



VOLTA

ARCHITECTURAL LED RECESSED 2" & 4.5"

WAC LIGHTING

VOLTA ARCHITECTURAL LED RECESSED 2" & 4.5"

Specifiable lumen outputs up to 1800 lumens on 2" recessed and 3620 lumens on 4.5" recessed

Specifier friendly approach to design and ordering

Universal housing and trim ship separately - make the key decisions after housing is installed

Easy model numbering - Simplicity in specifying and ordering

FEATURING

FLEXIBLE

- Universal input voltage ranging from 120V through 277V
- Choice of multiple apertures, dimming protocols, power and light outputs

VERSATILE

- Wet location listed standard
- Vertical and horizontal adjustment for accenting and slope ceiling applications

COMFORTABLE

- Optimized cut-off for superior glare control
- Wide range of accessories, including glare control, optic and color lenses

CONTROLLABLE

- Reverse phase and 0-10V dimming standard
- Field interchangeable optics

CAPABLE

- Delivered output over 3600 lumens and 100 lumens per watt
- Beam spreads from 15° spot to 60° wide flood

Today's energy codes demand flexibility in power consumption.

Volta allows the specifier to budget power and expend it only as needed.

Volta performs in high illuminance retail applications as well as hospitality and residential settings where comfortable ambiance is desired.



ANATOMY OF PRECISION



LOCKING QUICK CONNECTOR
Snap onto universal housing

LIGHT ENGINE
Energy efficient long life LED with multiple CCT and CRI selections

UNIVERSAL MOUNTING
Installation up to 1½" ceiling thickness

PRECISION OPTICS
Crisp illumination with tool-less field changeable reflectors
Spot distribution features dedicated module

OPTICAL CARTRIDGE
Tool-less field changeable optics

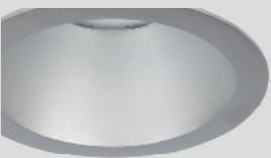
PERSONALIZE
Lighting is an art
Create mood with various accessories

FINISHING TOUCH
Self flanged die cast trims standard with wet location hinged lens
Choice of 6 finishes to integrate into the architecture

