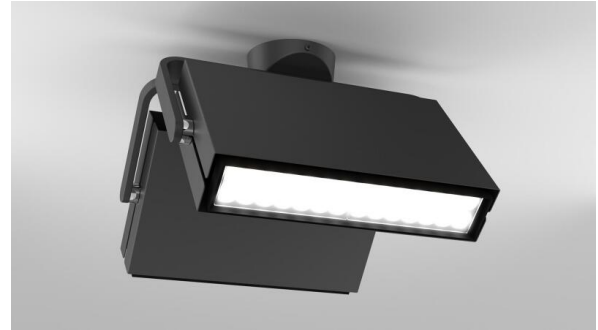




# MATREX DUAL™

## FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

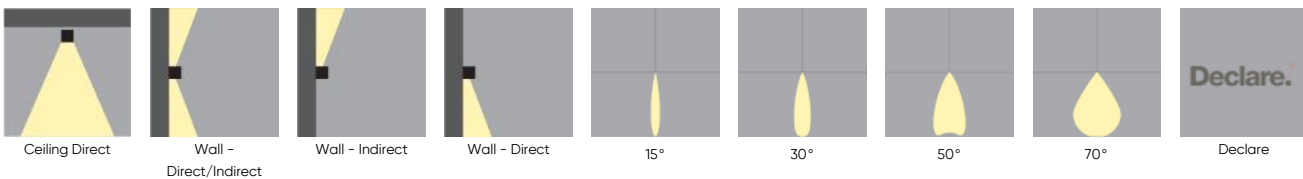


QUANTITIES

### 1 DESCRIPTION

**MATREX** Surface brings more mounting flexibility and fixture adjustability to the **MATREX** family, lauded for its compact form factor, unique mounting system, and high lumen output with optics designed for precision. **MATREX** is ideally suited for spaces with multiple ceiling heights, such as atriums. 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.

**DRIVERS**

HPF, electronic, 120-277V, 347V (EU-240V). The driver is integral to the fixture housing.

**REMOTE EMERGENCY SYSTEM**

Emergency option provides a 1.5 hour (3 hours for EU) emergency lighting facility. The remote system includes the inverter module, NiCad batteries and a remote wall/ceiling LED charge indicator and test switch (NA only) Maximum distance between wall/ceiling plate and luminaire is 15' (4.5m). Test switch fits a single gang box (not supplied).

**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.

**SENSORS**

Consult factory regarding sensor compatibility.

**MECHANICAL**

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

**APPROVALS**

Damp Rated.

**ESTIMATED L70 @25°C (77°F)**

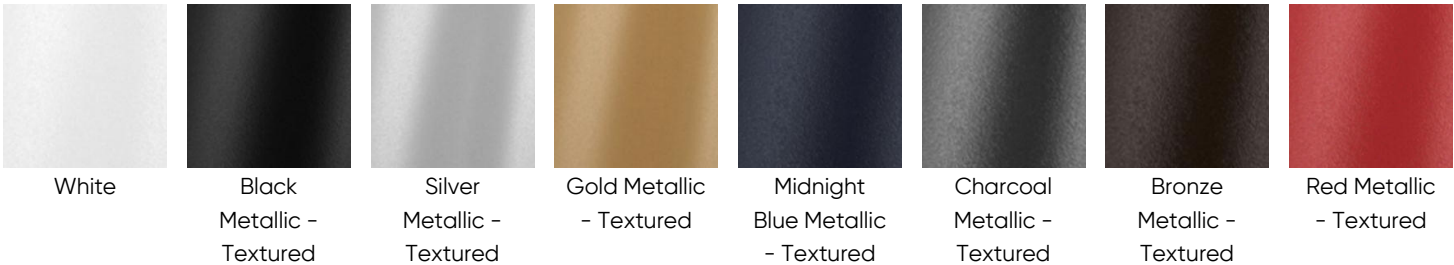
>171,000 hrs.

**DESIGN**

US Pat. No. D917,765.

**5 DESIGN OPTIONS**

**FINISH - FIXTURE**



**6** HOW TO ORDER

**1. LUMINAIRE**

MXDFIP01 Direct, 18400 lms

All data shown at max output and nominal values.

**2. LUMENS (HEAD A)**

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 (HEAD B)**

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 (HEAD A)**

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

<sup>1</sup> Available with NT8 Ladder Louver only.

