

Voilà

4" Cuboid Pendant

LUMENWERX

Project: _____

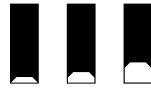
Type: _____



Aperture Size

3.55" (Square)

Baffle Position



Flush, 1/2" & 1" recess baffles

Height

4.5", 6", 9"

Mounting Types

Pendant

Cylinder & Cuboid Finishes

- Textured matte white
- Textured matte black
- Custom RAL

Color Temperatures

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

Delivered 1152-1849 lm
14-20 Watts, up to 99 lm/W

Integral Drivers

0-10V, TRIAC & ELV

Remote Drivers

0-10V, TRIAC & ELV
eldoLED
Lutron
DMX
Remote emergency battery pack

Voilà 4" Cylinders feature innovative Hyflex™ optics for precise beam control. Voilà Cylinders are offered in round and square form factor and in three height options, all with on-board and remote driver options. The Voilà COB source matches other Lumenwerx luminaires, with 90 CRI and 2-step color consistency, and is available with 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 ¹	WATTS	EFFICACY LM/W
1336 lm	14 W	95 lm/W
1813 lm	20 W	91 lm/W

¹ Lumens packages are assuming 3500K, 80 CRI, 30° beam, square white baffle

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

CRI	90 CRI								
BEAM	10	20	30	40	50	60	75	90	
Low - 13.8 W	1257	1203	1410	1424	1379	1363	1333	1302	
Medium - 19.7 W	1576	1508	1912	1933	1871	1849	1808	1766	

Cuboid

Product Specification

LUMINAIRE ID	CUBOID	BAFFLE		LENS	
VO4CUP					
VO4CUP - Voila 4" Cuboid Pendant	HEIGHT 4.5 ¹ - 4.5" 6 ¹ - 6" 9 - 9" ¹ Available with integral canopy option (INT) only when specified with integral driver.	FINISH TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# (e.g. CF1028)	POSITION 1P - Flush 2P ^{2,3} - 1/2" 3P ^{2,4} - 1" ² Only available with 50° beam or lower. ³ Not available with 4.5" length. ⁴ Not available with 4.5" and 6" lengths.	FINISH TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# (e.g. CF1028)	SDL - Soft diffused lens FDL - Frosted diffused lens NOL - No lens

Light Element

LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP	OPTION
SW - Static white	10 - 10° Narrow spot 20 - 20° Spot 30 - 30° Narrow flood 40 - 40° Flood 50 - 50° Wide flood 60 - 60° Very wide flood 75 - 75° Very wide flood 90 - 90° Open flood	2 - 2 Step MacAdam Ellipse	80 - 80 CRI 90 - 90 CRI 97 ⁷ - 97 CRI ⁷ Not available with 3500K.	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	HEX - Hex louver NA - None
SOLA - Dim-to-warm DUO - Tunable white	20 ⁵ - 20° Spot 40 ⁶ - 40° Flood 50 ⁶ - 50° Wide flood 60 ⁶ - 60° Very wide flood 75 ⁶ - 75° Very wide flood 90 ⁶ - 90° Open flood ⁵ Available with low output only. ⁶ Available with high output only.	3 - 3 Step MacAdam Ellipse	90 - 90 CRI (SOLA and DUO)	SOLA - Dim-to-warm 35K-22K DUO - Tunable white 27K-65K	

