

R4RD1T, R4SD1T

4.5" Volta Tunable White - Shallow Regressed Downlight Trim



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
- Increased field angle for reduced scalloping
- Field selectable light engine height for cut-off angle adjustment (32° - 40°) and accessory use
- Low ceiling and close-to-wall applications
- Integral patterned tempered trim lens included standard
- Compatible with a wide range of accessories
- 5 year WAC Lighting product 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. 1st input channel is intensity changing.
2nd 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
	R4RD1T Round Trim R4SD1T Square Trim	N 25°	Round	2325	6725		TWA 1800K-4000K	98	BK Black BKWT Black/White CB Copper Bronze HZ Haze HZWT Haze/White WT White	Black Black/White Copper Bronze Haze Haze/White White
			Square	2490	7195					
		F 45°	Round	2205	3630					
			Square	2390	3935					
		W 60°	Round	2255	2410					
			Square	2410	2575					
		N 25°	Round	2315	6600		TWB 2700K-6500K	98		
			Square	2475	7060					
		F 45°	Round	2235	3610					
			Square	2425	3910					
		W 60°	Round	2300	2415					
			Square	2455	2585					

Example: **R4SD1T-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
		TWA (1800K-4000K)	36 (44W)	0.68	0.82	0.94	1.00
	25 (29W)	0.48	0.57	0.66	0.70	0.75	0.78
	15 (20W)	0.33	0.39	0.45	0.48	0.51	0.53
Housing Power Level		2700K	3000K	3500K	4000K	5000K	6500K
		TWB (2700K-6500K)	36 (44W)	0.96	1.00	1.06	1.09
	25 (29W)	0.67	0.70	0.74	0.76	0.78	0.78
	15 (20W)	0.46	0.48	0.51	0.52	0.54	0.53

Example: **R4SD1T-NTWA-WT** tuned to 4000K with **36** housing: 2490 lm (Reference Output) x 1.11 (Multiplier) = 2764 lm
7195 CBCP (Reference Output) x 1.11 (Multiplier) = 7986 CBCP

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

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

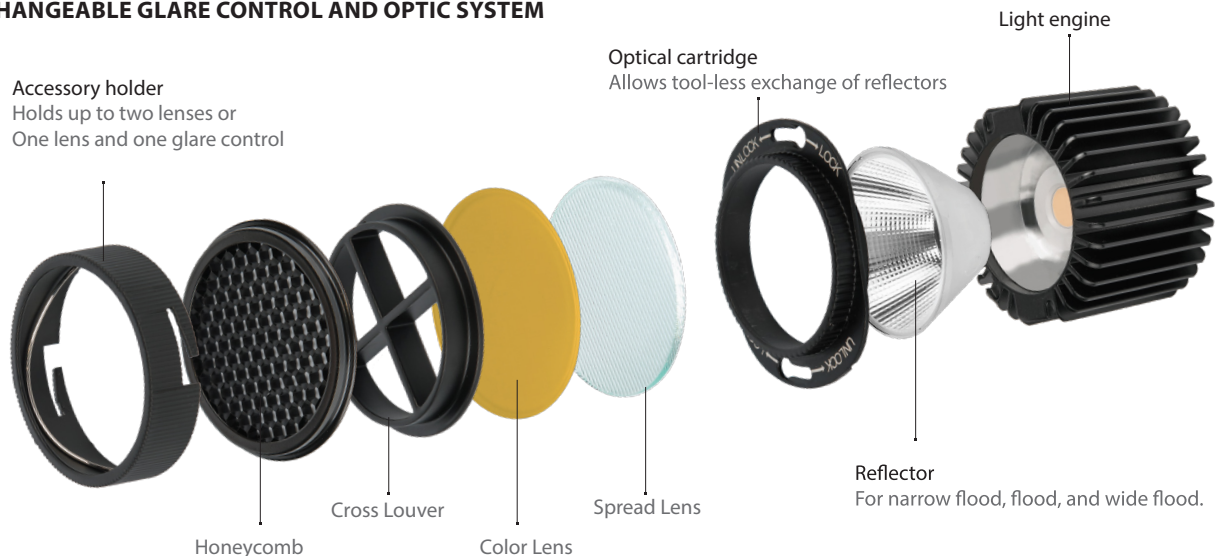
Example: R4RNT-15T-X

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

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

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