**7. BEAM ANGLE (HEAD B)**

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

<sup>1</sup> Available with NU8 Ladder Louver only.

## 8. VOLTAGE

V1 120/277V

V2 240V<sup>1</sup>

V3 347V<sup>2</sup>

<sup>1</sup> Not available in North America. <sup>2</sup> Only available with DA01 dimming.

## 9. DIMMING

DA01 0–10V Dimming 1.0%

DA02 0–10V Dimming 0.1%<sup>1</sup>

DA20 DALI Dimming 0.1%<sup>1</sup>

DA21 DALI Dimming 1.0%<sup>1</sup>

DA30 DSI/switchDim<sup>1 2</sup>

<sup>1</sup> Not available with V3. <sup>2</sup> Not available in North America.

## 10. FINISH

FA01 White

FA02 Black Metallic – Textured

FA20 Silver Metallic – Textured

FA25 Gold Metallic – Textured

FA44 Midnight Blue Metallic –  
Textured

FA46 Charcoal Metallic –  
Textured

FA47 Bronze Metallic – Textured

FA53 Red Metallic – Textured

## 11. SNOOTS AND LOUVERS (HEAD A)

NT1 Standard Snoot – Black<sup>1</sup>

NT2 Standard Snoot – White<sup>1</sup>

NT3 Long Snoot – Black<sup>1</sup>

NT4 Long Snoot – White<sup>1</sup>

NT7 Hex Louver – Black<sup>2</sup>

NT8 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 ordering a louver. <sup>2</sup> Not available with BA70 beam angle.

<sup>3</sup> Available with BA80 beam angle and 2300 lumens only.

## 12. SNOOTS AND LOUVERS (HEAD B)

NU1 Standard Snoot – Black<sup>1</sup>

NU2 Standard Snoot – White<sup>1</sup>

NU3 Long Snoot – Black<sup>1</sup>

NU4 Long Snoot – White<sup>1</sup>

NU7 Hex Louver – Black<sup>2</sup>

NU8 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> Not available with BB70 beam angle.

<sup>3</sup> Available with BB80 beam angle and 2300 lumens only.

**13. EMERGENCY**

**E0** Emergency system not required      **E2** Emergency system – Remote <sup>1</sup>

<sup>1</sup> Remote emergency in the lower module only. Not available with V3. Integral is not available.

**14. SEPARATE SWITCHING**

**CS1** Single circuit      **CS2** Separate switching

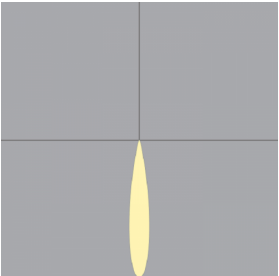
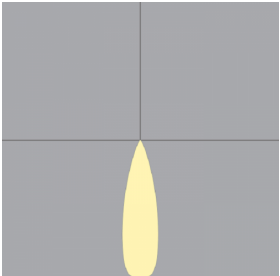
**7 TECHNICAL DATA**

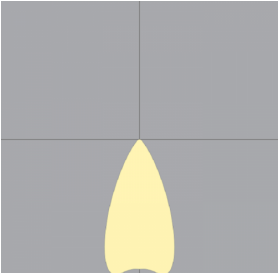
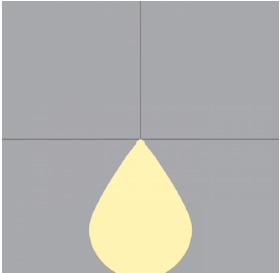
**LUMINAIRE**

All data shown at max output and nominal values.

