

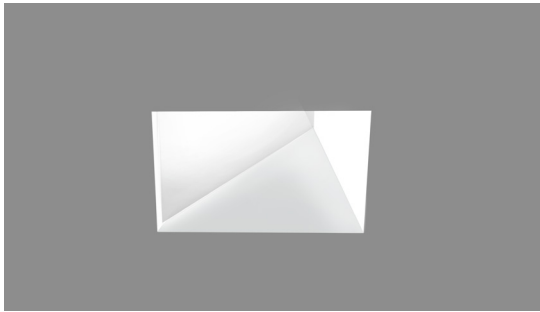
# Voilà

4" Square Downlight  
Wall Wash

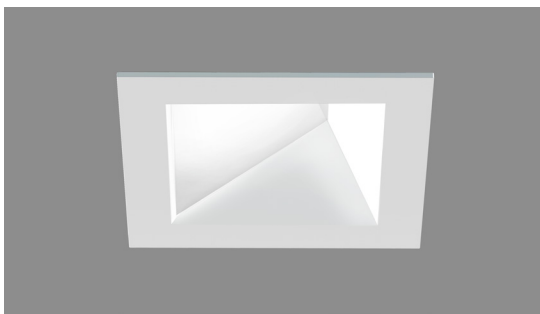
# LUMENWERX

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

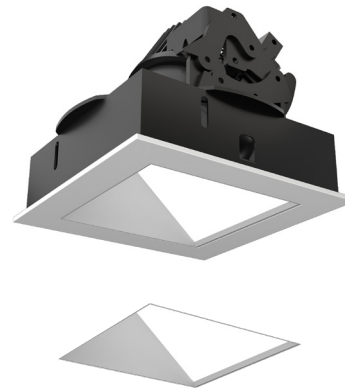
Type: \_\_\_\_\_



Trimless



Trim



Voila 4" wall wash downlights feature innovative Hyflex™ optics for precise beam control. Shallow construction requires only 4" recess depth. Driver can be replaced through 2" aperture. The Voila COB source with 90 CRI and 2-step color consistency matches other Lumenwerx luminaires, and is available with Chromawerx SOLA (dim-to-warm) and DUO (tunable white), as well as emergency option. Complete Voila offering includes 2" and 4" apertures; downlights, adjustables, and wall washers; round and square trim; and cylinders; see separate specifications.

## Performance

| LUMEN OUTPUT <sup>1</sup> | WATTS | EFFICACY LM/W |
|---------------------------|-------|---------------|
| 1114 lm                   | 14 W  | 80 lm/W       |
| 1511 lm                   | 20 W  | 76 lm/W       |
| 2036 lm                   | 28 W  | 73 lm/W       |

<sup>1</sup> Lumens packages are assuming 3500K, 80 CRI, square white baffle

## Delivered Lumens

| CRI             | 80 CRI<br>(AT 35K) | 90 CRI<br>(AT 35K) | 97 CRI<br>(AT 30K) |
|-----------------|--------------------|--------------------|--------------------|
| Low - 13.8 W    | 1114               | 1036               | 891                |
| Medium - 19.7 W | 1511               | 1405               | 1208               |
| High - 28 W     | 2036               | 1893               | 1628               |

## Aperture Size

3.55"

## Configurations



Fixed, adjustable & wall wash (see other spec sheets for all the configurations)

## Baffle Depth



Standard 1.00"

## Trim



Trim & Trimless

## Baffle & Trim Flange Finishes

|                      |  |
|----------------------|--|
| Textured matte white |  |
| Textured matte black |  |
| Mixed black & white  |  |
| Custom RAL           |  |

