6 lm/W	75.6 lm/W	75.2 lm/W	76.2 lm/W
Cable Length	2 meter Cable to Bare Wire: 6.5 ft (2 m); 2 meter Cable to Male Connector: 6.5 ft (2 m); 6 meter Cable to Bare Wire with Female Connector: 6.5 ft (2 m); 2 meter Cable to Female Connector: 6.5 ft (2 m); 6 meter Cable to Bare Wire with Female Connector: 6.5 ft (2 m); 15 cm Cable to Female Connector: 5.9 in (15 cm); 15 cm Cable to Bare Wire with Female Connector: 5.9 in (15 cm); 2 meter Cable to AC Plug: 6.5 ft (2 m) 6 cm cable molded end cap to molded end cap jumper (2.4")						
Certifications	ETL Listed						
TM-21 Projection - L70 (10K) LED Lifetime	> 60,000 hours at 85° C						

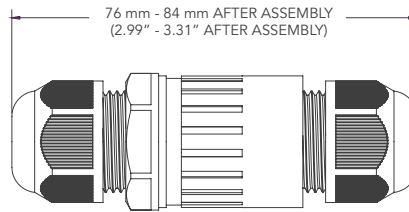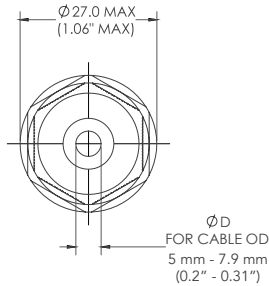| Dimensions	DIRECT AC RIBBONLYTE	MOUNTING CLIP (including 2 clips per foot)
Width	0.62 in / 16 mm (end cap and cable grip width: 0.75 in / 20 mm)	0.8 in / 20.32 mm
Length	164 ft (50 m) - max length. Factory cuttable every 4 in (101.6 mm)	0.43 in / 10.92 mm
Height	0.21 in (5.3 mm)	0.48 in / 12.19 mm

DIAGRAMS

Power Feed Cap & End Cap Dimensions

Top View

Power Feed Cap

0.5" (12.7 mm)

End Cap

0.5" (12.7 mm)

1.2" (30.48 mm)

1.2" (30.48 mm)

Please account for the 0.5 in. RibbonLyte inside of the power feed cap and end cap when calculating the total run length. (add 1 in. / 25.4 mm for each run)

2.5" (63.5 mm)

1.2" (30.48 mm)

Width of End Cap: 1.2 in (30.48 mm)
Length of End Cap: 1.2 in (30.48 mm)
Height of End Cap: 0.57 in (14.5 mm)

Side View

0.57" (14.5 mm)

0.21" (5.3 mm)   0.57" (14.5 mm)

Height of RibbonLyte: 0.21 in (5.3 mm)
Width of Power Feed Cap: 1.2 in (30.48 mm)
Length of Power Feed Cap: 2.5 in (63.5 mm)
Height of Power Feed Cap: 0.57 in (14.5 mm)

Power Feed Options

Power Feed Option 1

78.74" (2 m)

2-meter Direct AC molded end cap to bare wire
Part Number: RBAC2MI
2-Meter Cable to Bare Wire: 6.5 ft (2 m)

Power Feed Option 2

78.74" (2 m)

Male Connector (output)

0.89" (22.6 mm)

1.8" (45.7 mm)

2-meter Direct AC molded end cap to male connector
Part Number: RBAC2MMI
2-Meter Cable to Male Connector: 6.5 ft (2 m)
Male Connector Length: 1.8 in (45.7 mm)
Male Connector Diameter: 0.89 in (22.6 mm)

Female Connector (input)

19.7' (6 m)

0.7" (17.8 mm)

1.8" (45.7 mm)

6-meter Direct AC female connector to bare wire
Part Number: RBAC6MI
Female Connector Length: 2.5 in (63.5 mm)
Female Connector Diameter: 0.89 in (22.6 mm)
6-Meter Cable to Bare Wire with Female Connector: 6.5 ft (2 m)

Power Feed Option 3

78.74" (2 m)

Female Connector (output)

0.7" (17.8 mm)

1.8" (45.7 mm)

