

Volta

Static White - 4.5" Shallow Regressed Downlight

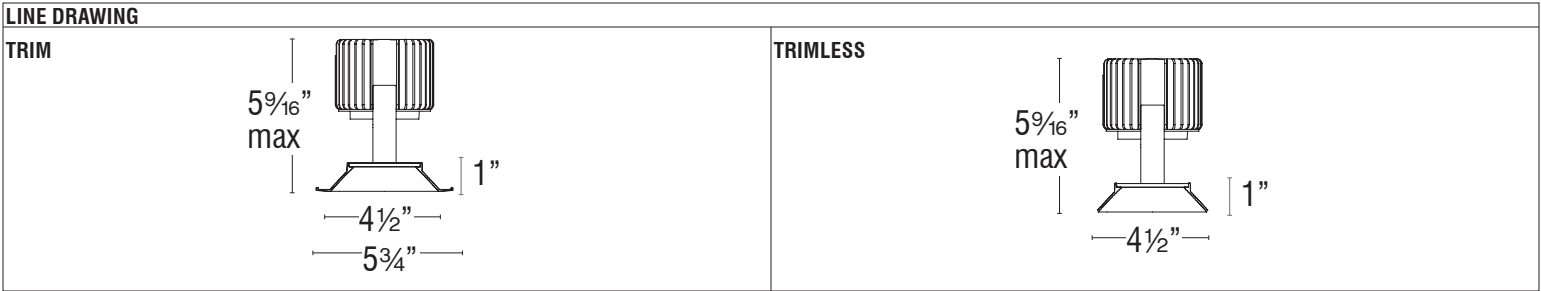
R4RD1T | R4RD1L | R4SD1T | R4SD1L

Fixture Type: _____

Project: _____

Catalog#: _____

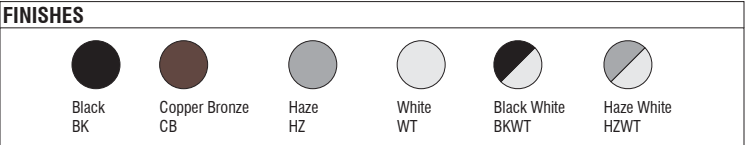
Location: _____



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. A built-in field selectable light engine height allows for a cut-off angle adjustment of 32-40°.

SPECIFICATIONS	
Construction:	Durable die-cast self flanged aluminum construction
Mounting:	Heavy gauge retention clips support trim firmly Ceiling cut out (Round): Trim Ø 5 1/8" Trimless Ø 5 1/8" Ceiling cut out (Square): Trim 5 1/8" x 5 1/8" Trimless 5 1/8" x 5 1/8" Accommodates ceiling thickness of 1/2" - 1 1/2"
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 12,080 cd (Round Spot 15°, 4000K, CRI 85)
Maximum Delivered Output:	Up to 3,622 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



Model	Beam	Ref Output*			Color Temp	CRI
		Lumens	CBCP	Lumens/Watt		
R4RD1T R4RD1L Round	S 15°	Round	1415	11290	827 - 2700K	85
		Square	1450	9650		
	N 25°	Round	3160	9655	830 - 3000K	85
		Square	3385	8760	835 - 3500K	85
R4SD1T R4SD1L Square	F 45°	Round	3035	5070	840 - 4000K	85
		Square	3290	4880	927 - 2700K	90
	W 60°	Round	2925	3065	930 - 3000K	90
		Square	3125	3030		

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
R4RD1T R4SD1T R4RD1L R4SD1L	S: Spot - 15°	827 - 2700K - 85	BK - BLACK	WT - WHITE
	N: Narrow Flood - 25°	830 - 3000K - 85	CB - COPPER	
	F: Flood - 45°	835 - 3500K - 85	HZ - HAZE	
	W: Wide Flood - 60°	840 - 4000K - 85	WT - WHITE	
		927 - 2700K - 90		
		930 - 3000K - 90		

R4RD1T-____-__ Example: R4RD1T-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	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	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	
1.	The “White” trim finish is only available with the reflector finishes “Black” and “Haze”.
2.	Trimless fixtures cannot be ordered with a trim finish.
3.	The “Spot - 15°” beam angle is available in 10W, 15W, and 22W.
4.	The “Narrow Flood - 25°”, “Flood - 45°”, “Wide Flood - 60°” beam angles are available in 15W, 23W, and 34W.