Architectural grade finishes



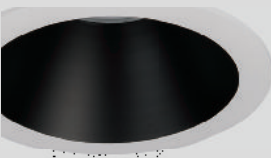
White



Haze



Haze / White



Black / White

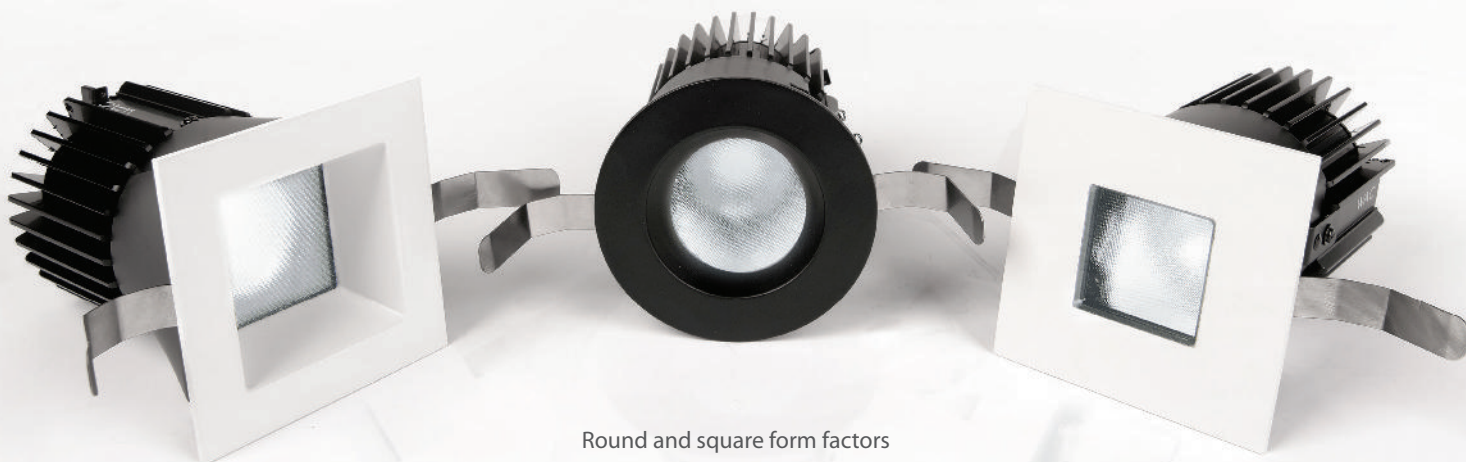


Black

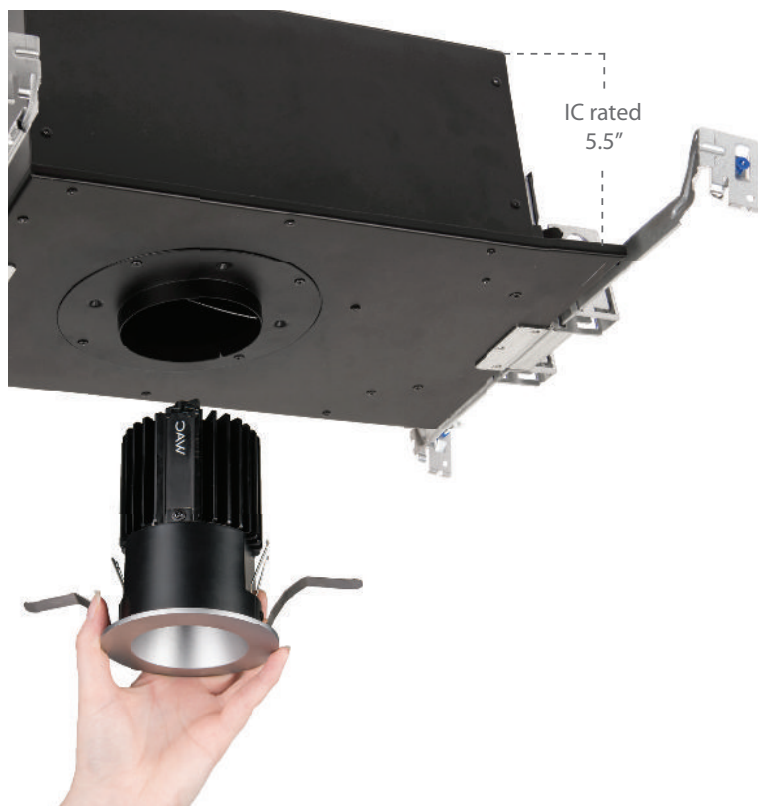


Copper Bronze

**small aperture
HUGE PERFORMANCE**



Round and square form factors
Dual finish trims are physically seamless
Die-cast self flanged aluminum construction
Choices of trims include downlights, 45° adjustable and pinhole, wall wash

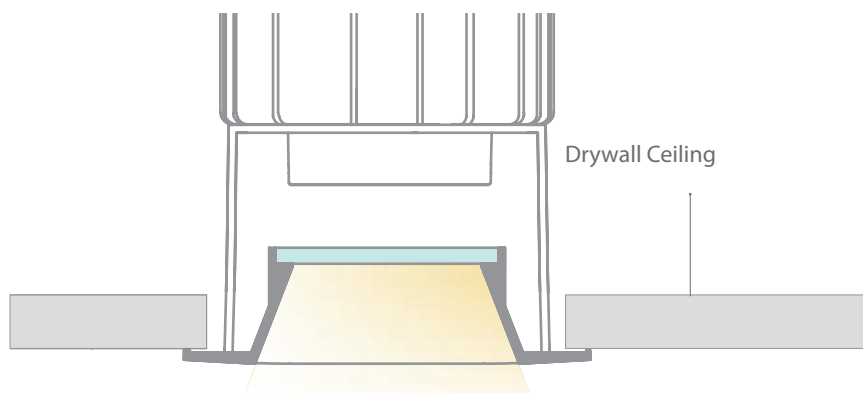


NEW CONSTRUCTION HOUSING

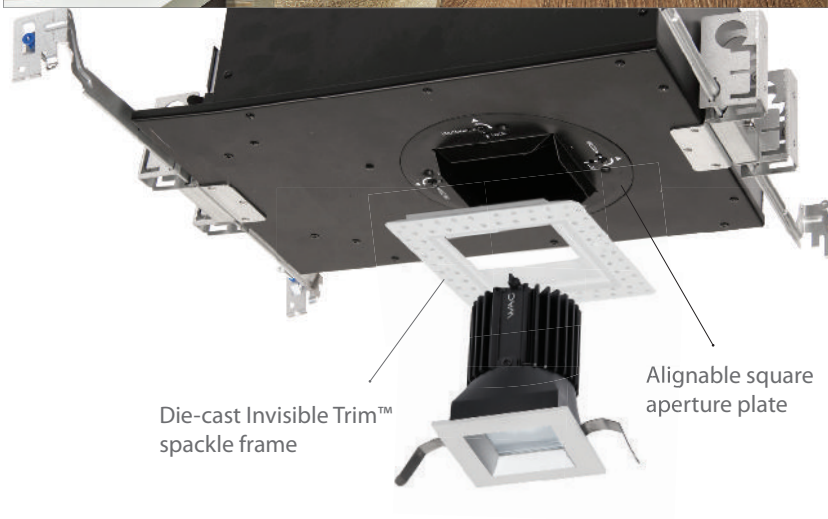
- 22W and 15W power options
- Chicago Plenum and Emergency backup available
- Universal mounting bracket (Hanger bars included)