2-meter Direct AC molded end cap to female connector (for daisy chains)
Part Number: RBAC2MFO
2-Meter Cable to Female Connector: 6.5 ft (2 m)
Female Connector Length: 2.5 in (63.5 mm)
Female Connector Diameter: 0.89 in (22.6 mm)

Male Connector (input)

78.74" (2 m)

0.89" (22.6 mm)

1.8" (45.7 mm)

2-meter Direct AC molded end cap to male connector
Part Number: RBAC2MMI
Male Connector Length: 1.8 in (45.7 mm)
Male Connector Diameter: 0.89 in (22.6 mm)
6-Meter Cable to Bare Wire with Female Connector: 6.5 ft (2 m)

Power Feed Option 4

5.9" (15 cm)

Female Connector (output)

0.7" (17.8 mm)

1.8" (45.7 mm)

15cm Direct AC molded end cap to female connector (for daisy chains)
Part Number: RBAC15CFO
15 cm Cable to Female Connector: 5.9 in (15 cm)
Female Connector Length: 2.5 in (63.5 mm)
Female Connector Diameter: 0.89 in (22.6 mm)

Male Connector (input)

5.9" (15 cm)

0.89" (22.6 mm)

1.8" (45.7 mm)

15cm Direct AC molded end cap to male connector
Part Number: RBAC15CMI
Male Connector Length: 1.8 in (45.7 mm)
Male Connector Diameter: 0.89 in (22.6 mm)
15 cm Cable to Bare Wire with Female Connector: 5.9 in (15 cm)

Power Feed Option 5

2.48" (63 mm)

78.74" (2 m)

1.26" (32 mm)

2-meter Direct AC molded end cap to AC plug
Part Number: RB2MAC
2-Meter Cable to AC Plug: 6.5 ft (2 m)
AC Plug Length: 2.48 in (63 mm)
AC Plug Width: 1.26 in (32 mm)

Power Feed Option 6

2.4" (6 cm)

6 cm cable molded end cap to cable molded end cap jumper
Part Number: RBAC6CJ
Jumper cable length: 2.4" (6 cm)

SPECIFICATIONS

We provide 2m and 8m power feed solutions. If additional length is needed, use the cable coupler.
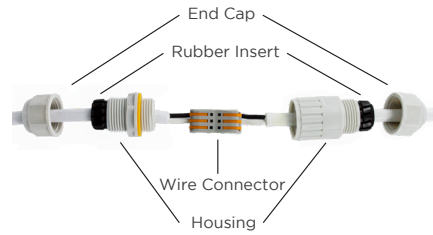**Part No. :** COUPW683WH

Dimensions (Part Number: COUPW683WH)

⌀ 27.0 MAX
(1.06" MAX)

⌀ D
FOR CABLE OD
5 mm - 7.9 mm
(0.2" - 0.31")

76 mm - 84 mm AFTER ASSEMBLY
(2.99" - 3.31" AFTER ASSEMBLY)

The Connector	Exploded View of the Connector
Length: 2.99" - 3.31" After Assembly) **Diameter**: 1.06" MAX	End Cap Rubber Insert Wire Connector Housing

Step 1	Step 2
Assemble cable from one end of the connector as shown above.	Assemble cable from other end of the connector as shown above. Make sure the wires go to their corresponding terminals (e.g. wire color matches to each other).

Step 3	Step 4
Tighten two housings together and insert the rubber parts at the housing ends.	Tighten two end caps.

USAGE GUIDELINES:

- **IP65 RibbonLyte are not field cuttable. All custom cuts and connections for these models must be performed at the factory to ensure waterproofing standards are met. Any modification of this on the field or by end user will result in a voided warranty.**
- **When installing this product take into account the surface temperature of the material this product is mounted to. Many building surfaces exceed the 45° C / 113° F maximum that our product is rated for. High-risk locations like this should be avoided. Avoid direct sunlight.**
- **This product is not intended to be submerged in pools and fountains and do not carry UL676 certification to do so.**

- Please refer to our RibbonLyte Proper Use Guide in our *Application Guide* for more information. Available for download at www.**GEN**LEDBrands.com/Acolyte
- Compatible with a wide variety of control products including the entire line of Lutron dimming systems.
- For use with **GEN**LED Acolyte® drivers, 0-10V dimming modules and interface controllers (DMXINF models).
- Use with non-**GEN**LED Acolyte® supplied Triac, MLV or ELV drivers is not supported or warrantied.
- Due to the nature of the product, RibbonLyte cuttable lengths are generally longer or shorter than the customer requested length. Unless specified, RibbonLyte is factory cut at the shorter cuttable point.
- We reserve the right to make changes to product lineup, specifications, design and finishes at any time without notice.

