

R2RWT, R2SWT

2" Volta Tunable White - Wall Wash 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
- Innovative bi-directional spread lens
- Engineered for even wall illumination both vertically and horizontally
- Dual finishes are single piece, no physical seams
- 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 3⁵/₁₆"

Invisible Trim: Ø 4¹/₄"

Ceiling cut out Square Trimmed: 3⁵/₁₆" x 3⁵/₁₆"

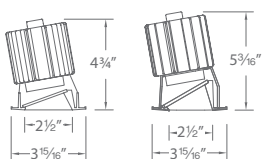
Invisible Trim: 4¹/₄" x 4¹/₄"

Accommodates 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.

ORDERING NUMBER

| Model | | Beam | Lumens | CBCP | Color Temp | CRI | Finishes | Reflector/Trim |
|--|---------------------------------------|--------|-------------|------|-----------------|-----------------|----------|--|
| | | | Ref Output* | | | | | |
|  | R2RWT Round Trim R2SWT Square Trim | A Asym | Round | 685 | N/A | TWA 1800K-4000K | 98 | BK Black BK/WT Black/White CB Copper Bronze HZ Haze HZ/WT Haze/White WT White |
| | | | Square | 635 | N/A | | | |
| | A Asym | Round | 635 | N/A | TWB 2700K-6500K | 98 | | |
| | | Square | 585 | N/A | | | | |

Example: R2SWT-ATWA-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: **R2SWT-ATWA-WT** tuned to 4000K with **22** housing: 635 lm (Reference Output) x 1.11 (Multiplier) = 705 lm

Please see next page for housing units (required)

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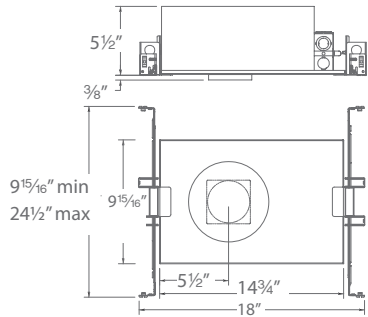
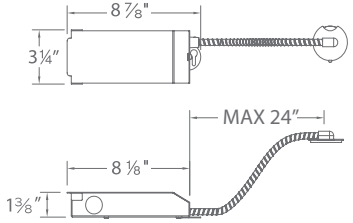
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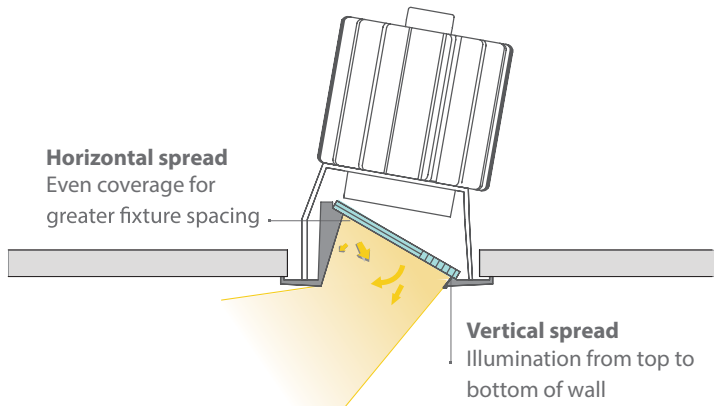
| Housing (Required) | Model | Trim Type | Power | Driver |
|--|--|--|--|---|
| New Construction, Airtight  | R2RN Round R2SN Square | T Trim L Invisible Trim | 15 15W IC 22 22W Non-IC | T-X DMX512-A T-Z 2CH 0-10V |
| Remodel, Non-IC  | R2BR Round & Square R2RR Round R2SR Square | T Trim L Invisible 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 (wall wash trims 1" max ceiling thickness) | R2S-ADP1 1/2" to 1" ceiling thickness (wall wash trims 1" max ceiling thickness) |

BI-DIRECTIONAL SPREAD LENS



AVERAGE WALL ILLUMINANCE*

| R2RWT-ATW at 3000K 8' CEILING | | ON-CENTER SPACING | | | | R2SWT-ATW at 3000K 8' CEILING | | ON-CENTER SPACING | | | |
|----------------------------------|----|-------------------|--------------|------------|--------------|----------------------------------|----|-------------------|--------------|------------|--------------|
| | | 3' | | 4' | | | | 3' | | 4' | |
| DISTANCE FROM WALL | 3' | 15W 22W | 6 fc 9 fc | 15W 22W | 5 fc 8 fc | DISTANCE FROM WALL | 3' | 15W 22W | 4 fc 8 fc | 15W 22W | 4 fc 7 fc |
| | 4' | 15W 22W | 5 fc 7 fc | 15W 22W | 4 fc 6 fc | | 4' | 15W 22W | 4 fc 7 fc | 15W 22W | 3 fc 6 fc |

*Results may vary depending on field conditions such as surface properties, ambient light levels, etc.

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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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