

# UBIK CUBE

PENDANT  
CHROMAWERX - SOLA AND DUO



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

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

# LUMENWERX

## DESCRIPTION

Sleek square form meets superb function in Ubik, a lighting family designed to provide a multitude of creative options. The pendant version is a compact fixture offered with HLO (High-Efficiency Lambertian Optic), parabolic louver, or wall wash optics for direct illumination. Ubik Cube Pendant comes in Chromawerx Sola and Duo. For Static White or Bios LED solutions, consult other spec sheet.



Up to 137 lm/W performance

## OPTICS

### Parabolic Louver



Matte White



Matte Silver



Matte Black

### High-Efficiency Lambertian Optic



### Wall Wash Optic



Matte White



Matte Silver



Matte Black

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## MOUNTING & LIGHT ENGINE

Consult pages 3-4 for details before specifying

Mounting and light engine can be ordered separately.

LUMINAIRE ID	DISTRIBUTION	FINISH	END CAP	LIGHT SOURCE <sup>1</sup>	OPTIC
<b>UBICUBP6</b> - Ubik Cube Pendant 6" <b>UBICUBP12</b> - Ubik Cube Pendant 12" <b>UBICUBP18</b> - Ubik Cube Pendant 18"	<b>D</b> - Direct	<b>W</b> - Matte white <b>AL</b> - Aluminum <b>B</b> - Matte black <b>CF#</b> - Custom finish, specify RAL#	<b>BE</b> - Beveled <b>FL</b> - Flat	<b>SOLA</b> - Dim-to-warm single channel control 35K to 22K <b>DUO</b> - Tunable white 2-channel control 65K to 27K  <sup>1</sup> Static white and BIOS also available. Consult other spec sheet.	<b>MWPL</b> - Matte White Parabolic Louver <b>MSPL</b> - Matte Silver Parabolic Louver <b>MBPL</b> - Matte Black Parabolic Louver <b>HLO</b> - High-Efficiency Lambertian Optic <b>WWW</b> - Wall Wash White Optic <b>WWS</b> - Wall Wash Silver Optic <b>WWB</b> - Wall Wash Black Optic

CRI	CANOPY TYPE	CANOPY FINISH	HANGER			
<b>80</b> - 80CRI <b>90</b> - 90CRI	<b>REG</b> - 4" octagonal junction box <b>CD</b> - Conduit box	<b>W</b> - Matte white <b>B</b> - Matte black <b>CF#</b> - Custom finish, specify RAL#	<b>POWER CORD <sup>2,3</sup></b> <b>BPC</b> - Black PVC <b>WPC</b> - White PVC <b>FRE</b> - Red fabric <b>FGR</b> - Green fabric <b>FBL</b> - Blue fabric <b>FA#</b> - Consult factory for more colors  Min 18" - max 72"  <sup>2</sup> Not available with parabolic louvers. <sup>3</sup> Suspended with a power cord and two aircraft cables.	<b>POWER-OVER-AIRCRAFT CABLES</b> <b>POC</b> - Power-over-aircraft cables	<b>STEM</b> <b>BKS</b> - Black stem <b>WHS</b> - White stem  Min 18" - max 48"	<b>LENGTH</b> <b>#IN</b> - Length in inches

## REMOTE DRIVER SPECIFICATION

Consult page 4 for details before specifying

Continue here for full remote driver specifications. Remote driver can be ordered separately.

