

# CURVIA 2 PRISM

## PATTERN

PENDANT - SURFACE - RECESSED

# LUMENWERX



Curvia 2 Prism Pattern fixtures with Diamond Prism Optic (DPO) are unique lighting solutions made by connecting various Curvia 2 segments (2" wide, open/partial shapes). They can serve as statement pieces on their own or extend a lighting composition around corners and across corridors, adding depth, dimension, and decorative details along the way. Equipped with our patent-pending DPO, they keep glare to a minimum, delivering light of exceptionally high quality and maximum visual comfort.

### Curvia Family (Refer to other spec sheets)

#### Curvia Mini



Ring  
1"

#### Curvia 2 Prism



Ring  
2"



Shapes  
Square / Rectangle / Capsule  
2"

Pattern  
2"

#### Curvia 2, 3, 4



Ring  
2" / 3" / 4"

Shapes  
Square / Rectangle / Capsule  
2" / 3" / 4"

Pattern  
2" / 3" / 4"

**SENSORS**  
For latest  
information  
on sensors,  
click [here](#).



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

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

## Order Guide

A drawing of your pattern is required - anything from a line drawing to an architectural drawing. You can also use the template on page 3 to sketch your pattern.

LUMINAIRE ID	DISTRIB.	DIRECT OPTIC <sup>2</sup>	INDIRECT OPTIC <sup>3</sup> Specify NA for Direct fixture	LIGHT SOURCE <sup>4</sup>	CRI	DIRECT LUMEN PACKAGE
<b>CURV2PRPPAT</b> - Curvia 2" Prism Pendant Pattern	<b>DI</b> <sup>1</sup> - Direct/ Indirect	<b>SDPO</b> - Matte Silver Diamond Prism Optic	<b>HLO</b> - High-Efficiency Lambertian Optic	<b>SW</b> - Static white	<b>80CRI</b> <sup>5</sup> - 80 CRI	<b>350LMF</b> - Eco low output 350 lm/ft
<b>CURV2PRSPAT</b> - Curvia 2" Prism Surface Pattern	<b>D</b> - Direct	<b>PDPO</b> - Precision Specular Diamond Prism Optic	<b>NA</b> - Not applicable	<b>FS</b> - Full spectrum	<b>90CRI</b> <sup>5</sup> - 90 CRI	<b>500LMF</b> - Low output 500 lm/ft
<b>CURV2PRRPAT</b> - Curvia 2" Prism Recessed Pattern	<sup>1</sup> Available for Pendant mounting only	<b>BDPO</b> - Matte Black Diamond Prism Optic	<sup>3</sup> The indirect distribution is always fully lit.	<sup>4</sup> Chromawerx Sola and Duo also available. Consult factory.	<b>95CRI</b> <sup>6</sup> - 95 CRI	<b>750LMF</b> - Medium output 750 lm/ft
		<b>WDPO</b> - Matte White Diamond Prism Optic			<sup>5</sup> Not available with full spectrum.	<b>1000LMF</b> <sup>7,8</sup> - High output 1000 lm/ft
					<sup>6</sup> Not available with static white.	<b>1200LMF</b> <sup>7,8</sup> - Ultra high output 1200 lm/ft
		<sup>2</sup> See page 6 for details.			<sup>7</sup> Not available with full spectrum.	<sup>8</sup> Not available with Matte Black Diamond Prism Optic.

INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	TOTAL PATTERN LENGTH	TOTAL LOUVERED LENGTH	CURVED SEGMENTS <sup>10</sup>	STRAIGHT CORNERS
<b>350LMF</b> - Eco low output 350 lm/ft	<b>27K</b> - 2700K	<b>T#FT#IN</b> - Specify total pattern length (#) in 1' and/or 1" increments	<b>L#FT#IN</b> <sup>9</sup> - Specify total length of louvers (#), including all straight and curved segments	<b>LOUVER</b> Qty <sup>11</sup>	<b>CORNER TYPE</b> <sup>12</sup>
<b>500LMF</b> - Low output 500 lm/ft	<b>30K</b> - 3000K		<sup>9</sup> Straight segments of louvers are only available in 1 ft sections. Curved segments of louvers are available in 18" radius (45° arc) or 36" radius (22.5° arc) sections. The rest of the pattern will be filled with blanks.	<b>R18A45</b> - 18" radius, 45° arc	<b>LEV</b> - Leveled corner
<b>750LMF</b> - Medium output 750 lm/ft	<b>35K</b> - 3500K			<b>R36A22</b> - 36" radius, 22.5° arc	<b>NA</b> - None
<b>NA</b> - Not applicable	<b>40K</b> - 4000K			<b>NA</b> - None	<b>CORNER DEGREE</b>
				<sup>10</sup> Can be ordered as individual segments or as a pattern with multiple segments. For patterns, multiple 22.5° or 45° arc segments can be placed next to each other to create wider arcs. If more than one option is specified, separate codes with a "+", e.g. 2R18A45+6R36A22.	<b>90COR(#)</b> - 90 degrees, specify number of corners (#)
				<sup>11</sup> Specify the total quantity for each type of louvered curved segment.	<b>#COR(#)</b> <sup>13</sup> - Custom degree, specify the angle degree #, followed by the number of corners (#)
					<b>NA</b> - None
					<sup>12</sup> Corners are unlit with 6" x 6" blanks. <sup>13</sup> Minimum angle is 30°.

VOLTAGE	DRIVER <sup>15</sup>	ELECTRICAL
<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V <b>347V</b> <sup>14</sup> - 347V	<b>INTEGRAL</b> <b>DI</b> - 1% 0-10V <b>DA</b> <sup>16,17</sup> - DALI <b>LTEA2W</b> <sup>17,18</sup> - Lutron 1% - 2 wire FP120V <b>LDEI</b> <sup>16,17</sup> - Lutron Hi-Lume 1% Eco <b>ELD1</b> <sup>17</sup> - eldoLED 1% ECOdrive 0-10V <b>ELDO</b> <sup>17</sup> - eldoLED 0.1% SOLOdrive 0-10V	<b>REMOTE</b> <b>RD1</b> - 1% 0-10V <b>RDA</b> <sup>16</sup> - DALI <b>RLTEA2W</b> <sup>18</sup> - Lutron 1% - 2 wire FP120V <b>RLDEI</b> <sup>16</sup> - Lutron Hi-Lume 1% Eco <b>RELD1</b> - eldoLED 1% ECOdrive 0-10V <b>RELD0</b> - eldoLED 0.1% SOLOdrive 0-10V <b>+EB</b> <sup>19</sup> - Emergency battery
<sup>14</sup> Only available with RD1 driver. Subject to factory evaluation of pattern.	<sup>15</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>16</sup> On-site commissioning is required. <sup>17</sup> Availability subject to factory evaluation of pattern. <sup>18</sup> Available with 120V only. <sup>19</sup> For emergency battery, code will be like the following example: RD1 + EB	<b>1C</b> - 1 circuit <b>2C</b> <sup>20</sup> - 2 circuits <b>EC</b> - Emergency-powered fixture <b>NL</b> - Night light fixture <b>DL</b> - Daylight fixture <b>GTD</b> <sup>21,22</sup> - Generator transfer device fixture
		<sup>20</sup> Available for Direct/Indirect only. Separate direct and indirect circuits. <sup>21</sup> Minimum 4' fixture. <sup>22</sup> Not available with 347V.