Installation and service ease
Quickly removable trim assembly and
below ceiling serviceable cutout

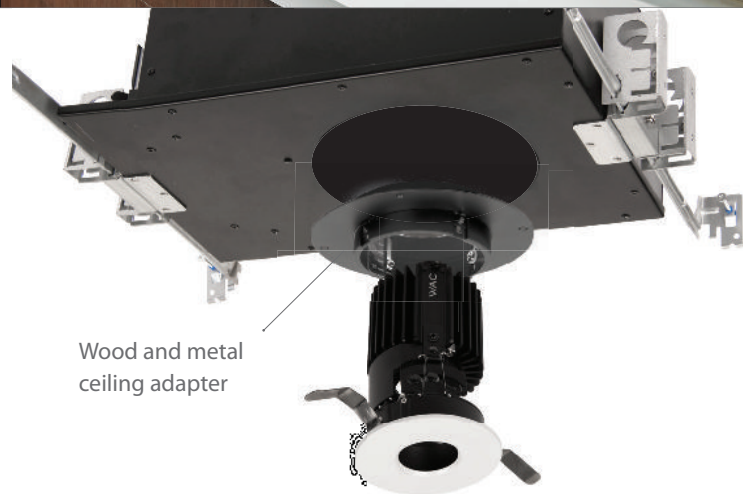
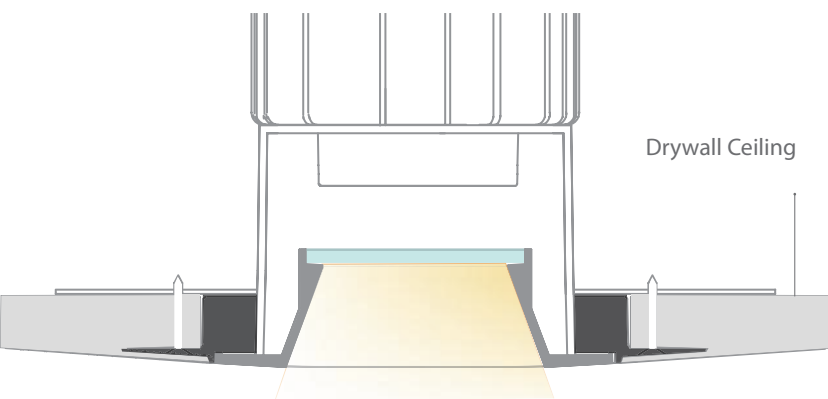
TRIMMED INSTALLATION



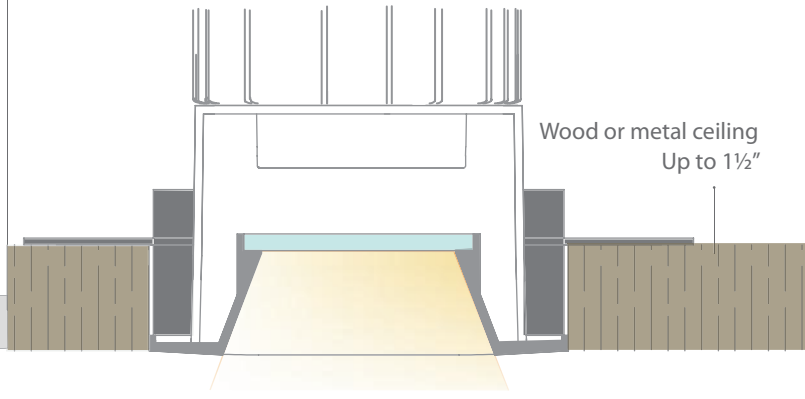
VOLTA ARCHITECTURAL LED RECESSED 2"



INVISIBLE TRIM™ INSTALLATION



WOOD AND METAL CEILING INSTALLATION



VOLTA ARCHITECTURAL LED RECESSED 2"

DOWNLIGHT



- General illumination
- Superior glare control

SHALLOW REGRESSED DOWNLIGHT

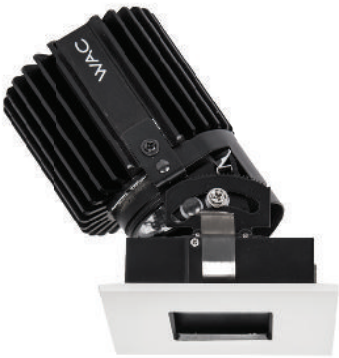


- Increased field angle for reduced scalloping
- Low ceiling and close to wall applications



VOLTA ARCHITECTURAL LED RECESSED 2"

