

# R4RD2T, R4SD2T

## 4.5" Volta Tunable White - Downlight Trim

WAC



Fixture Type:

Catalog Number:

Project:

Location:

### PRODUCT DESCRIPTION

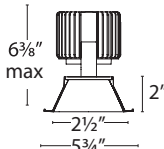
Volta 4.5" Tunable White recessed series represents an innovation in design and technology for architectural lighting. This high lumen and adaptable family of fixtures with a comprehensive set of round and square fittings, affords a sustainable solution for commercial, corporate, and upscale residential applications.

### FEATURES

- Natural and Vivid Precision LED CCT Tuning
- 2" lens regress for superior glare control
- Field selectable light engine height for cut-off angle adjustment (30°-34°) and accessory use
- Integral patterned tempered trim lens included standard
- Compatible with wide range of accessories
- 5 year warranty

### SPECIFICATIONS

- Construction:** Durable die-cast self flanged aluminum construction
- Input:** Universal 120-277V AC 50/60 Hz
- Dimming:** 2 Channel 0-10V: 100-0.1%  
2 Channel DMX512-A, with RDM: 100-0.1%  
Linear Dimming. 1<sup>st</sup> input channel is intensity changing.  
2<sup>nd</sup> input channel is CCT changing.
- Light Source:** High output 3-step Mac Adam Ellipse COB  
Rated life of 50,000 hours at L70
- Mounting:** Heavy gauge retention clips support trim firmly.  
Safety cabling standard.  
Ceiling cut out (Round):  $\varnothing 5\frac{1}{8}"$   
Ceiling cut out (Square):  $5\frac{1}{8}" \times 5\frac{1}{8}"$   
Accommodates  $\frac{1}{2}"$  -  $1\frac{1}{2}"$  ceiling thickness
- Finish:** Electrostatically powder coated White, Black.  
Enamel coated Haze. Plated and brushed copper Bronze.
- Standards:** ETL & cETL Wet location listed, Title 24 JA8 Compliant

TRIM	Model	Beam	Lumens	CBCP	Ref Output*	Color Temp	CRI	Finishes	Reflector/Trim
	<b>R4RD2T</b> Round Trim <b>R4SD2T</b> Square Trim	<b>N</b> 25° Round	2295	6420	<b>TWA</b> 1800K-4000K	98	<b>BK</b> Black <b>BKWT</b> Black/White <b>CB</b> Copper Bronze <b>HZ</b> Haze <b>HZWT</b> Haze/White <b>WT</b> White		
		<b>F</b> 45° Round	2185	3600					
		<b>W</b> 60° Round	2315	3805					
		<b>W</b> 60° Square	2215	2460	<b>TWB</b> 2700K-6500K	98			
		<b>N</b> 25° Round	2345	2600					
		<b>F</b> 45° Round	2520	6915					
			2680	7365					
			2495	3990					
			2640	4220					
			2565	2730					
			2715	2890					

Example: **R4SD2T-NTWA-WT**

\*Reference output shows TWA/TWB trim tuned to 3000K with **36** housing. Use multiplier table below to determine the output for other combinations

Lumens & CBCP Multiplier		Color Temperature					
<b>TWA</b> (1800K-4000K)	Housing Power Level	1800K	2200K	2700K	3000K	3500K	4000K
	<b>36</b> (44W)	0.68	0.82	0.94	1.00	1.07	1.11
	<b>25</b> (29W)	0.48	0.57	0.66	0.70	0.75	0.78
	<b>15</b> (20W)	0.33	0.39	0.45	0.48	0.51	0.53
<b>TWB</b> (2700K-6500K)	Housing Power Level	2700K	3000K	3500K	4000K	5000K	6500K
	<b>36</b> (44W)	0.96	1.00	1.06	1.09	1.12	1.11
	<b>25</b> (29W)	0.67	0.70	0.74	0.76	0.78	0.78
	<b>15</b> (20W)	0.46	0.48	0.51	0.52	0.54	0.53

Example: **R4SD2T-NTWA-WT** turned to 4000K with **36** housing: 2445 lm (Reference Output) x 1.11 (Multiplier) = 2714 lm

6835 CBCP (Reference Output) x 1.11 (Multiplier) = 7587 CBCP

Please see next page for housing, power supply and tool units (required)

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## 4.5" Volta Tunable White - Downlight Trim

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Housing (Required)	Model	Power	Rating	Driver
<b>Round New Construction</b> 	<b>R4RNT</b> <i>Airtight</i>	<b>15</b> 20W <b>25</b> 29W <b>36</b> 44W	<i>IC rated</i> <i>IC rated</i> <i>Non-IC</i>	<b>T-X</b> DMX512-A <b>T-Z</b> 2CH 0-10V
<b>Square New Construction</b> 	<b>R4SNT</b> <i>Airtight</i>	<b>15</b> 20W <b>25</b> 29W <b>36</b> 44W	<i>IC rated</i> <i>IC rated</i> <i>Non-IC</i>	<b>T-X</b> DMX512-A <b>T-Z</b> 2CH 0-10V
<b>Remodel</b> 	<b>R4BRT</b> <i>Round &amp; Square</i>	<b>15</b> 20W <b>25</b> 29W <b>36</b> 44W	<i>Non-IC</i> <i>Non-IC</i> <i>Non-IC</i>	<b>T-X</b> DMX512-A <b>T-Z</b> 2CH 0-10V