REMOTE DRIVER ID	LUMINAIRE QTY	LUMINAIRE ID	VOLTAGE	LUMEN PACKAGE			REMOTE DRIVER <sup>4,5</sup>	
<b>RDB#</b> - Remote driver box  If multiple driver boxes are needed, please specify a line number for each driver type used.	<b>#X</b> - Number of luminaires  Please specify number of luminaires per remote driver. (e.g. 3X) For the minimum and maximum number of lighting units per driver, refer to the table on page 4.	<b>UBICUBP6</b> - Ubik Cube Pendant 6" <b>UBICUBP12</b> - Ubik Cube Pendant 12" <b>UBICUBP18</b> - Ubik Cube Pendant 18"	<b>120</b> - 120V <b>277</b> - 277V <b>UNV</b> - 120V-277V	Eco   Low   Medium	<b>6"</b> <b>E250</b> lm	<b>12"</b> <b>E500</b> lm	<b>18"</b> <b>E750</b> lm   <b>L1125</b> lm   <b>M1500</b> lm	<b>SOLA</b> <b>RSDI</b> - 1% 0-10V  <b>DUO</b> <b>RDMX</b> <sup>6</sup> - DMX, to specify see pages 9 to 11 <b>RDDA</b> <sup>6</sup> - DALI DT6 <b>RDDA8</b> <sup>6</sup> - DALI DT8 <b>RDD1</b> - 1% 0-10V <b>RPSQ0</b> <sup>6</sup> - Lutron T-series 1% Tunable White  <sup>4</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>5</sup> For configurations with different Ubik Cube sizes on a remote driver, please consult factory. <sup>6</sup> On-site commissioning is required.

# UBIK CUBE

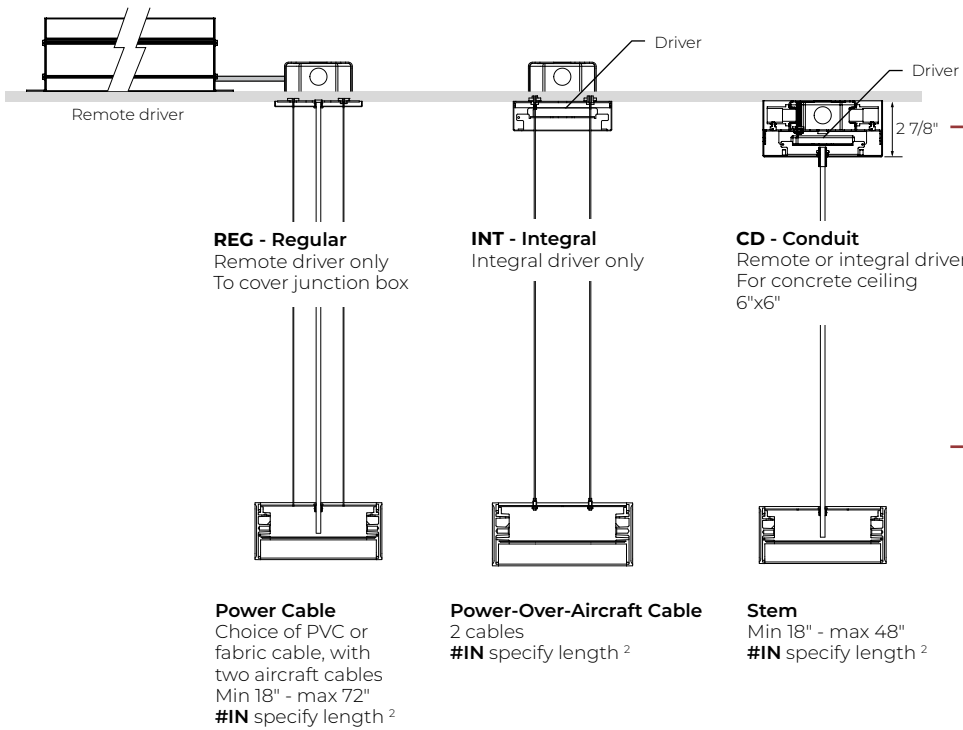
PENDANT  
CHROMAWERX - SOLA AND DUO



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

# LUMENWERX

## MOUNTING <sup>1</sup>



CANOPY	
Regular	<b>REG</b>
Integral	<b>INT</b>
Conduit	<b>CD</b>
Finish	
Matte white	<b>W</b>
Matte black	<b>B</b>
Custom finish	<b>CF#</b>

HANGER	
Power Cable	
Black PVC	<b>BPC</b>
White PVC	<b>WPC</b>
Red fabric	<b>FRE</b>
Green fabric	<b>FGR</b>
Blue fabric	<b>FBL</b>
Custom fabric	<b>FA#</b>
Power-Over-Aircraft Cables	
Power-over-aircraft cables	<b>POC</b>
Stem	
Black	<b>BKS</b>
White	<b>WHS</b>

<sup>1</sup> Canopies can be specified with any suspension type. Not interchangeable on site.

