

WAC ARCHITECTURAL

Volta

Static White - 4.5" Shallow Regressed Downlight

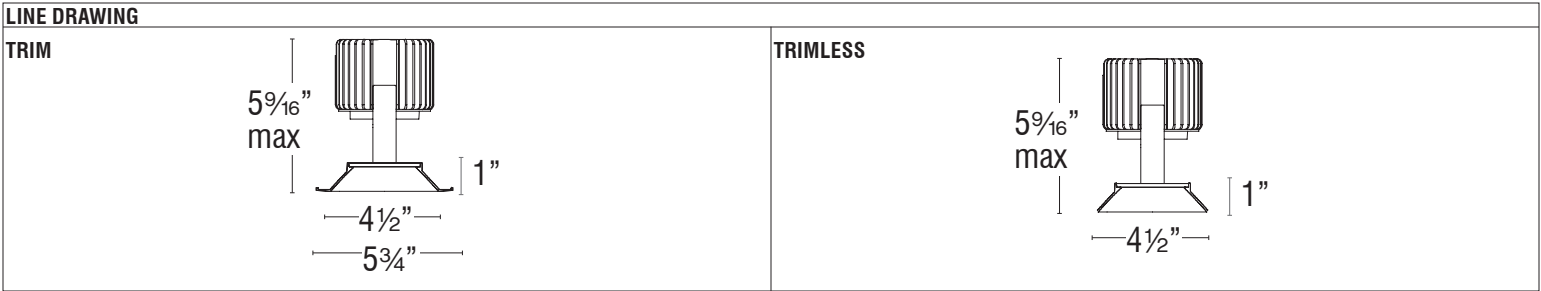
R4RD1T | R4RD1L | R4SD1T | R4SD1L

Fixture Type:

Project:

Catalog#:

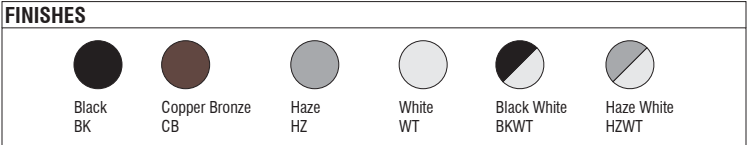
Location:



PRODUCT DESCRIPTION

Volta LED downlight series represents an innovation in design and technology for architectural lighting. This high lumen and adaptable family of fixtures with a comprehensive set of round and square fittings, affords a sustainable solution for commercial, corporate, and upscale residential applications. A built-in field selectable light engine height allows for a cut-off angle adjustment of 32-40°.

SPECIFICATIONS	
Construction:	Durable die-cast self flanged aluminum construction
Mounting:	Heavy gauge retention clips support trim firmly Ceiling cut out (Round): Trim $\varnothing 5\frac{1}{8}"$ $\bigcirc$ Trimless $\varnothing 5\frac{1}{8}"$ $\bigcirc$ Ceiling cut out (Square): Trim $5\frac{1}{8}" \times 5\frac{1}{8}"$ $\square$ Trimless $5\frac{1}{8}" \times 5\frac{1}{8}"$ $\square$ Accommodates ceiling thickness of 1/2" - 1 1/2"
Light Source:	High output 3-step Mac Adam Ellipse COB Rated life of 50,000 hours at L70
Input:	Universal 120-277V AC, 50/60 Hz
Dimming:	0-10V: 100-0% Electronic Low Voltage (ELV): 100-5%
Maximum Delivered Intensity:	Up to 12,080 cd (Round Spot 15°, 4000K, CRI 85)
Maximum Delivered Output:	Up to 3,622 lm (Square Narrow Flood 25°, 4000K, CRI 85)
Standards:	ETL & cETL Wet location listed, Title 24 JA8 Compliant
Warranty:	5 year WAC Lighting guaranteed warranty



		Ref Output*						
Model		Beam	Lumens	CBCP	Lumens/Watt	Color Temp	CRI	
R4RD1T R4RD1L	Round	S 15°	Round	1415	11290	66	827 - 2700K 830 - 3000K 835 - 3500K 840 - 4000K	85
			Square	1450	9650	67		
	Square	N 25°	Round	3160	9655	93		
			Square	3385	8760	100		
R4SD1T R4SD1L	Round	F 45°	Round	3035	5070	89	927 - 2700K 930 - 3000K	90
			Square	3290	4880	97		
	Square	W 60°	Round	2925	3065	87		
			Square	3125	3030	92		

Lumens and CBCP are reference values for 3000K Color Temperature and 85 CRI with 36 housing. Refer to Multiplier Table in Performance Data to determine other outputs.

wacarchitectural.com | WAC Architectural, a WAC Group brand.