## Color Temperature

|       |  |
|-------|--|
| 2700K |  |
| 3000K |  |
| 3500K |  |
| 4000K |  |
| SOLA  |  |
| DUO   |  |

Delivered 1114-2036 lm  
14-28 Watts, up to 80 lm/W

## Integral Drivers

0-10V, TRIAC, ELV, eldoLED & Lutron

## Remote Drivers

Lutron, eldoLED and other drivers

Emergency battery pack

## 1 - Housing (Example: VO4SRWW-TRM-SW-OF-ASB-120-14W-D1)

Product Specification

| LUMINAIRE ID  | TRIM STYLE  | LIGHT SOURCE   | INSTALLATION TYPE   | MOUNTING OPTIONS   | VOLTAGE  | WATTAGE (80 CRI) <sup>4</sup>  | DIMMING   |   |  |
|---|---|--|---|--|--|--|---|---|--|
| <b>VO4SRWW</b>                                      |   |  |   |  |  |  |   |   |  |
| <b>VO4SRWW</b> - Voila 4" Square Recessed Wall Wash | <b>TRM</b> - Flanged trim<br><b>TLMP</b> - Trimless drywall mudplate<br><b>TLMW</b> - Trimless millwork | <b>SW</b> - Static white   | <b>OF</b> - Open frame type non-IC<br><b>IC</b> <sup>2</sup> - IC rated<br><b>CP</b> <sup>2</sup> - Chicago Plenum type-IC (CCEA)<br><sup>2</sup> IC/CP with low output only. | <b>ACB</b> - Adjustable commercial bar hangers (grid and drywall)<br><b>ASB</b> - Adjustable standard bar hangers (grid and drywall)<br><b>FMB</b> - Flush mount bars (drywall only)<br><b>AHC</b> - Adjustable hat channel bars | <b>120</b> - 120V<br><b>UNV</b> - 120V-277V<br><b>347</b> <sup>3</sup> - 347V<br><sup>3</sup> Available with 0-10V dimming options D1, RD1 and RSD1 only. Consult factory for details. | <b>14W</b> - Low output 1114 lm<br><b>20W</b> <sup>5</sup> - Medium output 1511 lm<br><b>28W</b> <sup>5</sup> - High output 2036 lm<br>For other lumen packages, please consult factory.<br><sup>4</sup> For delivered lumens and other CRI, see multiplier tables on page 3.<br><sup>5</sup> Available with <b>OF</b> housing only. | <b>INTEGRAL</b><br><b>D1</b> - 1% 0-10V<br><b>ELV</b> <sup>6</sup> - ELV 120V<br><b>TRI</b> <sup>6</sup> - TRIAC 120V<br><b>LTEA2W</b> <sup>6,7</sup> - Lutron 1% - 2 wire FP 120V<br><b>LDE1</b> <sup>7</sup> - Lutron Hi-lume 1% Eco<br><b>LDE5</b> <sup>7</sup> - Lutron 5% EcoSystem<br><b>DA</b> <sup>7</sup> - DALI<br><b>ELD0</b> <sup>7</sup> - eldoLED 0.1%<br><b>ELD1</b> <sup>7</sup> - eldoLED 1%<br><b>DEB</b> <sup>8</sup> - 0-10V with onboard emergency battery backup<br><sup>6</sup> Available with 120V only.<br><sup>7</sup> Not available with <b>CP</b> installation type.<br><sup>8</sup> Available with <b>OF</b> housing only. | <b>REMOTE</b><br><b>RD1</b> - 1% 0-10V<br><b>RELV</b> <sup>9</sup> - ELV 120V<br><b>RTRI</b> <sup>9</sup> - TRIAC 120V<br><b>RLTEA2W</b> <sup>9</sup> - Lutron 1% - 2 wire FP 120V<br><b>RLDE1</b> - Lutron Hi-lume 1% Eco<br><b>RLDE5</b> - Lutron 5% EcoSystem<br><b>RDA</b> - DALI<br><b>RELD0</b> - eldoLED 0.1%<br><b>RELD1</b> - eldoLED 1%<br><sup>9</sup> Available with 120V only. | <b>+EB</b> <sup>10</sup> - Emergency battery<br><sup>10</sup> Specify with remote dimming only. The code will be like the following example: <b>RD1 + EB</b> . |
|   |   | <b>SOLA</b> <sup>1</sup> - Dim-to-warm<br><b>DUO</b> <sup>1</sup> - Tunable white<br><sup>1</sup> Available with <b>OF</b> housing only. |   |  |  |  |   |   |  |

## 2 - Light (Example: VO4WW-SW-WW-2-90-27)

| LUMINAIRE ID                      | LIGHT SOURCE  | BEAM                  | COLOR QUALITY                     | CRI  | COLOR TEMP   |
|-----------------------------------|---|-----------------------|-----------------------------------|--|--|
| <b>VO4WW</b>                      |   | <b>WW</b>             |                                   |  |  |
| <b>VO4WW</b> - Voila 4" Wall Wash | <b>SW</b> - Static white                                | <b>WW</b> - Wall wash | <b>2</b> - 2 Step MacAdam Ellipse | <b>90</b> - 90 CRI<br><b>80</b> - 80 CRI<br><b>97</b> - 97 CRI (not available for 3500K) | <b>27</b> - 2700K<br><b>30</b> - 3000K<br><b>35</b> - 3500K<br><b>40</b> - 4000K |
|                                   | <b>SOLA</b> - Dim-to-warm<br><b>DUO</b> - Tunable white |                       | <b>3</b> - 3 Step MacAdam Ellipse | <b>90</b> - 90 CRI ( <b>SOLA</b> and <b>DUO</b> )  | <b>SOLA</b> - Dim-to-warm 35K-22K<br><b>DUO</b> - Tunable white 27K-65K          |

