

# Voilà

True 2" Cylinder Surface



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

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

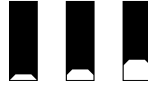


## Aperture Size

2"



## Baffle Position



Flush, 1/2" & 1" regress baffles

## Height

4.5", 6", 9"

## Mounting Types

Surface

## Cylinder & Cuboid Finishes

Textured matte white

Textured matte black

Custom RAL

## Color Temperatures

2700K

3000K

3500K

4000K

SOLA

DUO

Delivered 529-1338 lm  
7-14 Watts, up to 128 lm/W

## Remote Drivers

0-10V, TRIAC & ELV

eldoLED

Lutron

DMX

Remote emergency battery pack

Voilà 2" Cylinders feature innovative Hyflex™ optics for precise beam control. Voilà 2" Cylinders are offered in round form factor, in three height options, all with remote drivers. The Voilà COB source matches other Lumenwerx luminaires, with 90+ CRI and 2-step color consistency, and is available in Chromawerx SOLA and DUO. Complete Voilà offering includes 2" and 4" apertures; downlights, adjustables, and wall washers; round and square trim; and cylinders.

## Performance

LUMEN OUTPUT <sup>1</sup>	WATTS	EFFICACY LM/W
896 lm	7 W	128 lm/W
1103 lm	10 W	110 lm/W
1338 lm	14 W	96 lm/W

<sup>1</sup> Lumens packages are assuming 3500K, 80+ CRI, 30° beam, round white baffle

Delivered Lumens for Round White Flush (IP) Baffles at 35K

BEAM	90+ CRI							
	10	20	30	40	50	60	75	90
Low - 7 W	496	487	822	795	785	730	684	656
Medium - 9.8 W	641	630	1012	978	966	898	841	807
High - 13.8 W	828	814	1228	1187	1173	1090	1021	980

### Cylinder

### Product Specification

LUMINAIRE ID	CYLINDER	BAFFLE	LENS		
<b>VO2CYS</b>					
<b>VO2CYS</b> - Voila 2" Cylinder Surface	<b>HEIGHT</b> <b>4.5</b> - 4.5" <b>6</b> - 6" <b>9</b> - 9"	<b>FINISH</b> <b>TMW</b> - Textured matte white <b>TMB</b> - Textured matte black <b>CF#</b> - Custom finish, specify RAL# (e.g. <b>CF1028</b> )	<b>POSITION</b> <b>1P</b> - Flush <b>2P</b> <sup>12</sup> - ½" <b>3P</b> <sup>13</sup> - 1"  <sup>1</sup> Only available with 50° beam or lower. <sup>2</sup> Not available with 4.5" length. <sup>3</sup> Not available with 4.5" and 6" lengths.	<b>FINISH</b> <b>TMW</b> - Textured matte white <b>TMB</b> - Textured matte black <b>CF#</b> - Custom finish, specify RAL# (e.g. <b>CF1028</b> )	<b>SDL</b> - Soft diffused lens <b>FDL</b> - Frosted diffused lens <b>NOL</b> - No lens

### Light Element

LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP	OPTION
<b>SW</b> - Static white	<b>10</b> - 10° Narrow spot <b>20</b> - 20° Spot <b>30</b> - 30° Narrow flood <b>40</b> - 40° Flood <b>50</b> - 50° Wide flood <b>60</b> - 60° Very wide flood <b>75</b> - 75° Very wide flood <b>90</b> - 90° Open flood	<b>2</b> - 2 Step MacAdam Ellipse <b>3</b> - 3 Step MacAdam Ellipse	<b>80</b> - 80+ CRI <b>90</b> - 90+ CRI <b>95</b> - 95+ CRI	<b>27</b> - 2700K <b>30</b> - 3000K <b>35</b> - 3500K <b>40</b> - 4000K	<b>HEX</b> <sup>6</sup> - Hex louver <b>NA</b> - None  <sup>6</sup> Not available with 60°/75°/90° beam options.
<b>SOLA</b> - Dim-to-warm <b>DUO</b> - Tunable white	<b>20</b> <sup>4</sup> - 20° Spot <b>40</b> <sup>5</sup> - 40° Flood <b>50</b> <sup>5</sup> - 50° Wide flood <b>60</b> <sup>5</sup> - 60° Very wide flood <b>75</b> <sup>5</sup> - 75° Very wide flood <b>90</b> <sup>5</sup> - 90° Open flood  <sup>4</sup> Available with low output only. <sup>5</sup> Available with high output only.	<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 <b>DUO</b> - Tunable white 27K-65K	

