

Volta

Static White - 4.5" Downlight

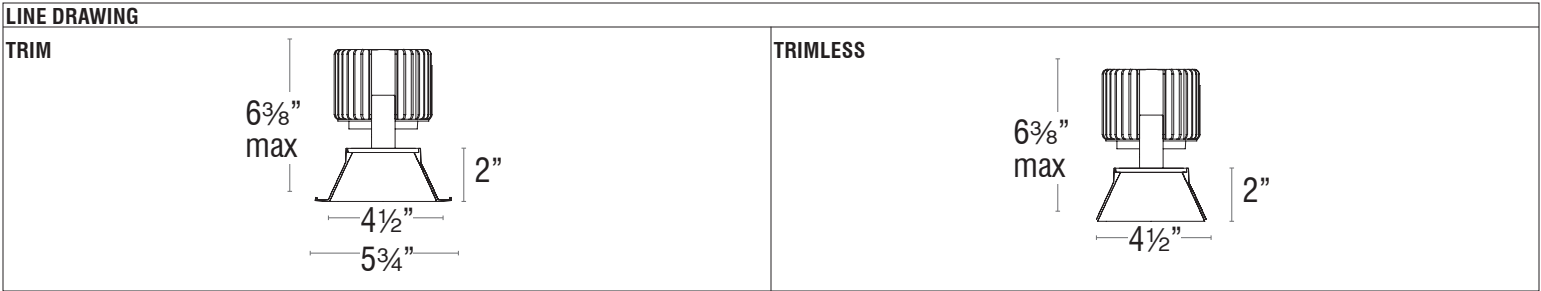
R4RD2T | R4RD2L | R4SD2T | R4SD2L

Fixture Type: _____

Project: _____

Catalog#: _____

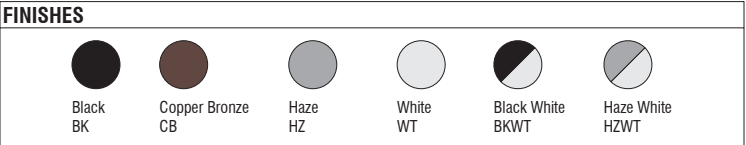
Location: _____



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 30-34°.

SPECIFICATIONS	
Construction:	Durable die-cast self flanged aluminum construction
Mounting:	Heavy gauge retention clips support trim firmly Ceiling cut out (Round): Trim Ø 5 ¹ / ₈ inch Trimless Ø 5 ¹ / ₈ inch Ceiling cut out (Square): Trim 5 ¹ / ₈ inch x 5 ¹ / ₈ inch Trimless 5 ¹ / ₈ inch x 5 ¹ / ₈ inch Accommodates ceiling thickness of 1/2 inch - 1 1/2 inch
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 12,824 cd (Square Spot 15°, 4000K, CRI 85)
Maximum Delivered Output:	Up to 3,585 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	
R4RD2T R4RD2L	S 15° Round	Round	1405	11420	65	827 - 2700K 85	
		Square	1440	11985	66		
	N 25° Round	Round	3145	9615	94		830 - 3000K 85
		Square	3350	9820	99		835 - 3500K 85
R4SD2T R4SD2L	F 45° Round	Round	3025	5005	90	840 - 4000K 85	
		Square	3200	4935	95		927 - 2700K 90
	W 60° Round	Round	2895	3125	85		930 - 3000K 90
		Square	3060	3055	90		

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.

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ORDERING INFORMATION

CONFIGURATION TABLE				
Model & Power	Beam	Color Temperature & CRI	Reflector Finish	Trim Finish
R4RD2T R4SD2T R4RD2L R4SD2L	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		

R4RD2T-____-__ Example: R4RD2T-N840-WT

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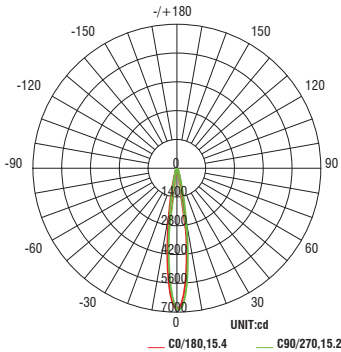
PERFORMANCE DATA

Polar Candela Distribution Charts

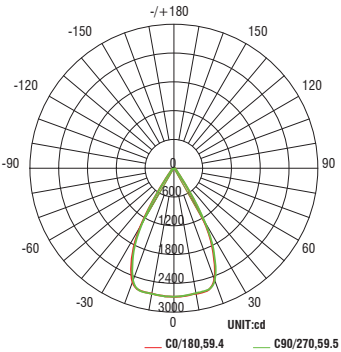
Samples shown with a 22W/34W (depending on beam angle) fixture set to 3000K and 90 CRI.

