

Volta

Static White - 2" Shallow Regressed Downlight

R2RD1T | R2SD1T

Fixture Type: _____

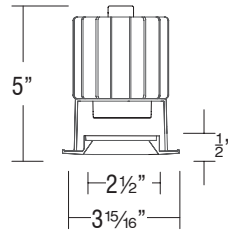
Project: _____

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.

SPECIFICATIONS

Construction:	Durable die-cast self flanged aluminum construction
Mounting:	Heavy gauge retention clips support trim firmly Ceiling cut out (Round): Trim $\varnothing 3\frac{9}{16}"$ Trimless $\varnothing 4\frac{1}{4}"$ Ceiling cut out (Square): Trim $3\frac{9}{16}" \times 3\frac{9}{16}"$ Trimless $4\frac{1}{4}" \times 4\frac{1}{4}"$ Accommodates $\frac{1}{2}" - 1\frac{1}{2}"$ 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% Lutron Hi-Lume 1% Ecosystem Fade-to-Black option
Maximum Delivered Intensity:	Up to 6,575 cd (Round Narrow Flood 25°, 4000K, CRI 85)
Maximum Delivered Output:	Up to 1,584 lm (Square Flood 40°, 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*				
R2RD1T Round R2SD1T Square	S 12°	Round	395	5910	827 - 2700K	85
		Square	420	6085		
	N 25°	Round	1255	5380	830 - 3000K	85
		Square	1460	6145		
	F 40°	Round	1270	3085	840 - 4000K	85
		Square	1480	3315		
	W 60°	Round	905	1020	927 - 2700K	90
		Square	1075	1035		

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.

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

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ORDERING INFORMATION

CONFIGURATION TABLE				
Model & Power	Beam	Color Temperature & CRI	Reflector Finish	Trim Finish
R2RD1T	S: Spot - 12°	827 - 2700K - 85	BK - BLACK	WT - WHITE
R2SD1T	N: Narrow Flood - 25°	830 - 3000K - 85	CB - COPPER	
	F: Flood - 40°	835 - 3500K - 85	HZ - HAZE	
	W: Wide Flood - 60°	840 - 4000K - 85	WT - WHITE	
		927 - 2700K - 90		
		930 - 3000K - 90		

R2RD1T-___-___ Example: R2RD1T-N840-WT

HOUSINGS (Required)										
Model	Trim	Power	S	N,F,W	Rating	Driver	Emergency Backup			
New Construction Airtight	R2RN (Round)	T Trim	15	10W	15W	IC	DEFAULT	ELV, 0-10V		
	R2SN (Square)	L Trimless	22	15W	22W	IC	L1	Lutron Hi-Lume 1%		
New Construction Airtight Chicago Plenum	R2RC (Round)	T Trim	15	10W	15W	IC	DEFAULT	ELV, 0-10V		
	R2SC (Square)	L Trimless	22	15W	22W	IC	L1	Lutron Hi-Lume 1%		
Remodel Round or Square	R2BR	T Trim	15	10W	15W	Non-IC	DEFAULT	ELV, 0-10V		
			22	15W	22W	Non-IC				
Remodel	R2RR (Round)	L Trimless	15	15W	15W	Non-IC	DEFAULT	ELV, 0-10V		
			22	22W	22W	Non-IC				

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
1. The "White" trim finish is only available with the reflector finishes "Black" and "Haze".
2. The "Spot - 12°" beam angle is available in 10W and 15W.
3. The "Narrow Flood - 25°", "Flood - 40°", and "Wide Flood - 60°" beam angles are available in 15W and 22W.

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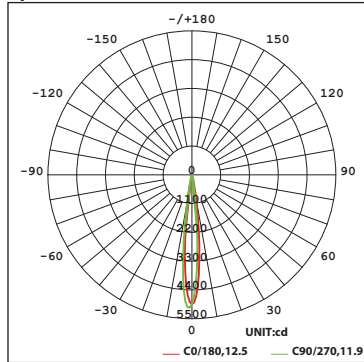
PERFORMANCE DATA

Polar Candela Distribution Charts

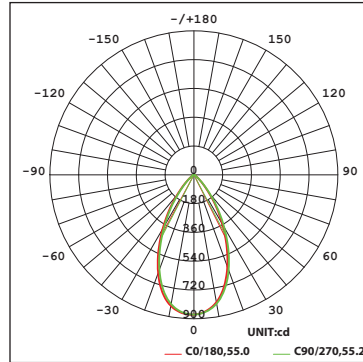
Samples shown with a 22W fixture set to 3000K and 90 CRI.

