

## Volta

### Static White - 4.5" Adjustable

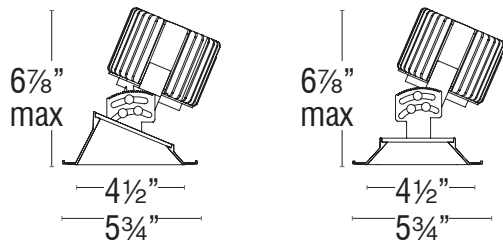
R4RAT | R4RAL | R4SAT | R4SAL

Fixture Type: \_\_\_\_\_  
 Project: \_\_\_\_\_  
 Catalog#: \_\_\_\_\_  
 Location: \_\_\_\_\_

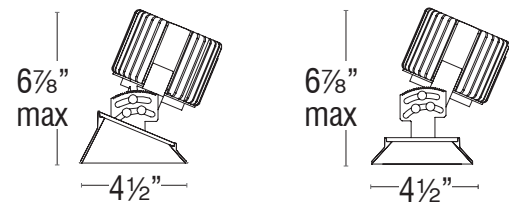


#### LINE DRAWING

##### TRIM



##### TRIMLESS



#### 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

<b>Construction:</b>	Durable die-cast self flanged aluminum construction
<b>Mounting:</b>	Heavy gauge retention clips support trim firmly Ceiling cut out (Round): Trim $\varnothing$ 5 $\frac{1}{8}$ " $\bigcirc$ Trimless $\varnothing$ 5 $\frac{1}{8}$ " $\bigcirc$ Ceiling cut out (Square): Trim 5 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " $\square$ Trimless 5 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " $\square$ Accommodates ceiling thickness of 1/2" - 1" up to 45°, 1 1/2" up to 35°
<b>Light Source:</b>	High output 3-step Mac Adam Ellipse COB Rated life of 50,000 hours at L70
<b>Input:</b>	Universal 120-277V AC, 50/60 Hz
<b>Dimming:</b>	0-10V: 100-0% Electronic Low Voltage (ELV): 100-5% Lutron Hi-Lume 1% Ecosystem Fade-to-Black option
<b>Maximum Delivered Intensity:</b>	Up to 11,674 cd (Round Spot 15°, 4000K, CRI 85)
<b>Maximum Delivered Output:</b>	Up to 2,504 lm (Round Narrow Flood 25°, 4000K, CRI 85)
<b>Standards:</b>	ETL & cETL Wet location listed
<b>Warranty:</b>	5 year WAC Lighting guaranteed warranty

#### BEAM ANGLES



#### FINISHES



Model	Beam	Lumens	Ref Output*		Lumens/Watt	Color Temp	CRI	
			CBCP					
R4RAT R4RAL	Round	S 15°	Round	1215	10910	56	<b>827 - 2700K</b>	85
			Square	1140	9175	53		
R4SAT R4SAL	Square	N 25° 20°	Round	2340	9250	69	<b>835 - 3500K</b>	85
			Square	1960	8340	57		
		F 40°	Round	2085	4720	63	<b>927 - 2700K</b>	90
			Square	1770	4495	52		
						<b>930 - 3000K</b>	90	

Lumens and CBCP are reference values for 3000K Color Temperature and 85 CRI with 36 housing. Refer to Multiplier Table in Performance Data to determine other outputs.

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

WAC Group Headquarters  
 44 Harbor Park Drive  
 Port Washington, NY 11050

WAC Lighting  
 Phone (800) 526.2588  
 Fax (800) 526.2585



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WAC GROUP

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Fixture Type: \_\_\_\_\_

Project: \_\_\_\_\_

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Location: \_\_\_\_\_

### ORDERING INFORMATION

CONFIGURATION TABLE				
Model & Power	Beam	Color Temperature & CRI	Reflector Finish	Trim Finish
R4RAT	S: Spot - 15°	827 - 2700K - 85	BK - BLACK	WT - WHITE
R4SAT	N: Narrow - 20/25°	830 - 3000K - 85	CB - COPPER	
R4RAL	F: Flood - 40°	835 - 3500K - 85	HZ - HAZE	
R4SAL		840 - 4000K - 85	WT - WHITE	
		927 - 2700K - 90		
		930 - 3000K - 90		