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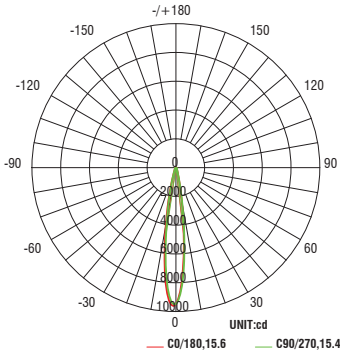
PERFORMANCE DATA

Polar Candela Distribution Charts

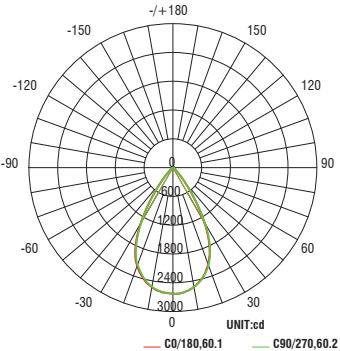
Samples shown with a 22W/34W (depending on beam angle) fixture set to 3000K and 90 CRI.

ROUND

Spot Beam: 15° Beam

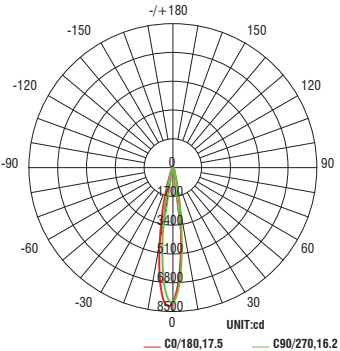


Wide Flood Beam: 60° Beam

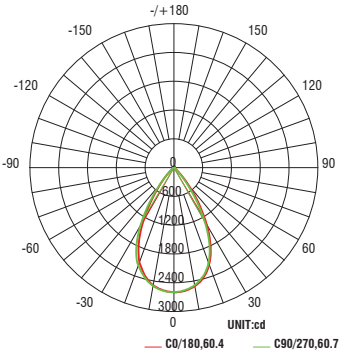


SQUARE

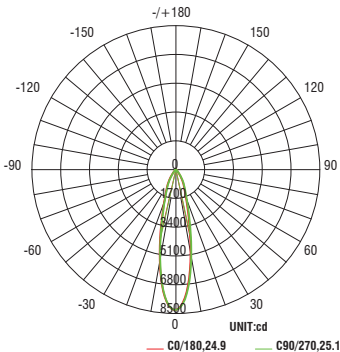
Spot Beam: 15° Beam



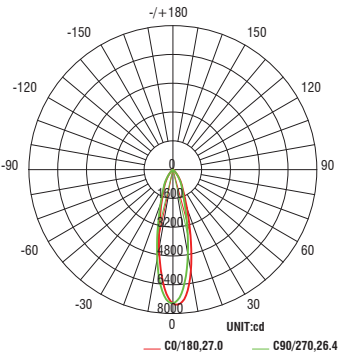
Wide Flood Beam: 60° Beam



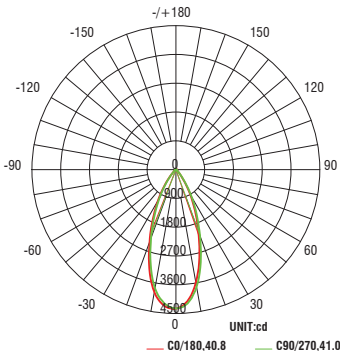
Narrow Flood Beam: 25° Beam



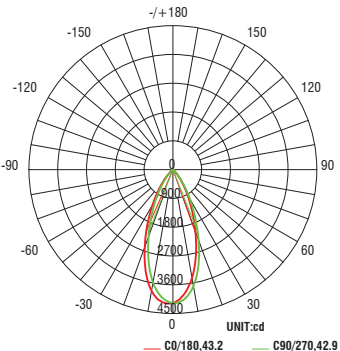
Narrow Flood Beam: 25° Beam



Flood Beam: 45° Beam



Flood Beam: 45° Beam



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PERFORMANCE DATA

Unified Glare Rating (UGR) Table

UGR values shown are calculated at 3000K and 90 CRI.

Round Fixture	Angle	UGR Range	Square Fixture	Angle	UGR Range
Spot	15°	≤ 15	Spot	15°	≤ 17
Narrow Flood	25°	≤ 11	Narrow Flood	25°	≤ 13
Flood	45°	≤ 12	Flood	45°	≤ 12
Wide Flood	60°	≤ 14	Wide Flood	60°	≤ 15

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