

Volta

Static White - 2" Adjustable

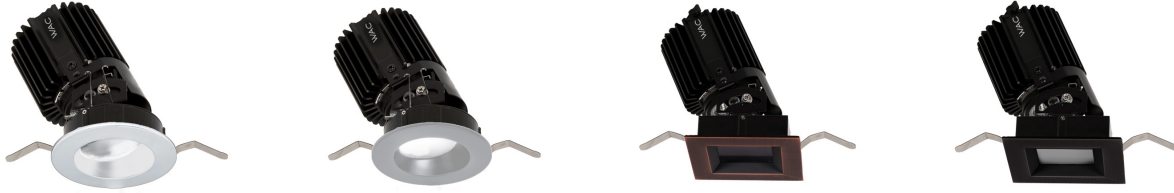
R2RAT | R2SAT

Fixture Type: _____

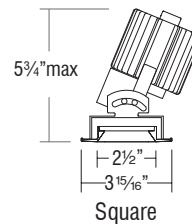
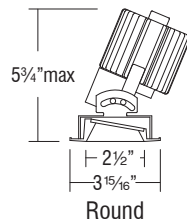
Project: _____

Catalog#: _____

Location: _____



LINE DRAWING



PRODUCT DESCRIPTION

Volta LED downlight 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" \bigcirc Trimless \varnothing 4 1/4" \bigcirc Ceiling cut out (Square): Trim 3 9/16" x 3 9/16" \square Trimless 4 1/4" x 4 1/4" \square 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:	0-10V: 100-0% Electronic Low Voltage (ELV): 100-5%
Maximum Delivered Intensity:	Up to 6,377 cd (Square Narrow Flood 25°, 4000K, CRI 85)
Maximum Delivered Output:	Up to 1,113 lm (Square Narrow Flood 25°, 4000K, CRI 85)
Standards:	ETL & cETL Wet location listed, Title 24 JA8 Compliant
Warranty:	5 year WAC Lighting guaranteed warranty

BEAM ANGLES



FINISHES



Model	Beam	Lumens	CBCP	Color Temp	CRI		
		Ref Output*					
R2RAT R2SAT	S 12°	Round	335	4300	827 - 2700K	85	
		Square	360	5805			
	N 25°	Round	915	5340	830 - 3000K	85	
		Square	1040	5960	835 - 3500K	85	
		F 35°	Round	940	2910	840 - 4000K	85
			Square	1015	3215	927 - 2700K	90
				930 - 3000K	90		

Lumens and CBCP are reference values for 3000K Color Temperature and 85 CRI 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 R2SAT	S: Spot - 12°	827 - 2700K - 85	BK - BLACK	WT - WHITE
	N: Narrow Flood - 25°	830 - 3000K - 85	CB - COPPER	
	F: Flood - 35°	835 - 3500K - 85	HZ - HAZE	
		840 - 4000K - 85	WT - WHITE	
		927 - 2700K - 90		
		930 - 3000K - 90		

R2RAT-____-__

Example: R2RAT-N840-WT

HOUSINGS (Required)								
Model	Trim	Power	S	N,F,W	Rating	Driver	Emergency Backup	
New Construction Airtight	R2RN (Round)	T <i>Trim</i>	15	<i>10W</i>	<i>15W</i>	<i>IC</i>	DEFAULT <i>ELV, 0-10V</i>	EM <i>Optional</i>
	R2SN (Square)	L <i>Trimless</i>	22	<i>15W</i>	<i>22W</i>	<i>IC</i>		
New Construction Airtight Chicago Plenum	R2RC (Round)	T <i>Trim</i>	15	<i>10W</i>	<i>15W</i>	<i>IC</i>	DEFAULT <i>ELV, 0-10V</i>	EM <i>Optional</i>
	R2SC (Square)	L <i>Trimless</i>	22	<i>15W</i>	<i>22W</i>	<i>IC</i>		
Remodel Round or Square	R2BR	T <i>Trim</i>	15	<i>10W</i>	<i>15W</i>	<i>Non-IC</i>	DEFAULT <i>ELV, 0-10V</i>	N/A
			22	<i>15W</i>	<i>22W</i>	<i>Non-IC</i>		
Remodel	R2RR (Round) R2SR (Square)	L <i>Trimless</i>	15	<i>15W</i>	<i>15W</i>	<i>Non-IC</i>	DEFAULT <i>ELV, 0-10V</i>	N/A
			22	<i>22W</i>	<i>22W</i>	<i>Non-IC</i>		

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

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

INTERCHANGEABLE REFLECTORS	
REF-R2-N	<i>Narrow Flood Beam</i>
REF-R2-F	<i>Flood Beam</i>
REF-R2-W	<i>Wide Beam</i>

ORDERING NOTES

- The "White" trim finish is only available with the reflector finishes "Black" and "Haze".
- The "Spot - 12°" beam angle is available in 10W and 15W.
- The "Narrow Flood - 25°" and "Flood - 35°" beam angles are available in 15W and 22W.

wacarchitectural.com | WAC Architectural, a WAC Group brand.

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WAC GROUP

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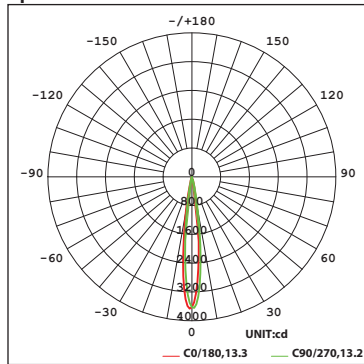
PERFORMANCE DATA

Polar Candela Distribution Charts

Samples shown with a 22W fixture set to 3000K and 90 CRI.

