

VOILÀ 2" SEAL

Round Downlight for Healthcare

Fixed



Voila Seal is a class of downlights featuring precision optics, outstanding quality of light, and robust, user-friendly construction for Healthcare spaces. The gasketed and sealed trim is IP64 rated.

Performance

LUMEN OUTPUT ¹	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

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

Delivered Lumens for Round White Standard Baffles at 3500K

CRI	90+ CRI							
BEAM	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

Aperture Size

2.00"

Configuration



Fixed

Baffle Depth



Standard 0.52"

Trim



Baffle & Finishes

Matte white



Matte black



Custom RAL



Color Temperature

2400K



2700K



3000K



3500K



4000K



5000K



SOLA



DUO



Delivered 529-1338 lm

7-14 Watts, up to 128 lm/W

Integral & Remote Drivers

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

Emergency battery pack

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Project: _____

Type: _____

1 - Housing (Example: VO2SEALRR-GKT-SW-OF-ACB-120V-14W-RD1)

Product Specification

LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTIONS	VOLTAGE	WATTAGE (80+ CRI) ³	DIMMING					
VO2SEALRR												
VO2SEALRR - Voila 2" Seal Round Recessed	GKT - Gasketed trim GTT - Gasketed and tamper-resistant trim	SW - Static white	OF - Open frame type non-IC IC ¹ - IC rated CP ¹ - Chicago Plenum type-IC (CCEA) ¹ 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	120V - 120V 277V - 277V UNV - 120V-277V 347V ² - 347V ² Available with 0-10V dimming options D1, RD1, and RSD1 only. Consult factory for details.	7W - Low output 529-896 lm 10W - Medium output 683-1103 lm 14W - High output 883-1338 lm For other lumen packages, consult factory.	INTEGRAL	REMOTE				
							D1 - 1% 0-10V ELV ⁴ - ELV 120V TRI ⁴ - TRIAC 120V	RD1 - 1% 0-10V RELV ⁴ - ELV 120V RTRI ⁴ - TRIAC 120V RLDE1 ⁵ - Lutron Hi-lume 1% Eco RDA ⁵ - DALI RELD0 - eldoLED 0.1% RELD1 - eldoLED 1% +EB ⁶ - Emergency battery				
		³ For delivered lumens and other CRI, see multiplier tables on page 3.						⁴ Available with 120V only. ⁵ On-site commissioning is required. ⁶ For emergency battery, code will be like the following example: RD1+EB				
		SOLA - Dim-to-warm DUO - Tunable white				SOLA 8W - Low output 560 lm (20° only) 13W - High output 740-900 lm (40° and up) DUO 5W - Low output 300 lm (20° only) 10W - High output 530-640 lm (40° and up)	SOLA SD1 - Single 0-10V input RSD1 - Single 0-10V input RSELV ⁴ - ELV 120V RSTRI ⁴ - TRIAC 120V DUO RDMX ⁵ - To specify, see pages 7 to 9 RDDA ⁵ - DALI DT6 RDDA8 ⁵ - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RLD2 ⁵ - Lutron DALI-2 digital					

2 - Light & Baffle (Example: VO2SEALRRB-SW-14W-10DEG-3STP-90CRI-27K-LS-GKT-PCL-SR-FTMW)

LUMINAIRE ID	LIGHT SOURCE	WATTAGE (80+ CRI) ⁷	BEAM	COLOR QUALITY	CRI	COLOR TEMPERATURE
VO2SEALRRB						
VO2SEALRRB - Voila 2" Seal Round Recessed	SW - Static white	7W - Low output 529-896 lm 10W - Medium output 683-1103 lm 14W - High output 883-1338 lm For other lumen packages, consult factory. ⁷ For delivered lumens and other CRI, see multiplier tables on page 3.	10DEG - 10° Narrow spot 20DEG - 20° Spot 30DEG - 30° Narrow flood 40DEG - 40° Flood 50DEG - 50° Wide flood 60DEG - 60° Wide flood 75DEG - 75° Very wide flood 90DEG - 90° Open flood ⁸ Available with low output only. ⁹ Available with high output only.	2STP - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse	80CRI - 80+ CRI 90CRI - 90+ CRI 95CRI ¹⁰ - 95+ CRI ¹⁰ Not available with 2400K and 5000K.	24K - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K
	SOLA - Dim-to-warm DUO - Tunable white	SOLA 8W - Low output 560 lm (20° only) 13W - High output 740-900 lm (40° and up) DUO 5W - Low output 300 lm (20° only) 10W - High output 530-640 lm (40° and up)	20DEG ⁸ - 20° Spot 40DEG ⁹ - 40° Flood 50DEG ⁹ - 50° Wide flood 60DEG ⁹ - 60° Wide flood 75DEG ⁹ - 75° Very wide flood 90DEG ⁹ - 90° Open flood	3STP - 3 Step MacAdam Ellipse	90CRI - 90+ CRI	SOLA - Dim-to-warm 35K-22K DUO - Tunable white 65K-27K

