

Project: _____

Type: _____



Aperture Size

4" (Round)

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 1294-2078 lm
14-20 Watts, up to 111 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 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
1501 lm	14 W	107 lm/W
2037 lm	20 W	102 lm/W

¹ Lumens packages are assuming 3500K, 80+ CRI, 30° beam, round 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	

Cylinder

Product Specification

LUMINAIRE ID	CYLINDER	BAFFLE		LENS
VO4CYS				
VO4CYS - Voilà 4" Cylinder Surface	HEIGHT 4.5 ¹ - 4.5" 6 ¹ - 6" 9 - 9" ¹ Available with remote dimming options only.	FINISH TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# (e.g. CF1028)	POSITION 1P - Flush 2P ^{2,3} - ½" 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 95 - 95+ CRI	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	HEX ⁷ - Hex louver NA - None ⁷ Not available with 60°/75°/90° beam options.
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	

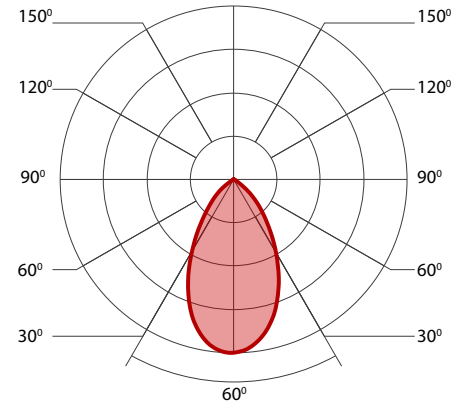
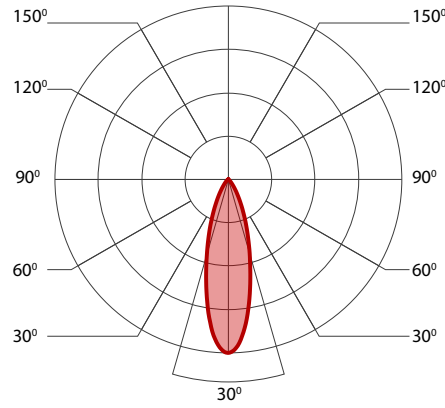
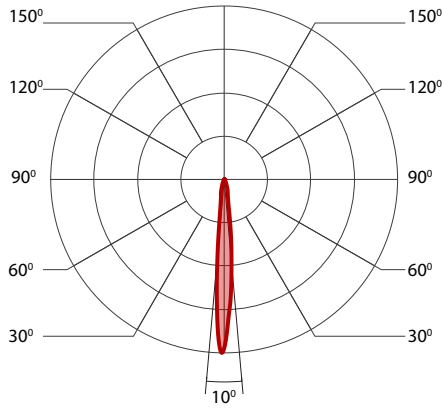
Power Supply & Dimming

Mounting

VOLTAGE	WATTAGE (80+ CRI) ⁹	DIMMING		MOUNTING TYPE	JBOX PLATE COVER/CONDUIT
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 1294-1532 lm 20W - Medium output 1623-2078 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 ¹⁰ DI - 1% 0-10V ELV ¹¹ - ELV 120V TRI ¹¹ - TRIAC 120V ¹⁰ Not available with 4.5" and 6" lengths. ¹¹ Available with 120V only.	REMOTE RD1 - 1% 0-10V RELV ¹² - ELV 120V RTRI ¹² - TRIAC 120V RLDE1 ¹³ - Lutron Hi-Lume 1% Eco RDA ¹³ - DALI RELD0 - eldoLED 0.1% RELD1 - eldoLED 1% ¹² Available with 120V only. ¹³ On-site commissioning is required.	+EB ¹⁴ - Emergency battery ¹⁴ Specify with remote dimming only. The code will be like the following example: RD1 + EB.	DM - Direct mount JB - Junction box, round cover plate CD - Conduit feed, round canopy FINISH TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL# (e.g. CF1028) NA ¹⁵ - None ¹⁵ 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 and accessories will change the lumen value.



Delivered Lumens for Round White Flush (1P) 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	95+ 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
95+ 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	0.97	0.98	0.98	0.98	0.97
Regressed 1"	0.97	0.97	0.97	0.96	0.96	0.95	0.94	0.93

Multiplier - CCT

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

Multiplier - Baffle Color and Shape

BAFFLE VARIABLES		
White	Round	1
Black	Round	0.95

For SOLA and DUO, please consult factory.

Project: _____

Type: _____

Technical Specification

DESCRIPTION Ø 4" 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 1294-2078 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, 0.5" 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: 0-10V, ELV, TRIAC

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

Emergency Options: Emergency battery back-up option available as 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).