ROUND

Spot Beam: 15° Beam

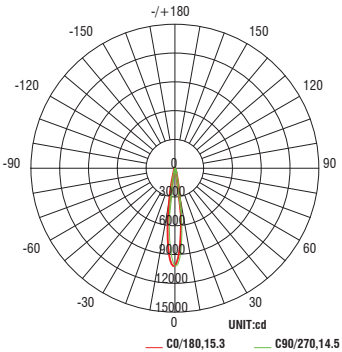


Wide Flood Beam: 60° Beam

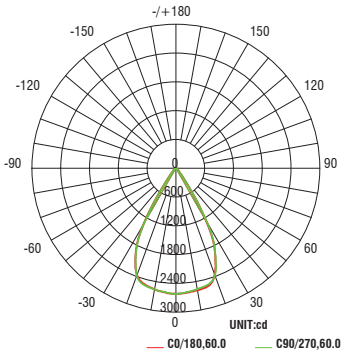


SQUARE

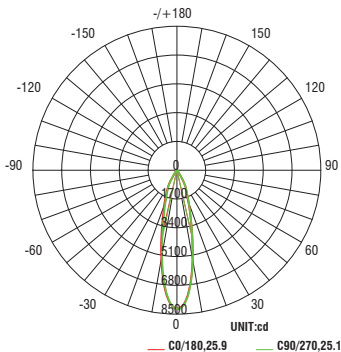
Spot Beam: 15° Beam



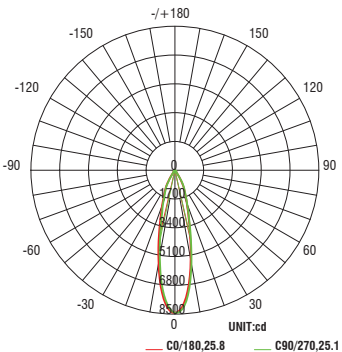
Wide Flood Beam: 60° Beam



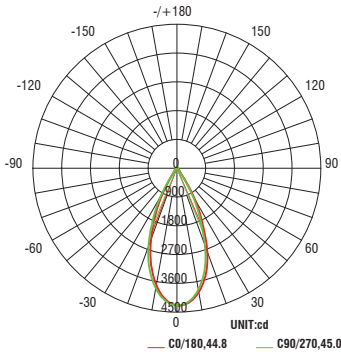
Narrow Flood Beam: 25° Beam



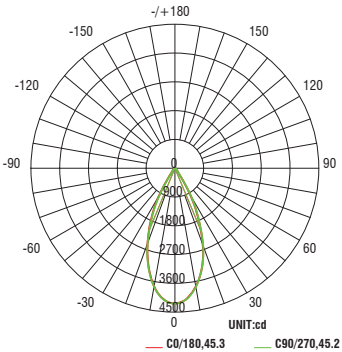
Narrow Flood Beam: 25° Beam



Flood Beam: 45° Beam



Flood Beam: 45° Beam



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Fixture Type:

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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°	≤18	Spot	15°	≤16
Narrow Flood	25°	≤12	Narrow Flood	25°	≤12
Flood	45°	≤14	Flood	45°	≤13
Wide Flood	60°	≤13	Wide Flood	60°	≤15

Lumens and CBCP Multiplier Table

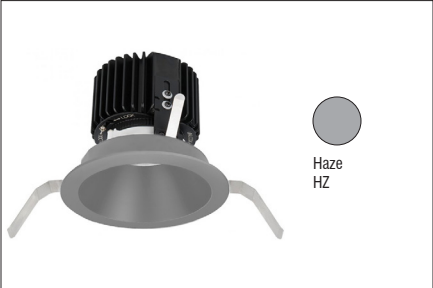
Use the below table to determine lumens and CBCP values for the combinations of power, color temperature, and CRI values.