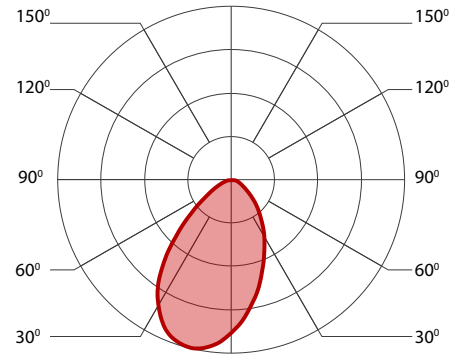
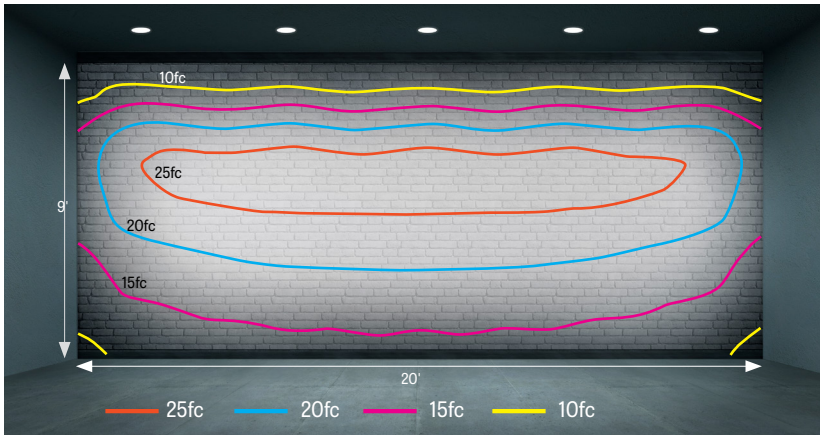
## 3 - Baffle (Example: VO4SRB-TRM-WW-SR-TMW-TMW)

| LUMINAIRE ID                                    | TRIM STYLE  | LENS                           | BAFFLE POSITION              | BAFFLE FINISH   | TRIM FLANGE FINISH   |
|---|---|--------------------------------|------------------------------|---|--|
| <b>VO4SRB</b>                                   |   | <b>WW</b>                      | <b>SR</b>                    |   |  |
| <b>VO4SRB</b> - Voila 4" Square Recessed Baffle | <b>TRM</b> - Flanged trim<br><b>TLMP</b> - Trimless drywall mudplate<br><b>TLMW</b> - Trimless millwork | <b>WW</b> - Wall wash diffuser | <b>SR</b> - Standard regress | <b>TMW</b> - Textured matte white<br><b>TMB</b> - Textured matte black<br><b>CF#</b> - Custom finish, specify RAL#. (e.g. <b>CF102B</b> ) | <b>TMW</b> <sup>11</sup> - Textured matte white<br><b>TMB</b> <sup>11</sup> - Textured matte black<br><b>CF#</b> <sup>11</sup> - Custom finish, specify RAL#. (e.g. <b>CF102B</b> )<br><b>NA</b> - None<br><sup>11</sup> Applicable for <b>TRM</b> only. |

## Photometrics

Please follow the multiplier tables to ensure correct lumen value. Baffle color, CCT, CRI and baffle shape will change the lumen value.

### 36" from Wall - 48" Spacing



### Foot-Candles for Round White Wall Wash Baffles

| FC ON WALL 36" FROM WALL - 36" SPACING |    |                    |                    | 36" FROM WALL - 48" SPACING |                    |                    | 36" FROM WALL - 60" SPACING |                    |                    |                    |
|--|----|--------------------|--------------------|-----------------------------|--------------------|--------------------|-----------------------------|--------------------|--------------------|--------------------|
| DISTANCE FROM CEILING                  |    | 80 CRI<br>(At 35K) | 90 CRI<br>(At 35K) | 97 CRI<br>(At 30K)          | 80 CRI<br>(At 35K) | 90 CRI<br>(At 35K) | 97 CRI<br>(At 30K)          | 80 CRI<br>(At 35K) | 90 CRI<br>(At 35K) | 97 CRI<br>(At 30K) |
|  | 3" |                    | 7                  | 7                           | 6                  | 5                  | 5                           | 4                  | 4                  | 4                  |
| 6"                                     |    | 8                  | 8                  | 7                           | 6                  | 6                  | 5                           | 5                  | 5                  | 4                  |
| 12"                                    |    | 11                 | 10                 | 9                           | 8                  | 7                  | 6                           | 7                  | 6                  | 5                  |
| 2'                                     |    | 25                 | 22                 | 19                          | 19                 | 17                 | 15                          | 17                 | 15                 | 13                 |
| 3'                                     |    | 37                 | 33                 | 29                          | 28                 | 25                 | 22                          | 24                 | 21                 | 18                 |
| 4'                                     |    | 40                 | 36                 | 31                          | 30                 | 27                 | 23                          | 24                 | 22                 | 19                 |
| 5'                                     |    | 37                 | 33                 | 29                          | 28                 | 25                 | 22                          | 22                 | 20                 | 17                 |
| 6'                                     |    | 32                 | 29                 | 25                          | 24                 | 22                 | 19                          | 19                 | 17                 | 15                 |
| 7'                                     |    | 28                 | 25                 | 23                          | 21                 | 19                 | 16                          | 17                 | 15                 | 13                 |
| 8'                                     |    | 24                 | 22                 | 19                          | 18                 | 17                 | 15                          | 14                 | 13                 | 11                 |