ADJUSTABLE



ADJUSTABLE

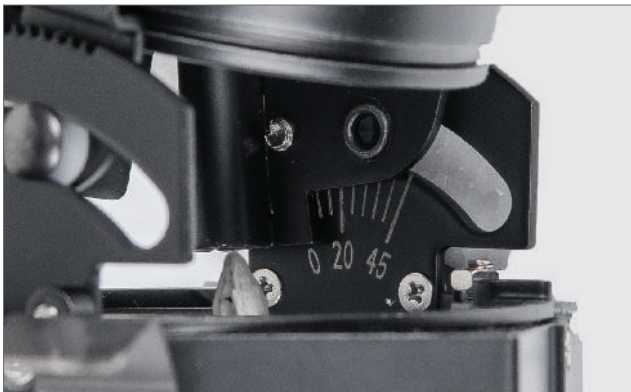


PINHOLE



- Center beam alignment maintained throughout adjustment range
- 0-45° vertical and 365° horizontal lockable hot aiming

PRECISION AIMING

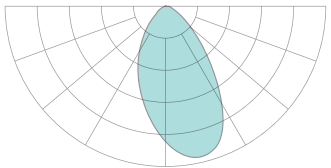


0 - 45° vertical lockable hot aiming



365° horizontal lockable hot aiming

WALL WASH



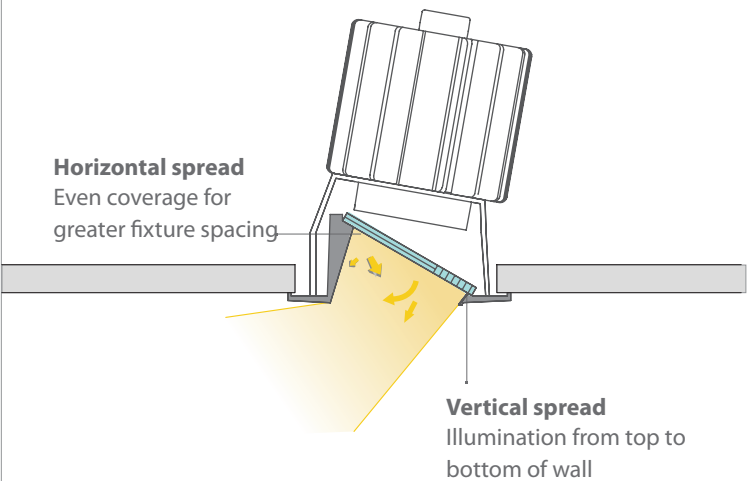
- Innovative bi-directional spread lens
- Engineered for even wall illumination horizontally and vertically

BI-DIRECTIONAL SPREAD LENS



Horizontal spread

Even coverage for greater fixture spacing



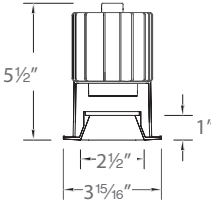
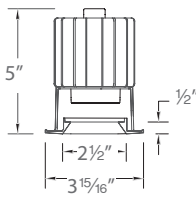
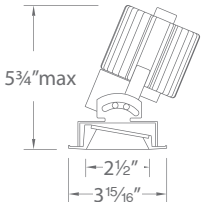
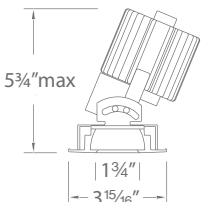
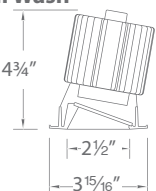
Vertical spread

Illumination from top to bottom of wall

VOLTA ARCHITECTURAL LED RECESSED 2"

Lumens: Up to 1800
Input: 120 - 277V
Power: 15W, 22W
Comparable to: 35W HID

CRI: Up to 90
Dimming: ELV, 0-10V
Rated Life: 50,000 hours

TRIM	Model	Beam	Lumens - 22 Housing @ 830	CBCP	Color Temp	CRI	Finishes	Reflector/Trim
Downlight 	R2RD2T Round Trim R2SD2T Square Trim	S 15°	Round 345	3290	827 2700K 85 830 3000K 85 835 3500K 85 840 4000K 85 927 2700K 90 930 3000K 90	85	BK Black BKWT Black/White CB Copper Bronze HZ Haze HZWT Haze/White WT White	
			Square 370	3540				
		N 25°	Round 1410	6815				
			Square 1535	7770				
		F 40°	Round 1265	3165				
			Square 1445	3615				
		W 60°	Round 1170	1135				
			Square 1390	1385				
Shallow Regressed Downlight 	R2RD1T Round Trim R2SD1T Square Trim	S 15°	Round 345	3270			BK Black BKWT Black/White CB Copper Bronze HZ Haze HZWT Haze/White WT White	
			Square 385	3170				
		N 25°	Round 1440	6955				
			Square 1590	6625				
		F 40°	Round 1330	3325				
			Square 1680	3670				
		W 60°	Round 1390	1385				
			Square 1600	1550				
Adjustable Round shown 	R2RAT Round Trim R2SAT Square Trim	S 15°	Round 300	3070			BK Black BKWT Black/White CB Copper Bronze HZ Haze HZWT Haze/White WT White	
			Square 335	2770				
		N 25°	Round 1270	5290				
			Square 1380	5765				
		F 40°	Round 1140	2485				
			Square 1465	3190				
Pinhole Round shown 	R2RPT Round Trim R2SPT Square Trim	S 15°	Round 200	2755			BK Black CB Copper Bronze HZ Haze WT White	
			Square 280	2825				
		N 25°	Round 850	3545				
			Square 1155	4825				
Wall Wash Round shown 	R2RWT Round Trim R2SWT Square Trim	A Asym	Round 1115	750			BK Black BKWT Black/White CB Copper Bronze HZ Haze HZWT Haze/White WT White	
			Square 1035	775				