ACCESSORY	TRIM STYLE	LENS	BAFFLE POSITION	TRIM FLANGE FINISH
		PCL	SR	
LS ¹¹ - Linear spread HEX ^{11,12} - Hex louver NA - None ¹¹ Hex louver & linear spread cannot be combined together. ¹² Not available with 60°/75°/90° beam options.	GKT - Gasketed trim GTT - Gasketed and tamper-resistant trim	PCL - Clear polycarbonate impact-resistant lens	SR - Standard regress	FTMW - Matte white FTMB - Matte black WA - White antimicrobial Silverwerx CF# - Custom finish specify RAL# (e.g. CF1028)

VOILÀ 2" SEAL

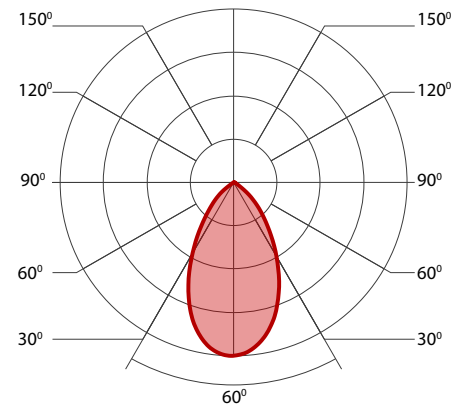
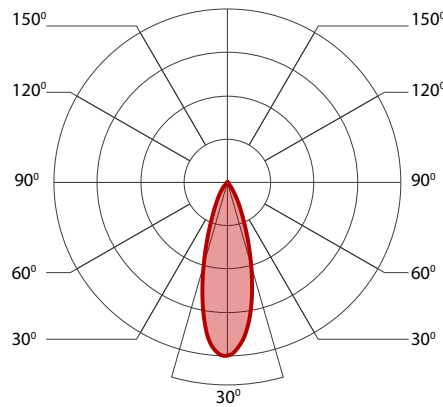
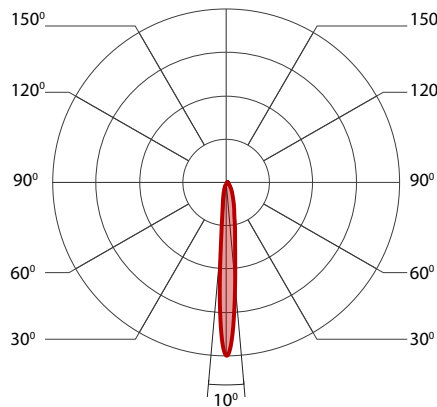
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Photometrics

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



Delivered Lumens for Round White Standard Baffles - At 3500K

CRI		80+ CRI								90+ CRI							
BEAM	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 3000K

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

LPW								
BEAM	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

SOLA and DUO Max Wattage

90+ CRI								
BEAM	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	
2400K	0.87
2700K	0.94
3000K	0.98
3500K	1
4000K	1.05
5000K	1.05

Multiplier - Baffle Color and Shape

BAFFLE VARIABLES		
White	Round standard	1
Black	Round standard	0.95

Multiplier - Optical Options

LENS AND LOUVERS	
No lens	1
Clear polycarbonate impact-resistant lens	1
Linear spread	0.80
Hex louver	0.82

For SOLA and DUO, please consult factory.

