



### 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
- Center beam alignment retained throughout adjustment range
- 0-45° vertical and 365° horizontal lockable hot aiming
- Indexed vertical scaling for precise and accurate alignment
- Integral patterned tempered trim lens included standard
- Compatible with wide range of accessories
- Dual finishes are single piece, no physical seams
- 5 year warranty

Fixture Type:

Catalog Number:

Project:

Location:

### 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): Ø5 1/8"

Ceiling cut out (Square): 5 1/8" x 5 1/8"  
Accommodates 1/2" - 1" ceiling thickness up to 45°, 1 1/2" up to 35°

**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		CRI	Finishes	Reflector/Trim	
			Ref Output*	Color Temp	TWA	1800K-4000K				
 <b>R4RAT</b> Round Trim	<b>N</b> 25°	Round	1930	6745	<b>TWA</b> 1800K-4000K	98	<b>BK</b> <b>BKWT</b> <b>CB</b> <b>HZ</b> <b>HZWT</b> <b>WT</b>	Black Black/White Copper Bronze Haze Haze/White White		
		Square	1615	5645						
	<b>F</b> 45°	Round	1750	3410	<b>TWB</b> 2700K-6500K	98				
		Square	1485	2890						
 <b>R4SAT</b> Square Trim	<b>N</b> 25°	Round	1920	7025	<b>TWA</b> 1800K-4000K	98				
		Square	1605	5880						
	<b>F</b> 45°	Round	1775	3455	<b>TWB</b> 2700K-6500K	98				
		Square	1505	2930						

Example: **R4SAT-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						
	Housing Power Level	1800K	2200K	2700K	3000K	3500K	4000K
<b>TWA</b> (1800K-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	<b>2700K</b>	<b>3000K</b>	<b>3500K</b>	<b>4000K</b>	<b>5000K</b>	<b>6500K</b>
	<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: **R4SAT-NTWA-WT** tuned to 4000K with **36** housing: 1615 lm (Reference Output) x 1.11 (Multiplier) = 1793 lm  
5645 CBCP (Reference Output) x 1.11 (Multiplier) = 6266 CBCP

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

waclighting.com	Headquarters, East Manufacturing Facility	South East Manufacturing Facility	Central Manufacturing Facility	West Manufacturing Facility
Phone (800) 526.2588	44 Harbor Park Drive	1600 Distribution Ct	1700 South J Elmer Freeway, Ste 100	1750 S Archibald Ave
Fax (800) 526.2585	Port Washington, NY 11050	Lithia Springs, GA 30122	Cedar Hill, TX 75104	Ontario, CA 91761

# R4RAT, R4SAT

## 4.5" Volta Tunable White - Adjustable Trim

WAC

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

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

### Field Replaceable Driver

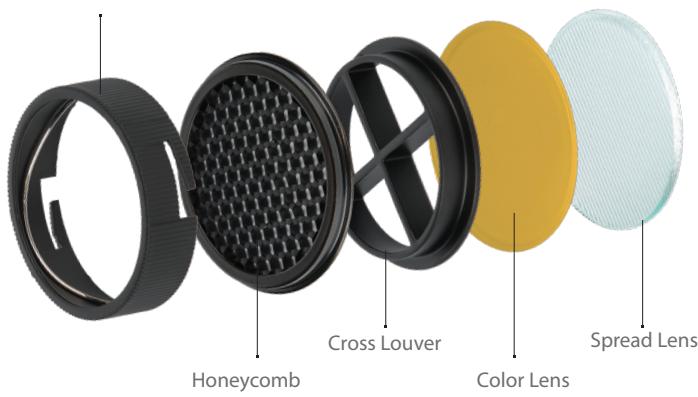
**D-R4N-15T-X** DMX512-A Driver for 20W New Const. Housing  
**D-R4N-25T-X** DMX512-A Driver for 29W New Const. Housing  
**D-R4N-36T-X** DMX512-A Driver for 44W New Const. Housing