<sup>2</sup> To specify, replace # with requested length. (i.e. 18IN)

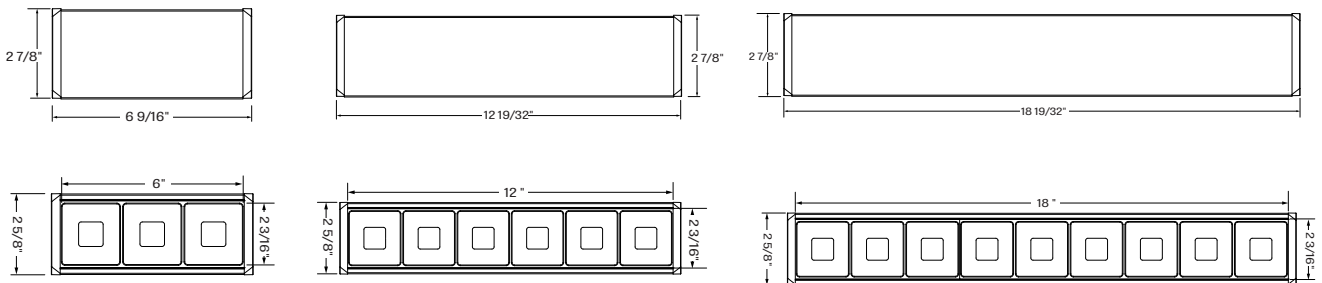
Canopy dimensions for REG - regular canopy type

	POWER CABLE	POWER-OVER-AIRCRAFT-CABLE	STEM
6"	4 1/2" x 4 1/2" x 1/4"		
12"	11" x 4 5/8" x 13/16"		4 1/2" x 4 1/2" x 1/4"
18"	11" x 4 5/8" x 13/16"		4 1/2" x 4 1/2" x 1/4"

Canopy dimensions for INT - Integral canopy type

	POWER CABLE	POWER-OVER-AIRCRAFT-CABLE	STEM
6"	4 5/8" x 4 5/8" x 1 3/8"		
12"	11" x 4 5/8" x 13/16"		4 5/8" x 4 5/8" x 1 3/8"
18"	11" x 4 5/8" x 13/16"		4 5/8" x 4 5/8" x 1 3/8"

### FIXTURE DIMENSIONS



# UBIK CUBE

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# LUMENWERX

## DRIVER

### REMOTE DRIVER

The remote driver can power several lighting units, depending on their total power. The minimum and maximum number of lighting units and driver type are shown in the table below and must be observed. The remote driver and lighting units are wired together through connection boxes, which are furnished pre-wired to the driver enclosure. All wiring is Class 2 with quick-splice connectors. The remote driver requires access from above the ceiling (or an access panel).