WAC Group Headquarters
44 Harbor Park Drive
Port Washington, NY 11050

WAC Architectural
Phone (800) 526.2588
Fax (800) 526.2585



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WAC GROUP

WAC Group retains the right to modify the design of our products at any time as part of the company's continuous improvement program.

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R4RD1T | R4RD1L | R4SD1T | R4SD1L

Fixture Type: _____

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ORDERING INFORMATION

CONFIGURATION TABLE				
Model & Power	Beam	Color Temperature & CRI	Reflector Finish	Trim Finish
R4RD1T R4SD1T R4RD1L R4SD1L	S: Spot - 15°	827 - 2700K - 85	BK - BLACK	WT - WHITE
	N: Narrow Flood - 25°	830 - 3000K - 85	CB - COPPER	
	F: Flood - 45°	835 - 3500K - 85	HZ - HAZE	
	W: Wide Flood - 60°	840 - 4000K - 85	WT - WHITE	
		927 - 2700K - 90		
		930 - 3000K - 90		

R4RD1T-____-__ Example: R4RD1T-N840-WT

HOUSINGS (Required)								
Model	Trim	Power	S	N,F,W	Rating	Driver		Emergency Backup
New Construction IC Airtight R4RN (Round) R4SN (Square)	T Trim	15	10W	15W	IC	DEFAULT	ELV, 0-10V	EM
	L Trimless	25	15W	23W	IC			
		36	22W	34W	Non-IC			
New Construction IC Airtight Chicago Plenum R4RC (Round) R4SC (Square)	T Trim	15	10W	15W	IC	DEFAULT	ELV, 0-10V	EM
	L Trimless	25	15W	23W	IC			
		36	22W	34W	Non-IC			
Remodel Non-IC Round or Square R4BR	T Trim	15	10W	15W	Non-IC	DEFAULT	ELV, 0-10V	N/A
		25	15W	23W	Non-IC			
		36	22W	34W	Non-IC			
Remodel Non-IC R4RR (Round) R4SR (Square)	L Trimless	15	10W	15W	Non-IC	DEFAULT	ELV, 0-10V	N/A
		25	15W	23W	Non-IC			
		36	22W	34W	Non-IC			

ACCESSORIES			
LENS-73-HLD	Accessory Holder	LENS-73-GRN	Green Lens
LENS-73-HCM	Honeycomb Louver	LENS-73-RED	Red Lens
LENS-73-CRL	Cross Louver	LENS-73-FR	Frosted Lens
LENS-73-SNOOT	Snoot	LENS-73-SPR	Spread Lens
LENS-73-AMB	Amber Lens	LENS-73-BEL	Beam Elongating Lens
LENS-73-BLU	Blue Lens		

FIELD REPLACEABLE DRIVER	
D-R4N-15	Driver for 15W New Construction Housing
D-R4N-25	Driver for 23W New Construction Housing
D-R4N-36	Driver for 34W New Construction Housing

INTERCHANGEABLE REFLECTORS	
REF-R4-N	Narrow Flood Beam
REF-R4-F	Flood Beam
REF-R4-W	Wide Beam

ORDERING NOTES	
1.	The “White” trim finish is only available with the reflector finishes “Black” and “Haze”.
2.	Trimless fixtures cannot be ordered with a trim finish.
3.	The “Spot - 15°” beam angle is available in 10W, 15W, and 22W.
4.	The “Narrow Flood - 25°”, “Flood - 45°”, “Wide Flood - 60°” beam angles are available in 15W, 23W, and 34W.