Example: R2RPT-S930-BK

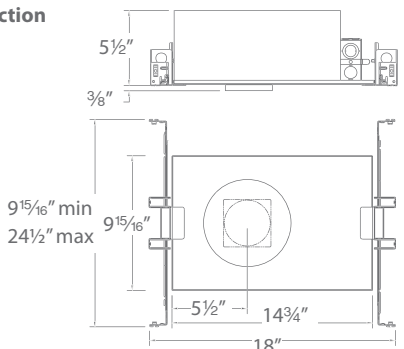
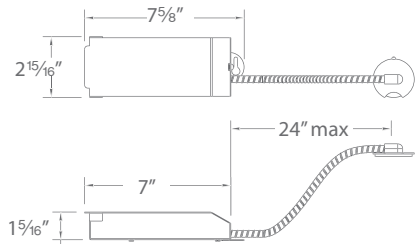
PHOTOMETRIC MULTIPLIER TABLE Use to determine outputs other than -22 housing @ 830

Housing Model	CRI and Color Temp					
	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

WATTAGE TABLE

Housing Model	Beam Spread	
	S	N, F, W, A
22	15W	22W
15	10W	15W

VOLTA ARCHITECTURAL LED RECESSED 2"

Housing (Required)	Model	Trim	Power	Emergency Backup
New Construction Airtight IC 	R2RN Round R2RC Round Chicago Plenum R2SN Square R2SC Square Chicago Plenum	T Trim L Invisible Trim	15 15W IC 22 22W IC	EM Optional
Remodel Non-IC 	R2BR	T Trim	15 15W Non-IC 22 22W Non-IC	N/A

Example: **R2RNT-15** or **R2RNT-15EM** (with Emergency backup)

WOOD AND METAL CEILING ADAPTERS

Round

R2R-ADP1 1/2" to 1" ceiling thickness
(Wall wash trims 1" max ceiling thickness)

R2R-ADP2 1" to 1 1/2" ceiling thickness



Square

R2S-ADP1 1/2" to 1" ceiling thickness
(Wall wash trims 1" max ceiling thickness)