MOUNTING				FINISH <sup>24</sup>	
<b>PENDANT</b>				<b>SURFACE</b>	<b>RECESSED</b>
<b>POWER</b>	<b>CANOPY FINISH</b>	<b>MOUNTING POINTS</b>	<b>MOUNTING LENGTH</b>	<b>DRC</b> - Drywall ceiling	<b>DTR</b> - Drywall trim <b>DMF</b> - Drywall mud flange
<b>BAC</b> - Black power cord + aircraft cable <b>WAC</b> - White power cord + aircraft cable <b>STM</b> <sup>23</sup> - Stem (Ø0.5")	<b>W</b> - Matte white <b>AL</b> - Aluminum <b>B</b> - Matte black <b>CF</b> - Custom finish, specify RAL#	<b>MC</b> - Multiple canopies	<b>18IN</b> - 18" <b>24IN</b> - 24" <b>36IN</b> - 36" <b>48IN</b> - 48" <b>60IN</b> - 60"		<b>W</b> - Matte white <b>AL</b> - Aluminum <b>B</b> - Matte black <b>CF#</b> - Custom finish, specify RAL#
<sup>23</sup> Stem finish is the same color as fixture.			<b>72IN</b> - 72" <b>96IN</b> - 96" <b>120IN</b> - 120" <b>#IN</b> - Specify nominal length in inches		<sup>24</sup> The finish of blanks will match fixture finish.

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CURVIA2-PRISM-PATTERN-PENDANT-SURFACE-RECESSED-SPEC-REV2 May3,2023



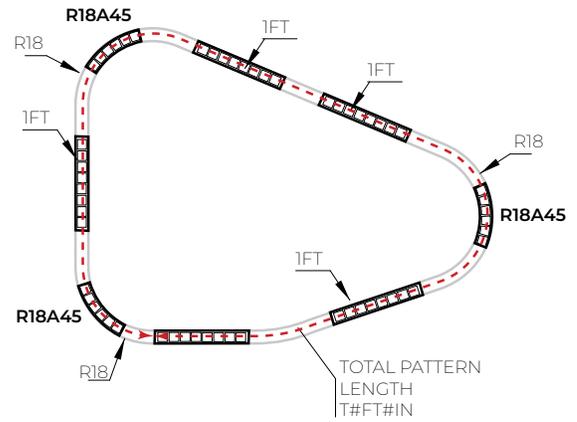
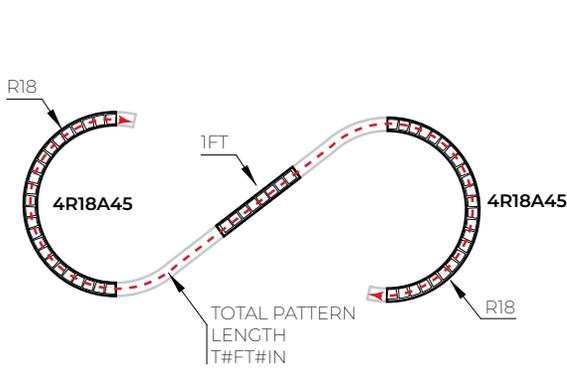
# CURVIA 2 PRISM