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

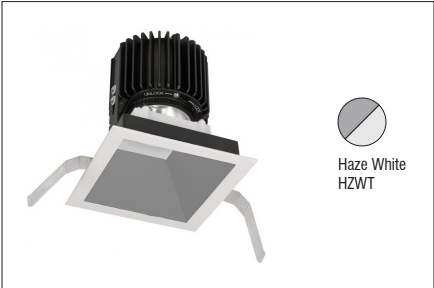
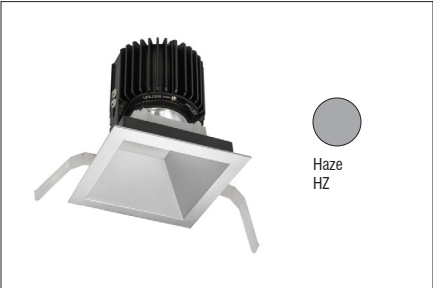
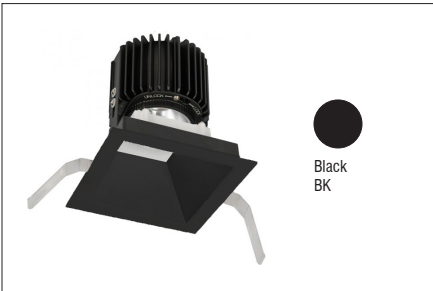
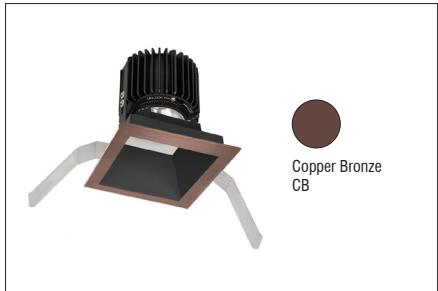
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TRIM AND HOUSING COLOR OPTIONS



ROUND TRIM



SQUARE TRIM

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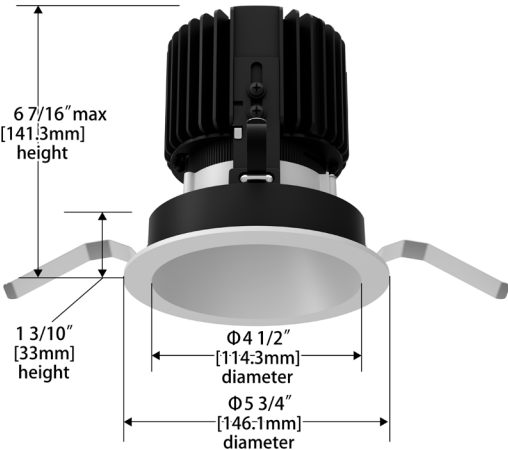
Project: _____

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Location: _____

DIMENSIONAL DIAGRAMS

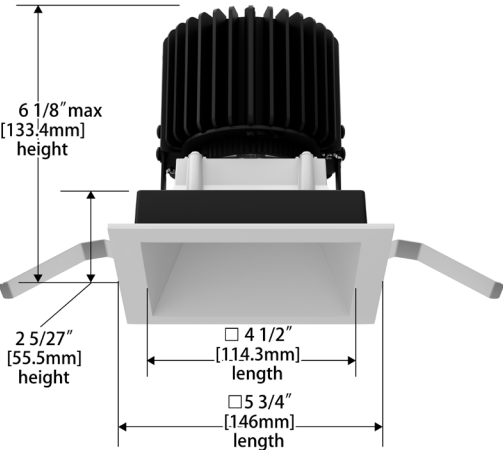
Round Trim (R4RD2T)



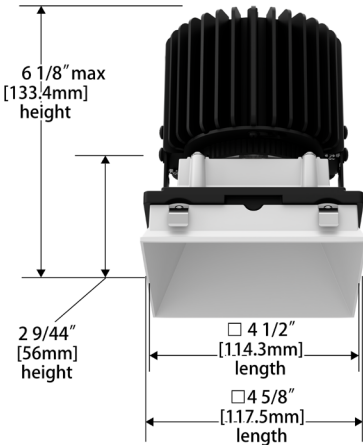
Round Trimless (R4RD2L)



Square Trim (R4SD2T)



Square Trimless (R4SD2L)



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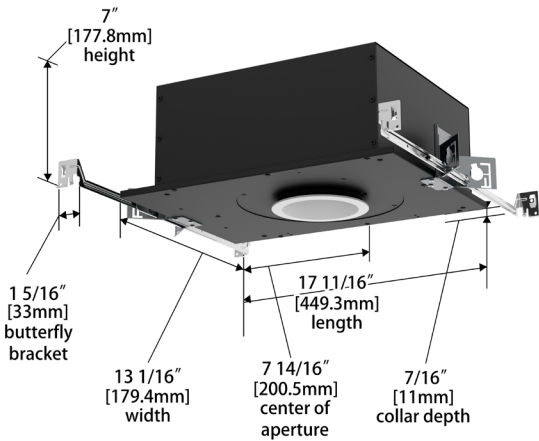
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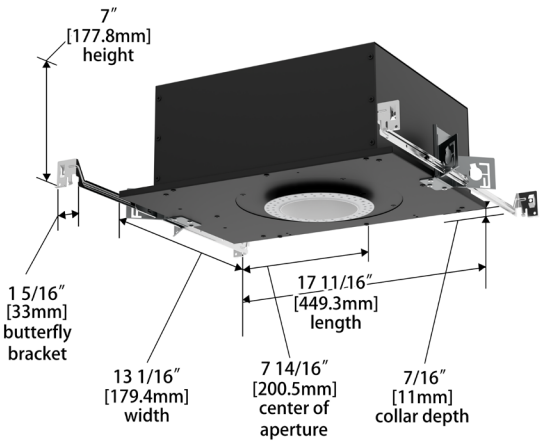
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DIMENSIONAL DIAGRAMS

