



# MATREX DUAL™

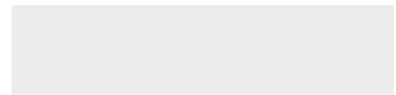
## FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

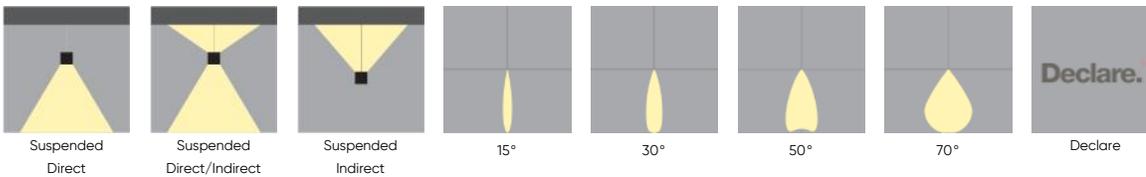


QUANTITIES

### 1 DESCRIPTION

**MATREX** is a family of spotlights packed with power for projecting light at great distances. With best-in-class thermal management and hidden heat sinks, **MATREX's** form factor is significantly smaller than traditional spotlights. Multiple mounting systems are available, providing a variety of functions that work in a range of applications, especially those with multiple ceiling heights. Suspension points originate from the sides allowing for unobstructed uplight. The revolutionary design delivers industry-leading performance from a significantly reduced form factor. The snoots are effective in controlling light spill and reducing glare.

### 2 OPTICS & FEATURES



### 3 APPROVALS



### 4 GENERAL SPECIFICATION

#### BODY AND TRIM

Steel and aluminum.

#### FINISH

Powder coated as specified. Custom paint finishes available to special order.

**SUSPENSION**

Steel cables.

**INTEGRAL EMERGENCY SYSTEM**

Emergency option provides a 1.5 hour (3 hours for EU) emergency lighting facility. The self contained system includes the inverter module, NiCad batteries, LED charge indicator and test switch (NA only). Integral emergency EU luminaires have a 17" (434mm) x 8.3" (210mm) x 2.3" (58mm) canopy with LED charge indicator. Not available with a 347V supply. Drivers are in the canopy and used with the lower module only.

**MECHANICAL**

Luminaires mount to a junction box or switch box (by others - North America only), depending on canopy selection.

**DELIVERED LUMENS**

Delivered lumens & lpw based on 4000K, CRI 80+.

**REPORTED L70 @25°C (77°F)**

> 60,000 hrs.

**DESIGNED BY**

Serge Cornelissen.

**SUSTAINABILITY**

Designed for on-site LED board, driver, and optic replacement. Contact the factory for maintenance documentation.

**POWER CABLE**

Silver braided.

**DRIVERS**

HPF, electronic, 120-277V, 347V (EU-240V). The driver is integral to the fixture housing except when ordering emergency then they are integral to the canopy.

**SENSORS**

Consult factory regarding sensor compatibility.

**APPROVALS**

Damp Rated.

**ESTIMATED L70 @25°C (77°F)**

> 171,000 hrs.

**DESIGN**

US Pat. No. D917,765.

**5 DESIGN OPTIONS**

**FINISH - FIXTURE**



**FINISH - CANOPY**



**6 HOW TO ORDER**

**1. LUMINAIRE**

**MXDP1P01** Double Down, 18400 lms    **MXDP2P01** Direct/Indirect, 18400 lms    **MXDP3P01** Double Up, 18400 lms

All data shown at max output and nominal values.

**2. LUMENS (UPPER MODULE)**

**LMA0230** 2300                      **LMA0460** 4600                      **LMA0690** 6900                      **LMA0920** 9200

\* Max lumen values shown, refer to IES files for the different snoot and beam options.

**3. LUMENS (LOWER MODULE)**

**LMB0230** 2300                      **LMB0460** 4600                      **LMB0690** 6900                      **LMB0920** 9200

\* Max lumen values shown, refer to IES files for the different snoot and beam options.

