

## Volta

### Static White - 4.5" Shallow Regressed Downlight

R4RD1T | R4RD1L | R4SD1T | R4SD1L

Fixture Type: \_\_\_\_\_

Project: \_\_\_\_\_

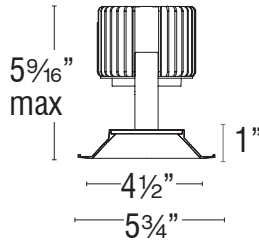
Catalog#: \_\_\_\_\_

Location: \_\_\_\_\_

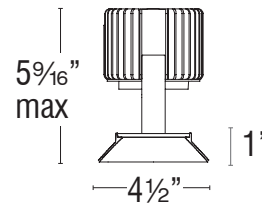


#### LINE DRAWING

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

#### SPECIFICATIONS

|                                     |   |
|-------------------------------------|---|
| <b>Construction:</b>                | Durable die-cast self flanged aluminum construction   |
| <b>Mounting:</b>                    | Heavy gauge retention clips support trim firmly<br>Ceiling cut out (Round): Trim $\varnothing$ 5 $\frac{1}{8}$ " $\bigcirc$<br>Trimless $\varnothing$ 5 $\frac{1}{8}$ " $\bigcirc$<br>Ceiling cut out (Square): Trim 5 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " $\square$<br>Trimless 5 $\frac{1}{8}$ " x 5 $\frac{1}{8}$ " $\square$<br>Accommodates ceiling thickness of 1/2" - 1 1/2" |
| <b>Light Source:</b>                | High output 3-step Mac Adam Ellipse COB<br>Rated life of 50,000 hours at L70  |
| <b>Input:</b>                       | Universal 120-277V AC, 50/60 Hz   |
| <b>Dimming:</b>                     | 0-10V: 100-0%<br>Electronic Low Voltage (ELV): 100-5%<br>Lutron Hi-Lume 1% Ecosystem Fade-to-Black option   |
| <b>Maximum Delivered Intensity:</b> | Up to 12,080 cd (Round Spot 15°, 4000K, CRI 85)   |
| <b>Maximum Delivered Output:</b>    | Up to 3,622 lm (Square Narrow Flood 25°, 4000K, CRI 85)   |
| <b>Standards:</b>                   | ETL & cETL Wet location listed, Title 24 JA8 Compliant  |
| <b>Warranty:</b>                    | 5 year WAC Lighting guaranteed warranty   |

#### BEAM ANGLES



S - 15°



N - 25°



F - 45°



W - 60°

#### 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        |       |             |             |     |             |    |
| R4RD1T<br>R4RD1L | S 15° | Round  | 1415        | 11290 | 66          | 827 - 2700K | 85  |             |    |
|                  |       | Square | 1450        | 9650  | 67          |             |     |             |    |
|                  | N 25° | Round  | 3160        | 9655  | 93          |             |     | 830 - 3000K |    |
|                  |       | Square | 3385        | 8760  | 100         |             |     | 835 - 3500K |    |
| R4SD1T<br>R4SD1L | F 45° | Round  | 3035        | 5070  | 89          | 840 - 4000K | 85  |             |    |
|                  |       | Square | 3290        | 4880  | 97          |             |     |             |    |
|                  | W 60° | Round  | 2925        | 3065  | 87          |             |     | 927 - 2700K | 90 |
|                  |       | Square | 3125        | 3030  | 92          |             |     |             |    |

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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 Catalog#: \_\_\_\_\_  
 Location: \_\_\_\_\_