## PATTERN

PENDANT - SURFACE - RECESSED

# LUMENWERX

### Pattern

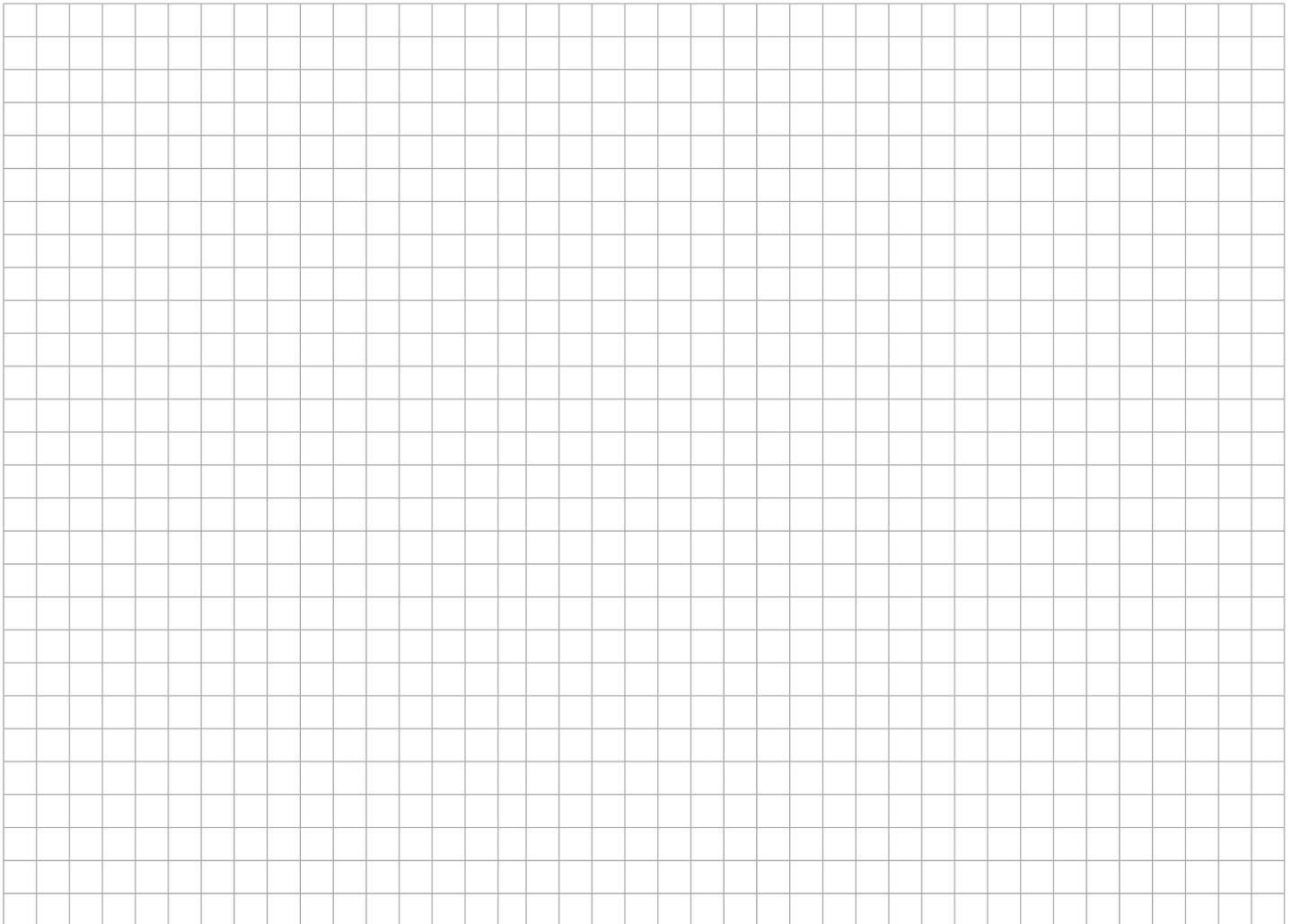


Examples:

T14FT4IN-L10FT5IN-8R1845

T22FT8IN-L8FT6IN-3R1845

Use the grid below to sketch the layout of your Curvia 2 Prism Pattern.