**4. CRI**

**CR80** CRI 80+                      **CR90** CRI 90+

**5. CCT**

**CTA27** 2700K <sup>1</sup>                      **CTA30** 3000K                      **CTA35** 3500K                      **CTA40** 4000K

<sup>1</sup> 2700K is only available with CRI 80+

## 6. BEAM ANGLE (UPPER MODULE)

<b>BA15</b> 15°	<b>BA30</b> 30°	<b>BA50</b> 50°	<b>BA70</b> 70°
<b>BA80</b> 50°x80° <sup>1</sup>			

<sup>1</sup> Available only with Double Down luminaire and 2300 lumens.

## 7. BEAM ANGLE (LOWER MODULE)

<b>BB15</b> 15°	<b>BB30</b> 30°	<b>BB50</b> 50°	<b>BB70</b> 70°
<b>BB80</b> 50°x80° <sup>1</sup>			

<sup>1</sup> Available only with Double Down luminaire, Direct/Indirect luminaire, and 2300 lumens.

## 8. VOLTAGE

<b>V1</b> 120/277V	<b>V2</b> 240V <sup>1</sup>	<b>V3</b> 347V <sup>2</sup>
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<sup>1</sup> Not available in North America. <sup>2</sup> Only available with DA01 dimming.

## 9. DIMMING

<b>DA01</b> 0-10V Dimming 1.0%	<b>DA02</b> 0-10V Dimming 0.1% <sup>1</sup>	<b>DA20</b> DALI Dimming 0.1% <sup>1</sup>	<b>DA21</b> DALI Dimming 1.0% <sup>1</sup>
<b>DA30</b> DSI/switchDim <sup>1 2</sup>	<b>DA40</b> DMX Dimming <sup>1 2</sup>		

<sup>1</sup> Not available with 347V. <sup>2</sup> Not available in North America. <sup>3</sup> Only available with CN4 canopy.

## 10. FIXTURE FINISH

<b>FA01</b> White	<b>FA02</b> Black Metallic – Textured	<b>FA20</b> Silver Metallic – Textured	<b>FA25</b> Gold Metallic – Textured
<b>FA44</b> Midnight Blue Metallic – Textured	<b>FA46</b> Charcoal Metallic – Textured	<b>FA47</b> Bronze Metallic – Textured	<b>FA53</b> Red Metallic – Textured

## 11. CANOPY

<b>CN1</b> Canopy A <sup>1</sup>	<b>CN2</b> Canopy B <sup>2</sup>	<b>CN3</b> Canopy C <sup>1 3</sup>	<b>CN4</b> Canopy D <sup>1 *</sup>
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<sup>1</sup> Fits over a standard j-box (provided by others). <sup>2</sup> Fits over a switch box (provided by others, 4"x2.125"). <sup>3</sup> For use with V2 (240V) only.  
\* To be ordered with E1 (Emergency Integral) or DA40 (DMX Dimming).

## 12. CANOPY FINISH

<b>CF01</b> White	<b>CF02</b> Black Metallic – Textured	<b>CF20</b> Silver Metallic – Textured	<b>CF25</b> Gold Metallic – Textured
<b>CF44</b> Midnight Blue Metallic – Textured	<b>CF46</b> Charcoal Metallic – Textured	<b>CF47</b> Bronze Metallic – Textured	<b>CF53</b> Red Metallic – Textured

## 13. SNOOTS AND LOUVERS (UPPER MODULE)

<b>NT1</b> Standard Snoot – Black <sup>1</sup>	<b>NT2</b> Standard Snoot – White <sup>1</sup>	<b>NT3</b> Long Snoot – Black <sup>1</sup>	<b>NT4</b> Long Snoot – White <sup>1</sup>
<b>NU7</b> Hex Louver – Black <sup>2</sup>	<b>NU8</b> Ladder Louver – Black <sup>3</sup>		

For precise beam angle and lumen output, please refer to the IES files. Note that using snoots and louvers may decrease overall efficacy.

<sup>1</sup> Snoot must be picked at time of order, if not ordering a louver. <sup>2</sup> Unavailable with Double Up or Indirect only, BA70 beam angle.

<sup>3</sup> Available with Double Down and Direct only, BA80 beam angle and 2300 lumens only.