Power Supply & Dimming

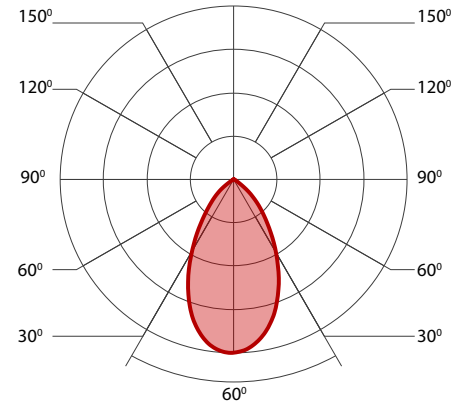
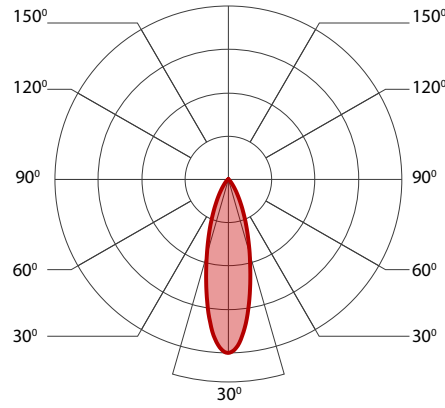
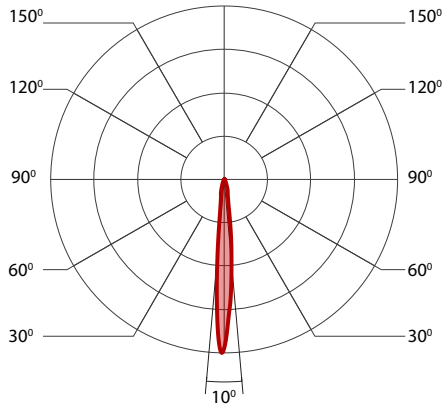
VOLTAGE	WATTAGE (80 CRI) ⁹	DIMMING	
120 - 120V UNV - 120V-277V 347 ⁸ - 347V ⁸ Available with remote 0-10V dimming options RD1 and RSD1 only. Consult factory for details.	14W - Low output 1152-1363 lm 20W - Medium output 1444-1849 lm ⁹ For delivered lumens, see multiplier tables on page 3. SOLA 13W - Low output 920 lm (20° only) 20W - High output 1500-1660 lm (40° and up) DUO 10W - Low output 700 lm (20° only) 20W - High output 1100-1200 lm (40° and up)	INTEGRAL D1 - 1% 0-10V ELV ¹⁰ - ELV 120V TRI ¹⁰ - TRIAC 120V ¹⁰ Available with 120V only. SOLA SD1 - Single 0-10V input	REMOTE RD1 - 1% 0-10V RELV ¹¹ - ELV 120V RTRI ¹¹ - TRIAC 120V RLTEA2W ¹¹ - Lutron 1% - 2 wire FP 120V RLDEI - Lutron Hi-lume 1% Eco RLDES - Lutron 5% EcoSystem RDA - DALI RELDO - eldoLED 0.1% RELD1 - eldoLED 1% ¹¹ Available with 120V only. SOLA RSD1 - Single 0-10V input DUO RDMX - DMX, to specify, see pages 6 to 8 RDDA - DALI RDD1 - Dual 0-10V input for CCT/intensity RPSQ0 - Lutron T-Series 1% tunable white

Mounting

CANOPY	HANGER	
TYPE REG ¹³ - Regular canopy, 4" octagonal junction box, square canopy CD ¹³ - Conduit feed, square canopy INT - Integral driver on junction box, square canopy (integral driver only) ¹³ Not available with 4.5" and 6" lengths when specified with integral driver.	FINISH TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# (e.g. CF1028)	BKS##IN - Textured black stem WHS##IN - Textured white stem Min 18" - max 48" Please specify length (##) in inches.

Photometrics

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



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

BEAM	80 CRI								90 CRI							
	10	20	30	40	50	60	75	90	10	20	30	40	50	60	75	90
Low - 13.8 W	1348	1294	1501	1532	1475	1455	1424	1394	1257	1203	1410	1424	1379	1363	1333	1302
Medium - 19.7 W	1692	1623	2037	2078	1995	1975	1933	1892	1576	1508	1912	1933	1871	1849	1808	1766

Delivered Lumens - At 30K

BEAM	97 CRI							
	10	20	30	40	50	60	75	90
Low - 13.8 W	1080	1053	1213	1225	1186	1172	1146	1120
Medium - 19.7 W	1355	1297	1644	1663	1609	1590	1555	1519

Beam Angle

BAFFLE POSITION	ACTUAL BEAM ANGLE							
	10	20	30	40	50	60	75	90
4" Cuboid Flush	11.4	16.8	29.0	39.1	47.2	58.2	75.1	90.5
4" Cuboid Regressed 1/2"	11.4	16.8	28.8	38.7	46.3	56.6	72.1	86.3
4" Cuboid Regressed 1"	11.4	16.7	28.3	37.5	44.5	54.0	68.8	81.2