REMOTE DRIVER ID	LUMINAIRE QTY	LUMINAIRE ID	VOLTAGE	LUMEN PACKAGE			REMOTE DRIVER <sup>1,2</sup>	
<b>RDB#</b> - Remote driver box  If multiple driver boxes are needed, please specify a line number for each driver type used.	<b>#X</b> - Number of luminaires  Please specify number of luminaires per remote driver. (e.g. 3X) For the minimum and maximum number of lighting units per driver, refer to the table on page 4.	<b>UBICUBP6</b> - Ubik Cube Pendant 6" <b>UBICUBP12</b> - Ubik Cube Pendant 12" <b>UBICUBP18</b> - Ubik Cube Pendant 18"	<b>120 - 120V</b> <b>277 - 277V</b> <b>UNV - 120V-277V</b>	Eco	6" <b>E250</b> lm	12" <b>E500</b> lm	18" <b>E750</b> lm	<b>SOLA</b> <b>RSD1</b> - 1% 0-10V  <b>DUO</b> <b>RDMX</b> <sup>3</sup> - DMX, to specify see pages 9 to 11 <b>RDDA</b> <sup>3</sup> - DALI DT6 <b>RDDA8</b> <sup>3</sup> - DALI DT8 <b>RDD1</b> - 1% 0-10V <b>RPSQO</b> <sup>3</sup> - Lutron T-series 1% Tunable White  <sup>1</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>2</sup> For configurations with different Ubik Cube sizes on a remote driver, please consult factory. <sup>3</sup> On-site commissioning is required.
			Low	<b>L375</b> lm	<b>L750</b> lm	<b>L1125</b> lm		
			Medium	<b>M500</b> lm	<b>M1000</b> lm	<b>M1500</b> lm		

### NUMBER OF LIGHTING UNITS PER DRIVER - MINIMUM AND MAXIMUM

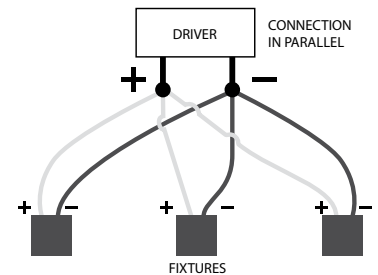
Based on 750lm/ft, matte white finish for wall wash optic and parabolic louvers. Range may differ based on lumen package and louver finish.

#### SOLA

DRIVER TYPE	UBICUBP6			UBICUBP12			UBICUBP18		
	WW	PAR	HLO	WW	PAR	HLO	WW	PAR	HLO
<b>RSD1</b> - Single 0-10V input	2-11	2-11	2-16	1-5	1-8	1-8	1-3	1-5	1-5

#### DUO

DRIVER TYPE	UBICUBP6			UBICUBP12			UBICUBP18		
	WW	PAR	HLO	WW	PAR	HLO	WW	PAR	HLO
<b>RDMX</b> - DMX	2-11	2-11	2-12	1-5	2-7	1-8	1-3	1-5	1-5
<b>RDDA / RDDA8</b> - DALI	2-11	2-11	2-12	1-5	1-8	1-8	1-3	1-5	1-5
<b>RDD1</b> - Dual 0-10V input for CCT/intensity	2-11	2-11	2-12	1-5	1-7	1-8	1-3	1-3	1-5
<b>RPSQO</b> - Lutron T-Series 1% Tunable White	2-11	2-11	3-12	1-5	2-7	2-6	1-3	1-5	1-5



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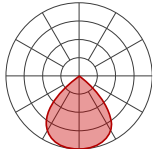
Project: \_\_\_\_\_

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# LUMENWERX

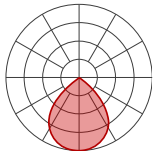
## Photometrics

Watts and lumens per watt may vary based on the type of driver selected, as well as on the number of lighting units per driver for the remote driver option.



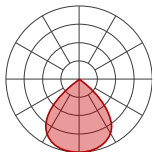
MWPL - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	800	5.8	137
UBICUB12	1600	11.7	137
UBICUB18	2400	17.5	137



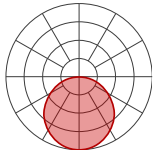
MSPL - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	800	6.4	125
UBICUB12	1600	12.8	125
UBICUB18	2400	19.2	125



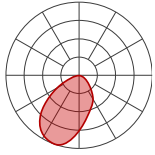
MBPL - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	800	7.3	109
UBICUB12	1600	14.7	109
UBICUB18	2400	22.0	109



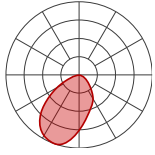
HLO - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	600	7.0	87
UBICUB12	1200	10.8	111
UBICUB18	1800	15.5	116