### Power Supply & Dimming

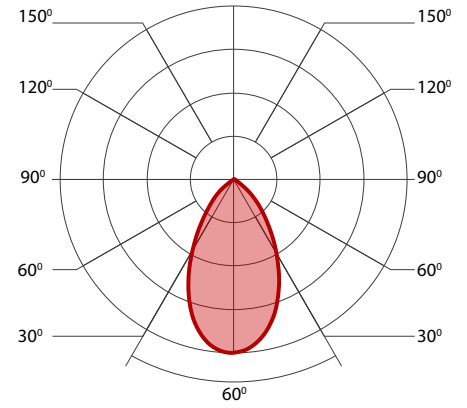
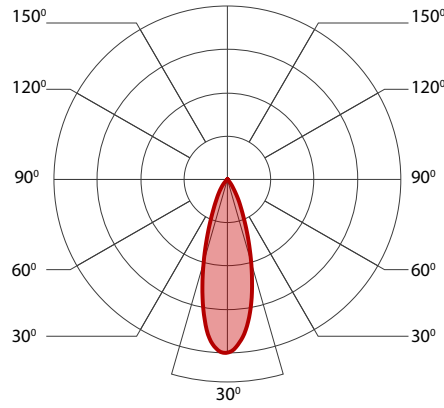
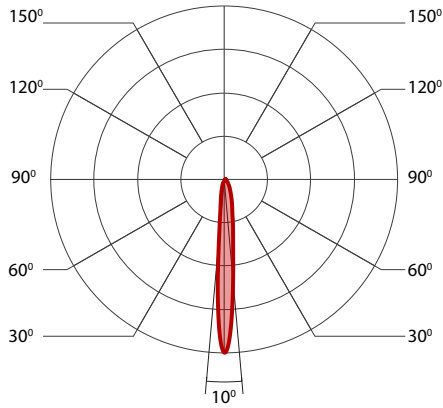
VOLTAGE	WATTAGE (80+ CRI) <sup>8</sup>	DIMMING
<b>120</b> - 120V <b>UNV</b> - 120V-277V <b>347</b> <sup>7</sup> - 347V  <sup>7</sup> Available with remote 0-10V dimming options RD1 and RSD1 only. Consult factory for details.	<b>7W</b> - Low output 529-896 lm <b>10W</b> - Medium output 683-1103 lm <b>14W</b> - High output 883-1338 lm  <sup>8</sup> For delivered lumens, see multiplier tables on page 3.	<b>REMOTE</b> <b>RD1</b> - 1% 0-10V <b>RELV</b> <sup>9</sup> - ELV 120V <b>RTRI</b> <sup>9</sup> - TRIAC 120V <b>RLDE1</b> <sup>10</sup> - Lutron Hi-lume 1% Eco <b>RDA</b> <sup>10</sup> - DALI <b>RELD0</b> - eldoLED 0.1% <b>RELD1</b> - eldoLED 1%  <sup>9</sup> Available with 120V only. <sup>10</sup> On-site commissioning is required.
	<b>SOLA</b> <b>8W</b> - Low output 560 lm (20° only) <b>13W</b> - High output 740-900 lm (40° and up)	<b>SOLA</b> <b>RSD1</b> - Single 0-10V input
	<b>DUO</b> <b>5W</b> - Low output 300 lm (20° only) <b>10W</b> - High output 530-640 lm (40° and up)	<b>DUO</b> <b>RDMX</b> <sup>10</sup> - DMX, to specify, see pages 6 to 8 <b>RDDA</b> <sup>10</sup> - DALI DT6 <b>RDDA8</b> - DALI DT8 <b>RDD1</b> - Dual 0-10V input for CCT/intensity <b>RLD2</b> <sup>10</sup> - Lutron DALI-2 digital