# CURVIA 2 PRISM

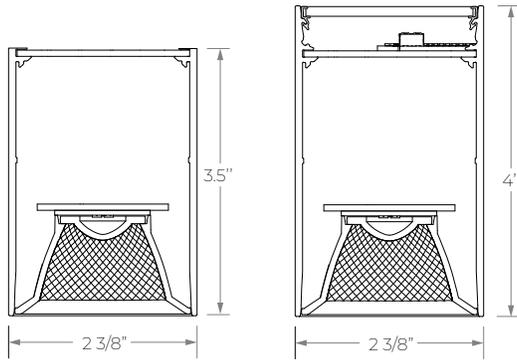
## PATTERN

PENDANT - SURFACE - RECESSED

LUMENWERX

### Section View

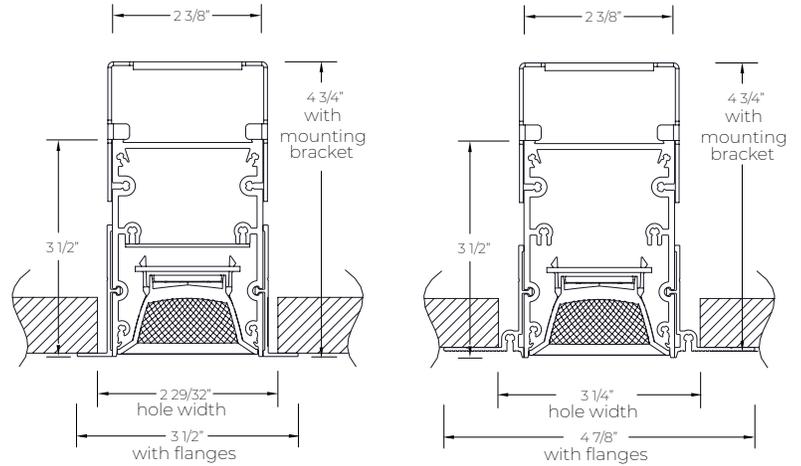
PENDANT, SURFACE



DIRECT

DIRECT/INDIRECT

RECESSED



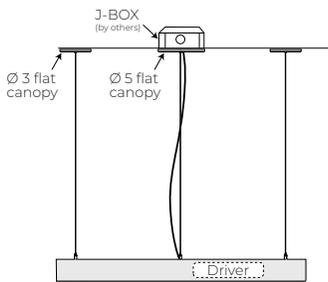
DTR - Drywall trim

DMF - Drywall mud flange

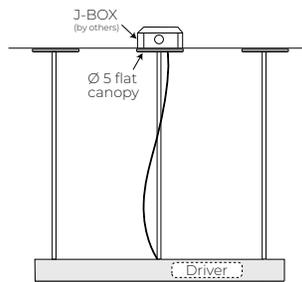
### Mounting Options

PENDANT

#### INTEGRAL DRIVER

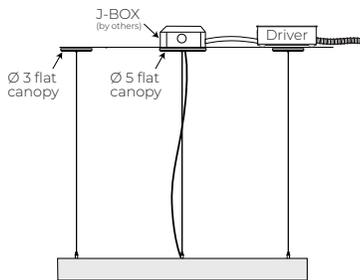


POWER CORD + AIRCRAFT CABLE

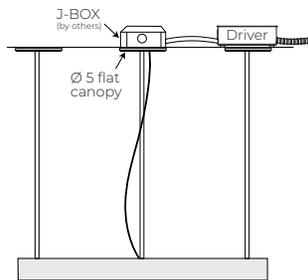


STEM

#### REMOTE DRIVER



POWER CORD + AIRCRAFT CABLE



STEM

# CURVIA 2 PRISM

## PATTERN

PENDANT - SURFACE - RECESSED

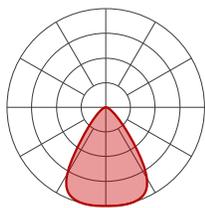
**LUMENWERX**

### Photometrics

Values calculated based on 4 ft straight segments at 35K and 80 CRI for all optics.

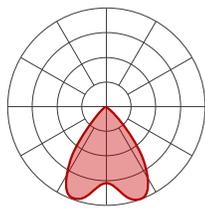
#### DIRECT OPTICS

MATTE SILVER  
DIAMOND PRISM OPTIC



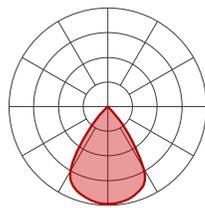
LM/FT	W/FT	LPW
350	2.6	132
500	3.8	132
750	5.9	127
1000	8.2	122
1200	10	120

PRECISION SPECULAR  
DIAMOND PRISM OPTIC



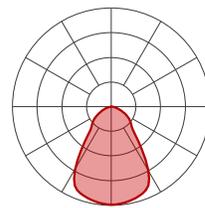
LM/FT	W/FT	LPW
350	2.4	147
500	3.4	147
750	5.3	142
1000	7.3	137
1200	8.9	134

MATTE BLACK  
DIAMOND PRISM OPTIC



LM/FT	W/FT	LPW
350	5.1	69
500	7.5	66
750	11.9	63
1000	16.7	60

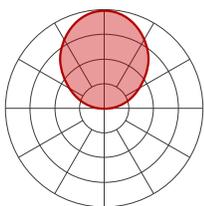
MATTE WHITE  
DIAMOND PRISM OPTIC



LM/FT	W/FT	LPW
350	2.4	145
500	3.5	144
750	5.4	139
1000	7.4	135
1200	9.1	132

#### INDIRECT OPTICS

HLO



LM/FT	W/FT	LPW
350	2.4	149
500	3.5	145
750	5.4	139

#### MULTIPLIER TABLES

Use these tables to get results for different color temperatures and CRI for all Direct and Indirect photometric tables.

