

Volta

Tunable White - 2" Adjustable

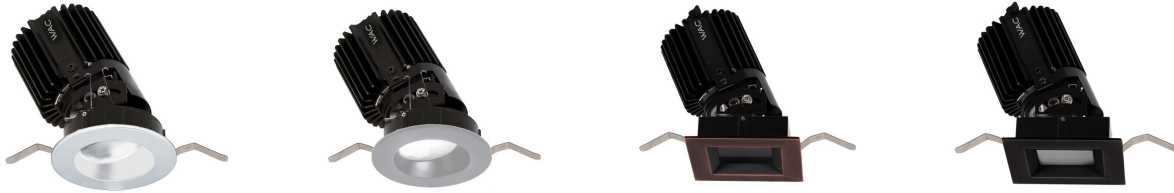
R2RAT | R2SAT

Fixture Type: _____

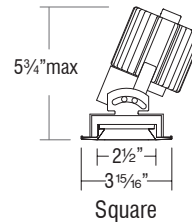
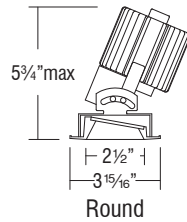
Project: _____

Catalog#: _____

Location: _____



LINE DRAWING



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. The Adjustable Volta fixtures are capable of adjusting 0-45° vertically and 365° horizontally with locking positions.

SPECIFICATIONS

Construction: Durable die-cast self flanged aluminum construction

Mounting: Heavy gauge retention clips support trim firmly
Ceiling cut out (Round): Trim \varnothing 3 9/16"
Invisible \varnothing 4 1/4"

Ceiling cut out (Square): Trim 3 9/16" x 3 9/16"
Invisible 4 1/4" x 4 1/4"

Accommodates 1/2" - 1 1/2" ceiling thickness

Light Source: High output 3-step Mac Adam Ellipse COB
Rated life of 50,000 hours at L70

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. Channels for intensity and CCT tuning.

Maximum Delivered Intensity: Up to 3,885 cd (Square Narrow Flood 25°, TWA 4000K, CRI 98)

Maximum Delivered Output: Up to 907 lm (Square Flood 35°, TWB 5000K, CRI 98)

Standards: ETL & cETL Wet location listed

Warranty: 5 year WAC Lighting guaranteed warranty

BEAM ANGLES



FINISHES



Model	Beam	Lumens	CBCP	Color Temp	CRI
			Ref Output*		
R2RAT R2SAT	N 25°	Round	620	3070	TWA 1800K-4000K 98
		Square	705	3500	
	F 35°	Round	600	1975	
		Square	760	2495	
R2RAT R2SAT	N 25°	Round	565	2800	TWB 2700K-6500K 98
		Square	640	3190	
	F 35°	Round	645	2145	
		Square	810	2710	

Lumens and CBCP are reference values for 3000K Color Temperature with 22 housing. Refer to Multiplier Table in Performance Data to determine other outputs.

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ORDERING INFORMATION

CONFIGURATION TABLE				
Model & Power	Beam	Color Temperature & CRI	Reflector Finish	Trim Finish
R2RAT	N - 25°	TWA - 1800K-4000K	BK - BLACK	WT - WHITE
R2SAT	F - 35°	TWB - 2700K-6500K	CB - COPPER HZ - HAZE WT - WHITE	

R2RAT-____-____

Example: R2RAT-NTWA-WT

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

ACCESSORIES	
LENS-16-HLD Accessory Holder	LENS-16RED Red Lens
LENS-16HCM Honeycomb Louver	LENS-16FR Frosted Lens
LENS-16CRL Cross Louver	LENS-16SPR Spread Lens
LENS-16AMB Amber Lens	LENS-16BEL Beam Elongating Lens
LENS-16BLU Blue Lens	
LENS-16GRN Green Lens	

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

INTERCHANGEABLE REFLECTORS	
REF-R2-N	Narrow Flood Beam
REF-R2-F	Flood Beam
REF-R2-W	Wide Beam

ORDERING NOTES

- The "White" trim finish is only available with the reflector finishes "Black" and "Haze".
- The "Narrow Flood - 25°" and "Flood - 35°" beam angles are available in 15W and 22W.

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WAC GROUP

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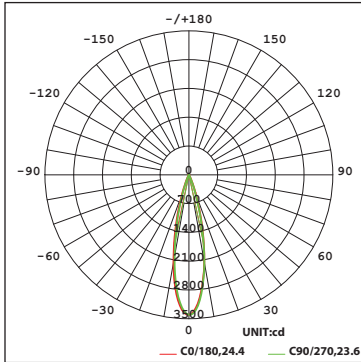
PERFORMANCE DATA

Polar Candela Distribution Charts

Samples shown with a 22W fixture set to 4000K and 98 CRI.