### Mounting

MOUNTING TYPE	JBOX PLATE COVER/CONDUIT
<b>DM</b> - Direct mount <b>JB</b> - Junction box, round cover plate <b>CD</b> - Conduit feed, round canopy	<b>FINISH</b> <b>TMW</b> - Textured matte white <b>TMB</b> - Textured matte black <b>CF#</b> - Custom finish, specify RAL# (e.g. <b>CF1028</b> ) <b>NA</b> <sup>12</sup> - None  <sup>12</sup> Specify with direct (DM) mounting type option only.

## Photometrics

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



Delivered Lumens for Round White Flush (1P) Baffles - At 35K

CRI	80+ CRI								90+ CRI							
	10	20	30	40	50	60	75	90	10	20	30	40	50	60	75	90
Low - 7 W	537	529	896	869	859	795	748	711	496	487	822	795	785	730	684	656
Medium - 9.8 W	694	683	1103	1068	1057	978	921	876	641	630	1012	978	966	898	841	807
High - 13.8 W	897	883	1338	1297	1283	1187	1118	1062	828	814	1228	1187	1173	1090	1021	980

Delivered Lumens - At 30K

95+ CRI							
10	20	30	40	50	60	75	90
NA	NA	607	588	675	628	589	564
NA	NA	870	841	830	771	724	695
NA	NA	1056	1021	1009	937	878	855

Efficacy Based on Delivered Lumens - High 13.8 W

BEAM	LPW								
	10	20	30	40	50	60	75	90	
80+ CRI		65	64	97	94	93	86	81	77
90+ CRI		60	59	89	86	85	79	74	71
95+ CRI		NA	NA	77	74	73	68	64	61

Beam Angle

BAFFLE POSITION	ACTUAL BEAM ANGLE							
	10	20	30	40	50	60	75	90
2" Cylinder Flush	10.4	19.1	32.0	40.0	46.5	59.0	73.1	80.1
2" Cylinder Regressed 1/2"	10.4	19.1	31.6	38.7	45.0	55.3	69.9	75.1
2" Cylinder Regressed 1"	10.4	19.0	30.2	36.6	42.0	50.9	62.8	67.7

Multiplier - Efficacy

BAFFLE POSITION	10	20	30	40	50	60	75	90
2" Cylinder Flush	1	1	1	1	1	1	1	1
2" Cylinder Regressed 1/2"	0.97	0.97	0.98	0.97	0.96	0.96	0.94	0.94
2" Cylinder Regressed 1"	0.93	0.93	0.94	0.92	0.91	0.89	0.87	0.85

SOLA and DUO Max Wattage

BEAM	90+ CRI							
	10	20	30	40	50	60	75	90
DUO	NA	5	NA	10	10	10	10	10
SOLA	NA	8	NA	13	13	13	13	13

Multiplier - CCT

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

Multiplier - Baffle Color

BAFFLE VARIABLES		
White	Round	1
Black	Round	0.95

Multiplier - Optical Options

LENS AND LOUVERS	
No lens	1
Soft diffused lens	0.94
Frosted lens	0.78
Hex louver	0.82

For SOLA and DUO, please consult factory.

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

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

### Technical Specification

**DESCRIPTION** Ø 2" cylinder with multiple height, output, color, and dimming options in a variety of standard or custom finishes.

#### CYLINDER

Die-cast and extruded aluminum.

**Mounting Type:** Direct mount, junction box and conduit

**Canopy:** Junction box cover plate for junction box mounting type, conduit (when recessed wiring is not possible)

**Finish:** Powder coated paint, textured white & black matte. Custom colors also available (provide RAL #)

#### LIGHT ELEMENT

**LED Module:** Integral COB module. 90+ CRI and 2 SDCM, Standard with options of 80+ CRI, or 95+ CRI. L80 > 60,000 hours

**Light Output:** From 529-1338 lumens

**HyFlex™ Optics:** Proprietary TIR/reflector with field interchangeable beam smoothing lenses

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

#### BAFFLE

Die-cast aluminum.