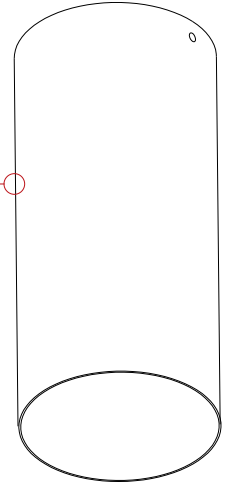
LISTING cETLus listed to UL 1598 and CAN/CSA Standard C22.2 No. 250.0.

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

Light

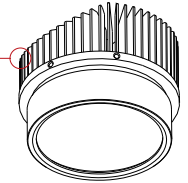
Cylinder Housing

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 Degrees



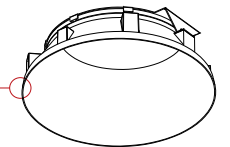
Lens

Frosted
Soft Diffused



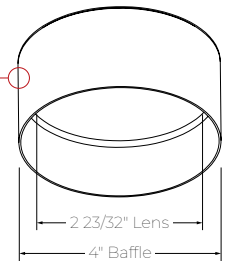
Baffle

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

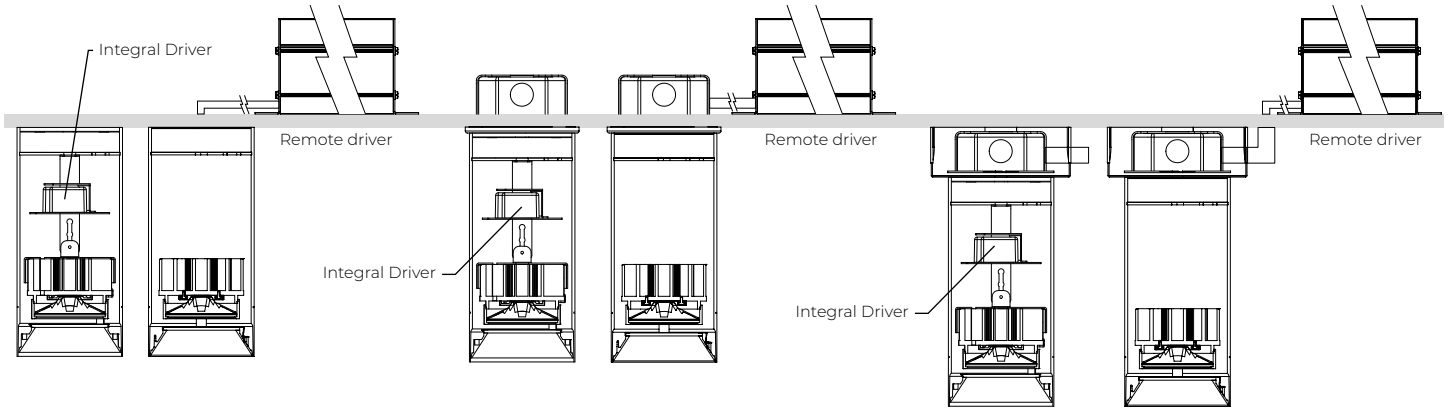


Baffle Cover

Textured Matte White Finish
Textured Matte Black Finish
Custom Finish Specify RAL#



Mounting



DM - Direct Mount
Integral or remote driver

JB - Junction Box Cover Plate
Integral or remote driver
Round canopy Ø 4 ½"
Height 0.275"

CD - Conduit Feed Canopy
Integral or 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.

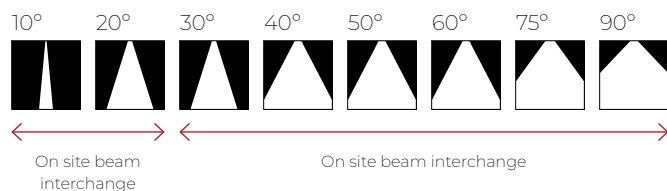
The core of this four-tier system is compound reflector with a central TIR element, just 1.06" deep.