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FEATURES

Optics: • 2" lens regress for superior glare control • Field selectable light engine height for cut-off angle adjustment (30°-34°) and accessory use	Construction: • Durable die-cast self flanged aluminum construction • Heavy gauge retention clips support trim firmly
LED: • High output COB LED with a 3-step Mac Adam ellipse • Rated operational life of 50,000 hours at L70 (LED maintains 70% of its initial delivered lumens when brand new for 50,000 hours of use.)	Trim and Reflector: • Integral patterned tempered trim lens included standard with every fixture • Dual finished fixtures are a single piece with no physical seams
Electrical: • Volta is compatible with 120-277 VAC, 50/60 Hz • Housings are available in 10W, 15W, and 23W if using a Spot Beam. If using a Narrow, Flood, or Wide beam, the housings are available in 15W, 23W, and 34W.	Installation: • Requires housing for installation • New Construction housings for these fixtures are IC rated based on power level. The 36 power level (44W) is non-IC rated • All Remodel housings are non-IC rated
Dimming: • Electronic Low Voltage (ELV) dimming is capable of a 100 - 5% range • 0-10V dimming is capable of a 100 - 0% range	Warranty: • WAC Architectural limited warranty up to 5 years • Full warranty found at: waclighting.com/warranty
Notes: • Trim and trimless fixtures of the same shape (Round/Square) have the same performance. Minor variations occur due to fixture shape. • The White and Black finishes are powder coated while the Haze is enamel coated and the Copper Bronze is plated and brushed. • The Volta product family is compatible with a wide range of accessories.	

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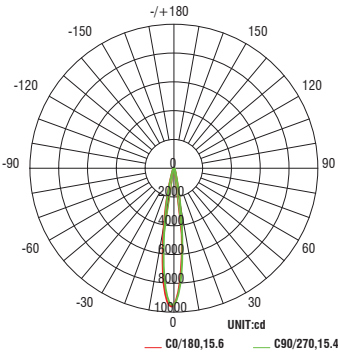
PERFORMANCE DATA

Polar Candela Distribution Charts

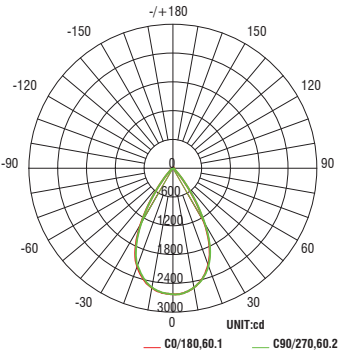
Samples shown with a 22W/34W (depending on beam angle) fixture set to 3000K and 90 CRI.