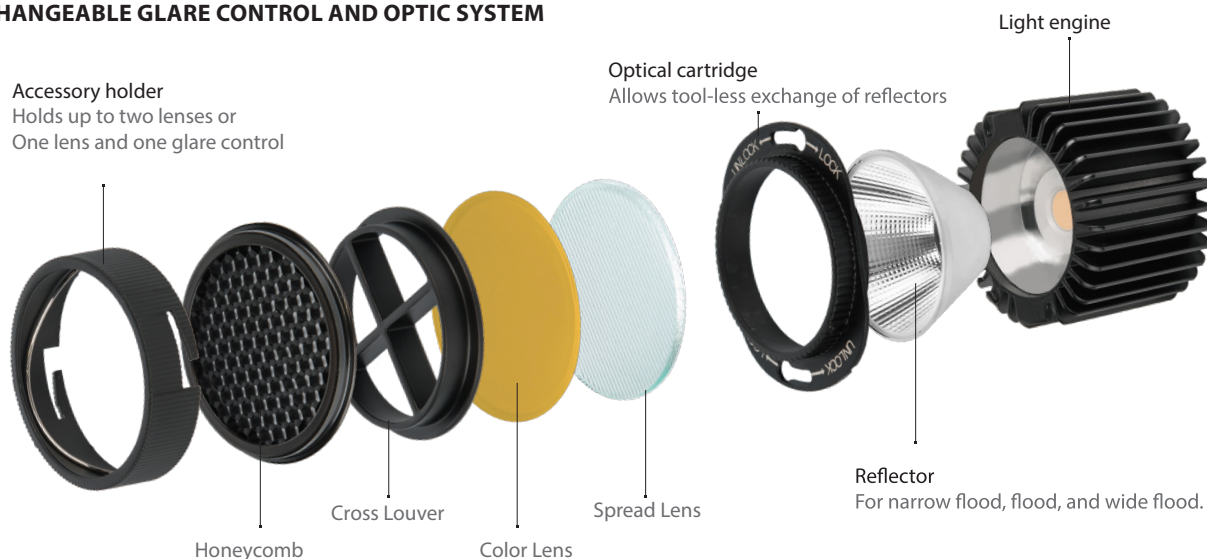
Example: **R4RNT-15T-X**

### Field Replaceable Driver

**D-R4N-15T-X** DMX512-A Driver for 20W New Const. Housing  
**D-R4N-25T-X** DMX512-A Driver for 29W New Const. Housing  
**D-R4N-36T-X** DMX512-A Driver for 44W New Const. Housing

**D-R4N-15T-Z** 2CH 0-10V Driver for 20W New Const. Housing  
**D-R4N-25T-Z** 2CH 0-10V Driver for 29W New Const. Housing  
**D-R4N-36T-Z** 2CH 0-10V Driver for 44W New Const. Housing

### FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM



#### Accessory holder

**LENS-73-HLD** Required to hold lens and glare control accessories

#### Glare control accessories

**LENS-73-HCL** Honeycomb Louver  
**LENS-73-CRL** Cross Louver

#### Lens

**LENS-73-AMB** Amber lens  
**LENS-73 RED** Red lens  
**LENS-73 FR** Frosted lens  
**LENS-73 SPR** Spread lens  
**LENS-73 BEL** Beam Elongating

#### Interchangeable reflector

**REF-R4-N** Narrow Flood beam reflector  
**REF-R4-F** Flood beam reflector  
**REF-R4-W** Wide beam reflector

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### NATURAL TUNABLE WHITE CCT TUNING:

The CCT of the Volta Tunable White fixture may be adjusted.

Using the DMX byte values in the adjacent table mapped to CH1 and CH2 of the desired output, increments of 100K (Kelvin) from 1800K to 4000K for TWA and 2700K to 6500K for TWB, at full intensity.

**Note:** Through compatible RDM tool, fixture channels can be reassigned to desired consecutive channels. Factory default is DMX channel 1 and 2.

### VOLTA 4.5" TUNABLE WHITE DMX BYTE VALUE VS CCT

TWA DMX BYTE VALUES AT FULL INTENSITY			TWB DMX BYTE VALUES AT FULL INTENSITY		
CCT (K)	CH1: Intensity	CH2: CCT	CCT (K)	CH1: Intensity	CH2: CCT
4000	255	255	6500	255	252
3900	255	250	6400	255	249
3800	255	240	6300	255	245
3700	255	230	6200	255	243
3600	255	219	6100	255	241
3500	255	207	6000	255	237
3400	255	196	5900	255	234
3300	255	186	5800	255	230
3200	255	176	5700	255	226
3100	255	163	5600	255	222
3000	255	153	5500	255	218
2900	255	140	5400	255	214
2800	255	130	5300	255	210
2700	255	117	5200	255	205
2600	255	105	5100	255	200
2500	255	92	5000	255	195
2400	255	79	4900	255	190
2300	255	66	4800	255	185
2200	255	51	4700	255	180
2100	255	38	4600	255	175
2000	255	23	4500	255	170
1900	255	10	4400	255	164
1800	255	0	4300	255	158
			4200	255	151
			4100	255	143
			4000	255	134
			3900	255	125
			3800	255	119
			3700	255	110
			3600	255	101
			3500	255	92
			3400	255	83
			3300	255	74
			3200	255	64
			3100	255	53
			3000	255	41
			2900	255	29
			2800	255	15
			2700	255	0

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