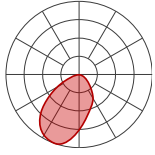
WWW - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	600	7.7	78
UBICUB12	1200	14.3	84
UBICUB18	1800	20.5	88



WWS - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	600	8.0	75
UBICUB12	1200	15.1	80
UBICUB18	1800	21.5	84



WWB - Delivered Lumens at 35K at 80 CRI

LUMINAIRE ID	LUMEN OUTPUT	INPUT WATTAGE	LPW
UBICUB6	600	9.1	66
UBICUB12	1200	17.1	70
UBICUB18	1800	24.4	74

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## Technical Specifications

### OPTICS

#### High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration is combined with matte white side reflectors to create an efficient optical chamber with uniform luminosity. Luminaire brightness is controlled by the flux-to-shielding area ratio. For visual comfort, avoid high lumen output unless Ubik is installed in a high ceiling application.



#### Parabolic Louvers

Parabolic louvers provide excellent shielding and a pleasing crisp visual texture. The precisely molded louvers consist of 1" deep blades and is 2"x2" in size. The LED array is secured in the direct position, with the light transmitting through a beam-forming lens creating a conical distribution. Three matte (MPL) finishes are available in black, white and silver, offering a soft appearance, a wide beam spread of up 85-91 degrees, gentle brightness transition at cut-off, and exceptional UGR.



#### Wall Wash Optics

Ubik wall wash is an offset horizontal linear LED array that reflects from a matte white internal side kicking reflector. It then transmits through the beam-forming lens and then softened by a 2" asymmetric louver. The lens is fully illuminated, and the wall wash is only slightly angled to complement the direct optic.



### LIGHT SOURCE

Custom linear array of alternating color temperature mid-flux LEDs are mounted directly to the housing for optimal thermal performance. For the Duo products, a color temperature range from 6500K-2700K is achievable with color points on or below the black body curve. For the Sola products, a color temperature range from 3500K-2200K is controlled synchronously with intensity. Color consistency between fixtures is maintained to within 3 SDCM. LEDs are operated at reduced drive current to optimize efficacy and lumen maintenance. 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.

### CHROMAWERX - TUNABLE WHITE

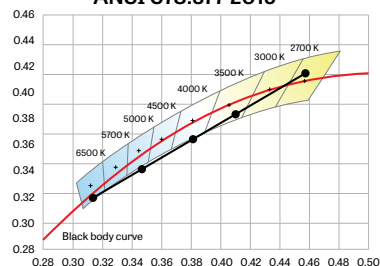
#### Chromawerx SOLA

It is a single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple analog control sends a common signal to dual output digital drivers, which are programmed to adjust a specially populated LED array to emulate the effect of dimming a filament source. Dimming range is programmable but the default option runs from 3500K at 100% of full power to 2200K at 5% of full power. CRI is maintained above 80 throughout the dimming range.

#### Chromawerx DUO

It is a two-channel control. It uses an analog (0-10V) protocol for separate control of luminaire CCT and intensity or a digital (DMX, DALI and PSQ0) protocol for synchronous control of both warm and cool LED arrays to enable the user to set color temperature and light output. Commonly called "tunable white", Chromawerx two-channel control provides the range of warm (2700K) to cool (6500K) color that can be useful for helping to entrain circadian rhythms, stimulate alertness for improved educational and work productivity, and compensate for jet lag, among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures. CRI is maintained above 80.

ANSI C78.377-2015



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**WELL for Light** - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality. This fixture meets Features:

- Feature 54 or L03 when DUO is selected
- Feature 55 or L04 meets WELL glare category (b-c-d)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



**WELL for Mind** -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information please contact [well@lumenwerx.com](mailto:well@lumenwerx.com).

## ELECTRICAL

### DMX (DUO only)

Factory-set adjustable output current electronic driver with 120-277V AC line input. Using DMX wall controls (optionally supplied by Lumenwerx) or an existing DMX control system, both channels of LEDs are independently adjustable. Each DMX driver can be independently addressed using the built-in RDM (Remote Device Management) in the field. Dimming down to 1% is attainable. Rated life (90% survivorship) of 50,000 hours at 50°C maximum ambient temperature. At maximum driver load, efficiency<84%, PF>0.9, THD<20%.