### Delivered Lumens

|                 | CRI | 80 CRI<br>(At 35K) | 90 CRI<br>(At 35K) | 97 CRI<br>(At 30K) |
|-----------------|-----|--------------------|--------------------|--------------------|
| Low - 13.8 W    |     | 1114               | 1036               | 891                |
| Medium - 19.7 W |     | 1511               | 1405               | 1208               |
| High - 28 W     |     | 2036               | 1893               | 1628               |

### Efficacy Based on Delivered Lumens - High 28W

|        | LPW |
|--------|-----|
| 80 CRI | 73  |
| 90 CRI | 68  |
| 97 CRI | 58  |

### Multiplier - CCT

| CCT   | Multiplier |
|-------|------------|
| 2700K | 0.9        |
| 3000K | 0.95       |
| 3500K | 1          |
| 4000K | 1.05       |

### Multiplier - Baffle Color and Shape

| BAFFLE VARIABLES |        |      |
|------------------|--------|------|
| White            | Round  | 1    |
| White            | Square | 1    |
| Black            | Round  | 0.95 |
| Black            | Square | 0.95 |

For SOLA and DUO, please consult factory.

## Technical Specification

**DESCRIPTION** Compact fixed 4" wall wash with multiple output, color, and dimming options.

**HOUSING CONSTRUCTION** For new construction, 20 gauge powder coated steel. Open frame, type-IC, or Chicago Plenum (CCEA) rated. 18 gauge galvanized steel junction box with ½" trade size knockouts. Adjustable hanger bars and butterfly brackets are included. Hat channel and flush mounted brackets are also available.

**Clearance Height:** Open frame/Type-IC/Chicago Plenum: 4";  
Open frame with DEB or PSQO (Duo) options: 8"

**Ceiling Thickness:** Can accommodate ½" to 1"

**Housing weight:** Type IC/Chicago Plenum -8 lbs -3.6 kg

**Open Frame** - 6 lbs -2.7 kg

**Ceiling cut-out:** Ø5 5/32" for round, 4 2 1/32"x 4 2 1/32" for square

### FIELD REPLACEABLE LIGHT ELEMENT

**LED Module:** Integral COB module. 90 CRI and 2 SDCM, Standard with options of 80 CRI, or 97 CRI. L80 > 60,000 hours

**Light Output:** From 1114-2036 lumens

**HyFlex™ Optics:** Proprietary TIR/reflector

**Thermal Management:** Cold-forged aluminum heat sink to maximize thermal dissipation.

### WALL WASH BAFFLE

Square die-cast aluminum retained with rare earth magnets (trimmed) or clips (trimless). Integral angled wall wash lens.

**Trim style options:** Round and square with flanged trim, trimless with mudplate for drywall, or trimless for millwork.

**CHROMAWERX SOLA** (dim-to-warm) and **DUO** (tunable white). See pages 6 for more information.

### ELECTRICAL

**Integral:** 0-10V, ELV, TRIAC, Lutron EcoSystem, Lutron Hi-lume, DALI, eldoLED 0.1%, eldoLED 1%, Lutron T-Series (tunable white).

**Remote:** 0-10V, ELV, TRIAC, Lutron EcoSystem, Lutron Hi-lume, DALI, eldoLED 0.1%, eldoLED 1%, DMX, Lutron T-Series (tunable white).

**Emergency Options:** Emergency battery back-up options are available as integral (Fulham), or remote (Fulham, Bodine, or IOTA). The battery provides 10W of power.