## 14. SNOOTS AND LOUVERS (LOWER MODULE)

<b>NU1</b> Standard Snoot – Black <sup>1</sup>	<b>NU2</b> Standard Snoot – White <sup>1</sup>	<b>NU3</b> Long Snoot – Black <sup>1</sup>	<b>NU4</b> Long Snoot – White <sup>1</sup>
<b>NU7</b> Hex Louver – Black <sup>2</sup>	<b>NU8</b> Ladder Louver – Black <sup>3</sup>		

For precise beam angle and lumen output, please refer to the IES files. Note that using snoots and louvers may decrease overall efficacy.

<sup>1</sup> Snoot must be picked at time of order, if not ordering a louver. <sup>2</sup> Unavailable with Double Up or Indirect only, BB70 beam angle.

<sup>3</sup> Available with Double Down and Direct only, BB80 beam angle and 2300 lumens only.

## 15. EMERGENCY

<b>E0</b> Emergency system not required	<b>E1</b> Emergency system – Integral <sup>1</sup>
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<sup>1</sup> Integral emergency in the lower module only, drivers are in the canopy. Not available with 347V. Two power cables will be supplied.

<sup>2</sup> CN4 canopy only used when ordering emergency or DMX. Two power cables supplied.

## 16. SEPARATE SWITCHING

<b>CS1</b> Single circuit	<b>CS2</b> Separate switching <sup>1</sup>
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<sup>1</sup> Two power cables will be supplied.

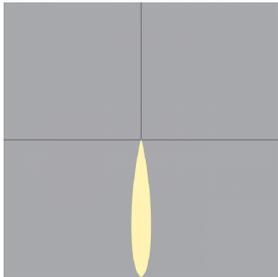
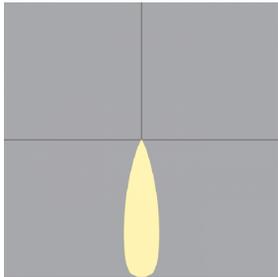
**7 TECHNICAL DATA**

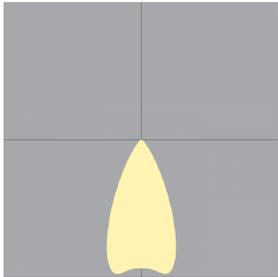
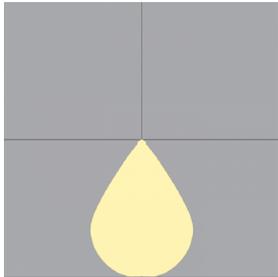
**LUMINAIRE**

All data shown at max output and nominal values.

Code	MXDP1P01	MXDP2P01	MXDP3P01
Light Direction	Double Down	Direct/Indirect	Double Up
Max Wattage	164W	164W	164W
Max Delivered lms	18400	18400	18400
Max LPW	130	130	130