### DALI (DUO only)

Factory-set adjustable output current electronic driver with 120-277V AC line input. Using an existing DALI control system (supplied by others), one control channel adjusts the fixture color temperature, and the other control channel adjusts fixture brightness. With DALI Type 6, two DALI addresses are required to control both channels. With DALI Type 8, one DALI address is required to control both channels. Dimming down to 1% is attainable. Rated life (90% survivorship) of 50,000 hours at 50°C maximum ambient temperature. At maximum driver load, efficiency<84%, PF>0.9, THD<20%.

### SD1 (SOLA)

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Using a single 0-10V control signal, the light output warms in color temperature as it dims down to 1% and 2200K. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

### DD1 (DUO)

Factory-set adjustable output current LED driver with universal (120-277VAC) input. Controlled via two individual 0-10V signals, one for setting light output down to a minimum of 1% and the other for adjusting the CCT (default range of 2700K-6500K). Rated life of 50,000 hours at 70°C maximum driver case temperature and 100% load conditions. Typical efficiency of 86%, PF>0.9, THD<20% at 100% load conditions.

### PSQ0 (DUO only)

Lutron T-Series 2-Channel tunable white drivers enable high-performance human centric lighting (HCL) applications. Digital control of color temperature (CCT) and intensity are achieved when used with the ESN T-Series tunable white controller as a part of a Lutron Quantum System.

### PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire, or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

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## FINISH

**Interior** - 95%, reflective matte powder coated white paint  
**Exterior** - Powder-coat paint in standard white, aluminum, or black. Custom colors are also available.

