Voilà

4" Square Downlight
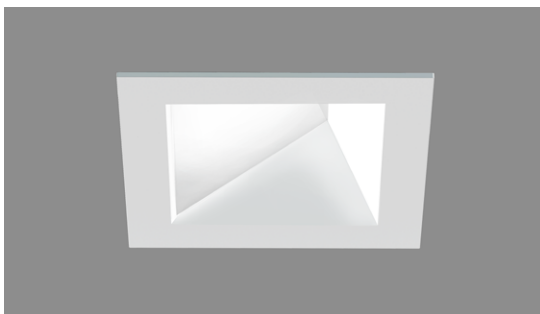### Wall Wash

Lumenwerx

Trimless

Trim

CHROMAWERX

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.
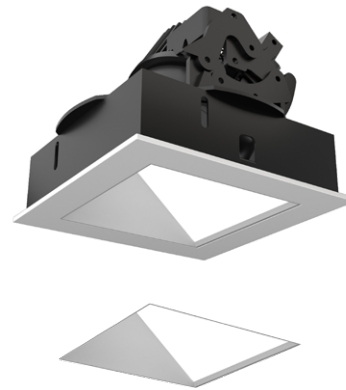
Performance

LUMEN OUTPUT [1]	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

[1] Lumens packages are assuming 3500K, 80+ CRI, square white baffle

Delivered Lumens

CRI	80+ CRI (AT 3500K)	90+ CRI (AT 3500K)	95+ CRI (AT 3000K)
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

ETL LISTED Intertek

Voilà

4" Square Downlight
Wall Wash

Lumenwerx

Project: _____

_____

Type: _____

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

Product Specification

LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION	VOLTAGE	WATTAGE (80+ CRI) [4]	DIMMING		
VO4SRWW									

LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION	VOLTAGE	WATTAGE (80+ CRI) [4]	DIMMING — INTEGRAL	DIMMING — REMOTE	
VO4SRWW - Voila 4" Square Recessed Wall Wash	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** - Trimless millwork	**SW** - Static white	**OF** - Open frame type non-IC **IC** [2] - IC rated **CP** [2] - Chicago Plenum type-IC (CCEA) [2] IC/CP with low output only.	**ASB** - Adjustable standard bar hangers (grid and drywall) **FMB** - Flush mount bars (drywall only) **ACB** - Adjustable commercial bar hangers (grid and drywall) **AHC** - Adjustable hat channel bars **NA** - No bar hangers	**120** - 120V **277** - 277V **UNV** - 120V-277V **347** [3] - 347V [3] Available with 0-10V dimming options D1, RD1 and RSD1 only. Consult factory for details.	**14W** - Low output 1114 lm **20W** [5] - Medium output 1511 lm **28W** [5] - High output 2036 lm For other lumen packages, please consult factory. [4] For delivered lumens and other CRI, see multiplier tables on page 3. [5] Available with **OF** housing only.	**D1** - 1% 0-10V **ELV** [6] - ELV 120V **TRI** [6] - TRIAC 120V **LDE1** [7][8] - Lutron Hi-lume 1% Eco **DA** [7][8] - DALI **ELD0** [7] - eldoLED 0.1% **ELD1** [7] - eldoLED 1% **DEB** [9] - 0-10V with onboard emergency battery backup [6] Available with 120V only. [7] Not available with **CP** installation type. [8] On-site commissioning is required. [9] Available with **OF** housing only.	**RD1** - 1% 0-10V **RELV** [10] - ELV 120V **RTRI** [10] - TRIAC 120V **RLDE1** [11] - Lutron Hi-lume 1% Eco **RDA** [11] - DALI **RELD0** - eldoLED 0.1% **RELD1** - eldoLED 1% [10] Available with 120V only. [11] On-site commissioning is required.	**+EB** [12] - Emergency battery [12] Specify with remote dimming only. The code will be like the following example: **RD1+EB**.
		SOLA [1] - Dim-to-warm **DUO** [1] - Tunable white [1] Available with **OF** housing only.				**SOLA** **25W** - High output 1800-1981 lm **DUO** **20W** - High output 1100-1200 lm	**SOLA** **SD1** - Single 0-10V input **DUO** **DMX** [8] - To specify, see pages 7 to 9 **DDA** [8] - DALI DT6 **DDA8** [8] - DALI DT8 **DD1** - Dual 0-10V input for CCT/intensity **LD2** [8] - Lutron DALI-2 digital	**SOLA** **RSD1** - Single 0-10V input **DUO** **RDMX** [11] - To specify, see pages 7 to 9 **RDDA** [11] - DALI DT6 **RDDA8** [11] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** [11] - Lutron DALI-2 digital	

