

Volta

Static White - 4.5" Adjustable

R4RAT | R4RAL | R4SAT | R4SAL

Fixture Type: _____

Project: _____

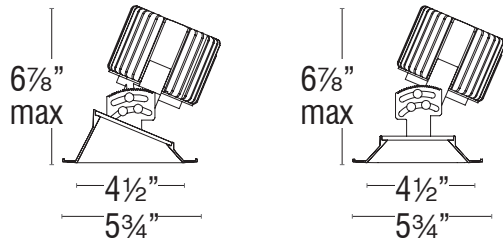
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Location: _____

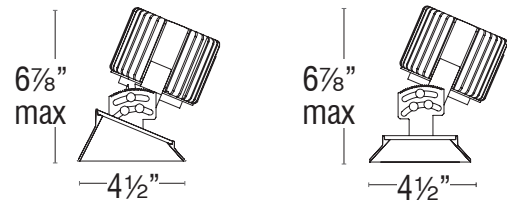


LINE DRAWING

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

Construction:	Durable die-cast self flanged aluminum construction
Mounting:	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°
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 11,674 cd (Round Spot 15°, 4000K, CRI 85)
Maximum Delivered Output:	Up to 2,504 lm (Round Narrow Flood 25°, 4000K, CRI 85)
Standards:	ETL & cETL Wet location listed
Warranty:	5 year WAC Lighting guaranteed warranty

BEAM ANGLES



S - 15°



N - 20/25°



F - 40°

FINISHES



Black BK



Copper Bronze CB



Haze HZ



White WT



Black White BKWT



Haze White HZWT

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

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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 L Trimless	15	10W	15W	IC	DEFAULT ELV, 0-10V	EM
			25	15W	23W	IC		
			36	22W	34W	Non-IC		
New Construction IC Airtight Chicago Plenum	R4RC (Round) R4SC (Square)	T Trim L Trimless	15	10W	15W	IC	DEFAULT ELV, 0-10V	EM
			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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WAC GROUP

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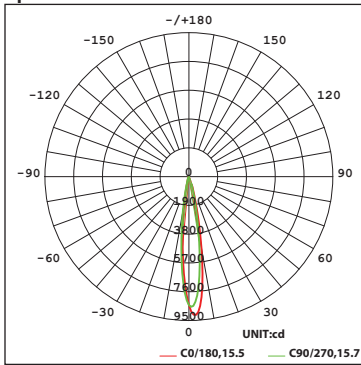
PERFORMANCE DATA

Polar Candela Distribution Charts

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

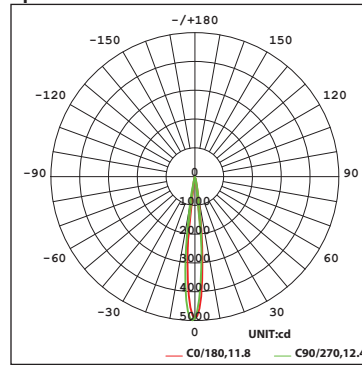
ROUND

Spot Beam: 15° Beam

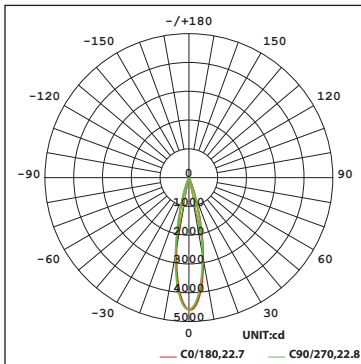


SQUARE

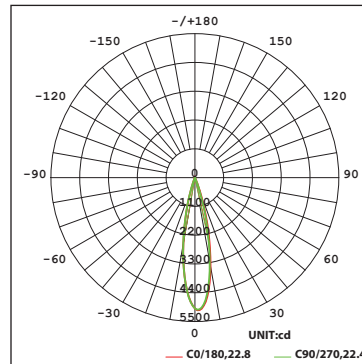
Spot Beam: 15° Beam



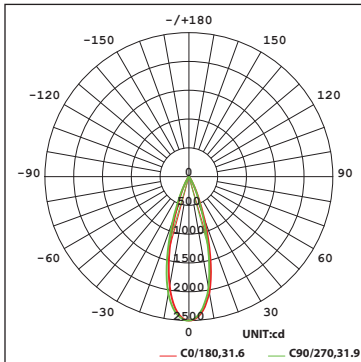
Narrow Flood Beam: 25° Beam



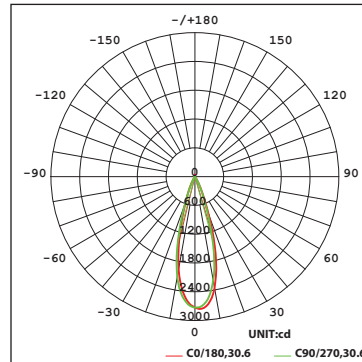
Narrow Flood Beam: 20° Beam



Flood Beam: 40° Beam



Flood Beam: 40° Beam



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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					
x = 2H y = 2H	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	
4H	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	
8H	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	
12H	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