

# MINI PIVOT LINEAR

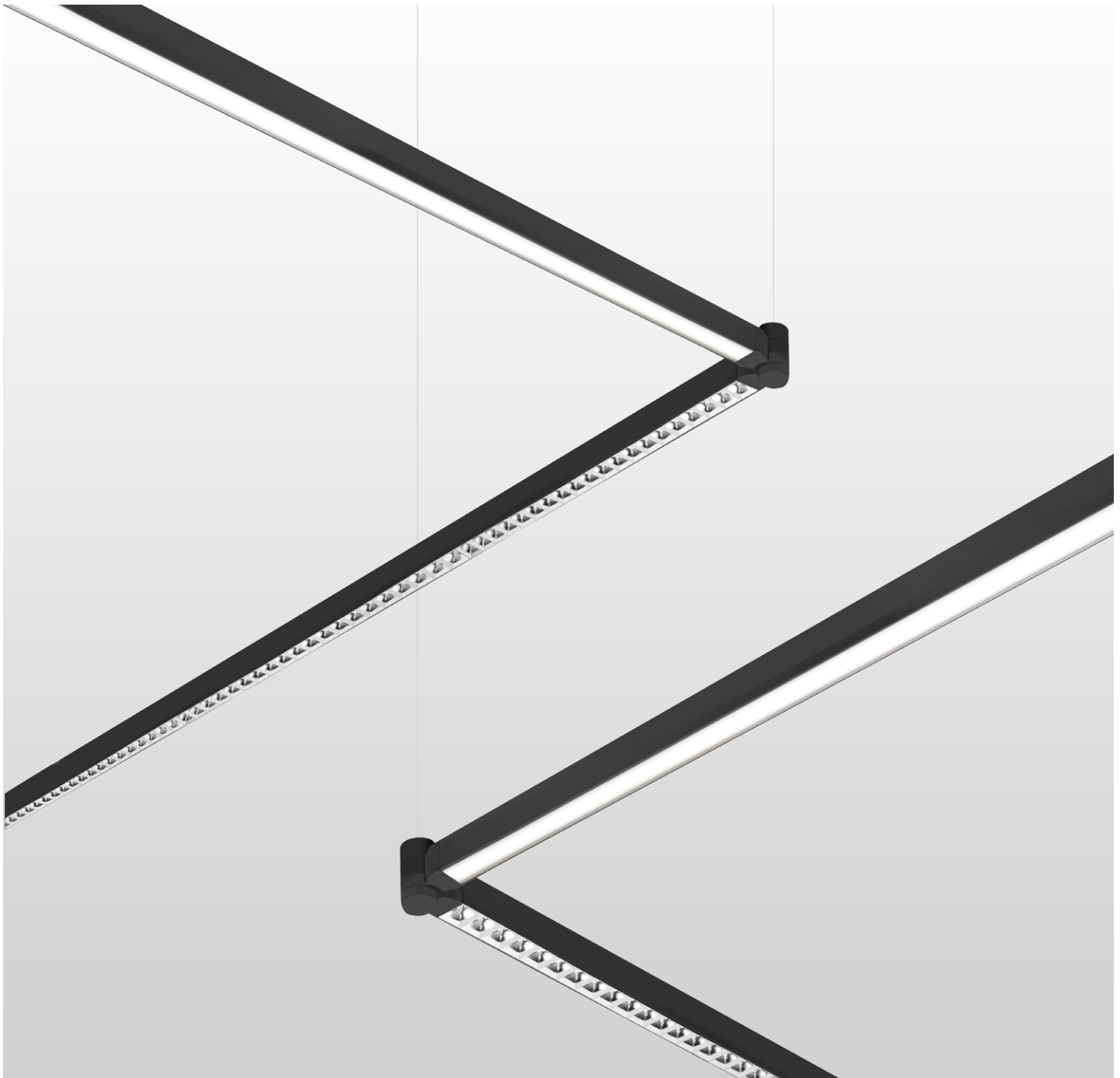
PENDANT PATTERN

DIRECT/INDIRECT, DIRECT



## DESCRIPTION

With the same crisp and clean aesthetic as its Mini Pivot Track counterpart, Mini Pivot Linear fixtures are track-free lighting units that can be used in conjunction with Mini Pivot Track modules in comprehensive lighting designs, or they can serve as lighting solutions on their own for applications requiring uniform and consistent lighting effects throughout a space. Recessed, surface, or pendant mounted, Mini Pivot Linear delivers direct light distribution with HLO or DPO lensing options.