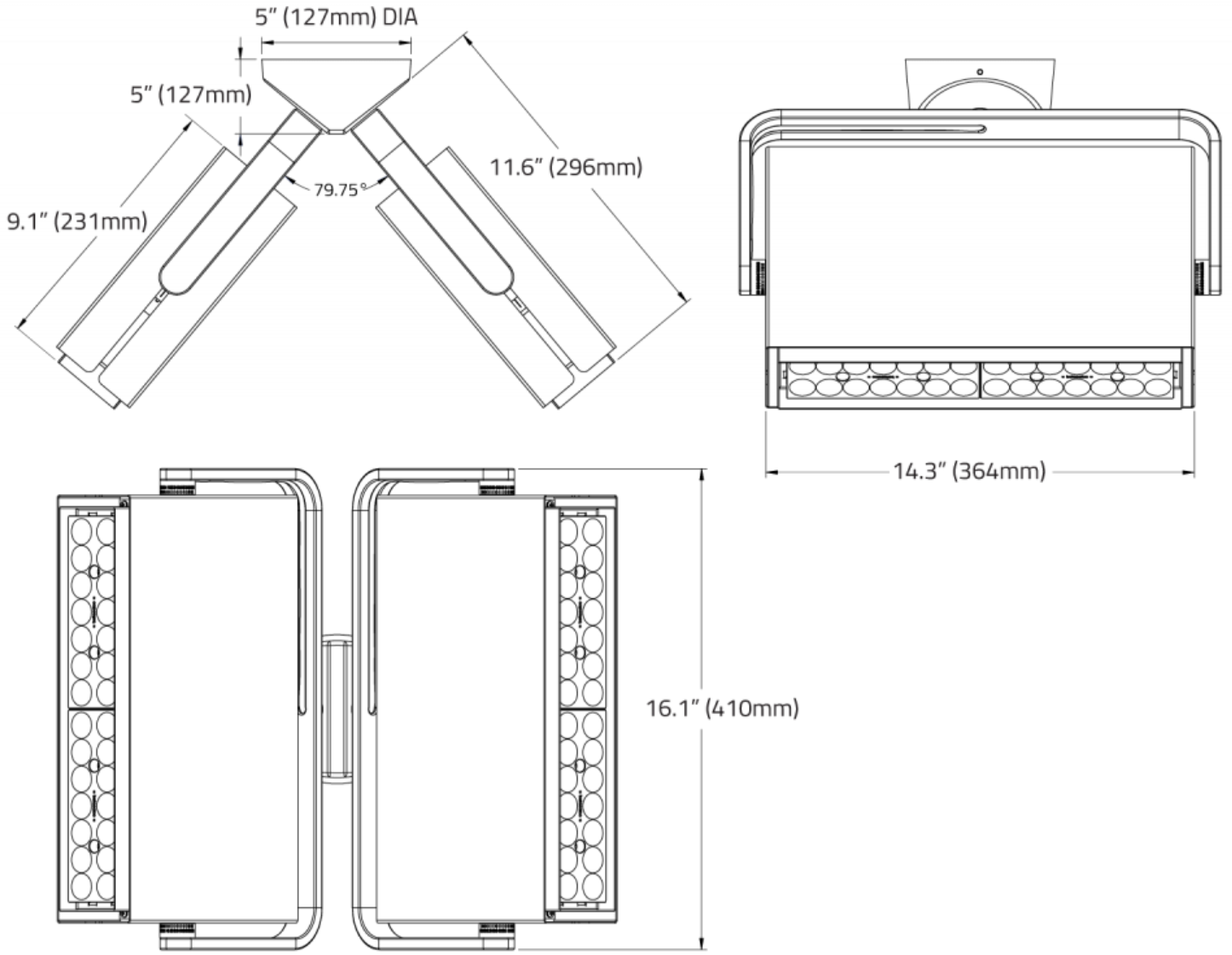
<b>Code</b>	<b>MXDF1P01</b>
<b>Light Direction</b>	Direct
<b>Wattage</b>	164
<b>Delivered lms</b>	18400
<b>LPW</b>	130