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

| LUMINAIRE ID	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.
VO4WW		**WW**			
VO4WW - Voila 4" Wall Wash	**SW** - Static white	**WW** - Wall wash	**2** - 2 Step MacAdam Ellipse	**80** - 80+ CRI **90** - 90+ CRI **95** - 95+ CRI	**27** - 2700K **30** - 3000K **35** - 3500K **40** - 4000K
	SOLA - Dim-to-warm **DUO** - Tunable white		**3** - 3 Step MacAdam Ellipse	**90** - 90+ CRI (**SOLA** and **DUO**)	**SOLA** - Dim-to-warm 35K-22K **DUO** - Tunable white 65K-27K

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

LUMINAIRE ID	TRIM STYLE	LENS	BAFFLE POSITION	BAFFLE FINISH	TRIM FLANGE FINISH
VO4SRB		**WW**	**SR**		
VO4SRB - Voila 4" Square Recessed Baffle	**TRM** - Flanged trim **TLMP** - Trimless drywall mudplate **TLMW** - Trimless millwork	**WW** - Wall wash diffuser	**SR** - Standard regress	**TMW** - Textured matte white **TMB** - Textured matte black **CF#** - Custom finish, specify RAL#. (e.g. **CF1028**)	**TMW** [13] - Textured matte white **TMB** [13] - Textured matte black **CF#** [13] - Custom finish, specify RAL#. (e.g. **CF1028**) **NA** - None [13] Applicable for **TRM** only.

ETL LISTED Intertek

Voilà

4" Square Downlight
Wall Wash

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
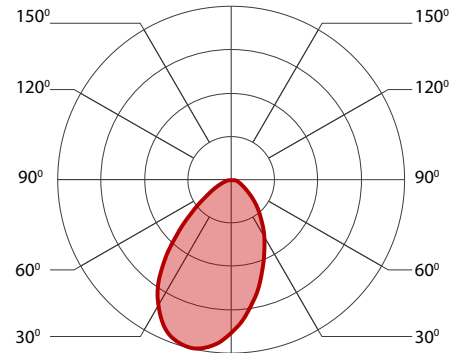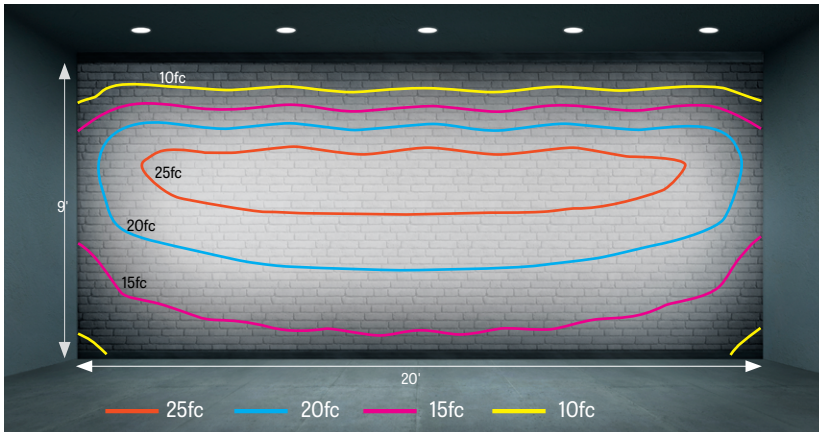
Foot-Candles for Round White Wall Wash Baffles