R2S-ADP2 1" to 1 1/2" ceiling thickness



FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM

Accessory holder
Holds up to two lenses or
one lens and one glare control

Optical cartridge
Allows tool-less exchange of reflectors

Light engine



ACCESSORY HOLDER sold separately

LENS-16-HLD Required for use with any lens or accessory

GLARE CONTROL ACCESSORIES

LENS-16 **HCL** Honeycomb Louver
CRL Cross Louver

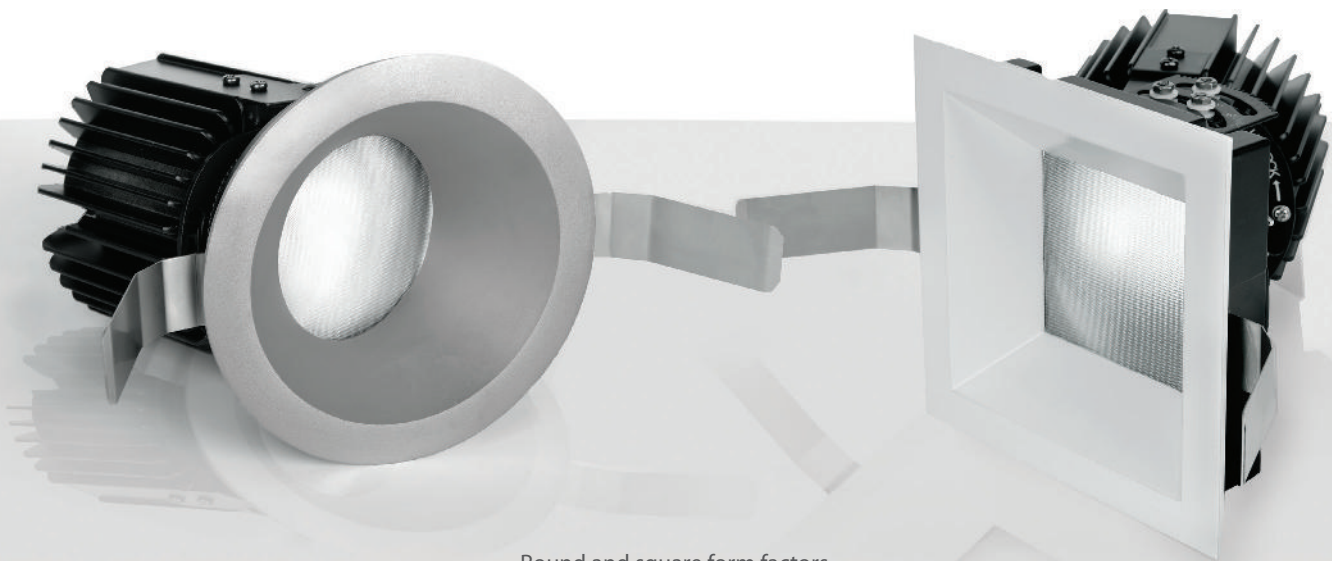
LENS ACCESSORIES

LENS-16 **AMB** Amber
RED Red
FR Frosted
SPR Spread
BEL Beam Elongating

INTERCHANGEABLE REFLECTORS

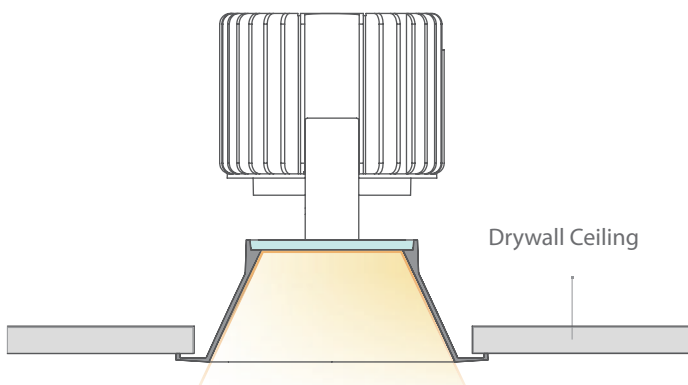
REF-R2-N Narrow Flood beam
REF-R2-F Flood beam
REF-R2-W Wide beam

VERSATILE HIGH PERFORMANCE LED RECESSED

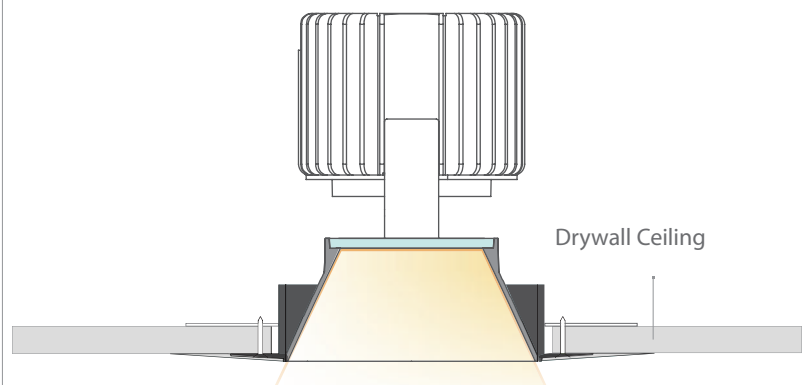


Round and square form factors
Dual finish trims are physically seamless
Die-cast self flanged aluminum construction
Choices of trims include downlights, 45° adjustable and wall wash

TRIM INSTALLATION



TRIMLESS INSTALLATION



VOLTA ARCHITECTURAL LED RECESSED 4.5"



Universal mounting bracket
(Hanger bars included)

IC/Non-IC air tight new construction housing
Optional power 34W, 23W and 15W.
Chicago Plenum and Emergency backup

Die-cast trimless spackle frame

Trim assembly includes:
light engine, optics, lensed trim
Adjustable trimless assembly shown

VOLTA ARCHITECTURAL LED RECESSED 4.5"

DOWNLIGHT



- General illumination
- Superior glare control

SHALLOW REGRESSED DOWNLIGHT

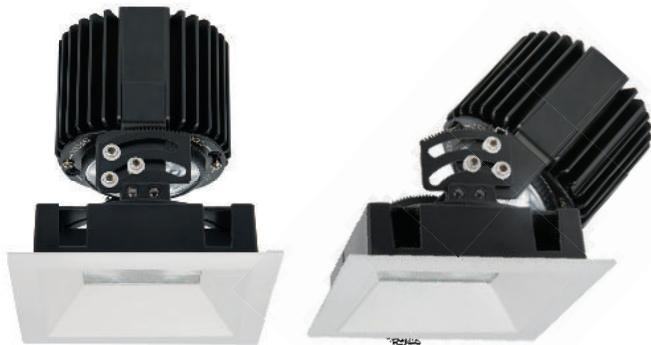


- Increased field angle for reduced scalloping
- Low ceiling and close to wall applications