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

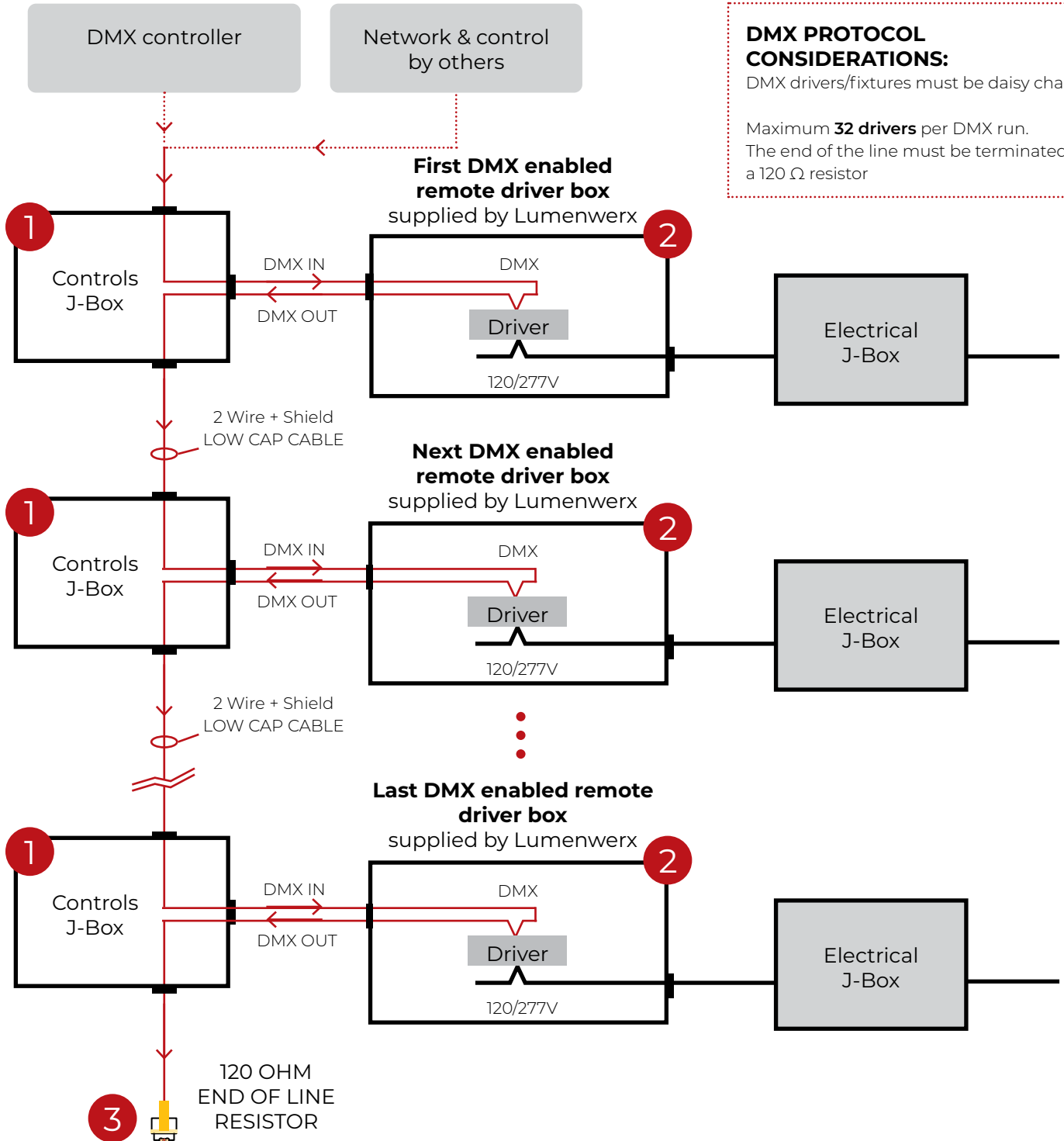
Chromawerx SOLA is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple or analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.