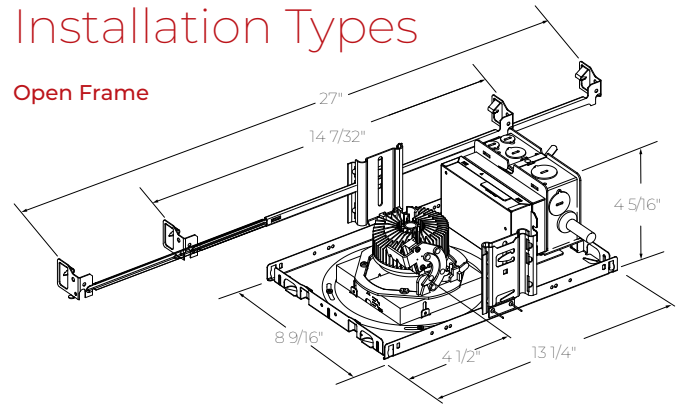
**ENVIRONMENT** Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees).

**LISTING** cETLus listed to UL 1598 and CAN/CSA Standard C22.2 No. 250.0

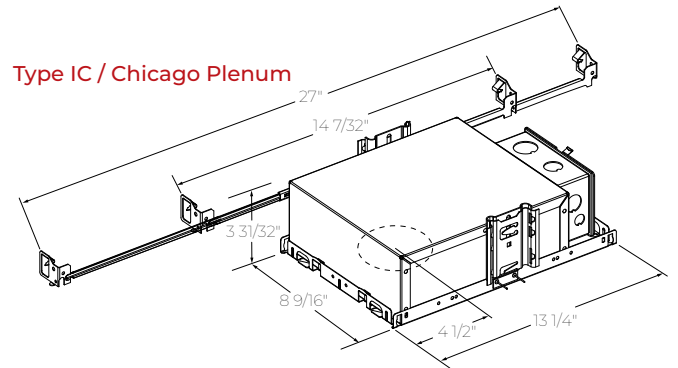
**WARRANTY** 5 year limited warranty on LED module and power supply. Guaranteed to maintain 70% lumen maintenance.

## Installation Types

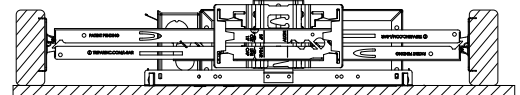
### Open Frame



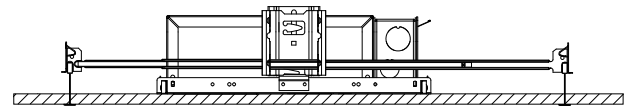
### Type IC / Chicago Plenum



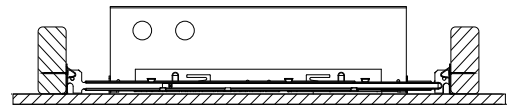
### Mounting Options



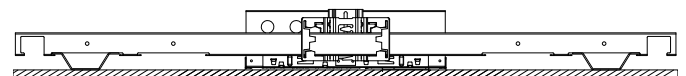
ACB - Adjustable Commercial Bar Hangers



ASB - Adjustable Standard Bar Hangers



FMB - Flush Mount Bars



AHC - Adjustable Hat Channel Bars

# Voilà

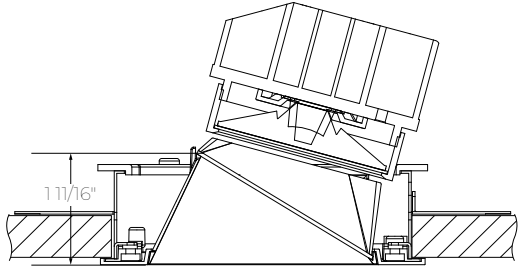
4" Square Downlight  
Wall Wash

# LUMENWERX

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

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

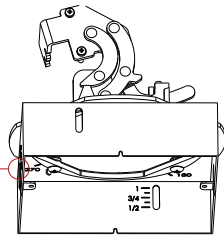
## Light



Standard Baffle

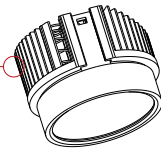
### Adjustment Mechanism

Flexible trim Collar



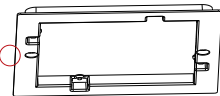
### Light Element

Heat Sink  
LED Module  
Hyflex™ Optics



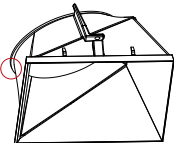
### Retaining Ring

Magnetic Snap



### Baffle & Lens

Standard Regress  
Wall Washer Lens



### Trim

Trim, Trimless



## Optics

Hyflex™ optics provide precise optical control in a remarkably compact form. The core of this four-tier system is a compound reflector with a central TIR element, just 1.06" deep.