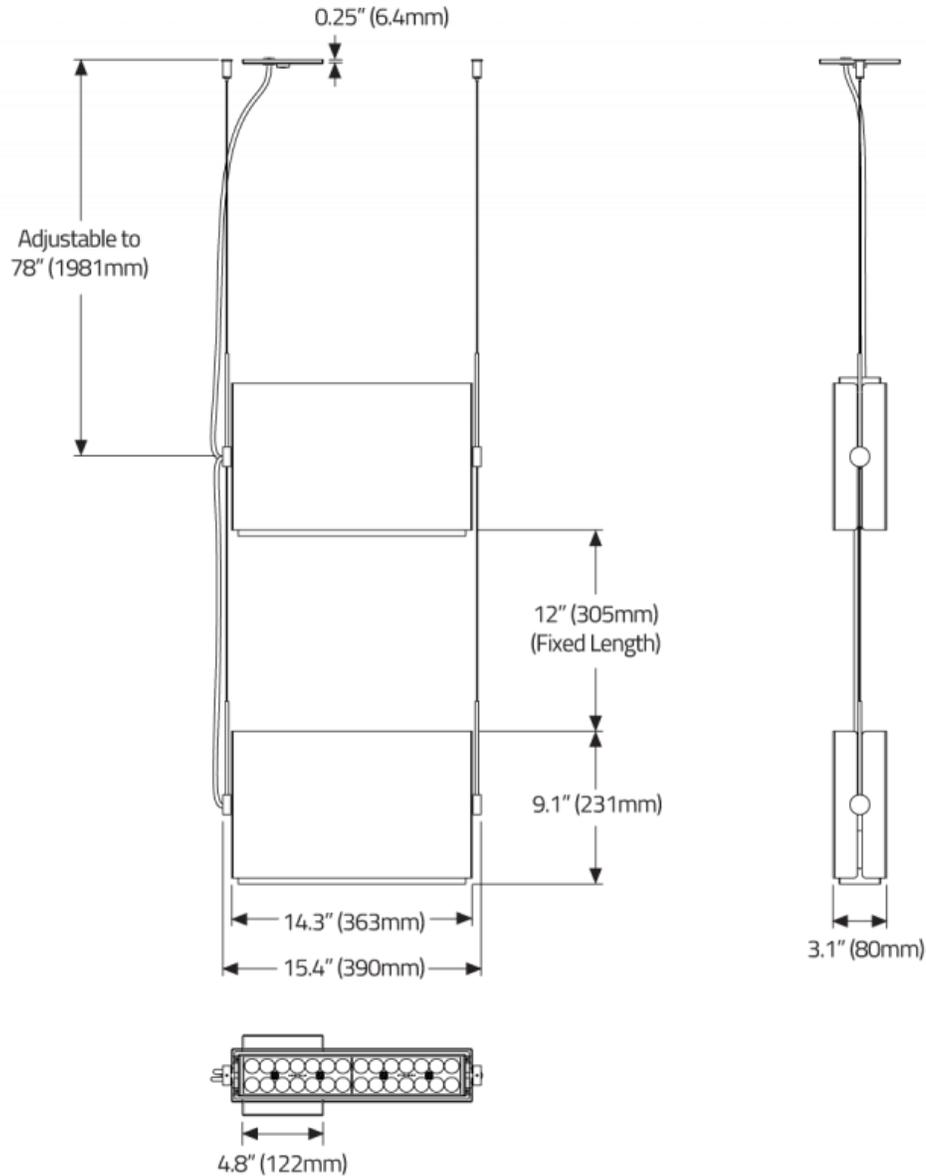
**8 PERFORMANCE DATA**

DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 30° BEAM ANGLE	WATTS	LUMENS	LPW
	32	4600	138		32	4600	140
	72	9000	127		72	8800	130
	114	13600	118		114	13000	120
	164	18000	110		164	17400	112

DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	32	4400	133		32	4400	134
	72	8800	123		72	8800	123
	114	13000	114		114	13200	115
	164	17400	107		164	17600	107

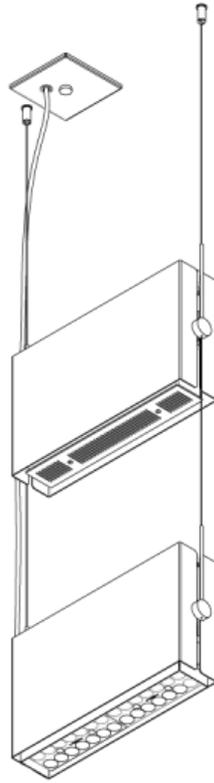
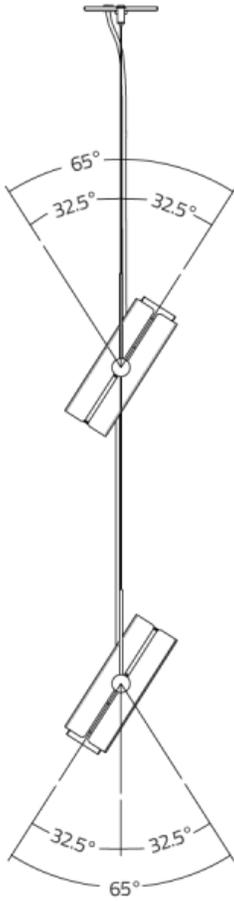
9 DIMENSIONAL DIAGRAMS