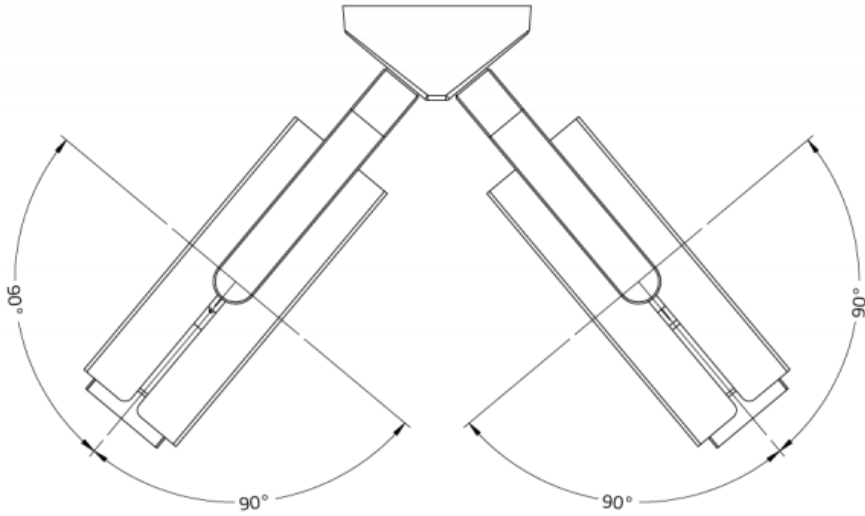
**8 PERFORMANCE DATA**

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

<b>DIRECT 50° BEAM ANGLE</b>	<b>WATTS</b>	<b>LUMENS</b>	<b>LPW</b>	<b>DIRECT 70° BEAM ANGLE</b>	<b>WATTS</b>	<b>LUMENS</b>	<b>LPW</b>
	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