CHROMAWERX

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

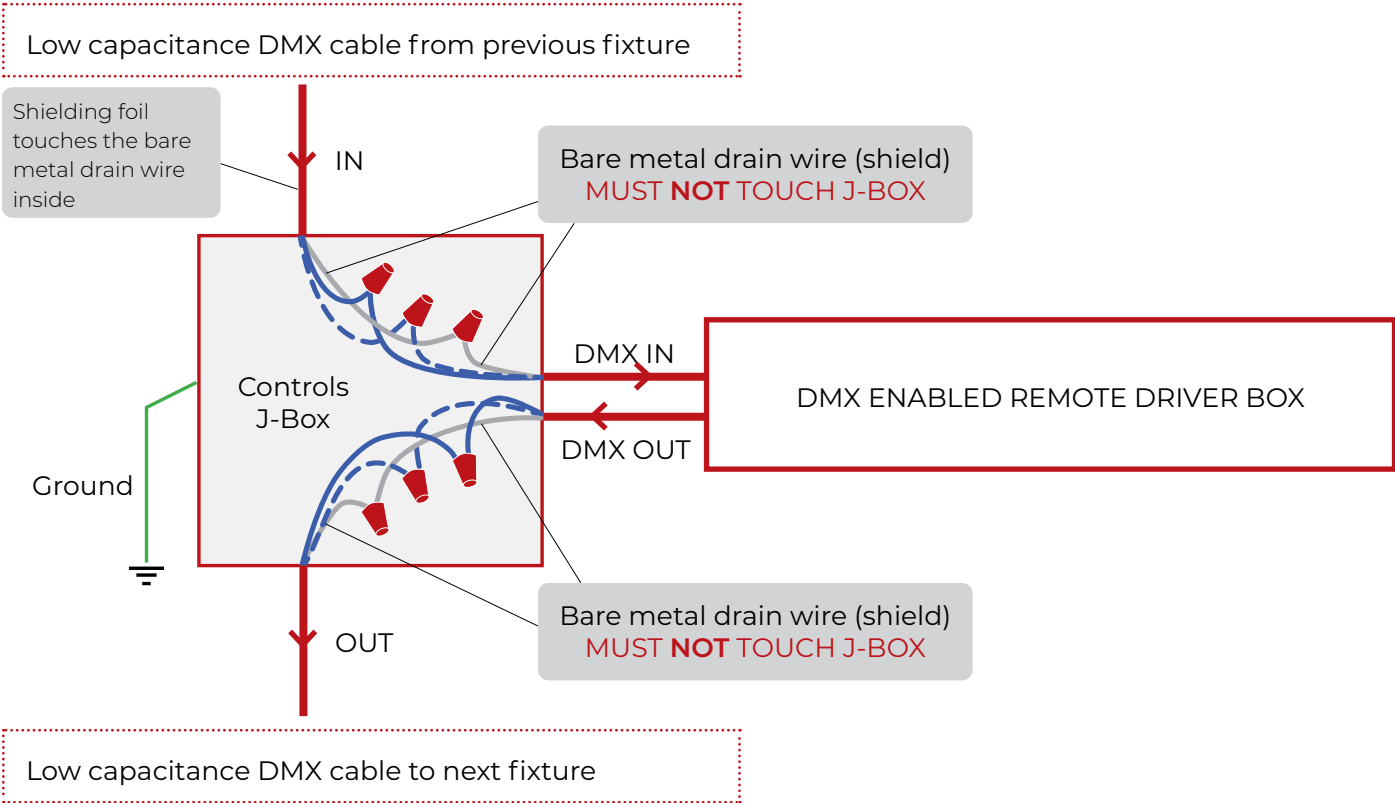
A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. **When placing the PO, please provide the contact information of your DMX integrator.**



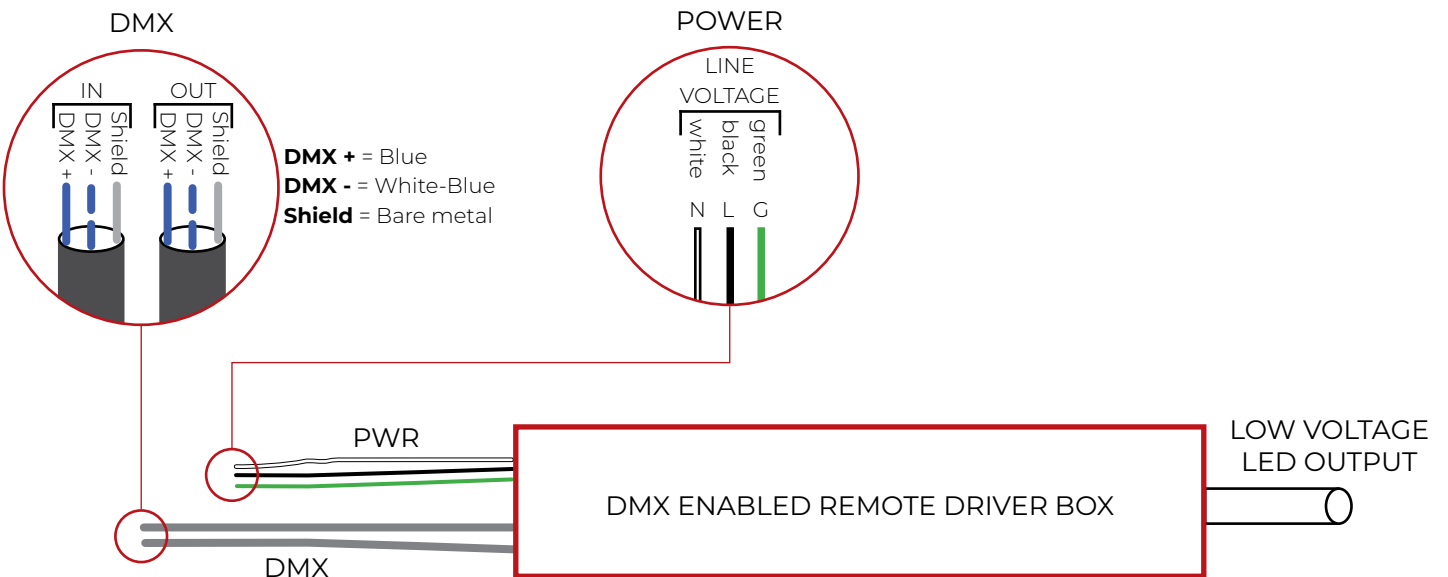
DMX PROTOCOL CONSIDERATIONS:
DMX drivers/fixtures must be daisy chained.

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