Efficacy Based on Delivered Lumens - High 19.7 W

BEAM	LPW							
	10	20	30	40	50	60	75	90
80 CRI	86	82	103	105	101	100	98	96
90 CRI	80	77	97	98	95	94	92	90
97 CRI	69	66	83	84	82	81	79	77

SOLA and DUO Max Wattage

BEAM	90 CRI							
	10	20	30	40	50	60	75	90
DUO	NA	10	NA	19	19	19	19	19
SOLA	NA	13	NA	20	20	20	20	20

Multiplier - Optical Options

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

Multiplier - Efficacy

BAFFLE POSITION	10	20	30	40	50	60	75	90
Flush	1	1	1	1	1	1	1	1
Regressed 1/2"	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.97
Regressed 1"	0.98	0.98	0.98	0.97	0.97	0.96	0.96	0.95

Multiplier - CCT

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

Multiplier - Baffle Color and Shape

BAFFLE VARIABLES		
White	Square	0.89
Black	Square	0.87

For SOLA and DUO, please consult factory.

Project: _____

Type: _____

Technical Specification

DESCRIPTION 3.55" cuboid with multiple height, output, color, and dimming options in a variety of standard or custom finishes.

CUBOID

Die-cast and extruded aluminum.

Stem: Rigid stem 18" to 48" standard length

Canopy: Regular and conduit (when recessed wiring is not possible)

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

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 1152-1849 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 page 5 for more information.

ELECTRICAL

Integral: 0-10V, ELV, TRIAC

Remote: 0-10, ELV, TRIAC

Lutron Eco-System, Lutron Hi-lume, DALI, eldoLED 0.1%, eldoLED 1%, DMX, Lutron T-Series (tunable white).

Emergency Options: Emergency battery back-up option available as remote (Fullham, 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.

Light

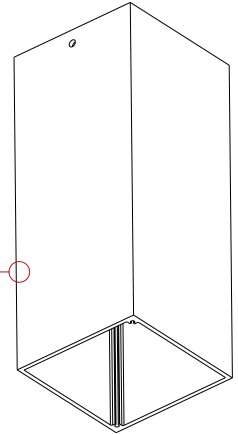
Mounting

Stem Min 18" - Max 48"