ROUND

Spot Beam: 12° Beam

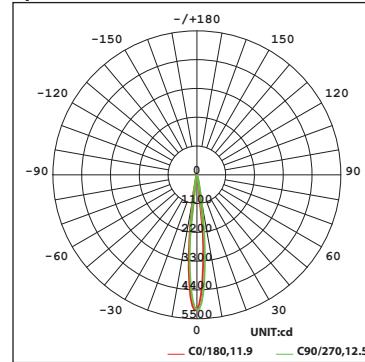


Wide Flood Beam: 60° Beam

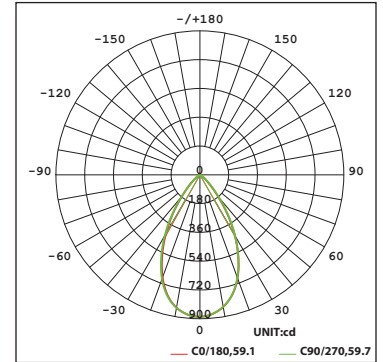


SQUARE

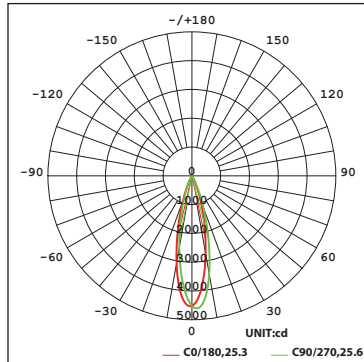
Spot Beam: 12° Beam



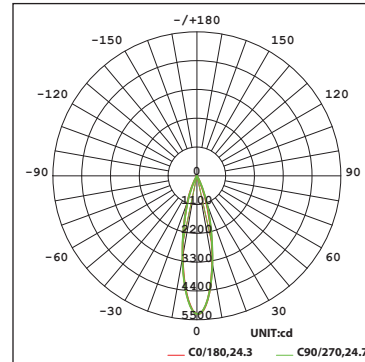
Wide Flood Beam: 60° Beam



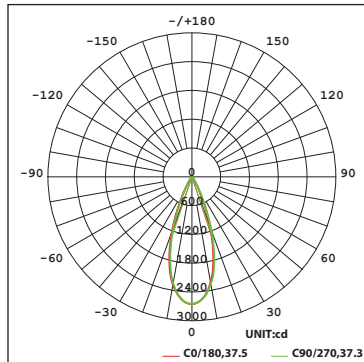
Narrow Flood Beam: 25° Beam



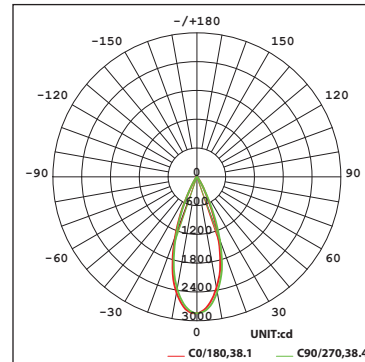
Narrow Flood Beam: 25° Beam



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 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										
2H	2.9	3.5	3.1	3.6	3.8	3.5	4.1	3.7	4.2	4.3
3H	3.0	3.5	3.2	3.6	3.8	3.5	4.0	3.8	4.2	4.4
4H	2.9	3.4	3.2	3.6	3.8	3.5	4.0	3.8	4.2	4.4
6H	2.9	3.4	3.2	3.6	3.8	3.5	3.9	3.7	4.2	4.4
8H	2.9	3.3	3.2	3.6	3.8	3.4	3.9	3.7	4.1	4.4
12H	2.8	3.3	3.1	3.5	3.8	3.4	3.8	3.7	4.1	4.4
4H										
2H	2.8	3.3	3.1	3.5	3.7	3.4	3.9	3.7	4.1	4.3
3H	2.9	3.3	3.2	3.6	3.8	3.5	3.9	3.8	4.2	4.4
4H	2.9	3.3	3.2	3.6	3.9	3.5	3.9	3.8	4.2	4.5
6H	2.9	3.2	3.2	3.5	3.9	3.4	3.8	3.8	4.1	4.4
8H	2.8	3.2	3.2	3.5	3.9	3.4	3.7	3.8	4.1	4.4
12H	2.8	3.1	3.2	3.5	3.9	3.3	3.6	3.7	4.0	4.4
8H										
4H	2.8	3.1	3.2	3.5	3.8	3.4	3.7	3.7	4.0	4.4
6H	2.8	3.0	3.2	3.4	3.8	3.3	3.6	3.7	4.0	4.4
8H	2.7	3.0	3.2	3.4	3.8	3.3	3.5	3.7	3.9	4.4
12H	2.7	2.9	3.2	3.4	3.8	3.2	3.4	3.7	3.9	4.3
12H										
4H	2.7	3.0	3.1	3.4	3.8	3.3	3.6	3.7	4.0	4.4
6H	2.7	3.0	3.1	3.4	3.8	3.2	3.5	3.7	3.9	4.3
8H	2.7	2.9	3.2	3.3	3.8	3.2	3.4	3.7	3.9	4.3

Round Fixture	Angle	UGR Range
Spot	12°	≤5
Narrow Flood	25°	≤3
Flood	40°	≤6
Wide Flood	60°	≤15

Square Fixture	Angle	UGR Range
Spot	12°	≤5
Narrow Flood	25°	≤3
Flood	40°	≤6
Wide Flood	60°	≤16

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
15	0.66	0.56	0.69	0.59	0.72	0.74