fixture profiles

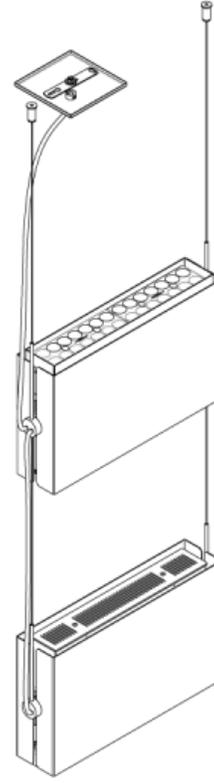


**b** MATREX DUAL™ - SUSPENDED  
FULL SPECIFICATION SHEET

Direct/Indirect

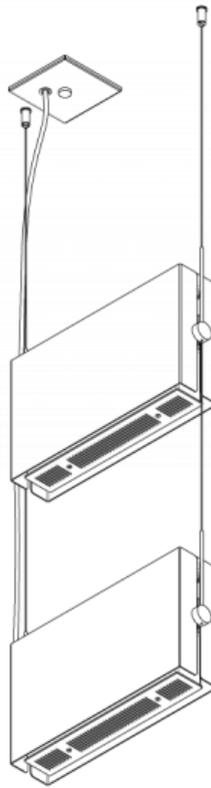
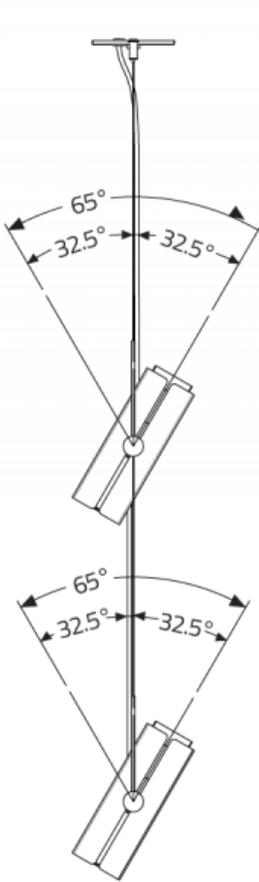


ISOMETRIC BOTTOM VIEW  
(STRAIGHT)

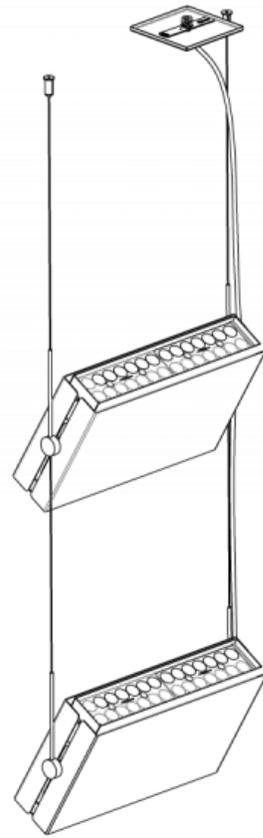


ISOMETRIC TOP VIEW  
(STRAIGHT)

DOUBLE UP

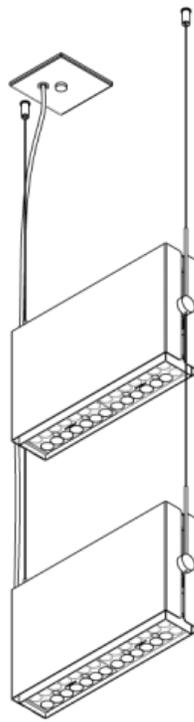
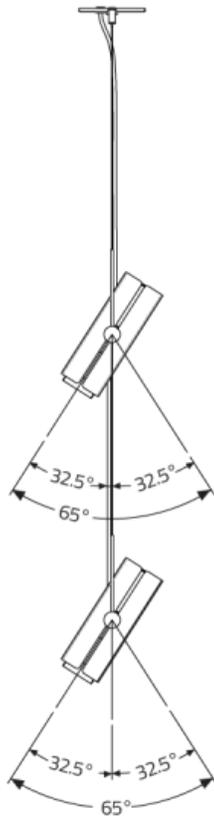