Cuboid Housing

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



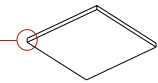
Light Element

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



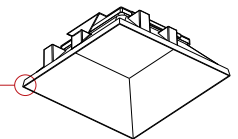
Lens

Frosted
Soft Diffused



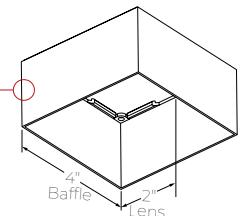
Baffle

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

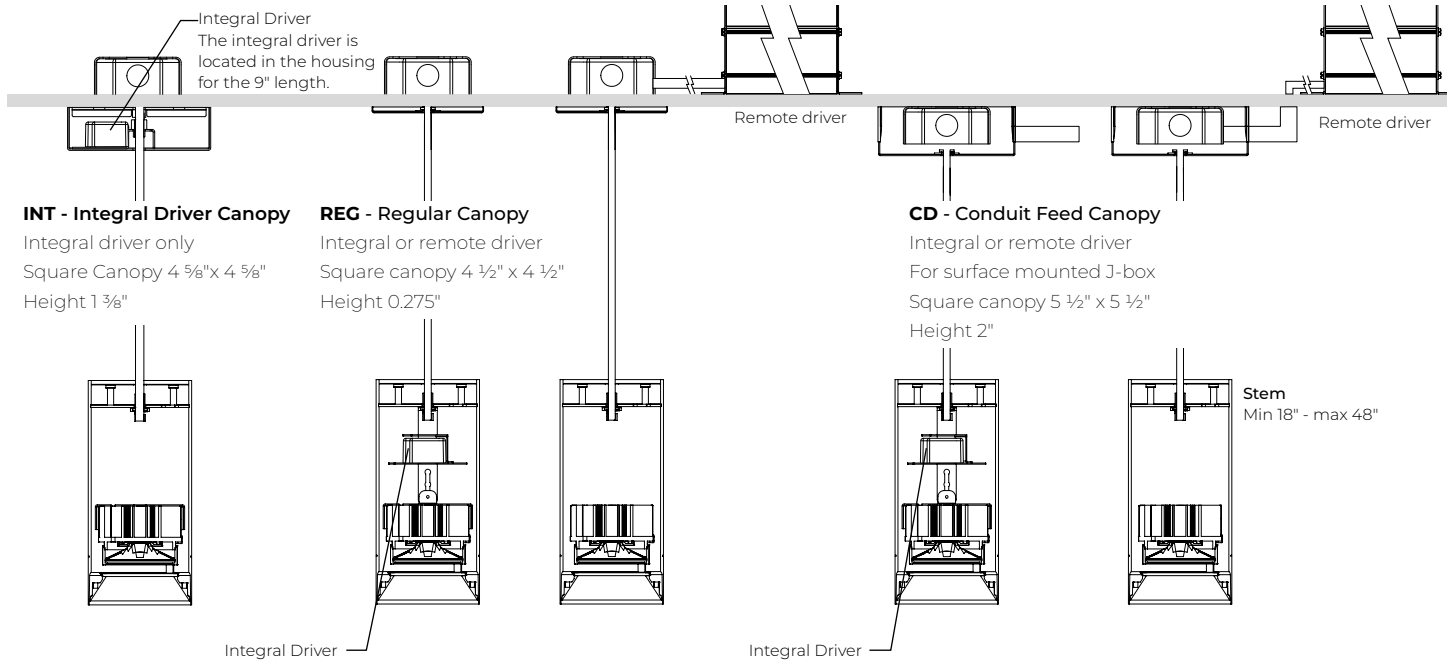


Baffle Cover

3 Baffle Positions - Flush, 0.5", and 1"
Textured Matte White Finish
Textured Matte Black Finish