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Technical Specification

DESCRIPTION Compact fixed or adjustable 2" downlight with multiple outputs, color, beam, 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"

Ceiling Thickness: Can accommodate ½" to 1"

Housing weight: Type-IC/Chicago Plenum - 7.5 lbs - 3.4 kg;
Open Frame - 5.5 lbs - 2.5 kg

Ceiling cut out: Ø 3 ¼"

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.

Optical Accessories: Linear spread lens and hex cell louver can accommodate up to two in the light element.

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

BAFFLE Round die-cast aluminum retained with spring clips.

Trim options: Round gasketed or gasketed and tamper-resistant trim

CHROMAWERX SOLA (dim-to-warm) and DUO (tunable white). See page 7 for more information.

ELECTRICAL

Integral: 0-10V, ELV, TRIAC

Remote: 0-10V, ELV, TRIAC, Lutron Hi-lume 1% Eco, DALI, eldoLED 0.1%, eldoLED 1%, Lutron DALI-2 digital

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

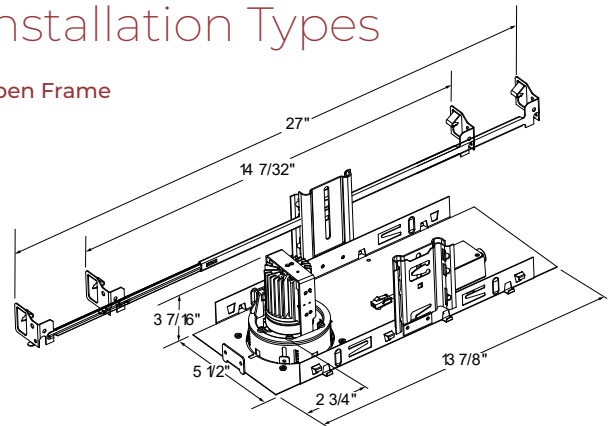
ENVIRONMENT Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees).

LISTING cETLus listed to UL 1598 and CAN/CSA Standard C22.2 No. 250.0. IP64 rated.

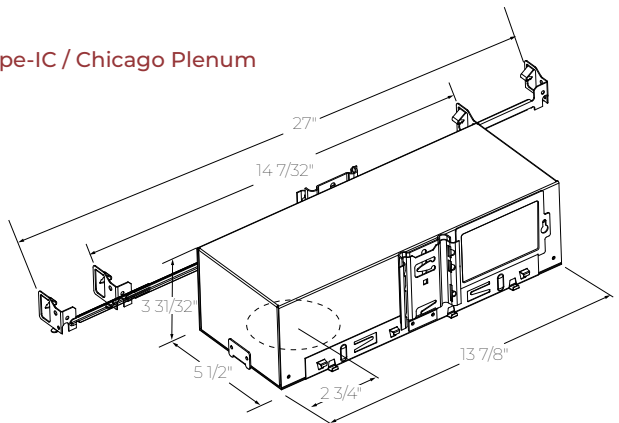
WARRANTY 5-year limited warranty on LED module and power supply. Guaranteed to maintain 70% lumen maintenance.

Installation Types

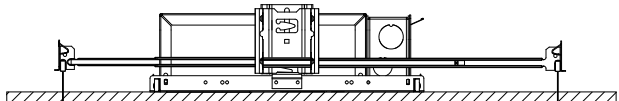
Open Frame



Type-IC / Chicago Plenum



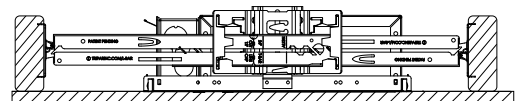
Mounting Options



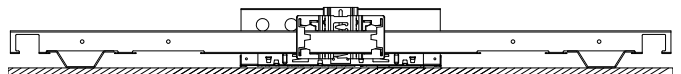
ASB - Adjustable Standard Bar Hangers



FMB - Flush Mount Bars



ACB - Adjustable Commercial Bar Hangers



AHC - Adjustable Hat Channel Bars

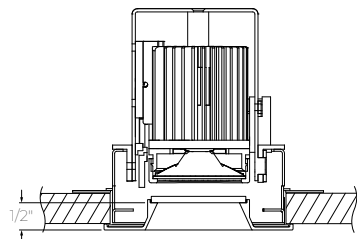
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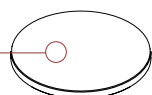
Light



