R2RPT, R2SPT

2" Volta Tunable White - Pinhole Trim

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.

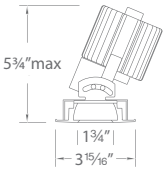
FEATURES

- Natural and vivid precision LED CCT tuning
- Center beam alignment retained throughout adjustment range
- 0-30° vertical and 365° horizontal lockable hot aiming
- Indexed vertical scaling for precise and accurate alignment
- 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 - 277 VAC 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 3⁹⁄₁₆"
Invisible Trim: Ø 4¼"
Ceiling cut out Square Trimmed: 3⁹⁄₁₆" x 3⁹⁄₁₆"
Invisible Trim: 4¼" x 4¼"
Accommodates ½"- 1½" c eiling thickness
Remodel Invisible Trim: ½"- 1 " ceiling thickness
Finish: Electrostatically powder coated White, Black. Enamel coated Haze. Plated and brushed Copper Bronze.
Standards: ETL & cETL Wet location Listed.

ORDERING NUMBER

Model	*Beam*			*Lumens Ref*	*CBCP Output**	*Color Temp*	*CRI*	*Finishes*	*Reflector/Trim*
 **R2RPT** *Round Trim* **R2RPT** *Square Trim*	**N**	*25°*	*Round*	*380*	*2320*	**TWA** *1800K-4000K*	*98*	**BK**	*Black/Black*
			Square	*495*	*3010*			**CB**	*Black/Copper Bronze*
	N	*25°*	*Round*	*360*	*2625*	**TWB** *2700K-6500K*	*98*	**HZ**	*Black/Haze*
			Square	*470*	*3405*			**WT**	*Black/White*

Example: **R2SPT-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: **R2SPT-NTWA-WT** tuned to 4000K with **22** housing: 495 lm (Reference Output) x 1.11 (Multiplier) = 549 lm
3010 CBCP (Reference Output) x 1.11 (Multiplier) = 3341 CBCP

Please see next page for housing units (required)

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

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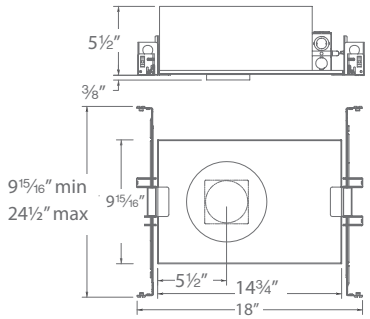
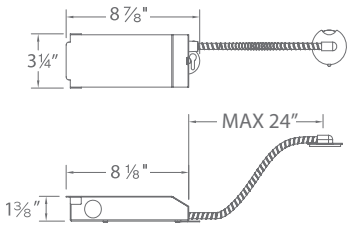
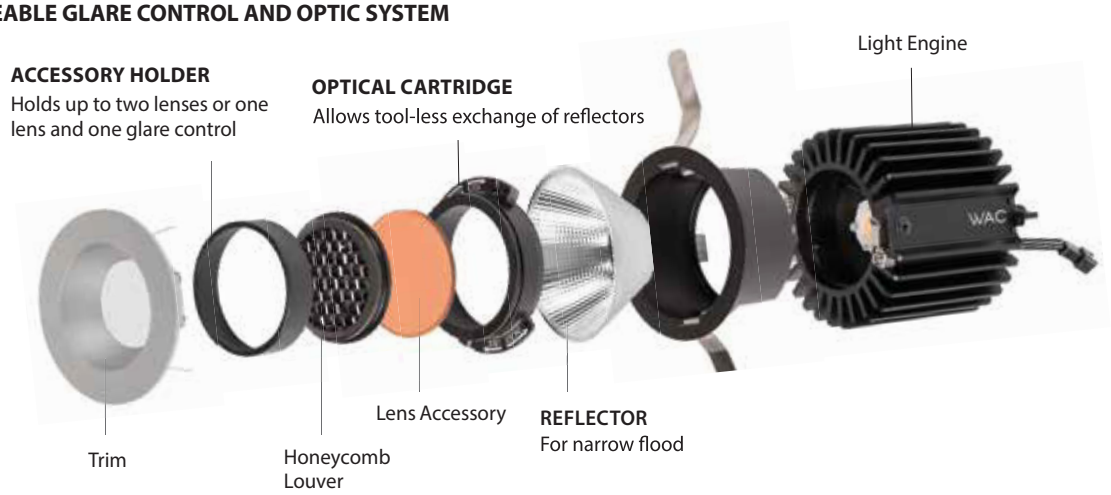
Housing (Required)	*Model*	*Trim Type*	*Power*	*Driver*
New Construction, Airtight 	**R2RN** *Round* **R2SN** *Square*	**T** *Trim* **L** *Invisible Trim*	**15** *15W IC* **22** *22W Non-IC*	**T-X** *DMX512-A* **T-Z** *2CH 0-10V*
Remodel, Non-IC 	**R2BR** *Round & Square*	**T** *Trim*	**15** *15W Non-IC*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

R2_____-_____
Example: **R2RNT-15T-X**

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

Round		Square	
R2R-ADP1	½" to 1" ceiling thickness	**R2S-ADP1**	½" to 1" ceiling thickness
R2R-ADP2	1" to 1½" ceiling thickness	**R2S-ADP2**	1" to 1½" ceiling thickness

FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM



ACCESSORY HOLDER sold separately

LENS-16-HLD	Required for use with any lens or accessory

GLARE CONTROL ACCESSORIES

LENS-16	**HCM**	Honeycomb Louver
	CRL	Cross Louver

INTERCHANGEABLE REFLECTORS

REF-R2-N	Narrow Flood beam

LENS ACCESSORIES

LENS-16	**AMB**	Amber
	RED	Red
	FR	Frosted
	SPR	Spread
	BEL	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		
CCT (K)	CH 1: INTENSITY	CH 2: CCT
4000	255	255
3900	255	253
3800	255	247
3700	255	241
3600	255	233
3500	255	225
3400	255	219
3300	255	210
3200	255	202
3100	255	193
3000	255	185
2900	255	176
2800	255	166
2700	255	154
2600	255	141
2500	255	126
2400	255	109
2300	255	82
2200	255	79
2100	255	64
2000	255	46
1900	255	26
1800	255	0

TWB DMX BYTE VALUES AT FULL INTENSITY		
CCT (K)	CH 1: INTENSITY	CH 2: CCT
6500	255	252
6400	255	249
6300	255	245
6200	255	241
6100	255	238
6000	255	232
5900	255	229
5800	255	228
5700	255	222
5600	255	217
5500	255	212
5400	255	208
5300	255	204
5200	255	199
5100	255	194
5000	255	190
4900	255	185
4800	255	179
4700	255	173
4600	255	168
4500	255	160
4400	255	152
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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