Multiplier - CCT/CRI  
SDPO, PDPO, BDPO, WDPO

CCT (K)	Watts		LPW	
	CRI80	CRI90	CRI80	CRI90
2700	1.04	1.19	0.96	0.84
3000	1.00	1.15	1.00	0.87
3500	1.00	1.12	1.00	0.89
4000	0.99	1.10	1.01	0.91

Multiplier - CCT/CRI  
HLO

CCT (K)	Watts		LPW	
	CRI80	CRI90	CRI80	CRI90
2700	1.05	1.26	0.95	0.79
3000	1.01	1.23	0.99	0.81
3500	1.00	1.20	1.00	0.84
4000	1.00	1.17	1.00	0.85

#### DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\left( \frac{\text{DIRECT LM/FT} + \text{INDIRECT LM/FT}}{\text{DIRECT W/FT} + \text{INDIRECT W/FT}} \right) = \text{LPW}$$

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**LUMENWERX**

## Technical Specifications

### OPTICS

#### Diamond Prism Optic (DPO)

The Diamond Prism Optic™ (DPO™) is our patent-pending 3-tiered optic meticulously crafted to refract and reflect beams with great precision, effectively keeping glare to a minimum while delivering light of exceptional quality and visual comfort.



MATTE SILVER



PRECISION  
SPECULAR



MATTE BLACK



MATTE WHITE

#### UGR - Diamond Prism Optic

LM/FT	MATTE SILVER	PRECISION SPECULAR	MATTE BLACK	MATTE WHITE
350	9.7	1.2	1.2	14.9
500	10.9	2.4	2.4	16.1
750	12.3	3.8	3.8	17.8
1000	13.3	4.8	N/A	18.8
1200	13.9	5.4	N/A	19.2

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

Lumenwerx's High-Efficiency Lambertian Optic is engineered with reflective sidewalls that distribute LED output across acrylic shielding. To negotiate the curves of Lumenwerx rounded fixtures, the HLO is equipped with proprietary SupremeGrip™ technology, which keeps the optic securely in place.

### LIGHT SOURCE

Custom array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate 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.

### ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

### 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, emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

### Battery

Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

### MOUNTING OPTION

#### Pendant

Pendant fixtures can be mounted either with aircraft cable or with stem.

#### Surface

Fixtures can be mounted directly to drywall and hard surface ceilings, hardware supplied by others. A minimum distance of 6" from the vertical wall is required.

#### Recessed

Recessed fixtures can be mounted in drywall ceilings with trim or mud flange options.

### FINISH

**Interior** - 95%, reflective matte powder coated white paint.

**Exterior** - Matte white, matte black or aluminum powder coating. Custom finishes are also available.

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LUMENWERX

### CONSTRUCTION

**Housing** - Extruded aluminum and aluminum sheet, up to 90% recycled content

**Reflectors** - Aluminum

**HLO** - Acrylic and polycarbonate

**Louvers** - Polycarbonate

**Hanger** - Chromed griplock securely attached with spring steel hardware in end caps and/or joiners

**Aircraft cable suspension** - 7x7 braids aluminum aircraft cable 0.06" thick

**Stem** - 0.5" diameter threaded steel tube matte white or aluminum powder coating. Custom finishes are also available.

### CERTIFICATIONS

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

**IC rated** - Suitable for direct contact with insulation. For Recessed mounting only.

### WARRANTY

Lumenwerx provides a five-year limited warranty on 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.