**Baffle position:** Flush, ½" and 1" regress

**CHROMAWERX** SOLA (dim-to-warm) and DUO (tunable white). See pages 5 for more information.

#### ELECTRICAL

**Remote drivers:** 0-10V, ELV, TRIAC

Lutron Hi-Lume EcoSystem, DALI, eldoLED 0.1%, eldoLED 1%, DMX, Lutron DALI-2 digital.

**Emergency Options:** Bodine emergency battery back-up is installed remotely. For 7W or 10W fixtures, battery provides 6W of power. For 14W fixtures, 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.

### Light

#### Cylinder Housing

4.5", 6", 9" Height  
Textured Matte White Finish  
Textured Matte Black Finish  
Custom Finish Specify RAL#

#### Light Element

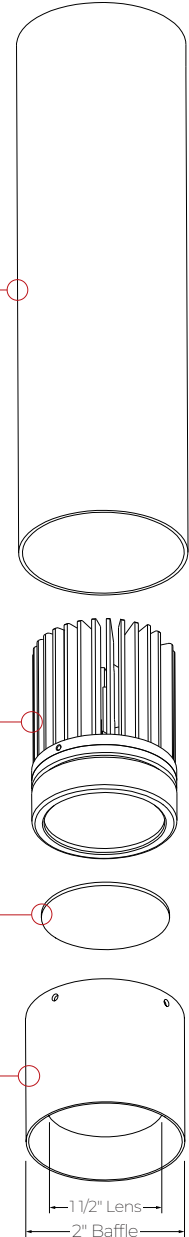
Heat Sink  
LED Module  
Hyflex™ Optics  
8 Available Beam Options  
10° - 90°

#### Lens

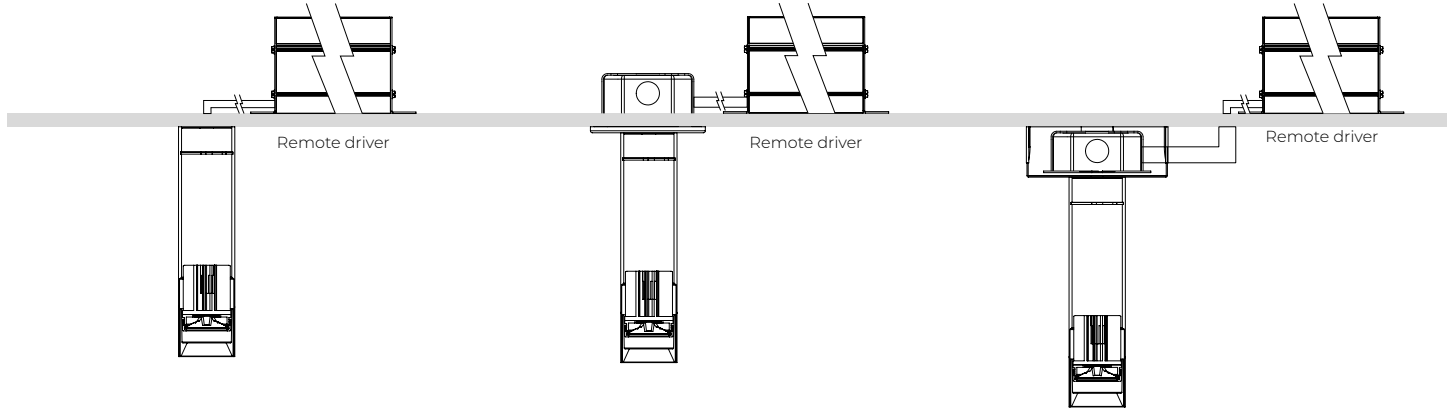
Frosted  
Soft Diffused

#### Baffle

3 Baffle Positions - Flush, ½", and 1"  
Textured Matte White Finish  
Textured Matte Black Finish  
Custom Finish Specify RAL#



## Mounting



**DM - Direct Mount**  
Remote driver

**JB - Junction Box Cover Plate**  
Remote driver  
Round canopy Ø 4 ½"  
Height 0.275"

**CD - Conduit Feed Canopy**  
Remote driver  
For surface mounted J-box  
Round canopy Ø 5 ½"  
Height 2"

## Optics

Hyflex™ optics provide precise optical control in a remarkably compact form.