Custom Finish Specify RAL#



Mounting



Optics

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

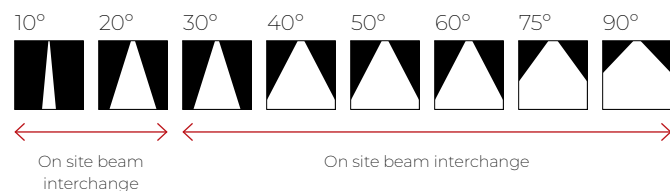
The core of this four-tier system is compound reflector with a central TIR element, just 1.06" deep.

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 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



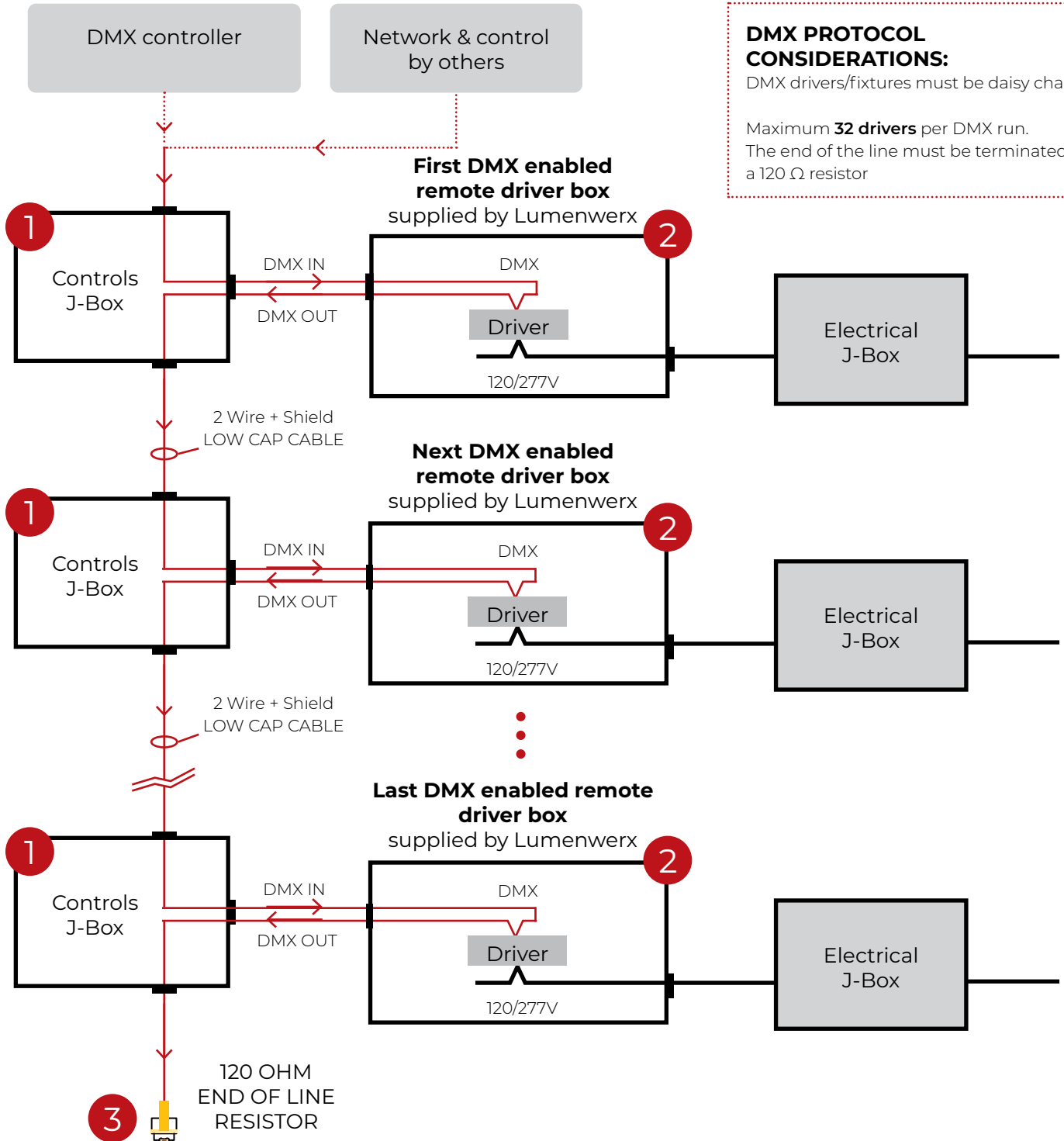
Chromawerx Sola is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple or analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.