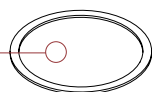
Standard Baffle

Lens

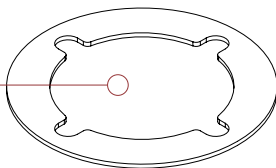
Clear polycarbonate impact-resistant lens



Lens Gasket

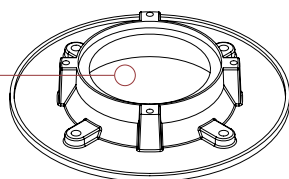


Trim Gasket



Baffle - Trim

Standard Regress Baffle Trim



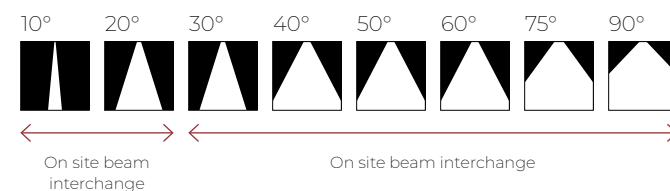
Optics

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. 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 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K 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



Option



Linear Spread



Hex Louver

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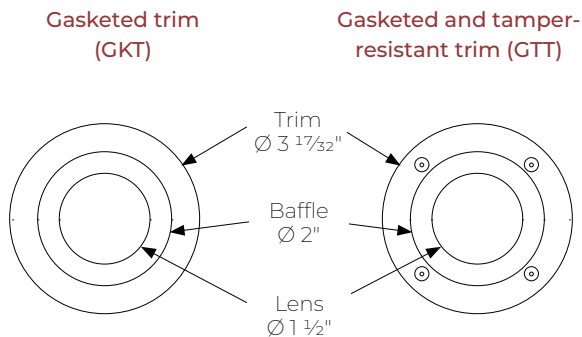
Integral Driver

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 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. For 7 W or 10 W fixtures, battery provides 6 W of power. For 14 W fixtures, battery provides 10 W of power. Recharge time of 24 hours.

Trim Dimensions

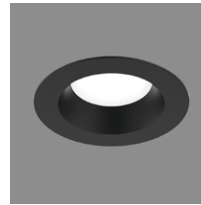


Baffle



Standard Regress

Trim



Black Trim



White 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 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.