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

## Order Guide

Example: MIPIVLINPPAT-D-HLO-2FT-BLA-1FT-NA-SW-80CRI-300LMF-NA-27K-3FT-1LNH2-120V-RD1-1C-NA-ACS-FTMB

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

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTICS <sup>1</sup> Specify the total length for each required optic.			INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE	CRI
MIPIVLINPPAT							
MIPIVLINPPAT - Mini Pivot Linear Pendant Pattern	DI - Direct/Indirect D - Direct	BDPO <sup>2</sup> - Matte Black Diamond Prism Optic	FT	IN	HLO - High-Efficiency Lambertian Optic NA - Not applicable	SW - Static white FS - Full spectrum	80CRI <sup>4</sup> - 80 CRI 90CRI <sup>4</sup> - 90 CRI 95CRI <sup>5</sup> - 95 CRI
		GDPO <sup>2</sup> - Graphite Diamond Prism Optic	FT	IN			
		HLO <sup>3</sup> - High-Efficiency Lambertian Optic	FT	IN			
		BLA - Blank	FT	IN			
		<sup>1</sup> Specify Prism optics in 6.7" increments for 10 cell louvers, HLO in 4" increments, Blank in 1" increments. <sup>2</sup> Minimum optic length is 20.1". <sup>3</sup> Minimum optic length is 23.6".					

DIRECT LUMEN PACKAGE				INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP.	TOTAL LUMINAIRE LENGTH	CORNER TYPE <sup>7</sup>
	Low	Medium	High	300LMF - 300 lm/ft 450LMF - 450 lm/ft 600LMF - 600 lm/ft NA - Not applicable	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	#FT#IN <sup>6</sup> - Specify the total nominal length (#) in 1' and/or 1" increments  Standard nominal lengths: Single units - 2' to 12' Continuous runs: lengths over 12'	#LNH2 - 2-way horizontal Linx #LNH3 - 3-way horizontal Linx #LNH4 - 4-way horizontal Linx  <sup>7</sup> Specify quantity (#) for each required Linx.
BDPO	640LMF	940LMF	x				
GDPO	640LMF	940LMF	1280LMF				
HLO	300LMF	450LMF	600LMF				

VOLTAGE	DRIVER <sup>9</sup>	ELECTRICAL	ELECTRICAL SECTIONS (optional) <sup>13, 14</sup>	MOUNTING	FINISH <sup>20</sup>
120V - 120V 277V - 277V UNV - 120V-277V 347V <sup>8</sup> - 347V	REMOTE  RD1 - 1% 0-10V RDA <sup>10</sup> - DALI RLDE1 <sup>10</sup> - Lutron Hi-lume 1% Eco RELD1 - eldoLED 1% ECOdrive 0-10V RELDO - eldoLED 0.1% SOLOdrive 0-10V  <sup>9</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>10</sup> On-site commissioning is required.	1C - 1 circuit 2C <sup>11</sup> - 2 circuits #MC <sup>12</sup> - Multi circuit EC - Emergency-powered fixture  <sup>11</sup> Available for Direct/Indirect only. Separate direct and indirect circuits. <sup>12</sup> Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit.	#EC## <sup>15</sup> - Emergency-powered section #EMB <sup>16, 17</sup> - Emergency battery NA - None  <sup>13</sup> Specify with multi circuit (#MC) electrical option only. <sup>14</sup> Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. <sup>15</sup> Specify quantity (#), and section length in inches (##). <sup>16</sup> Not available with 347V. <sup>17</sup> Specify quantity (#). All batteries will be remote. Each battery powers a 4' section of a single optic. For Direct/Indirect, minimum 8' fixture.	ACS <sup>18</sup> - Aircraft cable, standard ACC( ) <sup>19</sup> - Aircraft cable, custom  <sup>18</sup> Standard canopies and power cord are black for black fixtures, and white for all other finishes. Ø 5" for power canopy, Ø 2" for non-power. Aircraft cable length is 36". <sup>19</sup> To specify a custom mounting, please refer to the mounting code below to see all available options.	FTMB - Textured matte black FTMW - Textured matte white CF# - Custom finish, specify RAL#  <sup>20</sup> Blank finish will match fixture finish.