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.

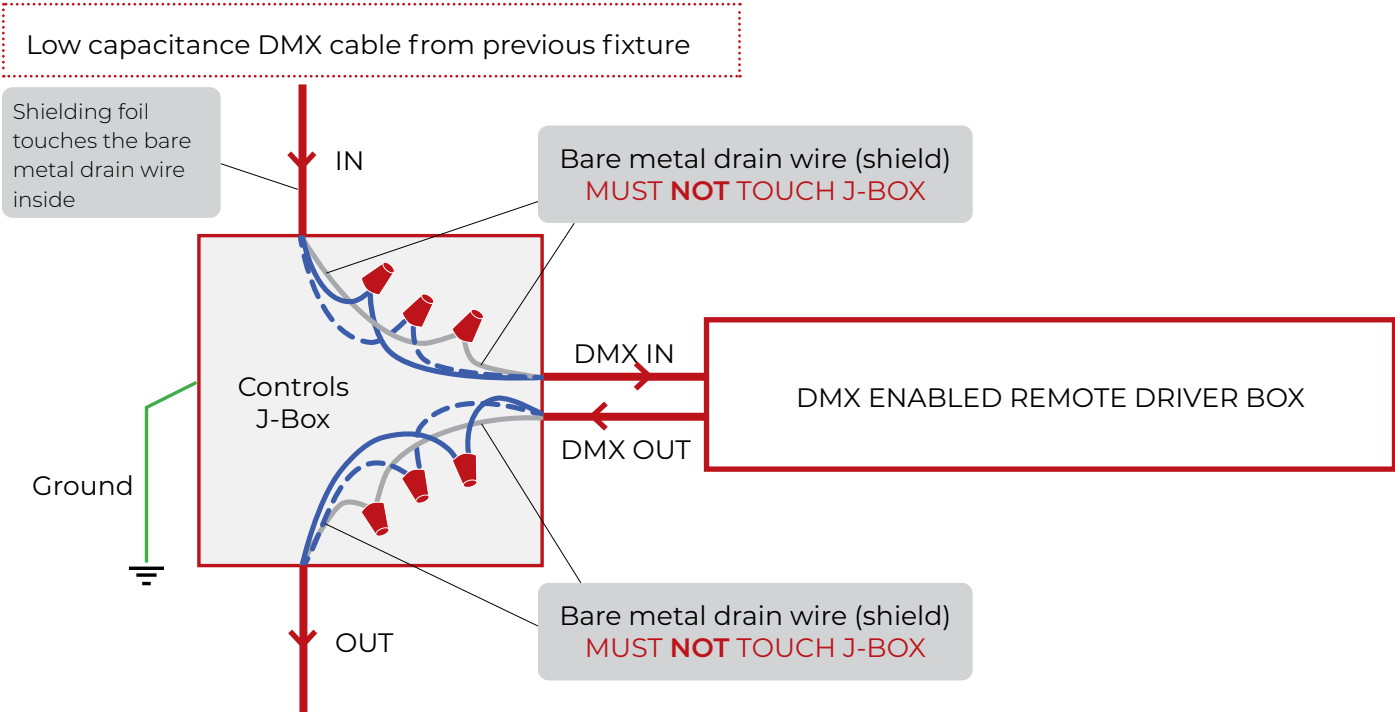
DUO GENERIC DMX NETWORK ARCHITECTURE

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.**



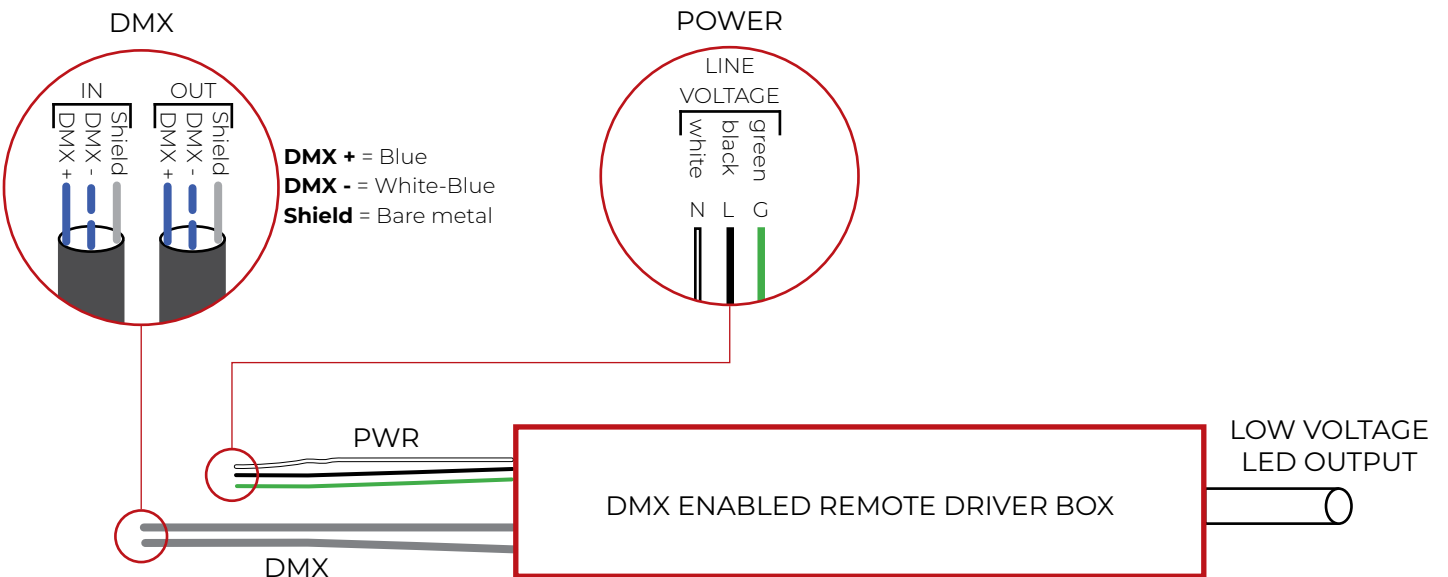
DMX PROTOCOL CONSIDERATIONS:
 DMX drivers/fixtures must be daisy chained.
 Maximum **32 drivers** per DMX run.
 The end of the line must be terminated by a 120 Ω resistor

1 J-BOX DMX DAISY CHAIN DETAIL



Low capacitance DMX cable to next fixture

2 DMX CONNECTION REMOTE DRIVER



3 LAST DMX CONNECTION DETAIL