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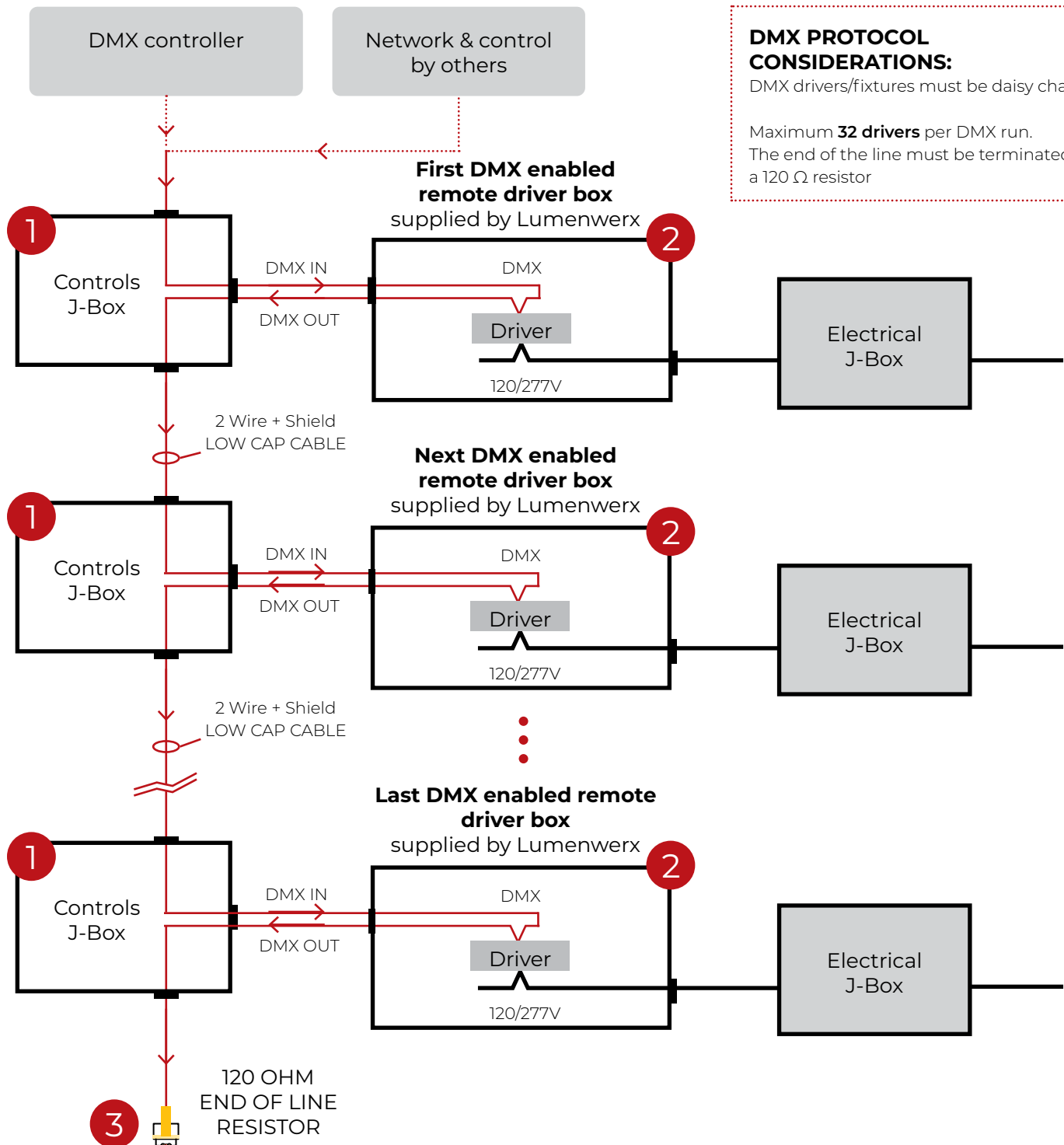
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DUO GENERIC DMX NETWORK ARCHITECTURE