FC ON WALL	36" FROM WALL - 36" SPACING			36" FROM WALL - 48" SPACING			36" FROM WALL - 60" SPACING		
DISTANCE FROM CEILING	80+ CRI (At 3500K)	90+ CRI (At 3500K)	95+ CRI (At 3000K)	80+ CRI (At 3500K)	90+ CRI (At 3500K)	95+ CRI (At 3000K)	80+ CRI (At 3500K)	90+ CRI (At 3500K)	95+ CRI (At 3000K)
3"	7	7	6	5	5	4	4	4	3
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 (At 3500K)	90+ CRI (At 3500K)	95+ CRI (At 3000K)
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 28 W

LPW	
80+ CRI	73
90+ CRI	68
95+ CRI	58

Multiplier - CCT

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

For SOLA and DUO, please consult factory.

Multiplier - Baffle Color and Shape

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

Voilà
4" Square Downlight
Wall Wash

Project: _____

_____

Type: _____

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 standard, flush mount, adjustable commercial, and adjustable hat channel bar hangers are available as mounting options.
Clearance Height: Open frame/Type-IC/Chicago Plenum: 4"; Open frame with DEB or LD2 (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: 4 $^{21}/_{32}$" x 4 $^{21}/_{32}$"

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 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 Hi-Lume EcoSystem, DALI, eldoLED 0.1%, eldoLED 1%, DMX, Lutron DALI-2 digital
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 options are available as integral (Fulham), or remote (Fulham, Bodine, or IOTA). The battery provides 10 W of power.
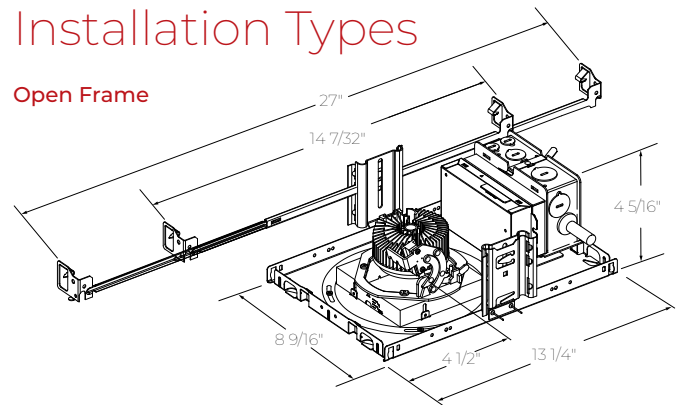
ENVIRONMENT Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees).

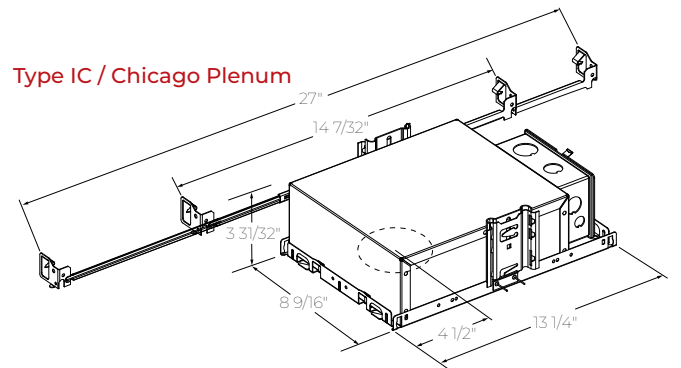**LISTING** cETLus listed to UL 1598 and CAN/CSA Standard C22.2 No. 250.0

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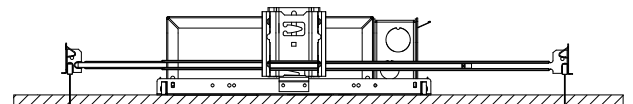
Installation Types

Open Frame

27"
14 7/32"
4 5/16"
8 9/16"
4 1/2"
13 1/4"

Type IC / Chicago Plenum

27"
14 7/32"
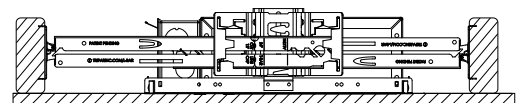3 31/32"
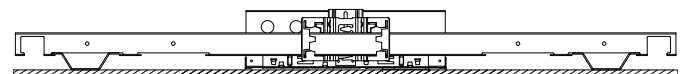8 9/16"
4 1/2"
13 1/4"