AVAILABLE CONTROLLERS

LUTRON DIVA 3-WIRE DIMMER

Part No.: RBACDIMDIVA

Width: 2.94 In (75 Mm)
Length: 4.69 In (120 Mm)
Depth: 0.30 In (7.6 Mm)

• Use with Lutron Phase - Adaptive Power Module
• Large paddle switch with a captive linear-slide dimmer
• Available in white finish

* Requires Lutron Adaptive Power Module
  (Shown Below)

LUTRON NOVA-T 3-WIRE DIMMER

Part No.: RBACDIMNOVAT

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
• Available in white finish

* Requires Lutron Adaptive Power Module
  (Shown Below)

LUTRON MAESTRO 3-WIRE DIMMER

Part No.: RBACDMIMMAES

Width: 2.94 in (75 mm)
Length: 4.69 in (120 mm)
Depth: 0.30 in (7.6 mm)

• Use with Lutron Phase Adaptive Power Module
• Large paddle switch with a captive linear-slide dimmer
• Available in white finish

* Requires Lutron Adaptive Power Module
  (Shown Below)

LUTRON DIVA 0-10V DIMMER

Part No.: RBACDIMDIVA010

Width: 2.94 in (75 mm)
Length: 4.69 in (120 mm)
Depth: 0.30 in (7.6 mm)

• Compatible with 0-10 V Dimming Module
• Large paddle switch with a captive linear-slide dimmer
• Available in white finish

* Requires Lutron Adaptive Power Module and
  0-10V Adapter (Both Shown Below)

LUTRON NOVA-T 0-10V DIMMER

Part No.: LVDIMNOVA

Width: 2.75 in (70 mm)
Length: 4.56 in (116 mm)
Depth: 0.30 in (7.6 mm)

• Compatible with 0-10 V dimming module
• Slide adjusts brightness and on/off control
• Available in white finish

* Requires Lutron Adaptive Power Module and
  0-10V Adapter (Both Shown Below)

LUTRON ADAPTIVE POWER MODULE

Part No.: RBACPHPM1203W

Width: 6.30 In (160 Mm)
Length: 5.10 In (130 Mm)
Depth: 2.60 In (62 Mm)

• Use for 3-wire fluorescent dimmers
• Load current capacity up to 16A
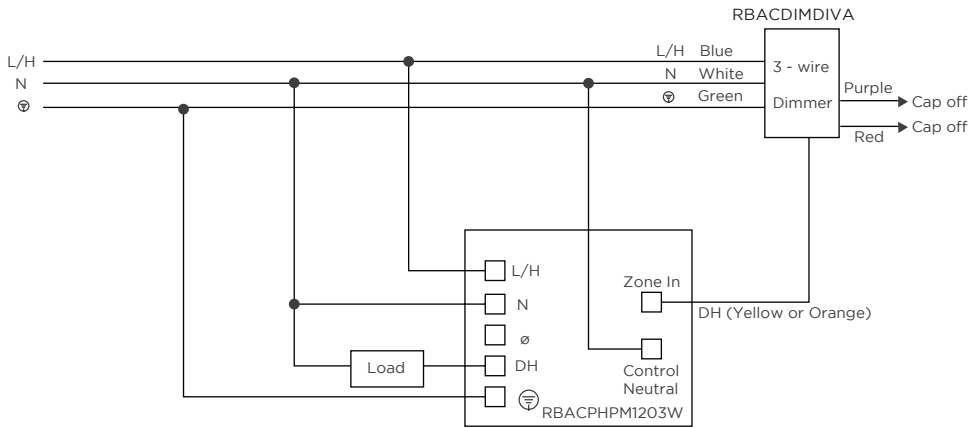• Available in White finish