ROUND

Spot Beam: 15° Beam

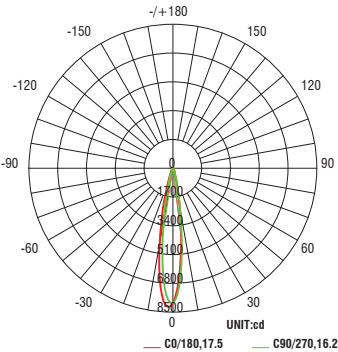


Wide Flood Beam: 60° Beam

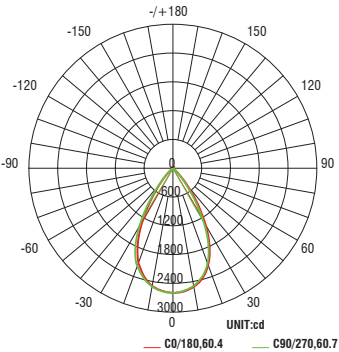


SQUARE

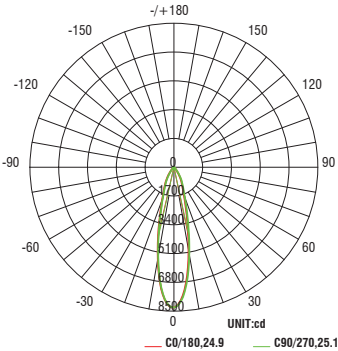
Spot Beam: 15° Beam



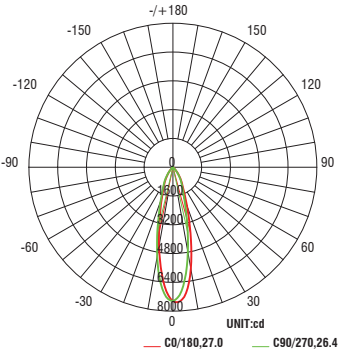
Wide Flood Beam: 60° Beam



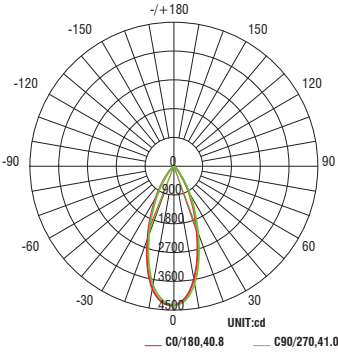
Narrow Flood Beam: 25° Beam



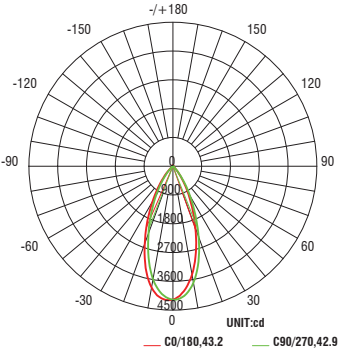
Narrow Flood Beam: 25° Beam



Flood Beam: 45° Beam



Flood Beam: 45° Beam



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R4RD1T | R4RD1L | R4SD1T| R4SD1L

Fixture Type:

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Catalog#:

Location:

PERFORMANCE DATA

Unified Glare Rating (UGR) Table

UGR values shown are calculated at 3000K and 90 CRI.

Round Fixture	Angle	UGR Range	Square Fixture	Angle	UGR Range
Spot	15°	≤15	Spot	15°	≤17
Narrow Flood	25°	≤11	Narrow Flood	25°	≤13
Flood	45°	≤12	Flood	45°	≤12
Wide Flood	60°	≤14	Wide Flood	60°	≤15

Lumens and CBCP Multiplier Table

Use the below table to determine lumens and CBCP values for the combinations of power, color temperature, and CRI values.

Multiplier		TRIM					
		827	927	830	930	835	840
HOUSING	36	0.95	0.81	1.00	0.86	1.05	1.07
	25	0.66	0.56	0.69	0.59	0.73	0.74
	15	0.43	0.37	0.45	0.39	0.48	0.49

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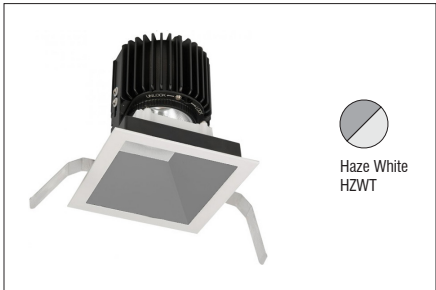
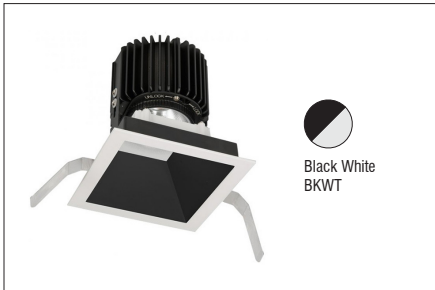
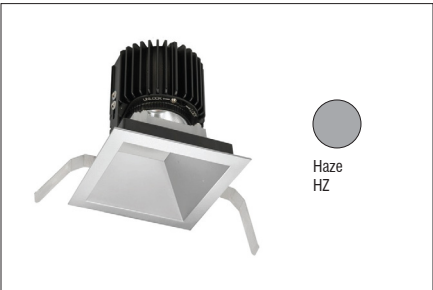
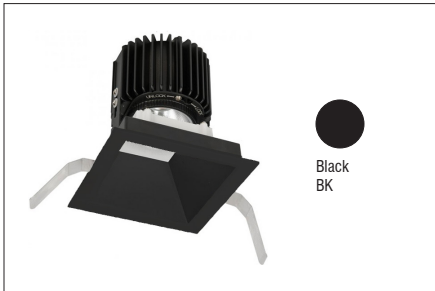
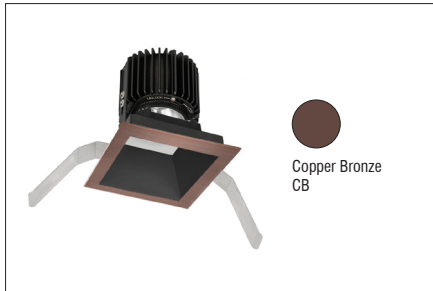
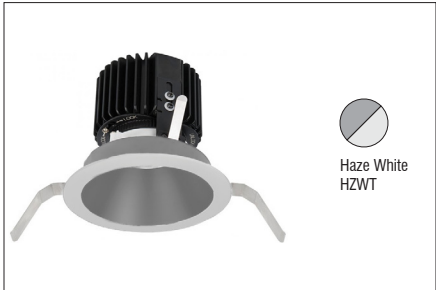
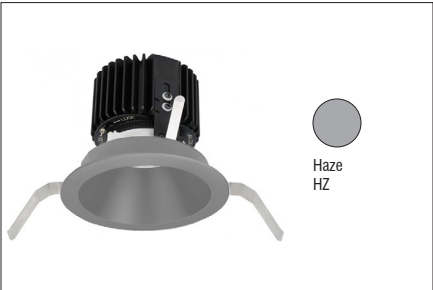
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TRIM AND HOUSING COLOR OPTIONS