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

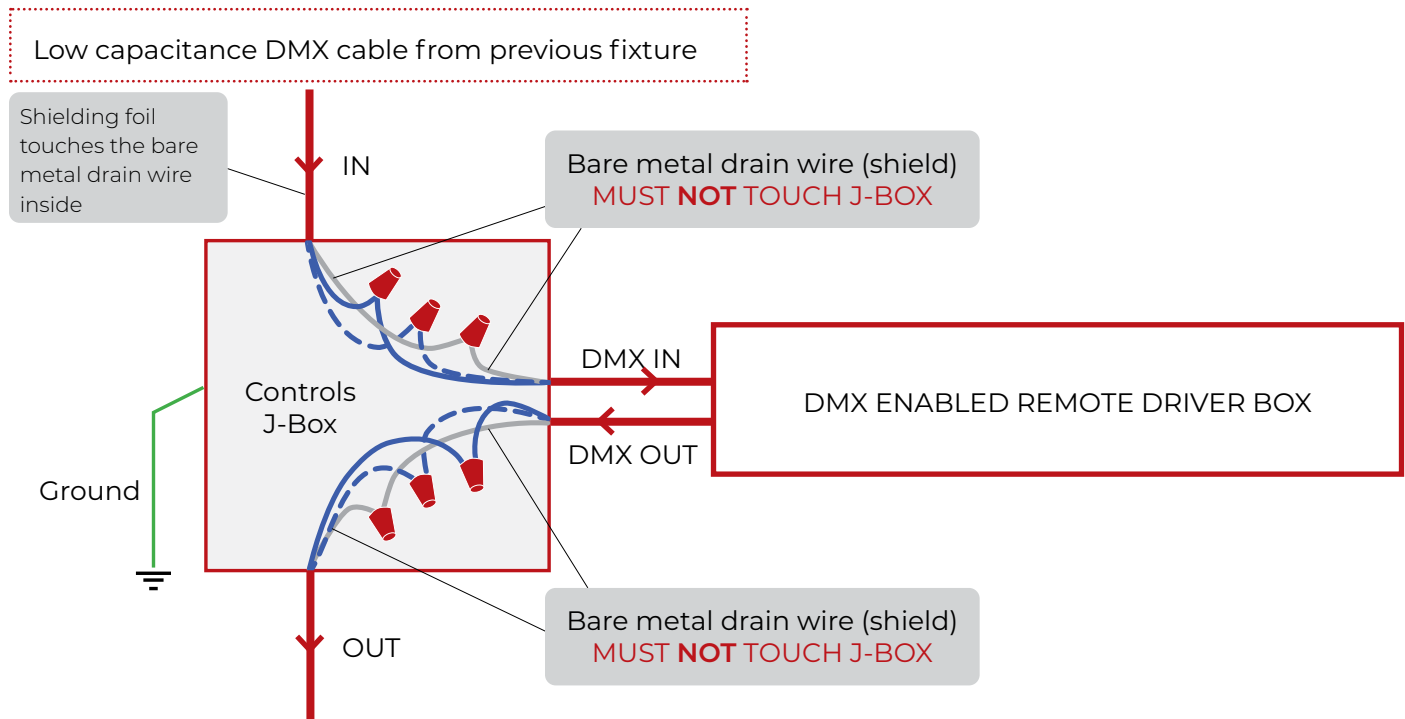
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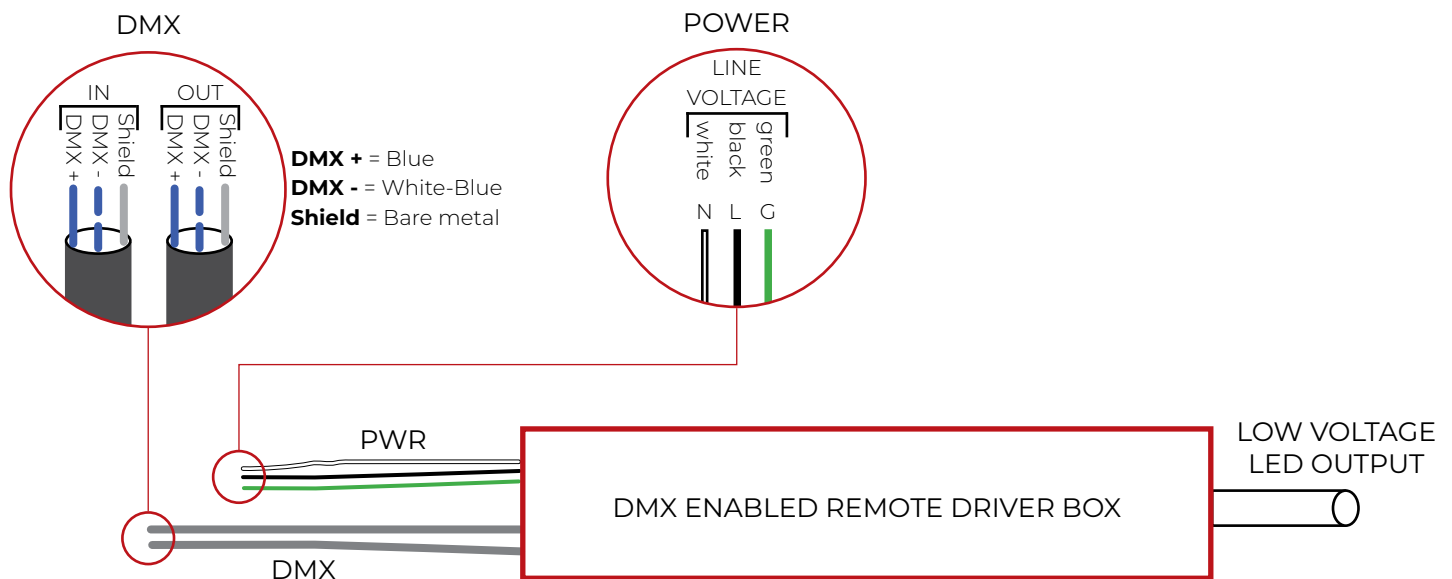


1 J-BOX DMX DAISY CHAIN DETAIL



Low capacitance DMX cable to next fixture

2 DMX CONNECTION REMOTE DRIVER



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3 LAST DMX CONNECTION DETAIL