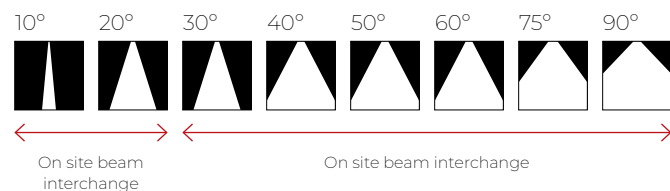
The core of this four-tier system is compound reflector with a central TIR element, just 1.06" deep.

Beam-smoothing discs perfect beam angles up to 90°. Beam angles are easily interchanged in the field.

## 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 95+ 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



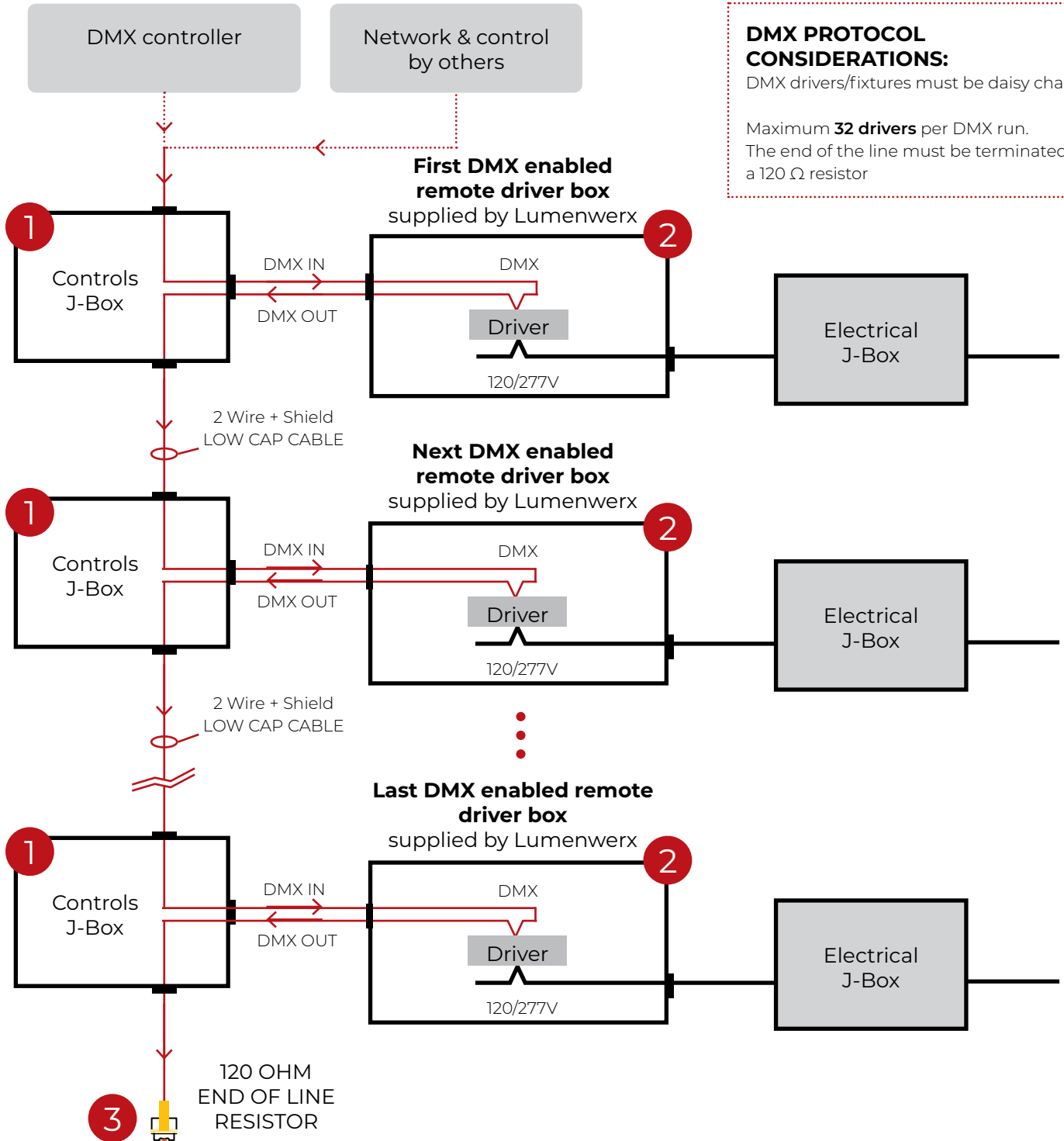
Chromawerx SOLA is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.