0-10V ADAPTER

Part No.: RBACDIM010ADPT

Width: 9.51 in (241 mm)
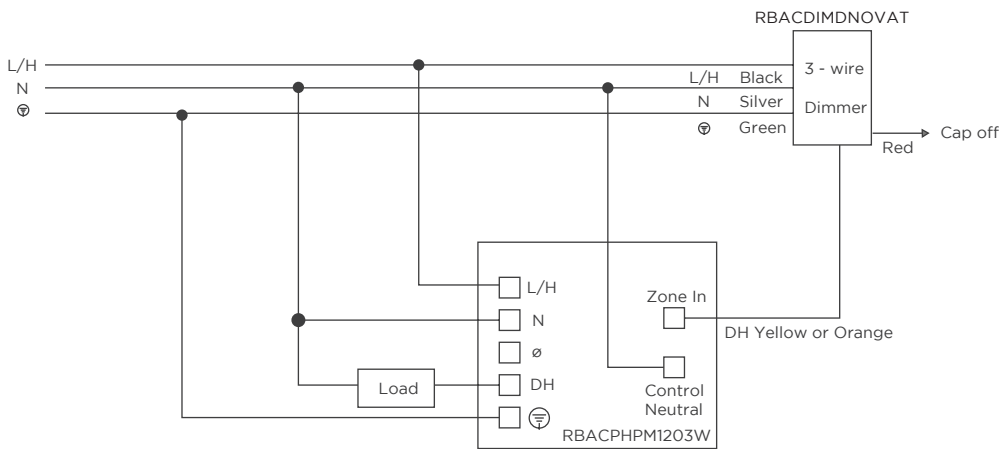Length: 2.38 in (60 mm)
Height: 1.50 in (38 mm)

• Capable of interfacing 0–10 V controllers to Lutron
  3-wire dimmable ballasts, drivers, or interfaces
• Controls up to 16A of Lutron 3-wire dimmable
  ballasts, drivers, or interfaces
• Must be used in conjunction with Lutron Adaptive
  Power Module shown at left and with one of the two
  0-10V dimmers shown above

GEN LED acolyte®
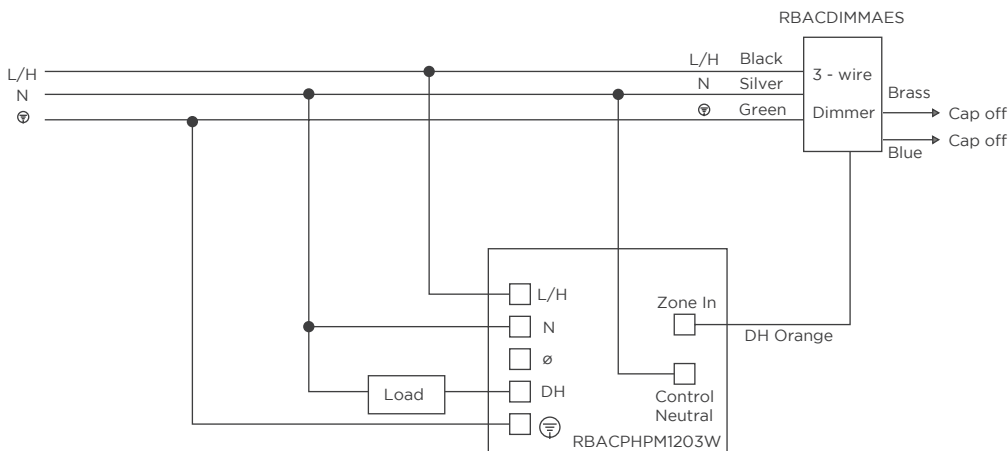Architectural Lighting Solutions

DIMMING SYSTEM WIRING DIAGRAM

ADAPTIVE POWER MODULE (RBACPHPM1203W) WITH 3-WIRE DIVA DIMMER (RBACDIMDIVA)

RBACDIMDIVA

L/H   Blue
N   White   3 - wire
⏚   Green   Dimmer   Purple → Cap off
                                Red → Cap off

L/H
N
⏚

L/H
N
ø
DH
⏚
Load
RBACPHPM1203W

Zone In
DH (Yellow or Orange)
Control Neutral

LEGEND

L/H - Line/Hot

N - Neutral

Ø - Not Used

DH - Dimmed Hot

SH - Switched Hot

⏚ **-** Ground

ADAPTIVE POWER MODULE (RBACPHPM1203W) WITH 3-WIRE NOVA T DIMMER (RBACDIMNOVAT)