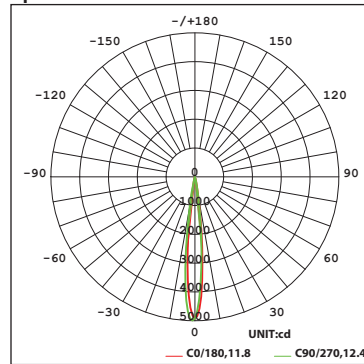
ROUND

Spot Beam: 12° Beam

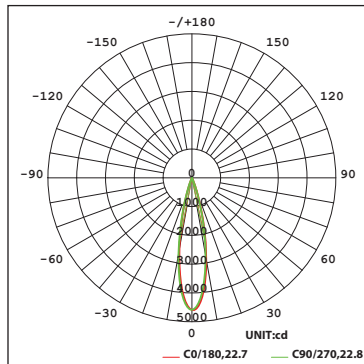


SQUARE

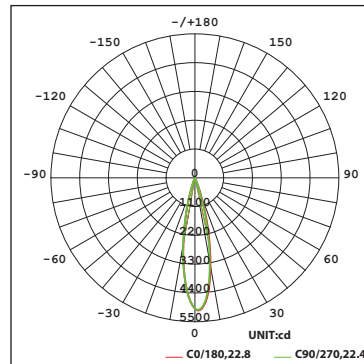
Spot Beam: 12° Beam



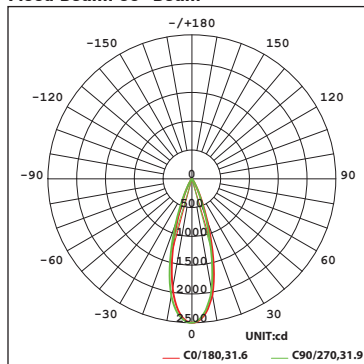
Narrow Flood Beam: 25° Beam



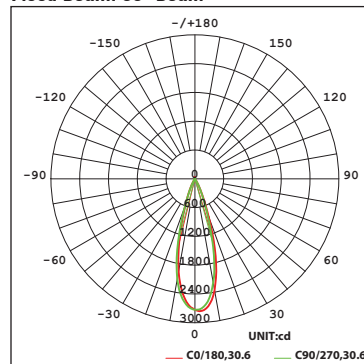
Narrow Flood Beam: 25° Beam



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 15W Spot Beam (12°) optic at 3000K and 90 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	-0.5	0.0	-0.3	0.2	0.3	-0.9	-0.3	-0.7	-0.2	-0.0	
3H	-0.3	0.2	-0.1	0.4	0.6	-0.4	0.1	-0.2	0.3	0.5	
4H	-0.1	0.4	0.1	0.6	0.8	0.1	0.6	0.4	0.8	1.1	
6H	-0.1	0.4	0.2	0.6	0.9	0.3	0.8	0.6	1.0	1.3	
8H	-0.1	0.3	0.2	0.6	0.9	0.3	0.8	0.6	1.0	1.3	
12H	-0.2	0.3	0.2	0.6	0.8	0.3	0.8	0.6	1.0	1.3	
4H	2H	-0.6	-0.1	-0.3	0.2	0.4	-0.9	-0.4	-0.6	-0.2	0.1
3H	0.3	0.7	0.6	1.0	1.3	0.4	0.8	0.7	1.1	1.4	
4H	0.6	1.1	1.0	1.4	1.7	1.2	1.6	1.5	1.9	2.2	
6H	0.7	1.1	1.1	1.4	1.8	1.4	1.8	1.8	2.1	2.5	
8H	0.7	1.0	1.1	1.4	1.8	1.4	1.8	1.8	2.1	2.5	
12H	0.6	1.0	1.1	1.3	1.8	1.5	1.8	1.9	2.2	2.6	
8H	4H	1.8	2.2	2.2	2.5	2.9	2.2	2.5	2.6	2.9	3.3
6H	1.9	2.2	2.4	2.6	3.1	2.5	2.8	2.9	3.2	3.6	
8H	1.9	2.2	2.4	2.6	3.1	2.6	2.8	3.0	3.3	3.7	
12H	1.9	2.1	2.4	2.6	3.0	2.6	2.8	3.1	3.3	3.8	
12H	4H	1.8	2.1	2.2	2.5	2.9	2.2	2.5	2.6	2.9	3.3
6H	2.0	2.2	2.5	2.7	3.1	2.5	2.8	3.0	3.2	3.7	
8H	2.0	2.2	2.5	2.7	3.2	2.6	2.8	3.1	3.3	3.8	

Round Fixture	Angle	UGR Range
Spot	12°	≤4
Narrow Flood	25°	≤3
Flood	35°	≤5

Square Fixture	Angle	UGR Range
Spot	12°	≤1
Narrow Flood	25°	≤6
Flood	35°	≤7

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.

Multiplier	TRIM					
	827	927	830	930	835	840
HOUSING 22	0.95	0.81	1.00	0.86	1.05	1.07
HOUSING 15	0.66	0.56	0.69	0.59	0.72	0.74