ROUND TRIM

SQUARE TRIM

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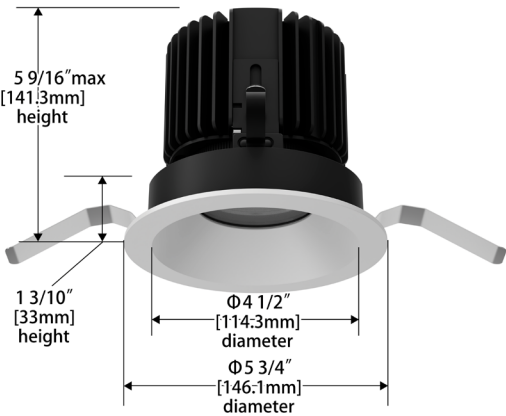
Project: _____

Catalog#: _____

Location: _____

DIMENSIONAL DIAGRAMS

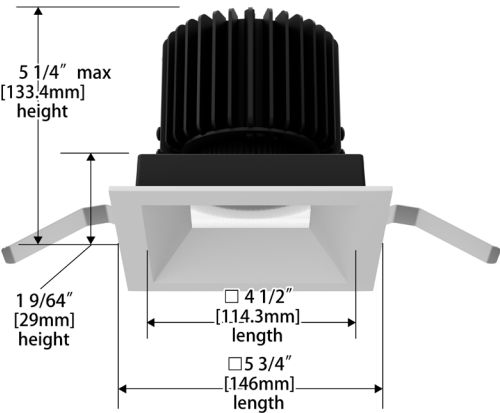
Round Trim (R4RD1T)



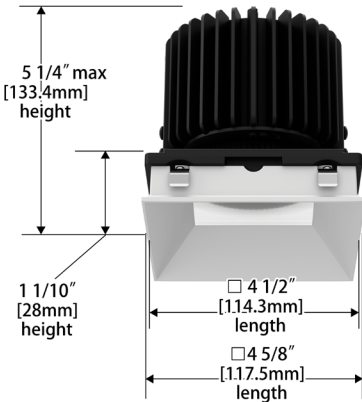
Round Trimless (R4RD1L)



Square Trim (R4SD1T)



Square Trimless (R4SD1L)



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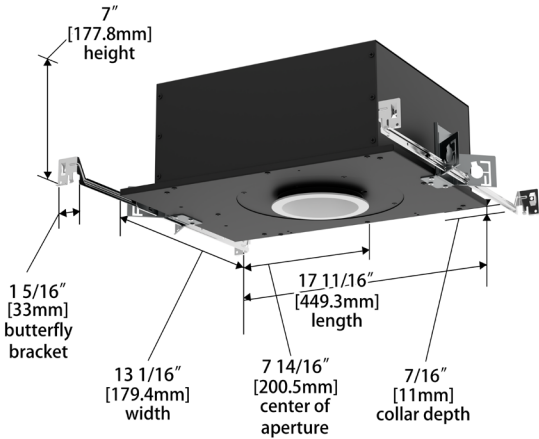
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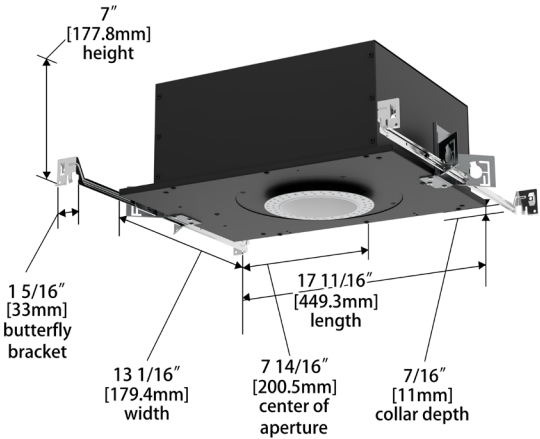
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DIMENSIONAL DIAGRAMS