## Custom Pendant Mounting Code

For a custom mounting, specify the options in the parentheses.

Example: ACC(2NPC-72IN-W-PCB-SLC)

MOUNTING - AIRCRAFT CABLE, CUSTOM					
ACC( )					
NON-POWER CANOPY SIZE	AIRCRAFT CABLE LENGTH	CANOPY FINISH	POWER CORD COLOR	OPTIONS	
ACC	2NPC - Ø 2" non-power canopy 5NPC - Ø 5" non-power canopy	36IN - 36" 72IN - 72" 120IN - 120" #IN <sup>1</sup> - Other lengths, specify in inches  <sup>1</sup> Maximum length is 288". For longer lengths, please consult factory.	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	PCW - White PCB - Black	SEM - Seismic mounting SLC - Sloped ceiling for aircraft cable NA - None

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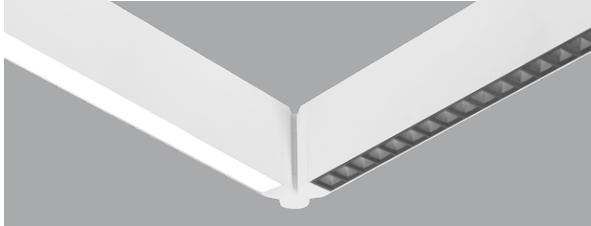
PENDANT PATTERN  
DIRECT/INDIRECT, DIRECT

## Mini Pivot Linear Pattern Layout

Use the grid below to sketch and label the layout of your combination pattern.

Make sure to follow the guidelines specified in the order code:

- Prism optics in 6.7" increments;  
HLO in 4" increments.
- Blank in 1" increments.
- Single units - 2' to 12'
- Maximum length for a section is 12'.
- Minimum angle for the rotation of the Linx is 60°.



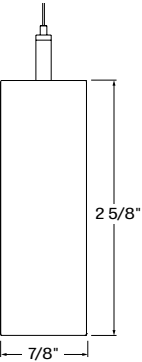
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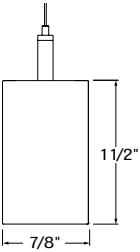
PENDANT PATTERN  
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## Dimensions

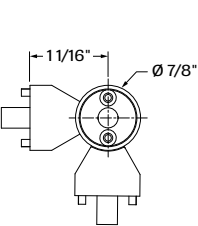
DIRECT/INDIRECT



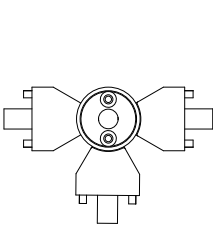
DIRECT



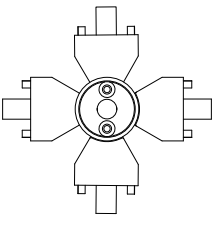
LINX



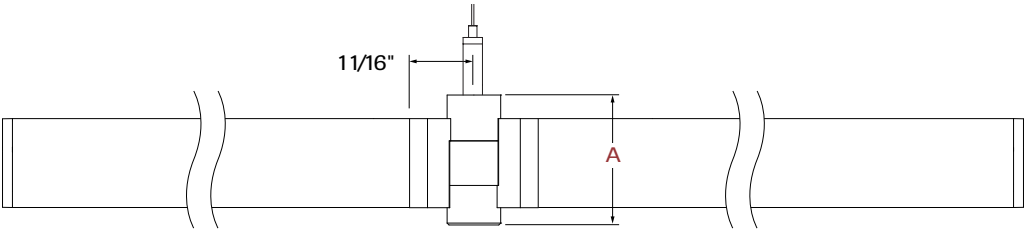
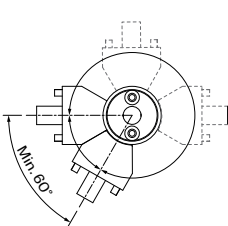
LNH2 - 2-way horizontal Linx