Mounting Options

ASB - Adjustable Standard Bar Hangers

FMB - Flush Mount Bars

ACB - Adjustable Commercial Bar Hangers
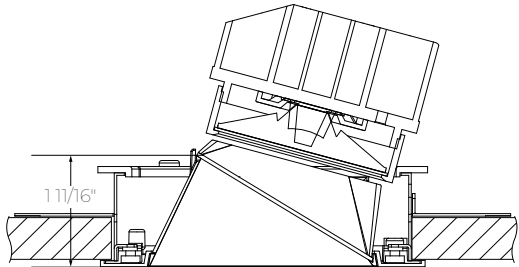

AHC - Adjustable Hat Channel Bars

cETLus LISTED
Intertek

Voilà

4" Square Downlight
Wall Wash

Light

1 11/16"
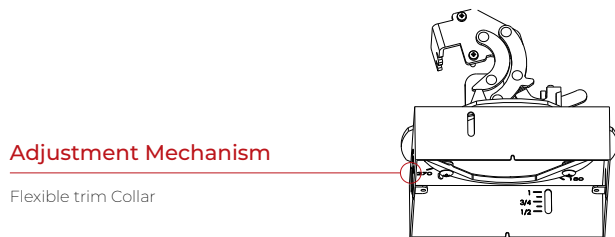
Standard Baffle

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 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

Wall Wash

Integral Driver

Unless otherwise specified, Voila comes standard with an integral, 120-277 VAC/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 10 W 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 10 W per downlight emergency lighting output. Recharge time of 24 hours.

Intertek

Voilà

4" Square Downlight

Wall Wash

Lumenwerx

Trim Dimensions

Trimless (TLMP, TLMW)
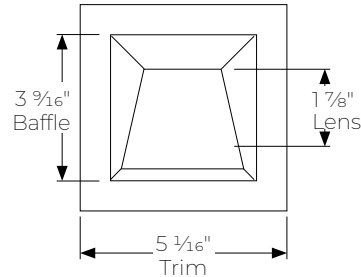
3 ⁹⁄₁₆" Baffle

1 ⁷⁄₈" Lens

Trim (TRM)

3 ⁹⁄₁₆" Baffle

1 ⁷⁄₈" Lens

5 ¹⁄₁₆" Trim
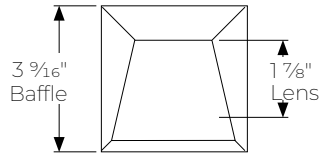
CHROMAWERX

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

Chromawerx DUO offers a two-channel control system which uses analog or digital protocols for synchronous control of both cool (6500K) to warm (2700K) 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. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.

Baffle

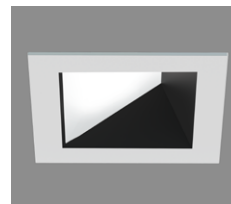Standard Regress

Trimless (TLMP, TLMW)
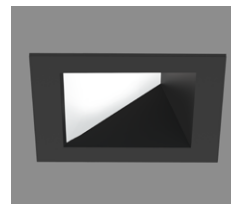

Black Baffle

White Baffle

Trim (TRM)

White Baffle, Black Trim

Black Baffle, White Trim

Black Baffle, Black Trim

White Baffle, White Trim

ETL LISTED Intertek

Voilà

4" Square Downlight
Wall Wash

Lumenwerx

Project: _____

Type: _____

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 <u>contact information of your DMX integrator.</u>**