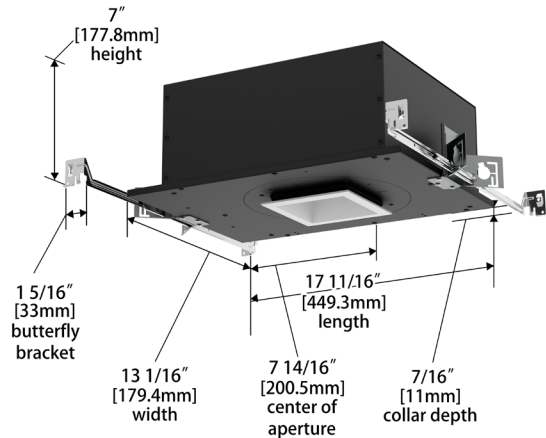
New Construction - Round Trim



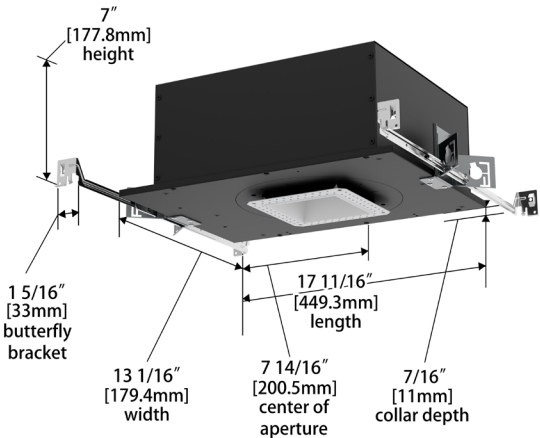
New Construction - Round Trimless



New Construction - Square Trim



New Construction - Square Trimless



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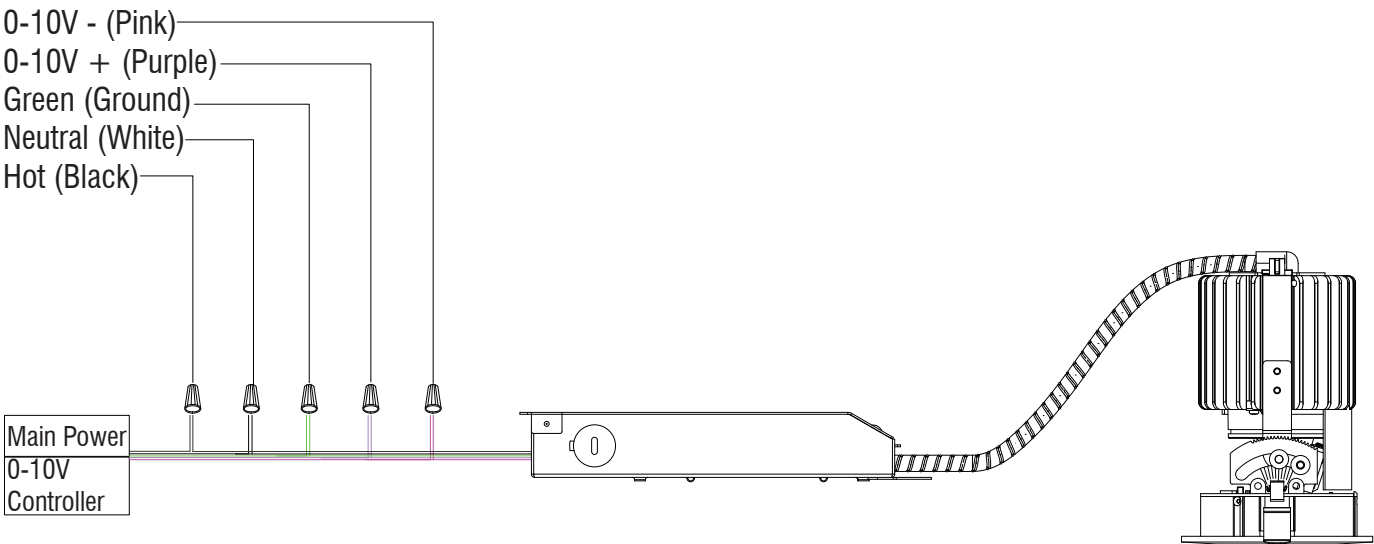
Project: _____

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WIRING DIAGRAMS

Remodel Installation



New Construction Installation