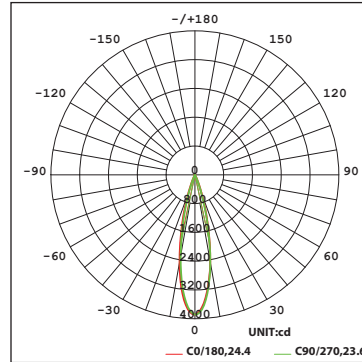
ROUND

Narrow Flood Beam: 25° Beam

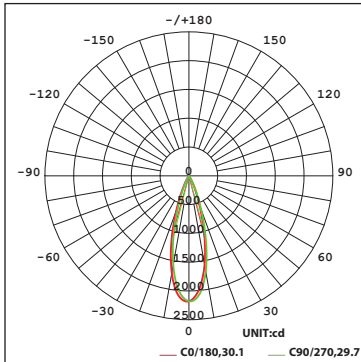


SQUARE

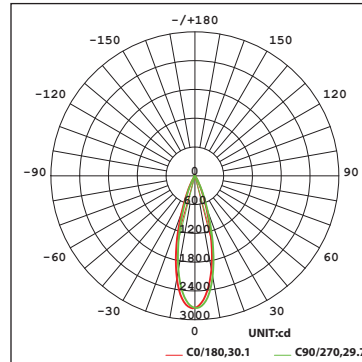
Narrow Flood Beam: 25° Beam



Flood Beam: 35° Beam



Flood Beam: 35° Beam



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PERFORMANCE DATA

Unified Glare Rating (UGR) Table

UGR values shown are calculated for a Round Trim fixture with a 22W Narrow Flood Beam (25°) optic at 4000K and 98 CRI. General performance of other beam angles shown below.

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	Viewed crosswise					Viewed endwise					
x = 2H y = 2H	-2.3	-1.7	-2.1	-1.5	-1.3	-1.5	-0.9	-1.2	-0.7	-0.5	
3H	-0.3	0.3	-0.0	0.5	0.8	-0.2	0.4	0.1	0.6	0.9	
4H	1.8	2.3	2.1	2.6	2.8	0.1	0.7	0.4	0.9	1.2	
6H	2.8	3.3	3.1	3.6	3.9	0.1	0.6	0.5	0.9	1.2	
8H	3.1	3.6	3.4	3.9	4.2	0.1	0.6	0.4	0.9	1.2	
12H	3.3	3.7	3.6	4.1	4.4	0.1	0.5	0.4	0.9	1.2	
4H	2H	-1.6	-1.0	-1.2	-0.7	-0.5	-0.9	-0.4	-0.6	-0.1	0.2
3H	1.0	1.5	1.3	1.8	2.1	0.7	1.1	1.0	1.5	1.8	
4H	3.1	3.6	3.5	3.9	4.3	1.1	1.5	1.5	1.9	2.2	
6H	4.2	4.6	4.6	5.0	5.4	1.1	1.5	1.5	1.9	2.3	
8H	4.5	4.8	4.9	5.2	5.7	1.1	1.5	1.5	1.9	2.3	
12H	4.7	5.0	5.1	5.5	5.9	1.0	1.4	1.5	1.8	2.3	
8H	4H	3.4	3.8	3.9	4.2	4.6	1.7	2.0	2.1	2.4	2.9
6H	4.5	4.9	5.0	5.3	5.8	1.8	2.1	2.2	2.5	3.0	
8H	4.9	5.2	5.4	5.7	6.2	1.8	2.0	2.3	2.5	3.0	
12H	5.2	5.4	5.7	5.9	6.5	1.7	2.0	2.3	2.5	3.0	
12H	4H	3.4	3.7	3.8	4.2	4.6	1.7	2.0	2.2	2.5	2.9
6H	4.5	4.8	5.0	5.3	5.8	1.9	2.1	2.4	2.6	3.1	
8H	4.9	5.1	5.4	5.6	6.2	1.9	2.1	2.4	2.6	3.2	

Round Fixture	Angle	UGR Range
Narrow Flood	25°	≤7
Flood	35°	≤8

Square Fixture	Angle	UGR Range
Narrow Flood	25°	≤7
Flood	35°	≤9

Lumens and CBCP Multiplier Table

Use the below table to determine lumens and CBCP values for the combinations of power, color temperature, and CRI values.

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

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PERFORMANCE DATA

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 to 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