DMX controller	Network & control by others
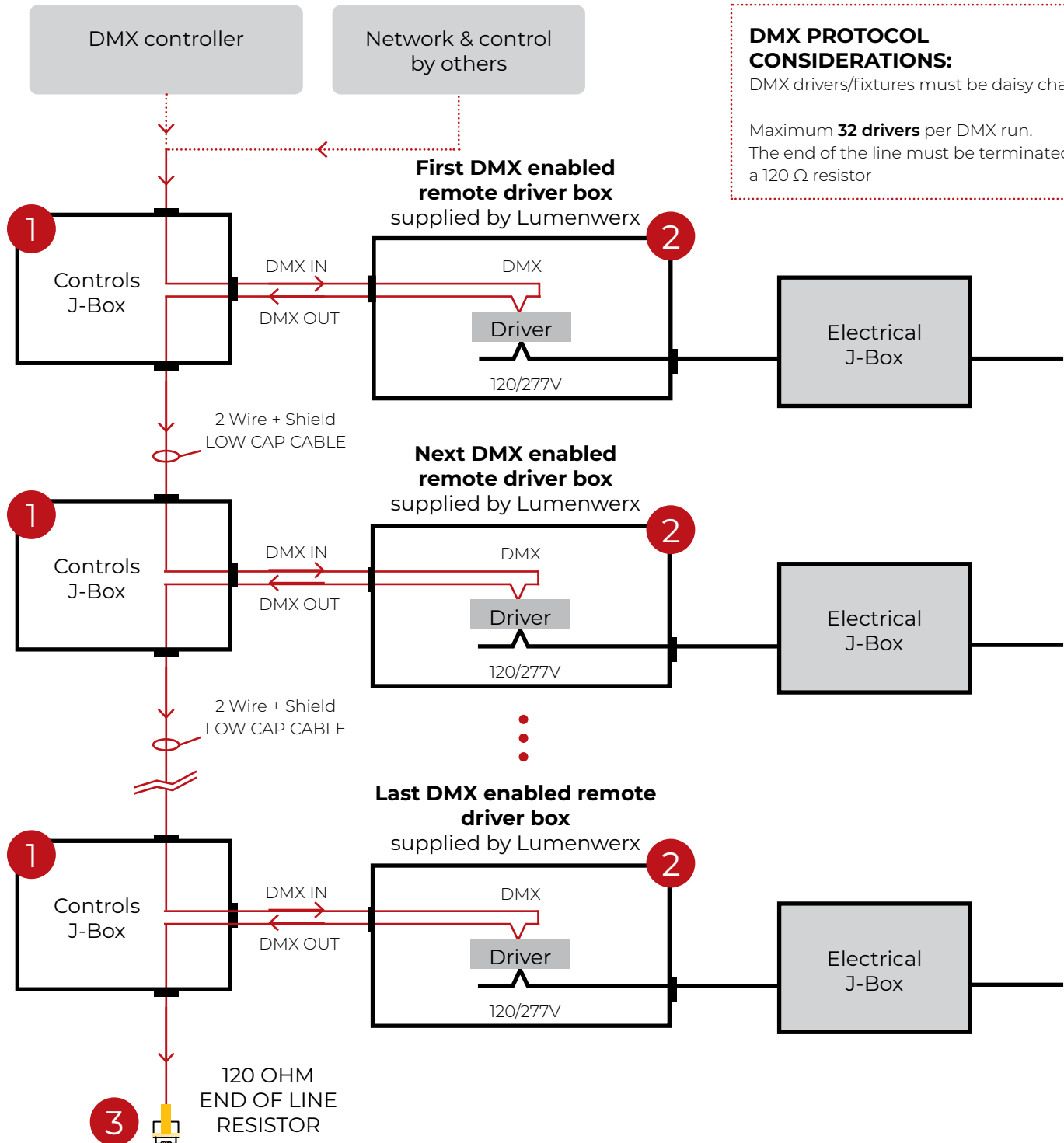
DMX PROTOCOL CONSIDERATIONS:
DMX drivers/fixtures must be daisy chained.