## Light Source - LED

Compact COB (Chip-On-Board) LED module, available in 2700K, 3000K, 3500K and 4000K with a choice of 80 CRI or 90 CRI with elevated R9 value (for 97 CRI, consult factory). Color consistency is maintained to within 2 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

## Beam Angles



Wall Wash

## Integral Driver

Unless otherwise specified, Voilà comes standard with an integral, 120-277VAC/60Hz, electronic, 1% 0-10V dimming, constant-current LED driver. The driver is field replaceable and features a high power factor, low THD and sources 1 mA on the 0-10V dim line. All integral drivers are located inside the housing and are easily accessible from below the ceiling through the aperture. All dimming drivers comply with IEEE C62.41 surge protection requirements.

## Emergency Integral

Factory installed, long-life, high-temperature, LED driver with integrated emergency backup using a recyclable LiFePO4 battery pack. Features a remote test switch with charge indicator, minimum of 90 minutes operation and 10W per downlight emergency lighting output. Recharge time of 12 hours.

## Emergency Remote

Long-life, high-temperature, emergency LED driver with Lithium Ion battery pack. Features a test switch with charge indicator, minimum of 90 minutes operation and 10W per downlight emergency lighting output. Recharge time of 24 hours.

# Voilà

4" Square Downlight  
Wall Wash

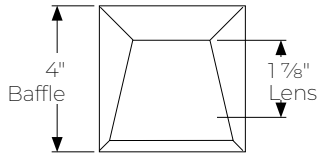
# LUMENWERX

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

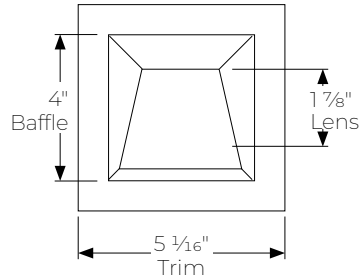
Type: \_\_\_\_\_

## Trim Dimensions

### Trimless



### Trim



Chromawerx Sola is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.



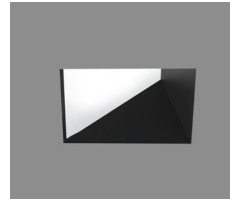
Chromawerx Duo offers a two-channel control system which uses analog or digital protocols for synchronous control of both warm (2700K) to cool (6500K) LED arrays - maintaining a CRI above 90. The range of color DUO offers is useful for entraining circadian rhythms, stimulating alertness, and compensating for jet lag among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures.