ISOMETRIC BOTTOM VIEW  
(STRAIGHT)

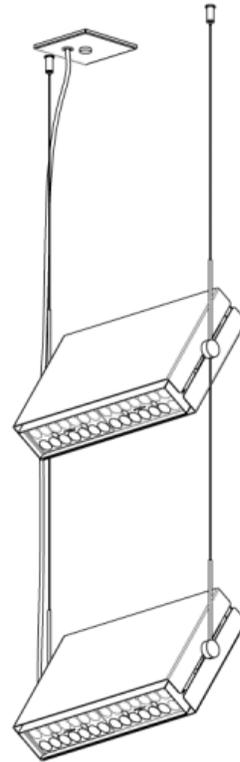


ISOMETRIC VIEW  
(ANGLED)

DOUBLE DOWN

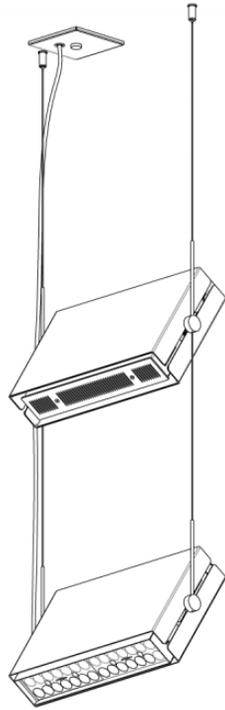


ISOMETRIC BOTTOM VIEW  
(STRAIGHT)

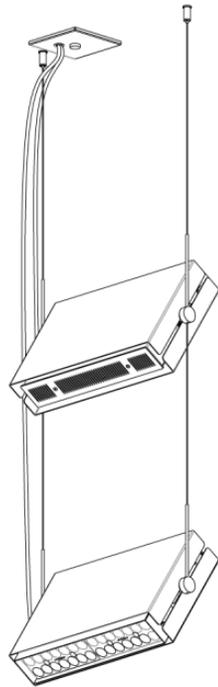


ISOMETRIC VIEW  
(ANGLED)

SEPARATE SWITCHING (CS1, CS2)



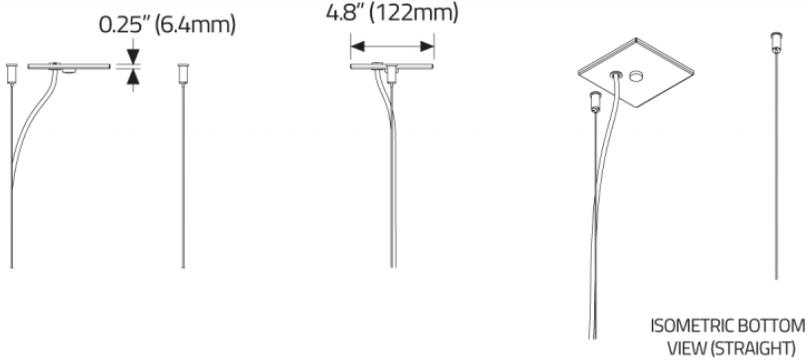
SINGLE CIRCUIT



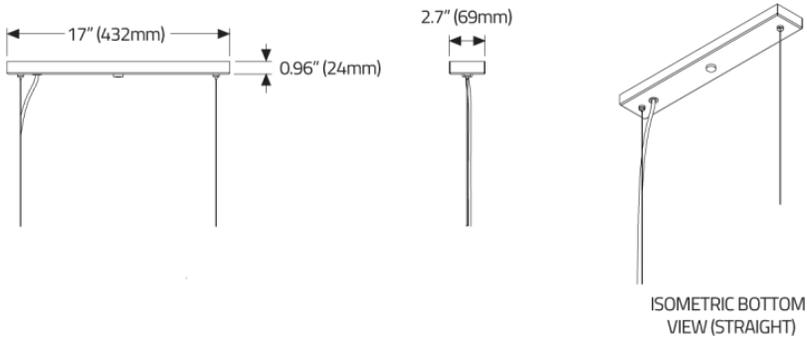
SEPARATE SWITCHING  
(Two power cables supplied)