## END CAPS



FL - Flat



BE - Beveled

## CONSTRUCTION

**Housing** - Extruded aluminum (0.070" nominal) up to 90% recycled content

**Louvers** - Injection molded optical grade polycarbonate up to 95% reflective

**HLO lens** - Coextruded PMMA

**Parabolic heatsink** - Extruded aluminum (0.10" nominal) up to 90% recycled content

**HLO/WW heatsink** - Aluminum sheet 10 gauge thick

## WEIGHT

**UBICUBP6** - 1.33lbs - 0.60kg

**UBICUBP12** - 2.16lbs - 1kg

**UBICUBP18** - 3lbs - 1.36kg

## CERTIFICATIONS

**ETL** - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

## WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.



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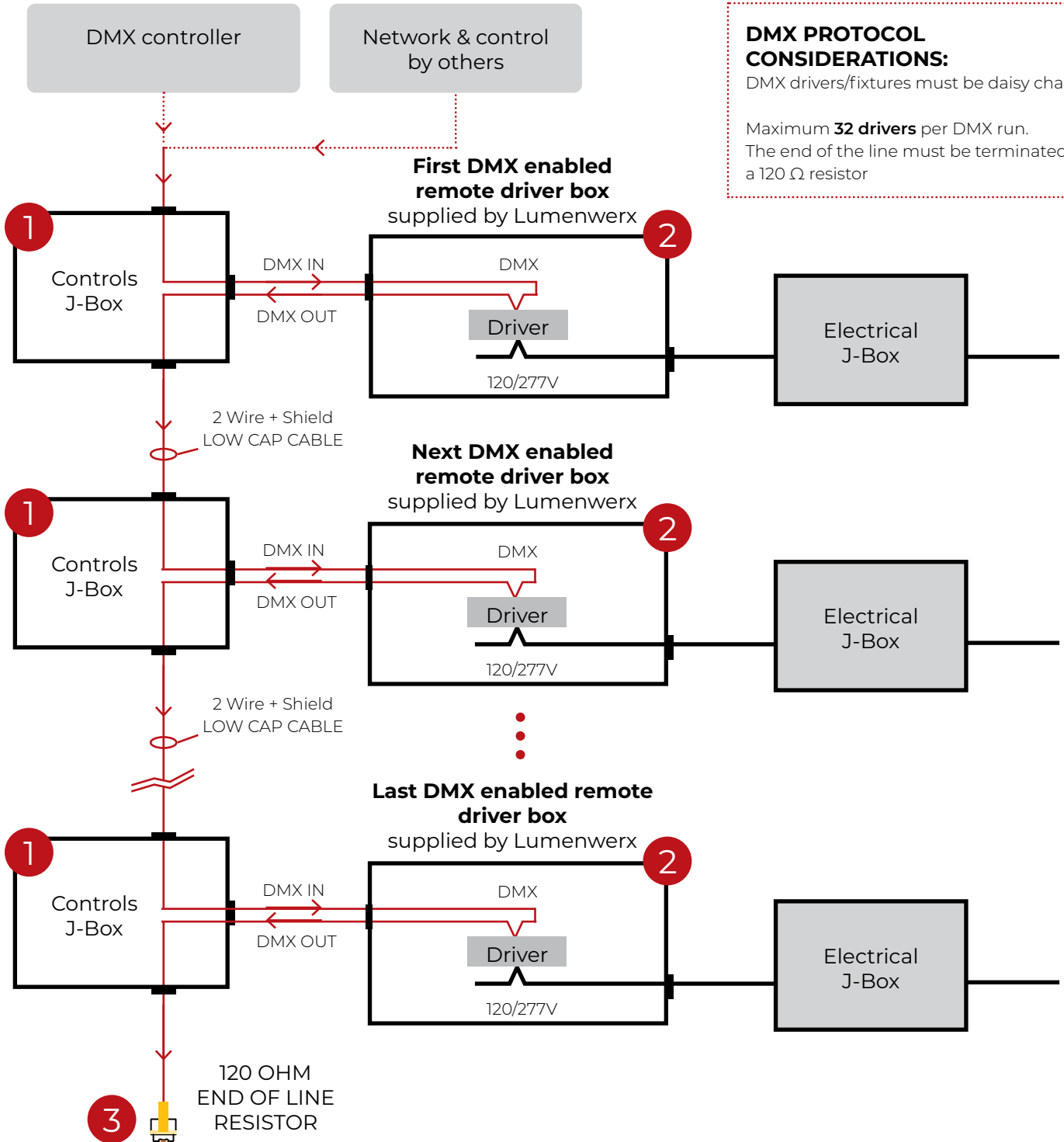


Project: \_\_\_\_\_

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 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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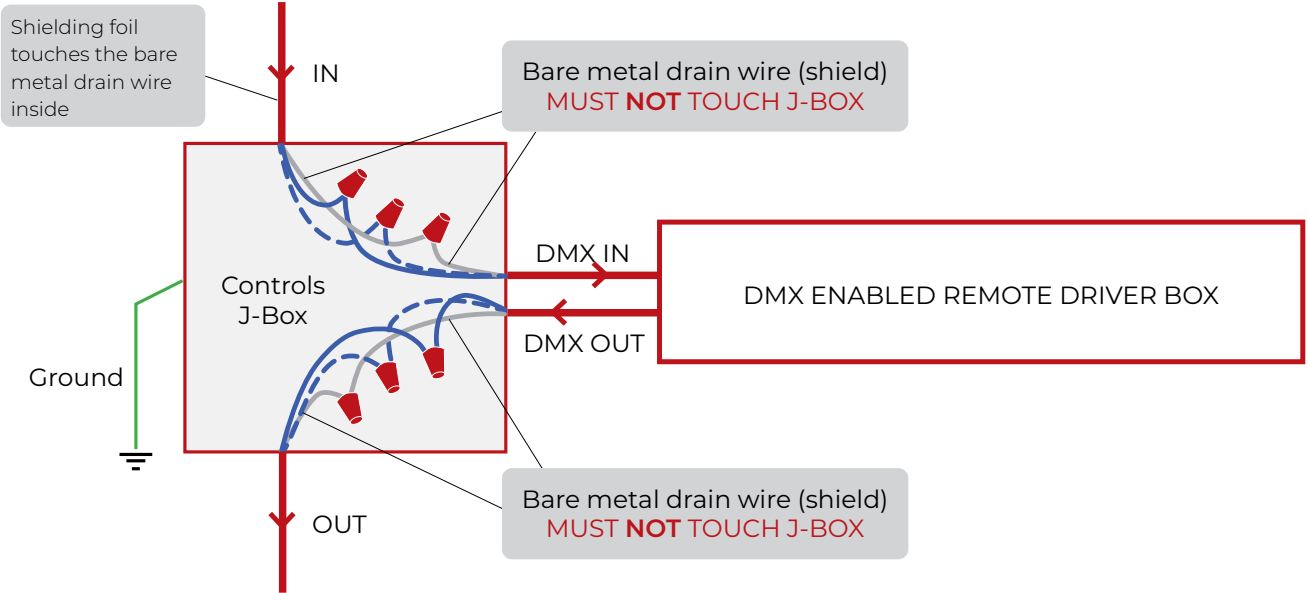