Maximum **32 drivers** per DMX run.
The end of the line must be terminated by a 120 Ω resistor

First DMX enabled remote driver box supplied by Lumenwerx

1 Controls J-Box

DMX IN
DMX OUT

2 DMX

Driver

120/277V

Electrical J-Box

2 Wire + Shield LOW CAP CABLE

Next DMX enabled remote driver box supplied by Lumenwerx

1 Controls J-Box

DMX IN
DMX OUT

2 DMX

Driver

120/277V

Electrical J-Box

2 Wire + Shield LOW CAP CABLE

Last DMX enabled remote driver box supplied by Lumenwerx

1 Controls J-Box

DMX IN
DMX OUT

2 DMX

Driver

120/277V

Electrical J-Box

3 120 OHM END OF LINE RESISTOR

ETL LISTED
c US
Intertek

Voilà
4" Square Downlight
Wall Wash

Lumenwerx

Project: _____

Type: _____

---

1 **J-BOX DMX DAISY CHAIN DETAIL**

Low capacitance DMX cable from previous fixture

Shielding foil touches the bare metal drain wire inside

IN

Bare metal drain wire (shield)
MUST **NOT** TOUCH J-BOX

Controls J-Box

DMX IN

DMX ENABLED REMOTE DRIVER BOX

DMX OUT

Ground

Bare metal drain wire (shield)
MUST **NOT** TOUCH J-BOX

OUT
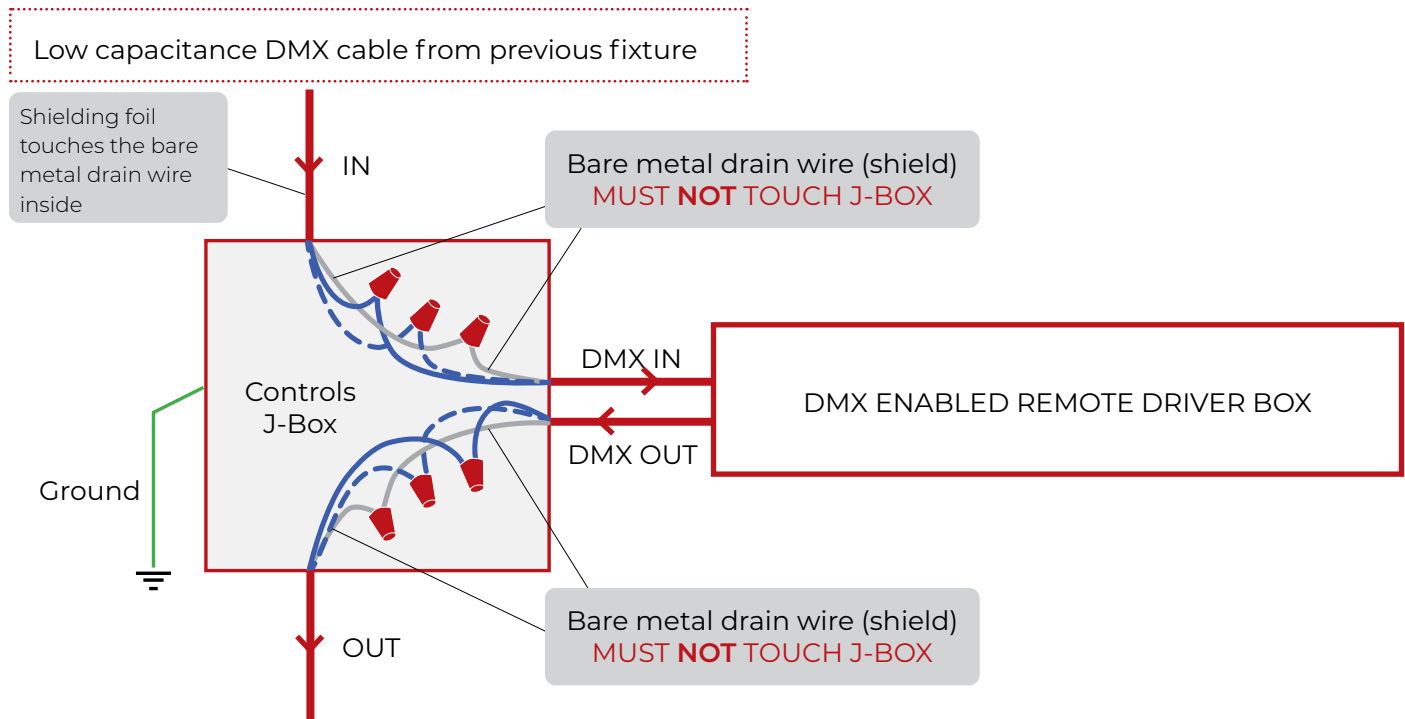
Low capacitance DMX cable to next fixture