### ORDERING INFORMATION

| CONFIGURATION TABLE |                       |                         |                  |             |
|---------------------|-----------------------|-------------------------|------------------|-------------|
| Model & Power       | Beam                  | Color Temperature & CRI | Reflector Finish | Trim Finish |
| R4RD1T              | S: Spot - 15°         | 827 - 2700K - 85        | BK - BLACK       | WT - WHITE  |
| R4SD1T              | N: Narrow Flood - 25° | 830 - 3000K - 85        | CB - COPPER      |             |
| R4RD1L              | F: Flood - 45°        | 835 - 3500K - 85        | HZ - HAZE        |             |
| R4SD1L              | 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<br>IC Airtight                   | <b>R4RN</b> (Round)<br><b>R4SN</b> (Square) | <b>T</b> Trim<br><b>L</b> Trimless | <b>15</b> | 10W   | 15W    | IC     | <b>DEFAULT</b> ELV, 0-10V<br><b>L1</b> Lutron Hi-Lume 1% | <b>EM</b>  |  |  |
|   |   |                                    | <b>25</b> | 15W   | 23W    | IC     |  |            |  |  |
|   |   |                                    | <b>36</b> | 22W   | 34W    | Non-IC |  |            |  |  |
| New Construction<br>IC Airtight<br>Chicago Plenum | <b>R4RC</b> (Round)<br><b>R4SC</b> (Square) | <b>T</b> Trim<br><b>L</b> Trimless | <b>15</b> | 10W   | 15W    | IC     | <b>DEFAULT</b> ELV, 0-10V<br><b>L1</b> Lutron Hi-Lume 1% | <b>EM</b>  |  |  |
|   |   |                                    | <b>25</b> | 15W   | 23W    | IC     |  |            |  |  |
|   |   |                                    | <b>36</b> | 22W   | 34W    | Non-IC |  |            |  |  |
| Remodel Non-IC<br>Round or Square                 | <b>R4BR</b>                                 | <b>T</b> Trim                      | <b>15</b> | 10W   | 15W    | Non-IC | <b>DEFAULT</b> ELV, 0-10V                                | <b>N/A</b> |  |  |
|   |   |                                    | <b>25</b> | 15W   | 23W    | Non-IC |  |            |  |  |
|   |   |                                    | <b>36</b> | 22W   | 34W    | Non-IC |  |            |  |  |
| Remodel Non-IC                                    | <b>R4RR</b> (Round)<br><b>R4SR</b> (Square) | <b>L</b> Trimless                  | <b>15</b> | 10W   | 15W    | Non-IC | <b>DEFAULT</b> ELV, 0-10V                                | <b>N/A</b> |  |  |
|   |   |                                    | <b>25</b> | 15W   | 23W    | Non-IC |  |            |  |  |
|   |   |                                    | <b>36</b> | 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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WAC GROUP

WAC Group retains the right to modify the design of our products at any time as part of the company's continuous improvement program.

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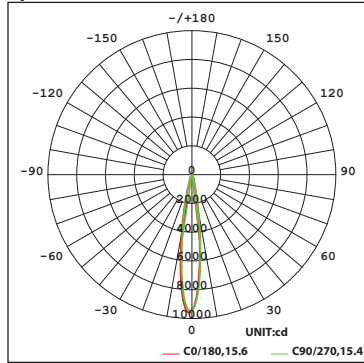
#### PERFORMANCE DATA

#### Polar Candela Distribution Charts

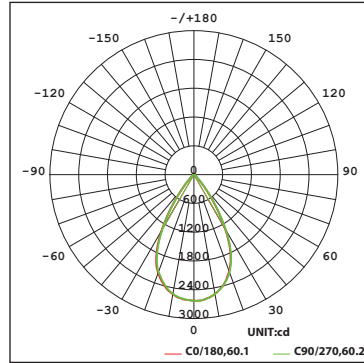
Samples shown with a 22W/34W (depending on beam angle) fixture set to 3000K and 90 CRI.