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.

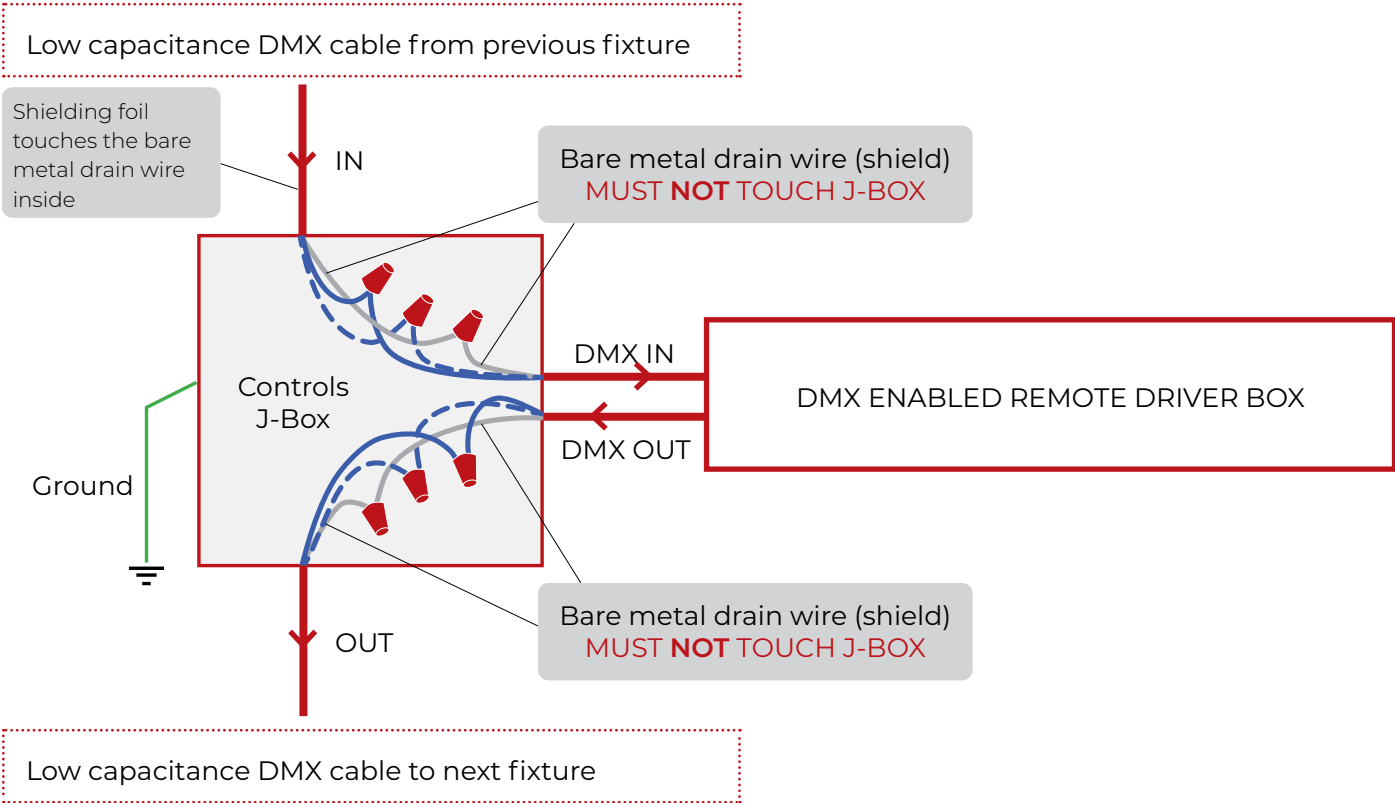
**DUO** GENERIC DMX NETWORK ARCHITECTURE