CANOPIES

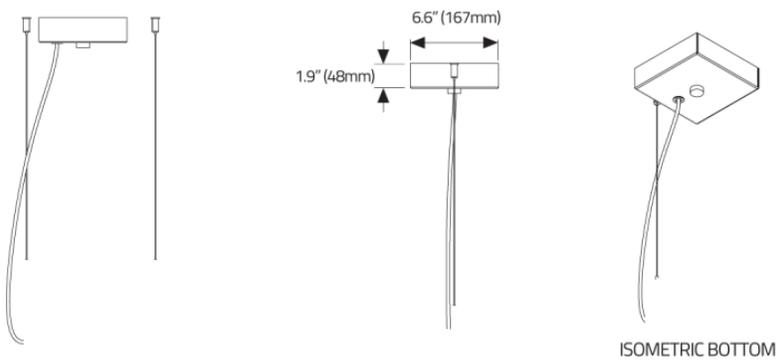
CANOPY A



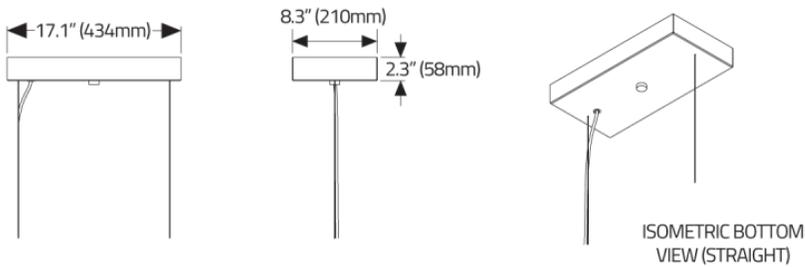
CANOPY B



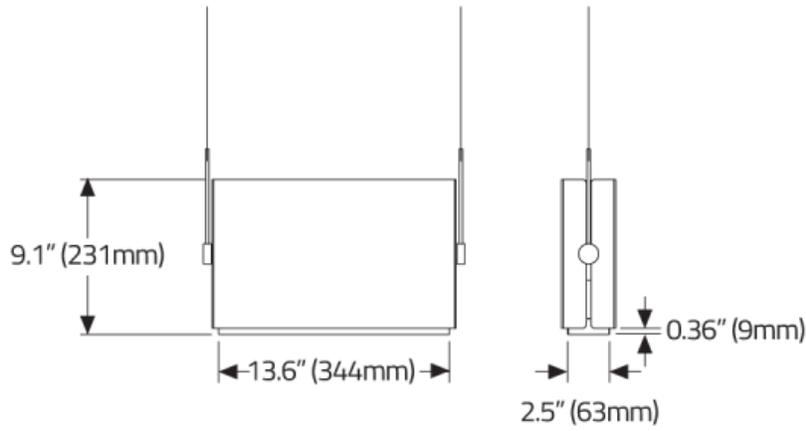
CANOPY C



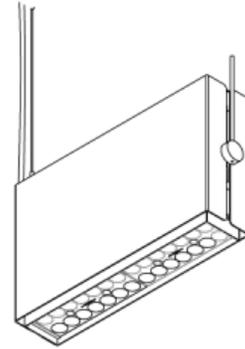
CANOPY D



STANDARD SNOOT

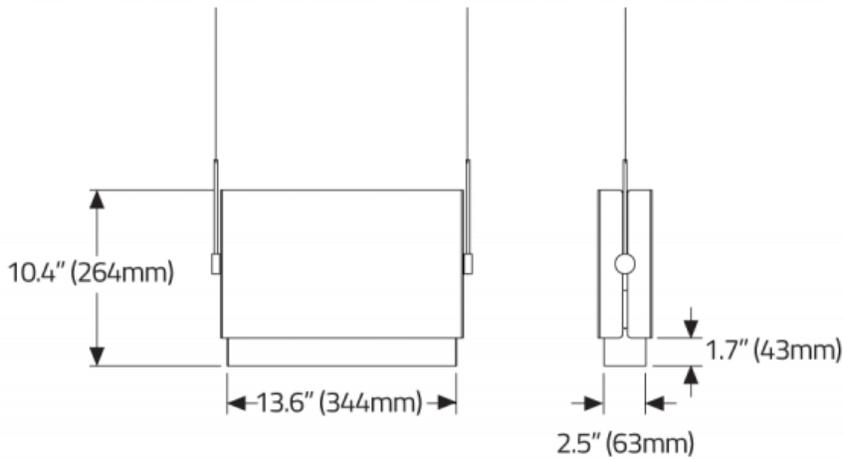