VOLTA ARCHITECTURAL LED RECESSED 4.5"

ADJUSTABLE



0° position

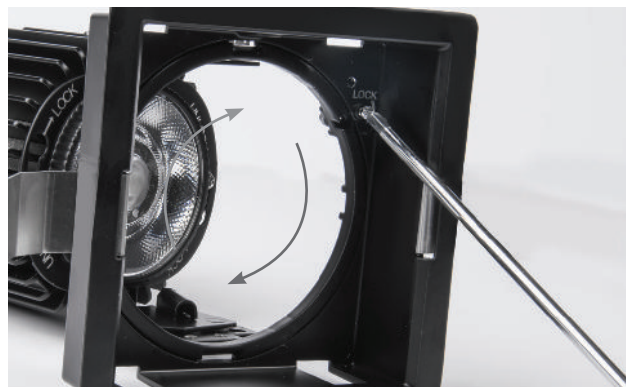
45° position

- Center beam alignment maintained throughout adjustment range
- 0-45° vertical and 365° horizontal lockable hot aiming

PRECISION AIMING

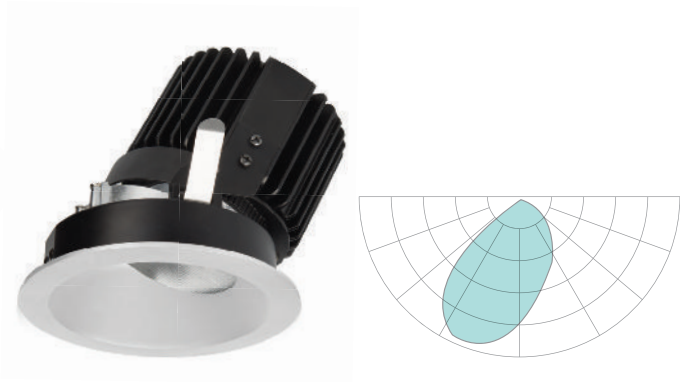


0 - 45° vertical lockable hot aiming



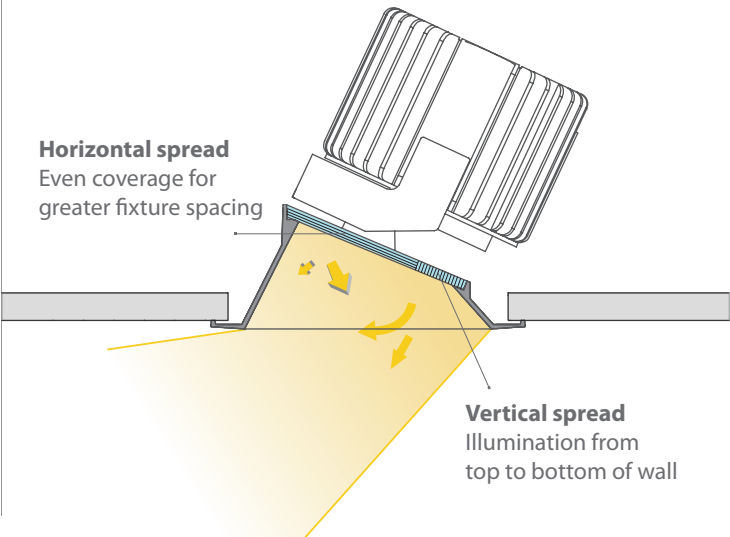
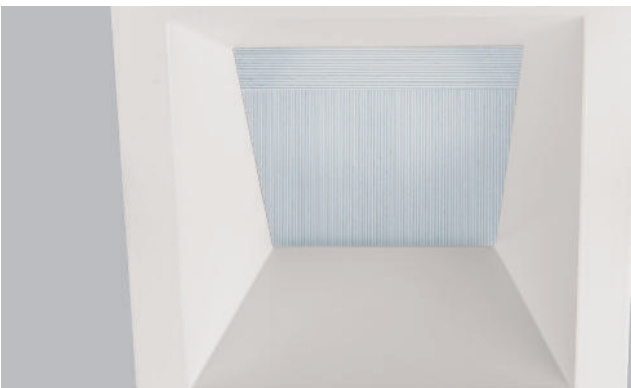
365° horizontal lockable hot aiming

WALL WASH



- Innovative bi-directional spread lens
- Engineered for even wall illumination both horizontally and vertically

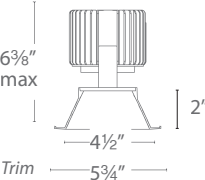
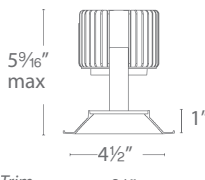
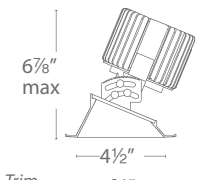
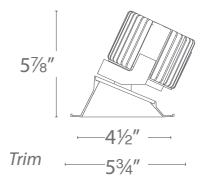
BI-DIRECTIONAL SPREAD LENS