**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

**Note:** Maximum 35° vertical adjustment with accessory use.

Accessory holder  
Holds up to two lenses or  
One lens and one glare control



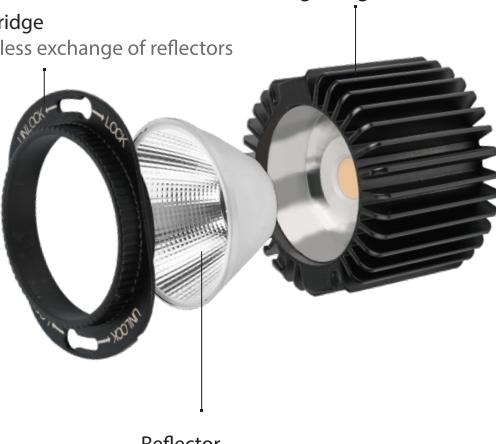
#### Accessory holder

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

#### Glare control accessories

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

Optical cartridge  
Allows tool-less exchange of reflectors



#### Interchangeable reflector

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

waclighting.com

Phone (800) 526.2588

Fax (800) 526.2585

Headquarters, East Manufacturing Facility

44 Harbor Park Drive

Port Washington, NY 11050

South East Manufacturing Facility

1600 Distribution Ct

Lithia Springs, GA 30122

Central Manufacturing Facility

1700 South J Elmer Freeway, Ste 100

Cedar Hill, TX 75104

West Manufacturing Facility

1750 S Archibald Ave

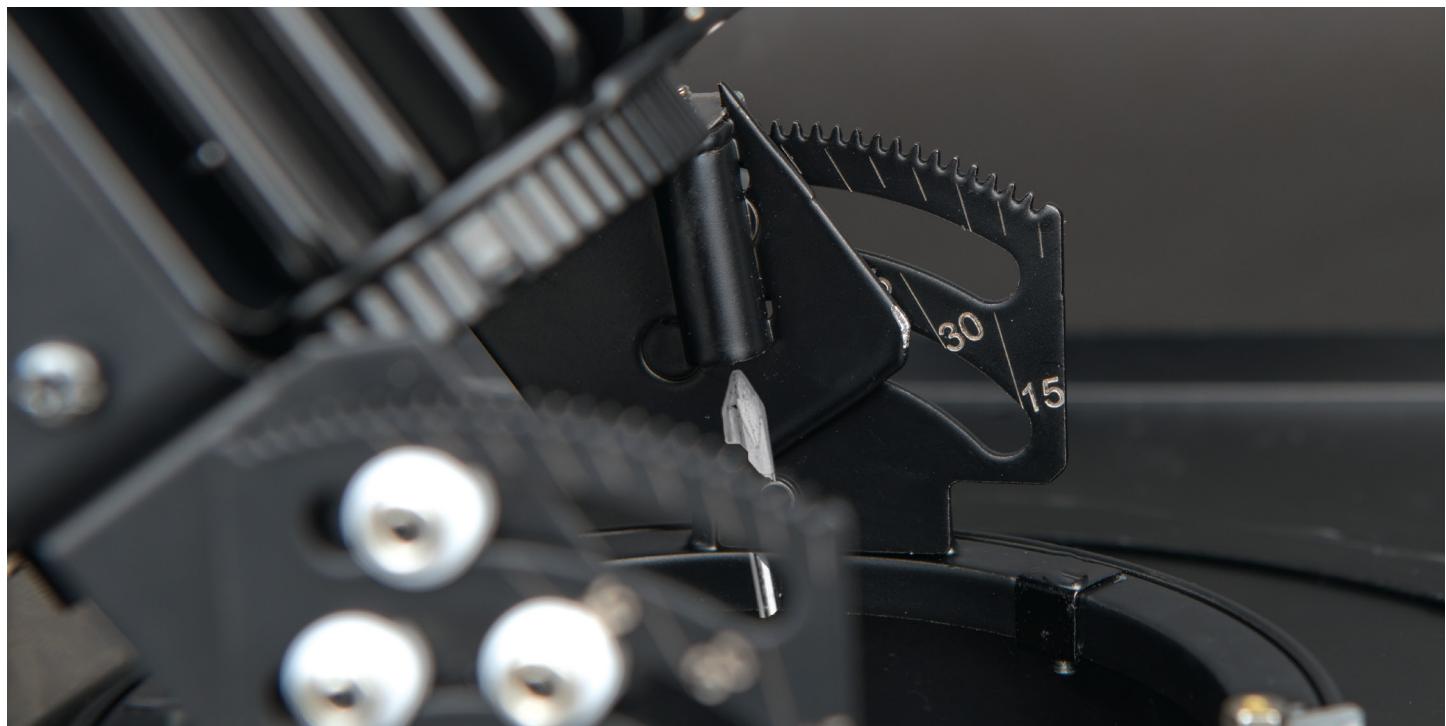
Ontario, CA 91761

# R4RAT, R4SAT

## 4.5" Volta Tunable White - Adjustable Trim

WAC

### FIELD CHANGEABLE AIMING



0 - 45° vertical lockable hot aiming



360° horizontal lockable hot aiming

[waclighting.com](http://waclighting.com)  
Phone (800) 526.2588  
Fax (800) 526.2585

Headquarters, East Manufacturing Facility  
44 Harbor Park Drive  
Port Washington, NY 11050

South East Manufacturing Facility  
1600 Distribution Ct  
Lithia Springs, GA 30122

Central Manufacturing Facility  
1700 South J Elmer Freeway, Ste 100  
Cedar Hill, TX 75104

West Manufacturing Facility  
1750 S Archibald Ave  
Ontario, CA 91761

**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**

CCT (K)	CH1: Intensity	CH2: CCT
4000	255	255
3900	255	250
3800	255	240
3700	255	230
3600	255	219
3500	255	207
3400	255	196
3300	255	186
3200	255	176
3100	255	163
3000	255	153
2900	255	140
2800	255	130
2700	255	117
2600	255	105
2500	255	92
2400	255	79
2300	255	66
2200	255	51
2100	255	38
2000	255	23
1900	255	10
1800	255	0

**TWB DMX  
BYTE VALUES AT FULL INTENSITY**

CCT (K)	CH1: Intensity	CH2: CCT
6500	255	252
6400	255	249
6300	255	245
6200	255	243
6100	255	241
6000	255	237
5900	255	234
5800	255	230
5700	255	226
5600	255	222
5500	255	218
5400	255	214
5300	255	210
5200	255	205
5100	255	200
5000	255	195
4900	255	190
4800	255	185
4700	255	180
4600	255	175
4500	255	170
4400	255	164
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