STANDARD SNOOT

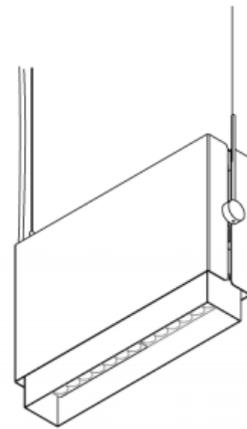


ISOMETRIC BOTTOM VIEW  
(STANDARD SNOOT)

LONG SNOOT



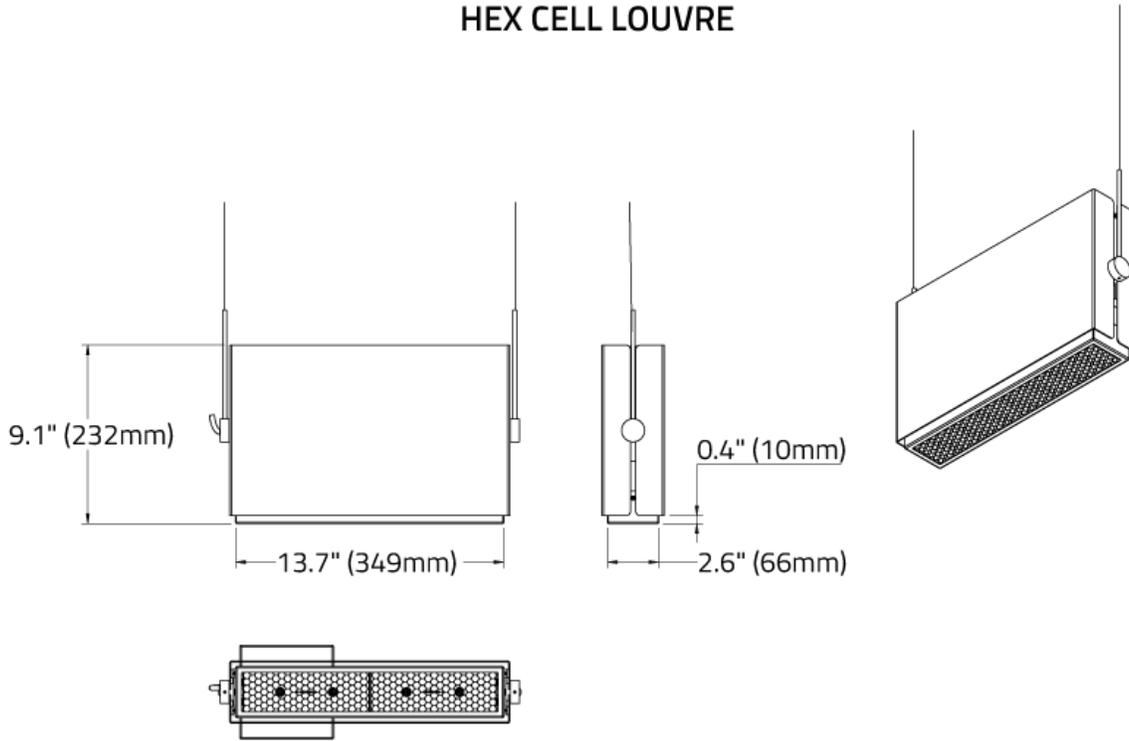
LONG SNOOT



ISOMETRIC BOTTOM VIEW  
(LONG SNOOT)

LOUVRES

**HEX CELL LOUVRE**



**LADDER LOUVRE**