R4RAT-\_\_\_\_-\_\_

Example: R4RAT-N840-WT

HOUSINGS (Required)										
Model	Trim	Power	S	N,F,W	Rating	Driver	Emergency Backup			
New Construction IC Airtight	R4RN (Round) R4SN (Square)	T Trim	15	10W	15W	IC	DEFAULT ELV, 0-10V L1 Lutron Hi-Lume 1%	EM		
		L Trimless	25	15W	23W	IC				
			36	22W	34W	Non-IC				
New Construction IC Airtight Chicago Plenum	R4RC (Round) R4SC (Square)	T Trim	15	10W	15W	IC	DEFAULT ELV, 0-10V L1 Lutron Hi-Lume 1%	EM		
		L Trimless	25	15W	23W	IC				
			36	22W	34W	Non-IC				
Remodel Non-IC Round or Square	R4BR	T Trim	15	10W	15W	Non-IC	DEFAULT ELV, 0-10V	N/A		
			25	15W	23W	Non-IC				
			36	22W	34W	Non-IC				
Remodel Non-IC	R4RR (Round) R4SR (Square)	L Trimless	15	10W	15W	Non-IC	DEFAULT ELV, 0-10V	N/A		
			25	15W	23W	Non-IC				
			36	22W	34W	Non-IC				

ACCESSORIES			
LENS-73-HLD	Accessory Holder	LENS-73-GRN	Green Lens
LENS-73-HCM	Honeycomb Louver	LENS-73-RED	Red Lens
LENS-73-CRL	Cross Louver	LENS-73-FR	Frosted Lens
LENS-73-SNOOT	Snoot	LENS-73-SPR	Spread Lens
LENS-73-AMB	Amber Lens	LENS-73-BEL	Beam Elongating Lens
LENS-73-BLU	Blue Lens		

FIELD REPLACEABLE DRIVER	
D-R4N-15	Driver for 15W New Construction Housing
D-R4N-25	Driver for 23W New Construction Housing
D-R4N-36	Driver for 34W New Construction Housing

INTERCHANGEABLE REFLECTORS	
REF-R4-N	Narrow Flood Beam
REF-R4-F	Flood Beam
REF-R4-W	Wide Beam

### ORDERING NOTES

- The "White" trim finish is only available with the reflector finishes "Black" and "Haze".
- Trimless fixtures cannot be ordered with a trim finish.
- The "Spot - 15°" beam angle is available in 10W, 15W, and 22W.
- The "Narrow Flood - 20/25°" and "Flood - 40°" beam angles are available in 15W, 23W, and 34W.
- The "Narrow Flood" beam angle is 20° if ordered in a Square profile and 25° if ordered in a Round profile.

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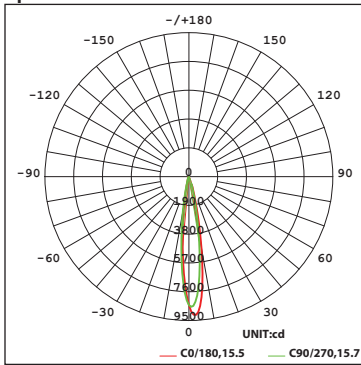
### PERFORMANCE DATA

#### Polar Candela Distribution Charts

Samples shown with a 22W/34W (depending on beam angle) fixture set to 3000K and 90 CRI.

