

R2RD2T, R2SD2T

2" Volta Tunable White - Downlight Trim

WAC®



Fixture Type:

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION

Volta 2" 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
- 1" regressed lens for superior glare control
- 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 - 277VAC 50/60 Hz

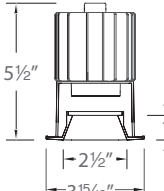
Dimming: 2 Channel 0-10V: 100-0.1%
2 Channel DMX512-A, with RDM: 100-0.1%
Linear Dimming. 1st input channel is intensity changing.
2nd input channel is CCT changing.

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 Trimmed: Ø 3 5/16" Invisible Trim: Ø 4 1/4"
Ceiling cut out Square Trimmed: 3 5/16" x 3 5/16" Invisible Trim: 4 1/4" x 4 1/4"
Accommodates 1/2"- 1 1/2" ceiling thickness
Remodel Invisible Trim: 1/2"- 1" ceiling thickness

Finish: Electrostatically powder coated White, Black. Enamel coated Haze.
Plated and brushed Copper Bronze.

Standards: ETL & cETL Wet location Listed.

Model	Beam		Lumens		BCBP Ref Output*	Color Temp	CRI	Finishes	Reflector/Trim	
 R2RD2T Round Trim R2SD2T Square Trim	N	25°	Round	735	3175	TWA 1800K-4000K 98	BK BKWT CB HZ HZWT WT	Black Black/White Copper Bronze Haze Haze/White White		
			Square	800	3465					
	F	35°	Round	720	2030					
			Square	770	2160					
	W	45°	Round	630	1290					
			Square	750	1535					
	N	25°	Round	745	3235	TWB 2700K-6500K 98				
			Square	815	3535					
	F	35°	Round	875	2430					
			Square	930	2585					
	W	45°	Round	670	1405					
			Square	795	1675					

Example: **R2SD2T-NTWA-WT**

*Reference output shows TWA/TWB trim tuned to 3000K with **22** housing. Use multiplier table below to determine the output for other combinations.

Lumens & CBCP Multiplier		Color Temperature					
TWA (1800K-4000K)	Housing Power Level	1800K	2200K	2700K	3000K	3500K	4000K
	22 (22W)	0.68	0.82	0.94	1.00	1.07	1.11
	15 (15W)	0.46	0.56	0.64	0.68	0.73	0.75
TWB (2700K-6500K)	Housing Power Level	2700K	3000K	3500K	4000K	5000K	6500K
	22 (22W)	0.96	1.00	1.06	1.09	1.12	1.11
	15 (15W)	0.65	0.68	0.72	0.74	0.76	0.75

Example: **R2SD2T-NTWA-WT** tuned to 4000K with **22** housing: 800 lm (Reference Output) x 1.11 (Multiplier) = 888 lm

3465 CBCP (Reference Output) x 1.11 (Multiplier) = 3846 CBCP

Please see next page for housing units (required)

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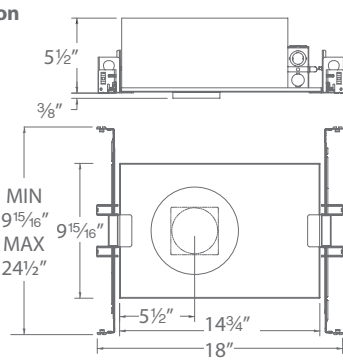
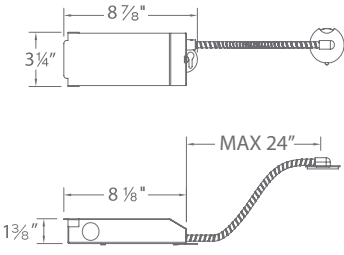
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HOUSING (Required)	Model	Trim	Power	Driver
New Construction Airtight 	R2RN Round R2SN Square	T Trim L Invisible Trim	15 15W IC 22 22W Non-IC	T-X DMX512-A T-Z 2CH 0-10V
Remodel Non-IC 	R2BR Round & Square R2RR Round R2SR Square	T Trim L Invisible Trim	15 15W Non-IC 22 22W Non-IC	T-X DMX512-A T-Z 2CH 0-10V

R2 _____ - _____

Example: **R2RNT-15T-X**

WOOD AND METAL CEILING ADAPTERS (For use with new construction housings)

Round	Square
R2R-ADP1 1/2" to 1" ceiling thickness	R2S-ADP1 1/2" to 1" ceiling thickness
R2R-ADP2 1" to 1 1/2" ceiling thickness	R2S-ADP2 1" to 1 1/2" ceiling thickness

FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM

Accessory holder

Holds up to two lenses or one lens and one glare control

Optical cartridge

Allows tool-less exchange of reflectors

Light engine



ACCESSORY HOLDER sold separately

LENS-16-HLD

Required for use with any lens or accessory

GLARE CONTROL ACCESSORIES

LENS-16

HCM
CRL

Honeycomb Louver
Cross Louver

INTERCHANGEABLE REFLECTORS

REF-R2-N
REF-R2-F
REF-R2-W

Narrow Flood beam
Flood beam
Wide beam

LENS ACCESSORIES

LENS-16

AMB
RED
FR
SPR
BEL

Amber
Red
Frosted
Spread
Beam Elongating

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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, the Volta Tunable White fixture may be tuned in 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 2" TUNABLE WHITE DMX BYTE VALUE VS CCT

TWA DMX BYTE VALUES AT FULL INTENSITY			TWB DMX BYTE VALUES AT FULL INTENSITY		
CCT (K)	CH 1: INTENSITY	CH 2: CCT	CCT (K)	CH 1: INTENSITY	CH 2: CCT
4000	255	255	6500	255	252
3900	255	253	6400	255	249
3800	255	247	6300	255	245
3700	255	241	6200	255	241
3600	255	233	6100	255	238
3500	255	225	6000	255	232
3400	255	219	5900	255	229
3300	255	210	5800	255	228
3200	255	202	5700	255	222
3100	255	193	5600	255	217
3000	255	185	5500	255	212
2900	255	176	5400	255	208
2800	255	166	5300	255	204
2700	255	154	5200	255	199
2600	255	141	5100	255	194
2500	255	126	5000	255	190
2400	255	109	4900	255	185
2300	255	82	4800	255	179
2200	255	79	4700	255	173
2100	255	64	4600	255	168
2000	255	46	4500	255	160
1900	255	26	4400	255	152
1800	255	0	4300	255	144
			4200	255	138
			4100	255	131
			4000	255	123
			3900	255	115
			3800	255	107
			3700	255	98
			3600	255	89
			3500	255	80
			3400	255	71
			3300	255	62
			3200	255	51
			3100	255	41
			3000	255	30
			2900	255	16
			2800	255	4
			2700	255	0

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