---

2 **DMX CONNECTION REMOTE DRIVER**

DMX

IN
Shield
DMX -
DMX +

OUT
Shield
DMX -
DMX +

POWER

LINE VOLTAGE
white
black
green

N L G

DMX + = Blue
DMX - = White-Blue
Shield = Bare metal

PWR

DMX ENABLED REMOTE DRIVER BOX

LOW VOLTAGE
LED OUTPUT

DMX

ETL LISTED
c us
Intertek

Voilà
4" Square Downlight
Wall Wash

Lumenwerx

Project: _____

Type: _____

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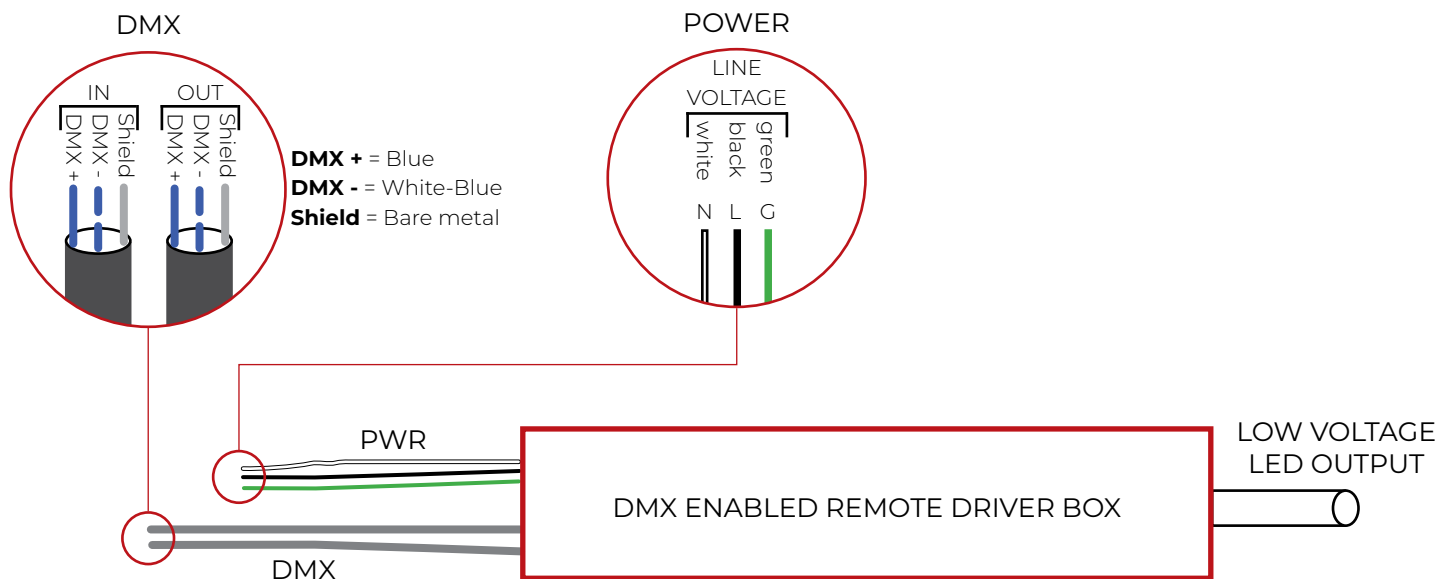
3 LAST DMX CONNECTION DETAIL

120 OHM
END OF LINE
RESISTOR

+

−

S

CAP
OFF SHIELD

Last DMX OUT

DMX IN
From other fixtures

+ − S

DMX + = Blue
DMX − = White-Blue
Shield = Bare metal

DMX
Driver

DMX +
DMX −
SHIELD

LED output

LAST FIXTURE OF THE DMX NETWORK
MAX 32 DRIVERS PER DMX RUN

DMX ENABLED FIXTURE

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

ETL LISTED
c us
Intertek

VOILA4-SQUARE-WW-SPEC-REV12   August 28, 2025