LNH3 - 3-way horizontal Linx



LNH4 - 4-way horizontal Linx



MIPVILINPPAT - Mini Pivot Linear Pendant Pattern - shown with 2-way horizontal Linx

A LINX HEIGHT	
DIRECT/INDIRECT	2 5/8"
DIRECT	2 1/8"

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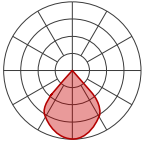
## Photometrics

BDPO/GDPO values calculated based on four 6.7" sections at 3500K and 90 CRI.

HLO values calculated based on a 4' fixture at 3500K and 80 CRI.

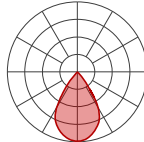
### DIRECT OPTICS

BDPO



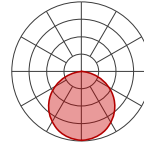
LM/FT	W/FT	LM/W
640	11.5	56
940	18.3	51

GDPO



LM/FT	W/FT	LM/W
640	8.3	77
940	11.9	79
1280	18.1	71

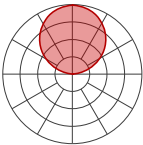
HLO



LM/FT	W/FT	LM/W
300	3.8	79
450	5.7	78
600	7.8	77

### INDIRECT OPTIC

HLO



LM/FT	W/FT	LM/W
300	3.8	79
450	5.7	78
600	7.8	77

### MULTIPLIER TABLES - CCT/CRI

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

BDPO/GDPO

CCT	WATTS		LPW	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	0.93	1.06	1.08	0.94
3000K	0.89	1.03	1.12	0.98
3500K	0.89	1.00	1.12	1.00
4000K	0.88	0.98	1.13	1.02

HLO

CCT	WATTS		LPW	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	1.04	1.23	0.96	0.81
3000K	1.01	1.20	0.99	0.83
3500K	1.00	1.18	1.00	0.85
4000K	0.97	1.14	1.03	0.87

### DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left( \begin{array}{cc} \text{DIRECT} & + \\ \text{LM/FT} & \text{INDIRECT} \\ & \text{LM/FT} \end{array} \right)}{\left( \begin{array}{cc} \text{DIRECT} & + \\ \text{W/FT} & \text{INDIRECT} \\ & \text{W/FT} \end{array} \right)} = \text{LPW}$$

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## 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.



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

Shielding of diffusing 0.075" thick acrylic provides up to 88% transmission and good obscuration. Matte white reflectors distribute LED output across the shielding. Luminaire brightness is controlled by the ratio of luminous flux to shielding area.



#### Blank (BLA)

Aluminum Blank covers provide spacing – functional or rhythmic – in the direct component of a Mini Pivot Linear luminaire. Covers finished to match the luminaire housing, and snap into the aperture.



### LIGHT SOURCE

#### Static white

Custom linear array of high-flux LEDs mounted onto aluminum-backed circuitry with quick-connect wiring to facilitate service and optimize 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. 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.

#### Full spectrum

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.

### PATTERN LENGTH

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field.

### 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% Eco, 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, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

### MOUNTING

Pendant fixtures can be mounted with aircraft cable. See page 2 for details.

### FINISH

Textured matte white and black. Custom colors also available (provide RAL #).

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### CONSTRUCTION

**Housing:** Extruded aluminum, up to 90% recycled content

**HLO lens:** Acrylic

**Louvers:** Polycarbonate

**Joining system:** Die cast zinc

**End caps:** Die cast aluminum

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

**Aircraft cable suspension:** Stainless steel aircraft cable 1mm thick

### WEIGHT

Direct/Indirect	Direct
4': 3.31 lbs - 1.5 kg	4': 2.2 lbs - 1.0 kg
8': 6.61 lbs - 3.0 kg	8': 4.41 lbs - 2.0 kg
12': 10.1 lbs - 4.6 kg	12': 6.8 lbs - 3.1 kg

### CERTIFICATION

**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 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.