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.**

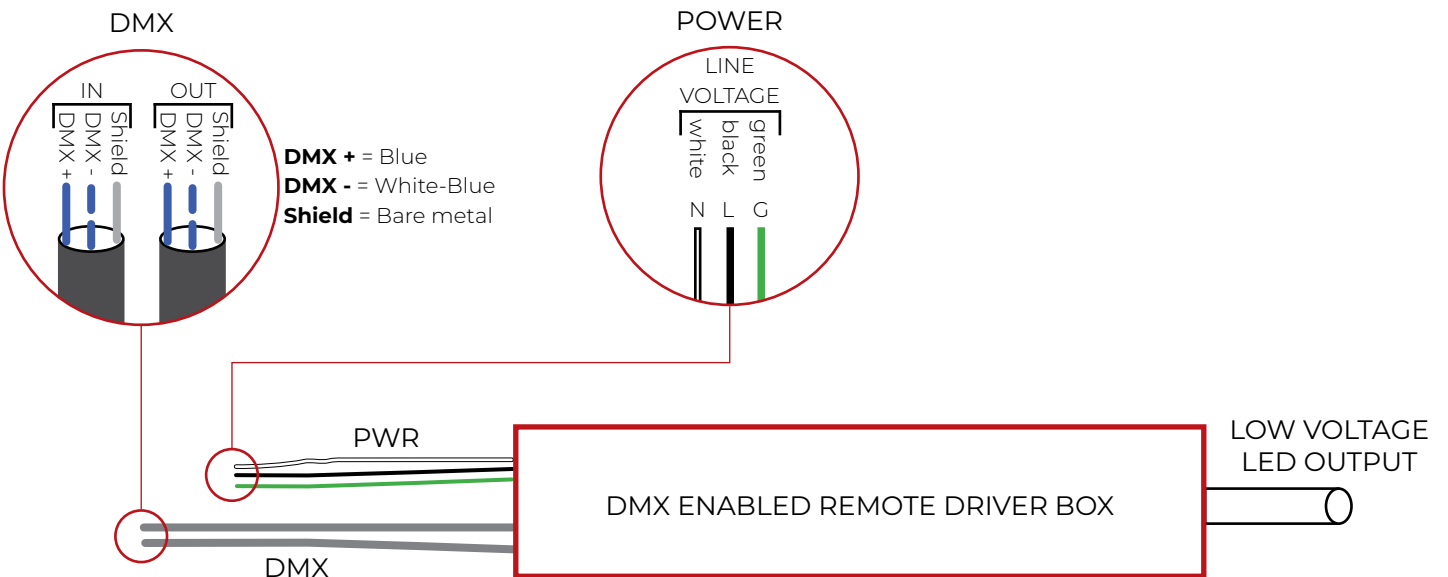


**DMX PROTOCOL CONSIDERATIONS:**  
 DMX drivers/fixtures must be daisy chained.  
  
 Maximum **32 drivers** per DMX run.  
 The end of the line must be terminated by a 120 Ω resistor

## 1 J-BOX DMX DAISY CHAIN DETAIL



## 2 DMX CONNECTION REMOTE DRIVER



**3** LAST DMX CONNECTION DETAIL

