

Volta

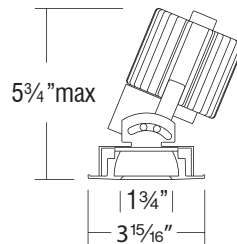
Static White - 2" Pinhole

R2RPT | R2SPT

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 Pinhole Volta fixtures are capable of adjusting 0-30° 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 $\text{\O} 3\frac{9}{16}"$ Trimless $\text{\O} 4\frac{1}{4}"$ 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 5,714 cd (Square Narrow Flood 20°, 4000K, CRI 85)
Maximum Delivered Output:	Up to 770 lm (Square Narrow Flood 20°, 4000K, CRI 85)
Standards:	ETL & cETL Wet location listed
Warranty:	5 year WAC Lighting guaranteed warranty

BEAM ANGLES



S - 12°



N - 20°

FINISHES



Black
BK



Copper Bronze
CB



Haze
HZ



White
WT

Model	Beam	Lumens	CBCP	Color Temp	CRI
R2RPT R2SPT	S 12°	Round	235	3380	85
		Square	285	4780	85
					85
	N 20°	Round	555	4805	90
		Square	720	5340	90
					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
R2RPT	S: Spot - 12°	827 - 2700K - 85	BK - BLACK	-
R2SPT	N: Narrow Flood - 20°	830 - 3000K - 85	CB - COPPER	
		835 - 3500K - 85	HZ - HAZE	
		840 - 4000K - 85	WT - WHITE	
		927 - 2700K - 90		
		930 - 3000K - 90		

R2RPT-____-__ Example: R2RPT-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	EM Optional
	R2SN (Square)	L Trimless	22	15W	22W	IC	L1 Lutron Hi-Lume 1%	
New Construction Chicago Plenum	R2RC (Round)	T Trim	15	10W	15W	IC	DEFAULT ELV, 0-10V	EM Optional
	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	N/A
			22	15W	22W	Non-IC		
Remodel	R2RR (Round)	L Trimless	15	15W	15W	Non-IC	DEFAULT ELV, 0-10V	N/A
	R2SR (Square)		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

- 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°" beam angle is available in 15W and 22W.

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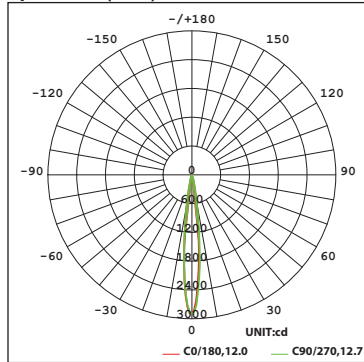
PERFORMANCE DATA

Polar Candela Distribution Charts

Samples shown with 3000K and 90 CRI.

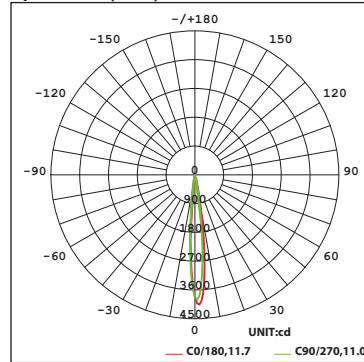
ROUND

Spot Beam (15W): 12° Beam

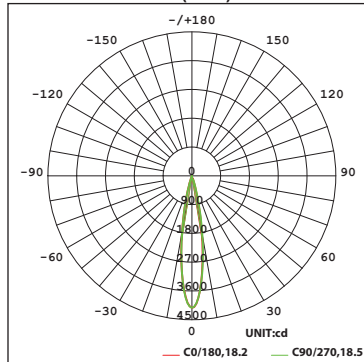


SQUARE

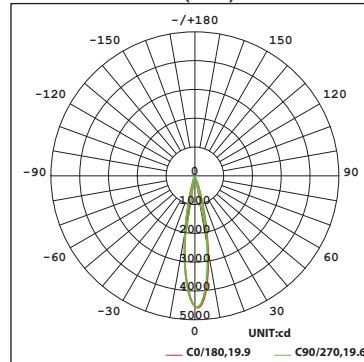
Spot Beam (15W): 12° Beam



Narrow Flood Beam (22W): 20° Beam



Narrow Flood Beam (22W): 20° 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	-4.9	-4.4	-4.7	-4.3	-4.1	-6.3	-5.9	-6.2	-5.7	-5.6	
3H	-5.0	-4.5	-4.8	-4.3	-4.2	-6.4	-6.0	-6.2	-5.8	-5.6	
4H	-5.0	-4.6	-4.8	-4.4	-4.2	-6.5	-6.0	-6.2	-5.8	-5.6	
6H	-4.5	-4.1	-4.2	-3.8	-3.6	-6.4	-6.0	-6.1	-5.8	-5.5	
8H	-4.3	-3.9	-4.0	-3.6	-3.4	-6.2	-5.8	-5.9	-5.5	-5.3	
12H	-4.1	-3.7	-3.8	-3.4	-3.2	-6.1	-5.7	-5.8	-5.5	-5.2	
4H	2H	-5.1	-4.6	-4.8	-4.4	-4.2	-6.5	-6.1	-6.3	-5.9	-5.6
3H	-5.2	-4.8	-4.9	-4.5	-4.3	-6.6	-6.2	-6.3	-6.0	-5.7	
4H	-5.2	-4.9	-4.9	-4.6	-4.3	-6.6	-6.3	-6.3	-6.0	-5.7	
6H	-4.5	-4.2	-4.2	-3.9	-3.5	-6.5	-6.1	-6.1	-5.8	-5.5	
8H	-4.2	-3.9	-3.8	-3.5	-3.2	-6.0	-5.7	-5.6	-5.3	-5.0	
12H	-3.8	-3.5	-3.4	-3.2	-2.8	-5.8	-5.5	-5.4	-5.2	-4.8	
8H	4H	-5.3	-5.0	-5.0	-4.7	-4.3	-6.7	-6.4	-6.3	-6.0	-5.7
6H	-4.5	-4.2	-4.1	-3.8	-3.4	-6.3	-6.0	-5.9	-5.6	-5.2	
8H	-3.8	-3.6	-3.4	-3.2	-2.7	-5.4	-5.1	-4.9	-4.7	-4.3	
12H	-3.4	-3.2	-2.9	-2.7	-2.3	-5.1	-4.9	-4.7	-4.5	-4.0	
12H	4H	-5.3	-5.1	-4.9	-4.7	-4.3	-6.7	-6.4	-6.3	-6.0	-5.6
6H	-4.4	-4.1	-3.9	-3.7	-3.3	-6.1	-5.8	-5.6	-5.4	-5.0	
8H	-3.5	-3.3	-3.0	-2.9	-2.4	-4.9	-4.7	-4.4	-4.3	-3.8	

Round Fixture	Angle	UGR Range
Spot	12°	≤0
Narrow Flood	20°	≤0

Square Fixture	Angle	UGR Range
Spot	12°	≤0
Narrow Flood	20°	≤0

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	HOUSING	TRIM					
		827	927	830	930	835	840
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