RBACDIMDNOVAT

L/H   Black   3 - wire
N   Silver   Dimmer
⏚   Green   Cap off
                   Red

L/H
N
ø
DH
⏚
Load
RBACPHPM1203W

Zone In
DH Yellow or Orange
Control Neutral

ADAPTIVE POWER MODULE (RBACPHPM1203W) WITH 3-WIRE MAESTRO DIMMER (RBACDMIMMAES)

RBACDIMMAES

L/H   Black   3 - wire
N   Silver   Dimmer   Brass → Cap off
⏚   Green   Blue → Cap off

L/H
N
ø
DH
⏚
Load
RBACPHPM1203W
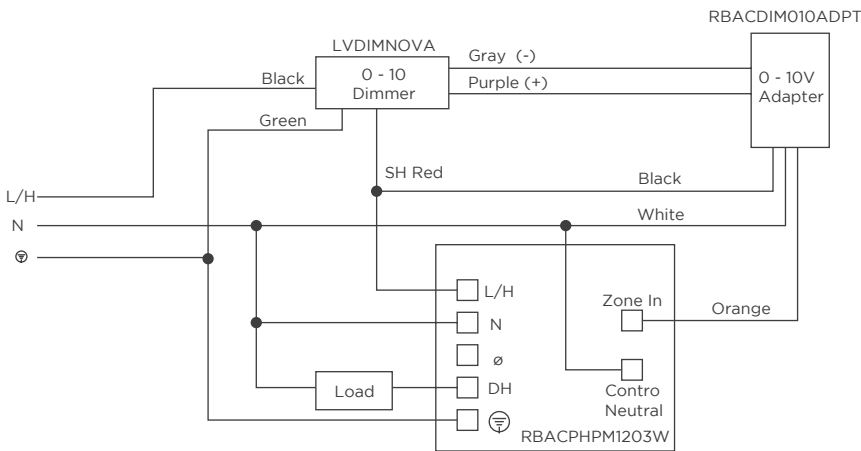
Zone In
DH Orange
Control Neutral

• Please reference Page 6 for more controller details.

DIMMING SYSTEM WIRING DIAGRAM

ADAPTIVE POWER MODULE (RBACPHPM1203W) CONTROL FROM 0-10 DIMMER (RBACDIMDIVA010) THROUGH A 0-10V ADAPTER (RBACDIM010ADPT)
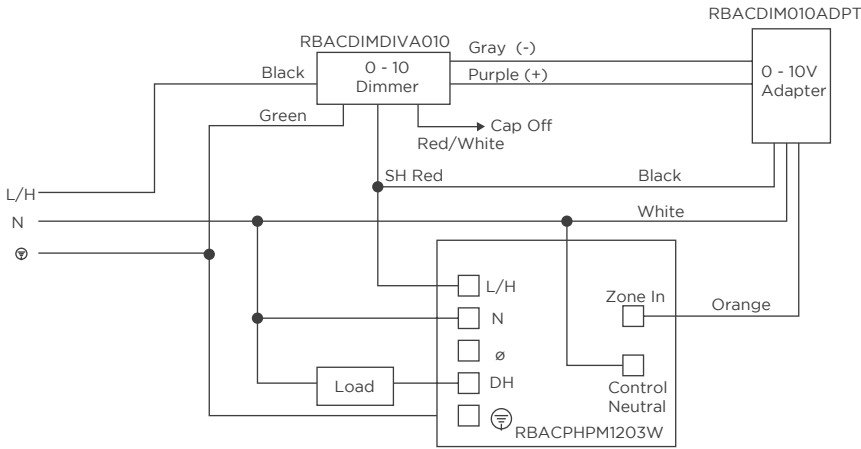
ADAPTIVE POWER MODULE (RBACPHPM1203W) CONTROL FROM 0-10V DIMMER (LVDIMNOVA) THROUGH A 0-10V ADAPTER (RBACDIM010ADPT)

• **Please reference Page 6 for more controller details.**

LEGEND

L/H - Line/Hot

N - Neutral

Ø - Not Used

DH - Dimmed Hot

SH - Switched Hot

⊕ **-** Ground

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