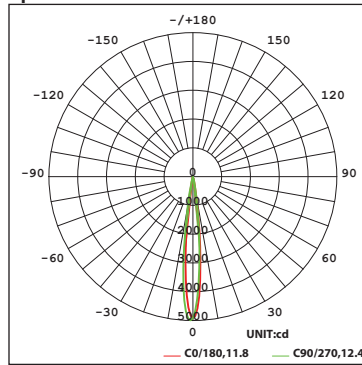
#### ROUND

Spot Beam: 15° Beam

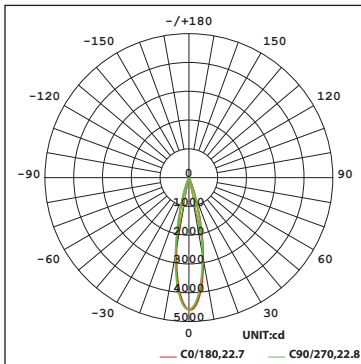


#### SQUARE

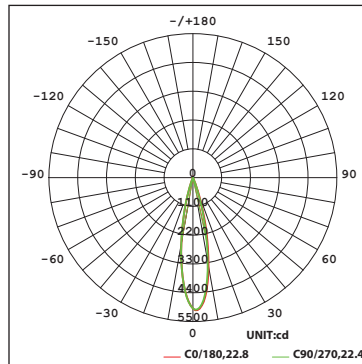
Spot Beam: 15° Beam



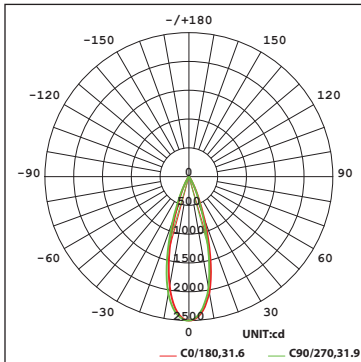
Narrow Flood Beam: 25° Beam



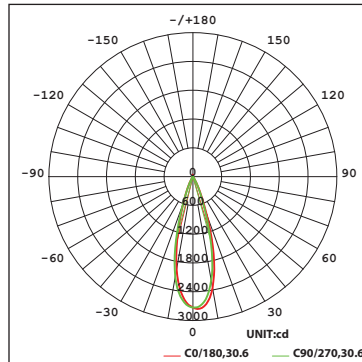
Narrow Flood Beam: 20° Beam



Flood Beam: 40° Beam



Flood Beam: 40° Beam



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Location: \_\_\_\_\_

### PERFORMANCE DATA

#### Unified Glare Rating (UGR) Table

UGR values shown are calculated for a Round Trim fixture with a 22W Spot Beam (15°) 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					
<b>x = 2H y = 2H</b>	4.5	5.1	4.7	5.3	5.4	4.0	4.6	4.2	4.8	4.9	
3H	4.5	5.1	4.8	5.3	5.5	4.2	4.7	4.4	4.9	5.1	
4H	4.5	5.0	4.8	5.2	5.5	4.2	4.7	4.4	4.9	5.1	
6H	4.4	5.0	4.7	5.2	5.4	4.1	4.7	4.4	4.9	5.1	
8H	4.4	4.9	4.7	5.1	5.4	4.1	4.6	4.4	4.9	5.1	
12H	4.4	4.8	4.7	5.1	5.4	4.1	4.6	4.4	4.8	5.1	
<b>4H</b>	2H	4.4	5.0	4.7	5.2	5.4	3.9	4.5	4.2	4.7	4.9
3H	4.4	4.9	4.8	5.2	5.5	4.1	4.6	4.4	4.9	5.1	
4H	4.4	4.9	4.8	5.2	5.5	4.2	4.6	4.5	4.9	5.2	
6H	4.3	4.7	4.7	5.1	5.4	4.1	4.5	4.5	4.9	5.2	
8H	4.3	4.7	4.7	5.0	5.4	4.1	4.5	4.5	4.8	5.2	
12H	4.3	4.6	4.7	5.0	5.3	4.1	4.4	4.5	4.8	5.2	
<b>8H</b>	4H	4.3	4.7	4.7	5.0	5.4	4.0	4.4	4.4	4.8	5.1
6H	4.2	4.6	4.7	4.9	5.4	4.0	4.3	4.5	4.7	5.1	
8H	4.2	4.5	4.6	4.9	5.3	4.0	4.3	4.5	4.7	5.1	
12H	4.1	4.4	4.6	4.8	5.3	4.0	4.2	4.4	4.6	5.1	
<b>12H</b>	4H	4.3	4.6	4.7	5.0	5.4	4.0	4.3	4.4	4.7	5.1
6H	4.2	4.5	4.6	4.9	5.3	4.0	4.3	4.4	4.7	5.1	
8H	4.1	4.4	4.6	4.8	5.3	4.0	4.2	4.4	4.6	5.1	

Round Fixture	Angle	UGR Range
Spot	15°	≤6
Narrow Flood	25°	≤7
Flood	40°	≤9

Square Fixture	Angle	UGR Range
Spot	15°	≤4
Narrow Flood	20°	≤8
Flood	40°	≤10

#### 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	36	0.95	0.81	1.00	0.86	1.05	1.07
	25	0.66	0.56	0.69	0.59	0.73	0.74
	15	0.43	0.37	0.45	0.39	0.48	0.49