## Baffle



Standard Regress

### Trimless

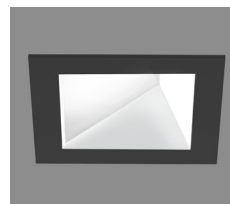


Black Baffle

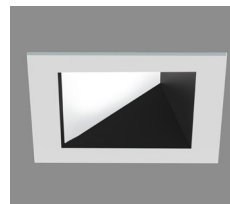


White Baffle

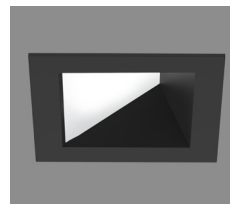
### Trim



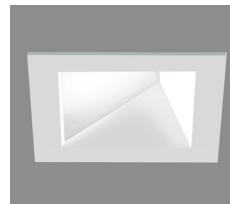
White Baffle,  
Black Trim



Black Baffle,  
White Trim



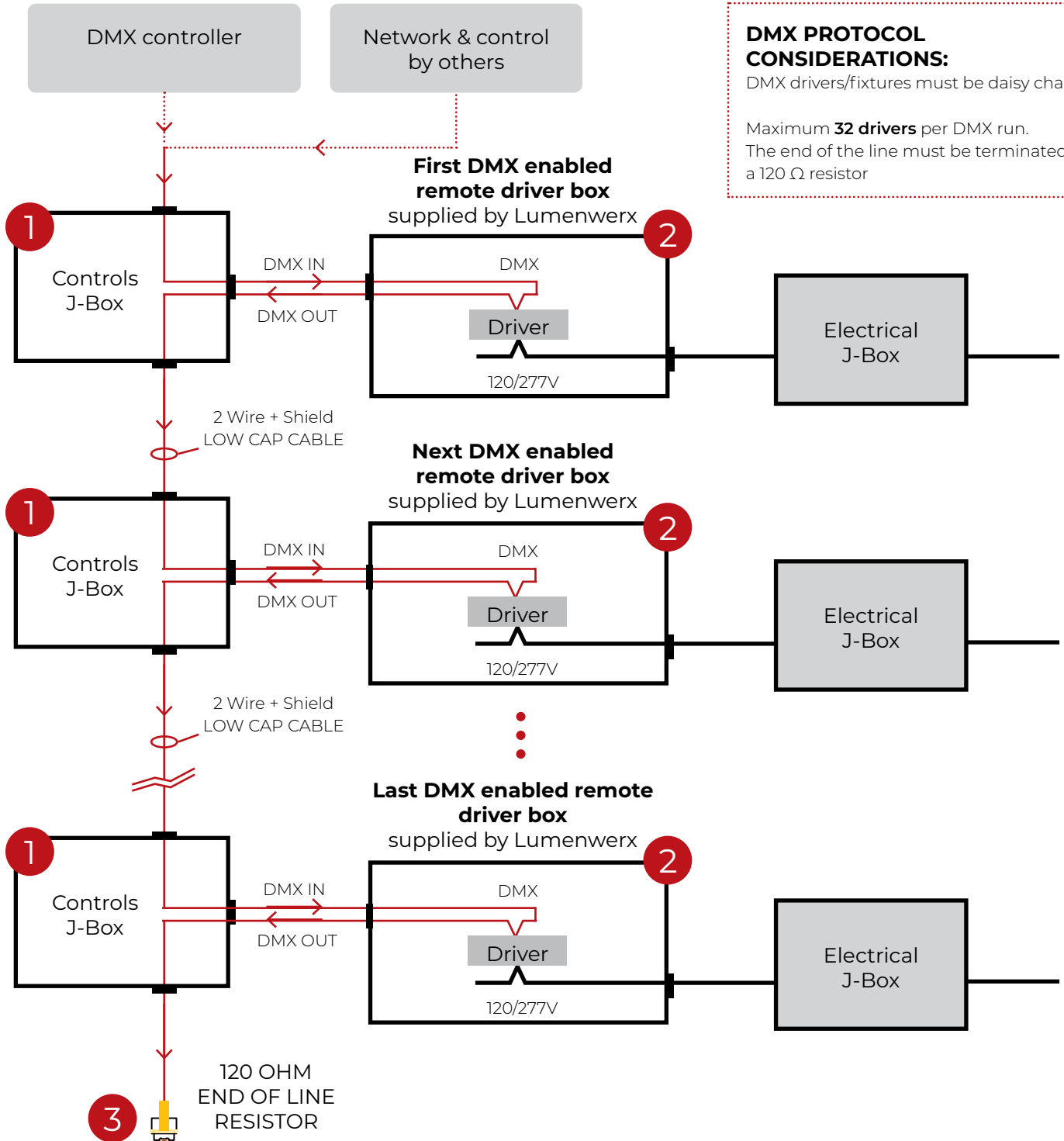
Black Baffle,  
Black Trim



White Baffle,  
White Trim

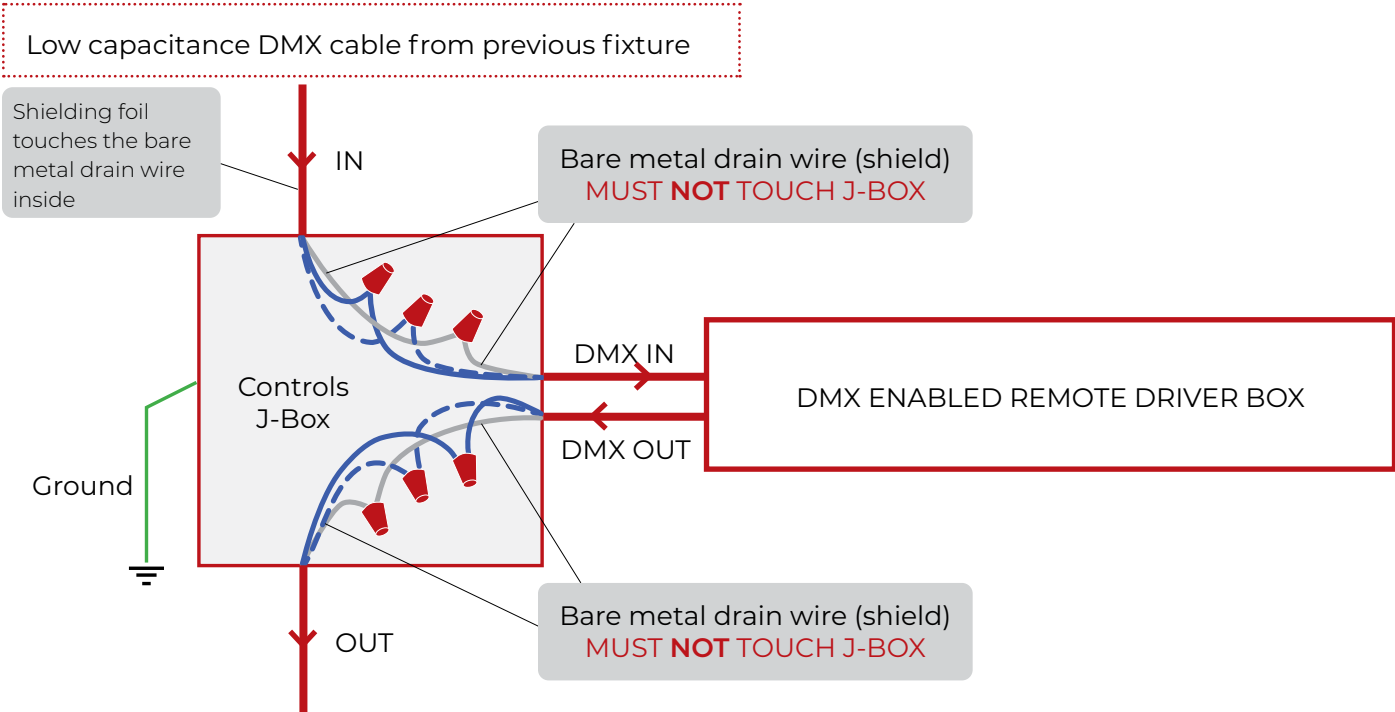
**DUO** GENERIC DMX NETWORK ARCHITECTURE