Project: \_\_\_\_\_  
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# LUMENWERX

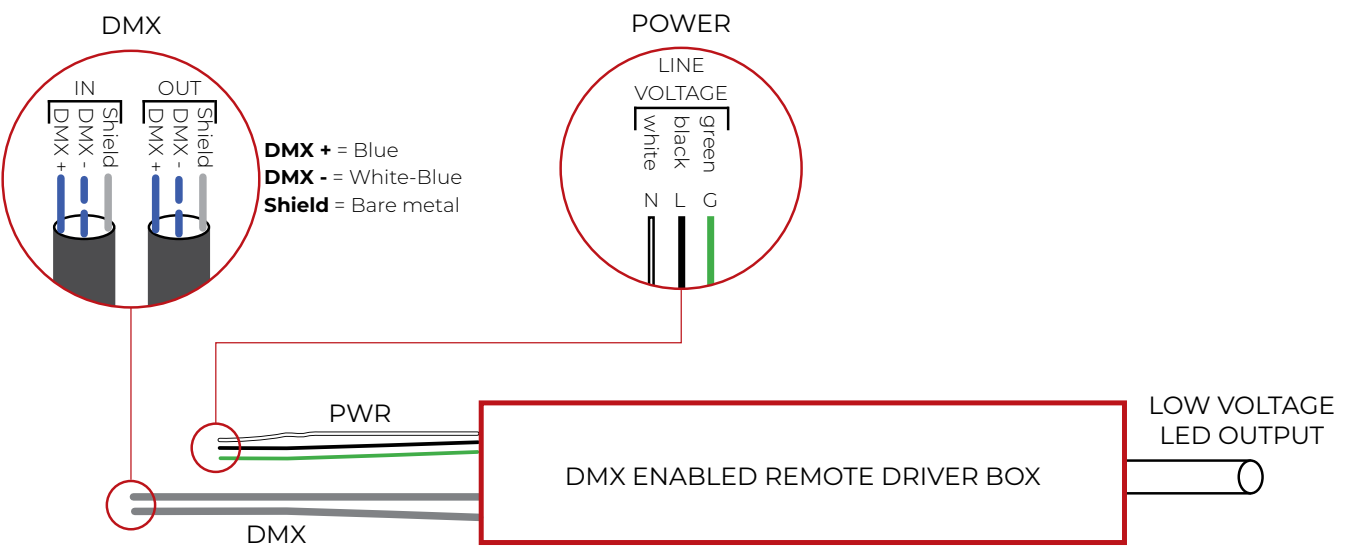
## 1 J-BOX DMX DAISY CHAIN DETAIL

Low capacitance DMX cable from previous fixture



Low capacitance DMX cable to next fixture

## 2 DMX CONNECTION REMOTE DRIVER



# UBIK CUBE

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

# LUMENWERX

### 3 LAST DMX CONNECTION DETAIL