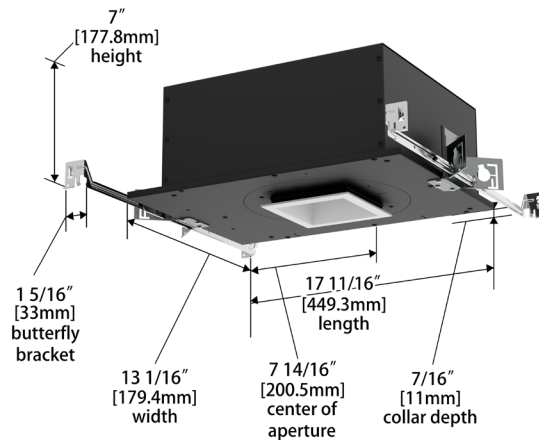
New Construction - Round Trim



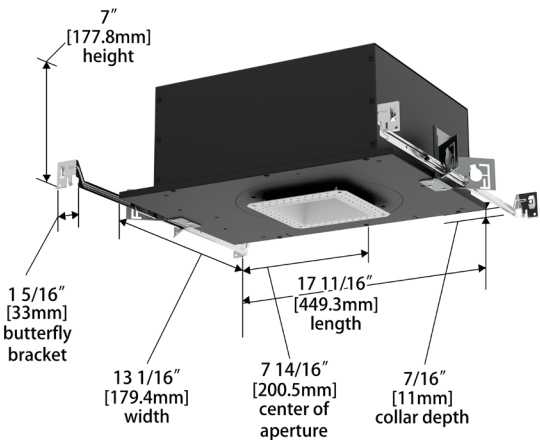
New Construction - Round Trimless



New Construction - Square Trim



New Construction - Square Trimless



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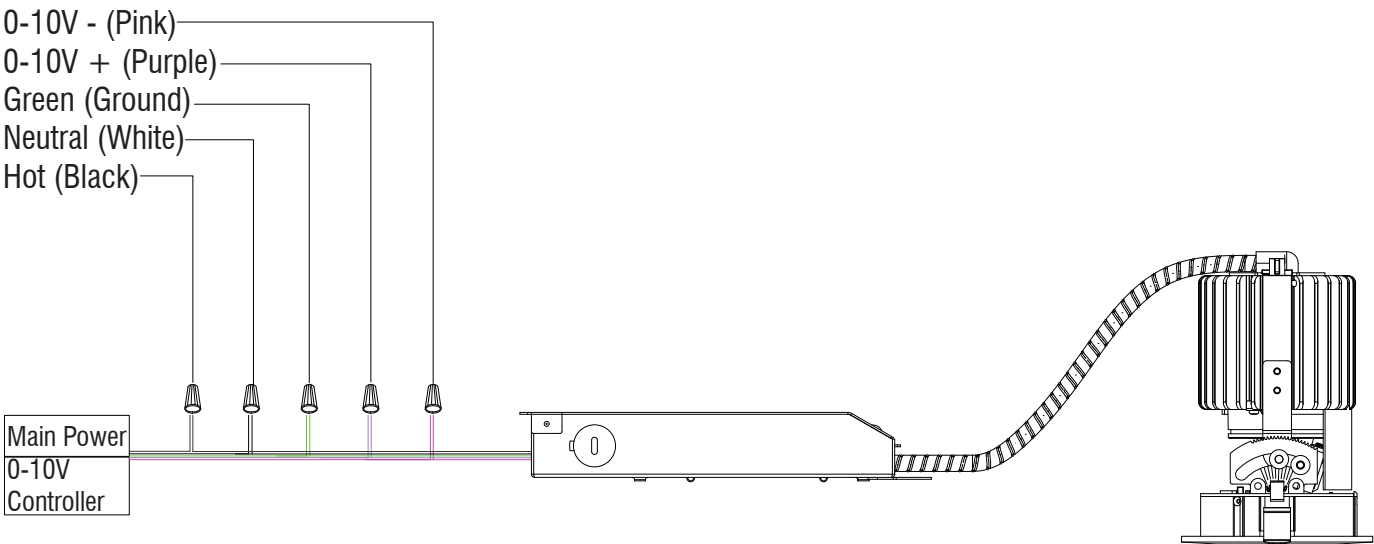
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WIRING DIAGRAMS

Remodel Installation



New Construction Installation