A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. **When placing the PO, please provide the contact information of your DMX integrator.**



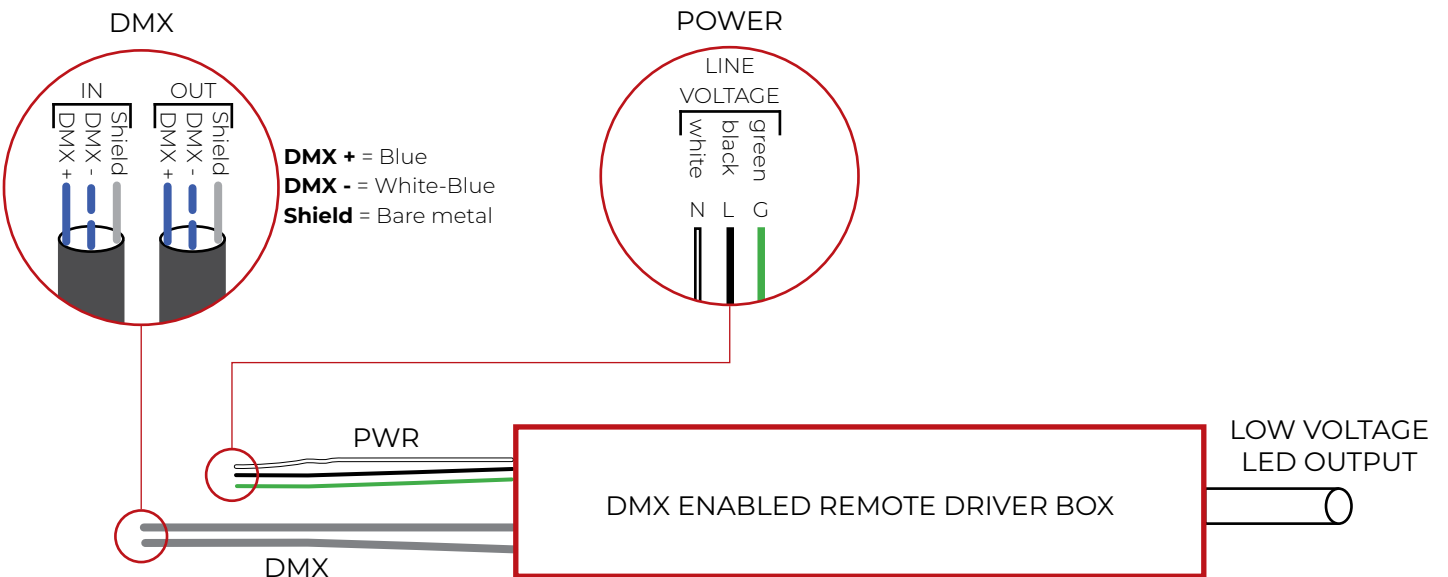
**DMX PROTOCOL CONSIDERATIONS:**  
DMX drivers/fixtures must be daisy chained.  
  
Maximum **32 drivers** per DMX run.  
The end of the line must be terminated by a 120 Ω resistor

## 1 J-BOX DMX DAISY CHAIN DETAIL



Low capacitance DMX cable to next fixture

## 2 DMX CONNECTION REMOTE DRIVER





**3** LAST DMX CONNECTION DETAIL