#### ROUND

Spot Beam: 15° Beam

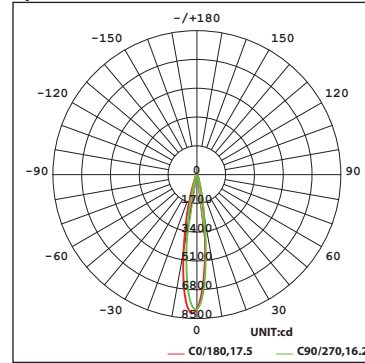


Wide Flood Beam: 60° Beam

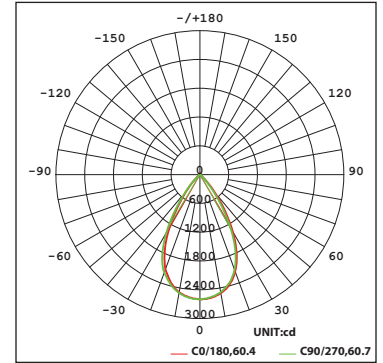


#### SQUARE

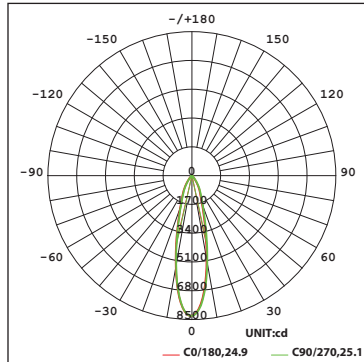
Spot Beam: 15° Beam



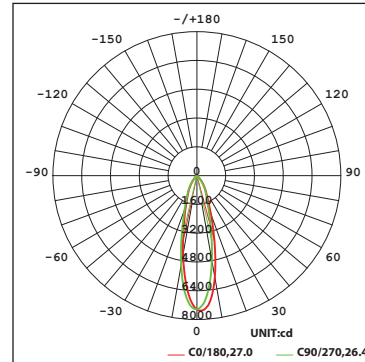
Wide Flood Beam: 60° Beam



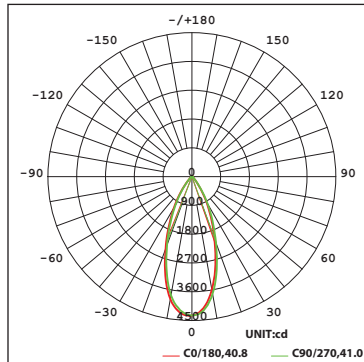
Narrow Flood Beam: 25° Beam



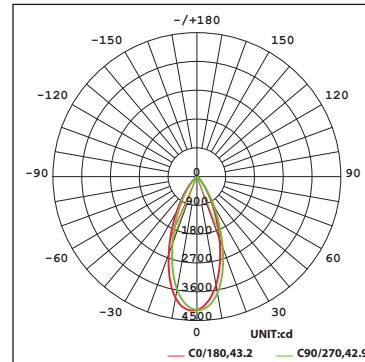
Narrow Flood Beam: 25° Beam



Flood Beam: 45° Beam



Flood Beam: 45° Beam



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Catalog#: \_\_\_\_\_

Location: \_\_\_\_\_

### 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 |      |      |      |      |      |
| <b>x = 2H y = 2H</b> | 8.8              | 9.5  | 9.0  | 9.7  | 9.9  | 9.0            | 9.7  | 9.3  | 9.9  | 10.1 |      |
| 3H                   | 8.8              | 9.5  | 9.1  | 9.7  | 9.9  | 9.1            | 9.7  | 9.4  | 9.9  | 10.2 |      |
| 4H                   | 8.8              | 9.4  | 9.1  | 9.7  | 9.9  | 9.1            | 9.7  | 9.3  | 9.9  | 10.2 |      |
| 6H                   | 8.8              | 9.3  | 9.1  | 9.6  | 9.9  | 9.0            | 9.6  | 9.3  | 9.8  | 10.1 |      |
| 8H                   | 10.3             | 10.8 | 10.6 | 11.1 | 11.4 | 9.1            | 9.6  | 9.4  | 9.9  | 10.2 |      |
| 12H                  | 11.6             | 12.1 | 11.9 | 12.4 | 12.7 | 9.1            | 9.7  | 9.4  | 9.9  | 10.2 |      |
| <b>4H</b>            | 2H               | 8.7  | 9.4  | 9.0  | 9.6  | 9.8            | 8.9  | 9.6  | 9.2  | 9.8  | 10.0 |
| 3H                   | 8.8              | 9.3  | 9.1  | 9.6  | 9.9  | 9.0            | 9.6  | 9.4  | 9.9  | 10.2 |      |
| 4H                   | 8.8              | 9.3  | 9.1  | 9.6  | 9.9  | 9.0            | 9.5  | 9.4  | 9.8  | 10.2 |      |
| 6H                   | 8.7              | 9.2  | 9.1  | 9.5  | 9.9  | 9.0            | 9.4  | 9.4  | 9.8  | 10.1 |      |
| 8H                   | 11.1             | 11.6 | 11.6 | 11.9 | 12.3 | 9.4            | 9.8  | 9.8  | 10.2 | 10.6 |      |
| 12H                  | 12.8             | 13.2 | 13.2 | 13.6 | 14.0 | 9.8            | 10.1 | 10.2 | 10.5 | 11.0 |      |
| <b>8H</b>            | 4H               | 8.7  | 9.1  | 9.1  | 9.5  | 9.9            | 8.9  | 9.3  | 9.3  | 9.7  | 10.1 |
| 6H                   | 9.0              | 9.4  | 9.5  | 9.8  | 10.3 | 9.1            | 9.4  | 9.5  | 9.8  | 10.3 |      |
| 8H                   | 12.3             | 12.6 | 12.8 | 13.0 | 13.5 | 10.9           | 11.2 | 11.3 | 11.6 | 12.1 |      |
| 12H                  | 14.1             | 14.4 | 14.6 | 14.8 | 15.4 | 11.9           | 12.1 | 12.4 | 12.6 | 13.1 |      |
| <b>12H</b>           | 4H               | 8.7  | 9.0  | 9.1  | 9.4  | 9.9            | 8.9  | 9.3  | 9.3  | 9.7  | 10.1 |
| 6H                   | 9.7              | 10.0 | 10.2 | 10.5 | 10.9 | 9.7            | 10.0 | 10.2 | 10.5 | 11.0 |      |
| 8H                   | 12.9             | 13.2 | 13.4 | 13.7 | 14.2 | 11.8           | 12.1 | 12.3 | 12.6 | 13.1 |      |

| Round Fixture | Angle | UGR Range |
|---------------|-------|-----------|
| Spot          | 15°   | ≤15       |
| Narrow Flood  | 25°   | ≤11       |
| Flood         | 45°   | ≤12       |
| Wide Flood    | 60°   | ≤14       |

| Square Fixture | Angle | UGR Range |
|----------------|-------|-----------|
| Spot           | 15°   | ≤17       |
| Narrow Flood   | 25°   | ≤13       |
| Flood          | 45°   | ≤12       |
| 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 | HOUSING | TRIM |      |      |      |      |      |
|------------|---------|------|------|------|------|------|------|
|            |         | 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 |

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