VOLTA ARCHITECTURAL LED RECESSED 4.5"

Lumens: Up to 3620
Input: 120 -277V
Power: 15W, 23W, 34W
Comparable to: 75W HID

CRI: Up to 90
Dimming: ELV, 0-10V
Rated Life: 50,000 hours

TRIM		Model	Beam	-36 Housing @ 830		Color Temp		CRI	Finishes	Reflector/Trim
<div><div>Downlight</div><div></div></div>	R4RD2T Round Trim R4SD2T Square Trim	S 15°	Round	1405	11420	827 2700K 85 830 3000K 85 835 3500K 85 840 4000K 85	927 2700K 90 930 3000K 90	BK BKWT CB HZ HZWT WT	Black Black/White Copper Bronze Haze Haze/White White	
			Square	1440	11985					
	N 25°	Round	3145	9615						
		Square	3350	9820						
	F 45°	Round	3025	5005						
		Square	3200	4935						
	W 60°	Round	2895	3125						
		Square	3060	3055						
	<div><div>Shallow Regressed Downlight</div><div></div></div>	R4RD1T Round Trim R4SD1T Square Trim	S 15°	Round	1415			11290	BK BKWT CB HZ HZWT WT	Black Black/White Copper Bronze Haze Haze/White White
				Square	1450			9650		
N 25°		Round	3160	9655						
		Square	3385	8760						
F 45°		Round	3035	5070						
		Square	3290	4880						
W 60°		Round	2925	3065						
		Square	3125	3030						
<div><div>Adjustable</div><div>Round shown</div><div></div></div>		R4RAT Round Trim R4SAT Square Trim	S 15°	Round	1215	10910	BK BKWT CB HZ HZWT WT	Black Black/White Copper Bronze Haze Haze/White White		
				Square	1140	9175				
	N 25°	Round	2340	9250						
		Square	1960	8340						
	F 40°	Round	2085	4720						
		Square	1770	4495						
	<div><div>Wall Wash</div><div></div></div>	R4RWT Round Trim R4SWT Square Trim	A Asym	Round	1995	1470			BK BKWT HZ HZWT WT CB	Black Black/White Haze Haze/White White Copper Bronze
		R4RWL Round Trimless R4SWL Square Trimless		Square	2405	1400				

Example: R4RAT-S930-BK

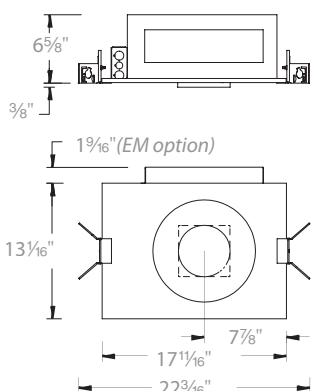
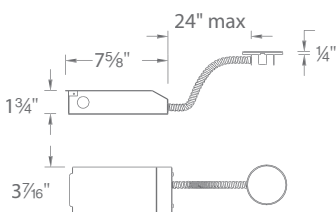
PHOTOMETRIC MULTIPLIER TABLE Use to determine outputs other than -36 housing @ 830

Housing Model	CRI and Color Temp					
	827	927	830	930	835	840
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

WATTAGE TABLE

Housing Model	Beam Spread	
	S	A, N, F, W
36	22W	34W
25	15W	23W
15	10W	15W

VOLTA ARCHITECTURAL LED RECESSED 4.5"

HOUSING (Required)	Model	Trim	Power	Emergency Backup
New Construction Airtight IC 	R4RN Round R4RC Round Chicago Plenum R4SN Square R4SC Square Chicago Plenum	T Trim L Trimless	15 15W IC 25 23W IC 36 34W Non-IC	EM Optional
Remodel Non-IC 	R4BR	T Trim	15 15W Non-IC 25 23W Non-IC 36 34W Non-IC	N/A

Example: **R4RNT-15** or **R4RNT-15EM** (with Emergency backup)

FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM



ACCESSORY HOLDER sold separately

LENS-73-HLD Required for use with any lens or accessory

GLARE CONTROL ACCESSORIES

LENS-73

HCL Honeycomb Louver
CRL Cross Louver
SNOOT Snoot

LENS ACCESSORIES

LENS-73

AMB Amber
RED Red
FR Frosted
SPR Spread
BEL Beam Elongating

INTERCHANGEABLE REFLECTORS

REF-R4-N Narrow Flood beam
REF-R4-F Flood beam
REF-R4-W Wide beam



Many LED luminaire designs within contain patent pending features.

WAC Lighting will not hesitate to enforce its intellectual property rights through injunctive relief and seek further relief through damages if it has reason to believe the patents are being infringed upon.

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