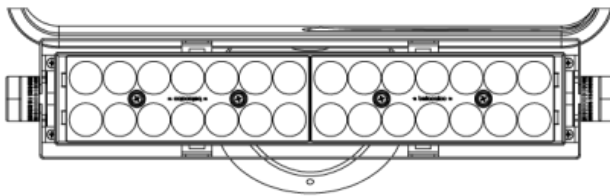




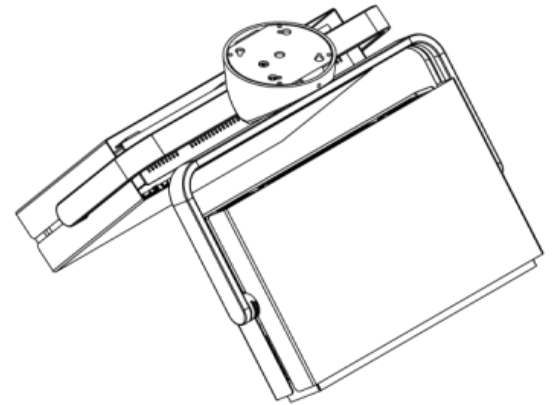
ISOMETRIC  
 BOTTOM VIEW



FIXED  
 YOKE

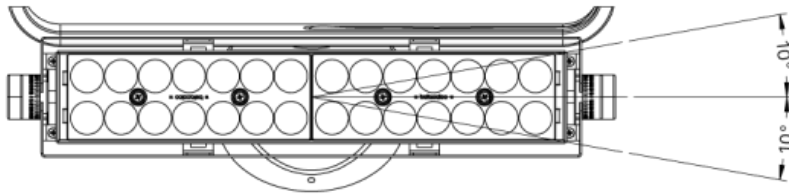


VIEW NORMAL TO YOKE



ISOMTERIC  
 TOP VIEW

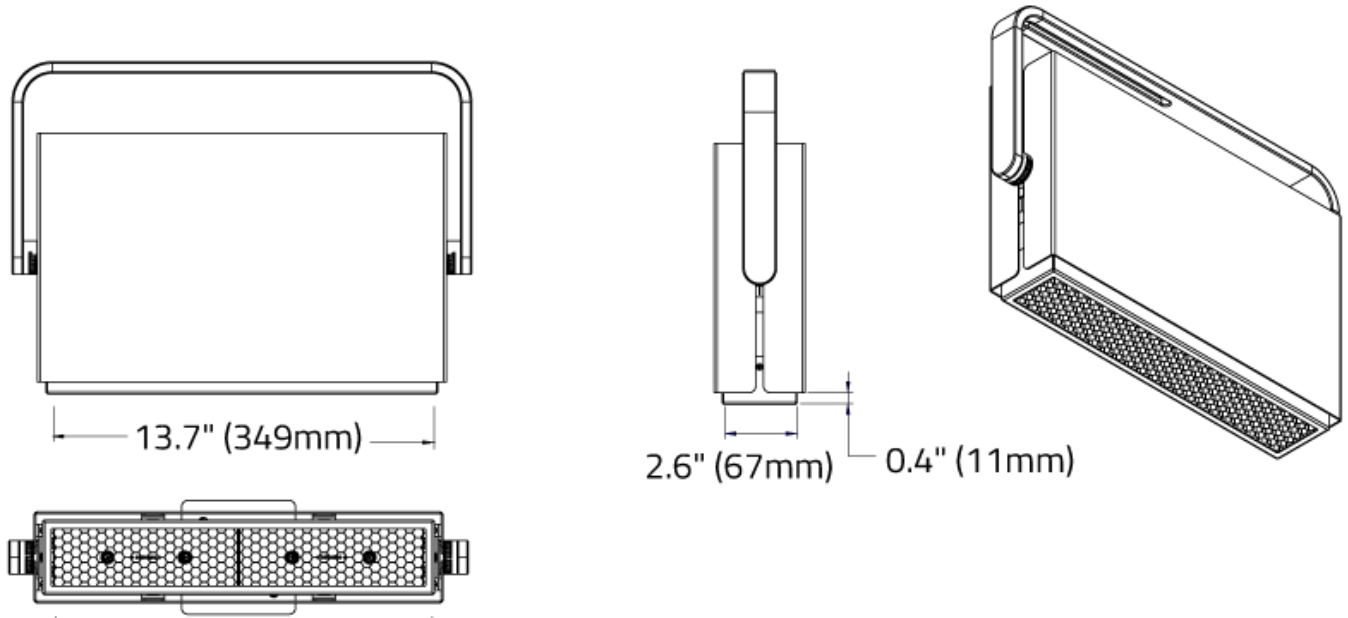
ROTATING  
 YOKE



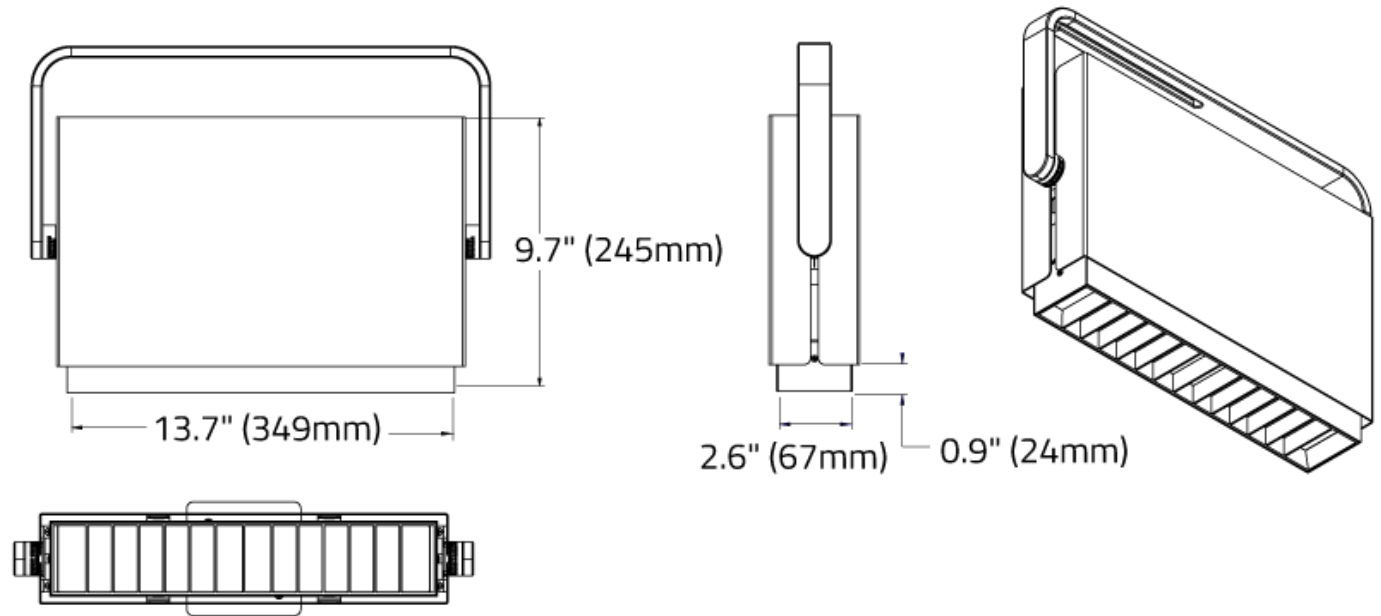
VIEW NORMAL TO YOKE

LOUVRES

**HEX CELL LOUVRE**

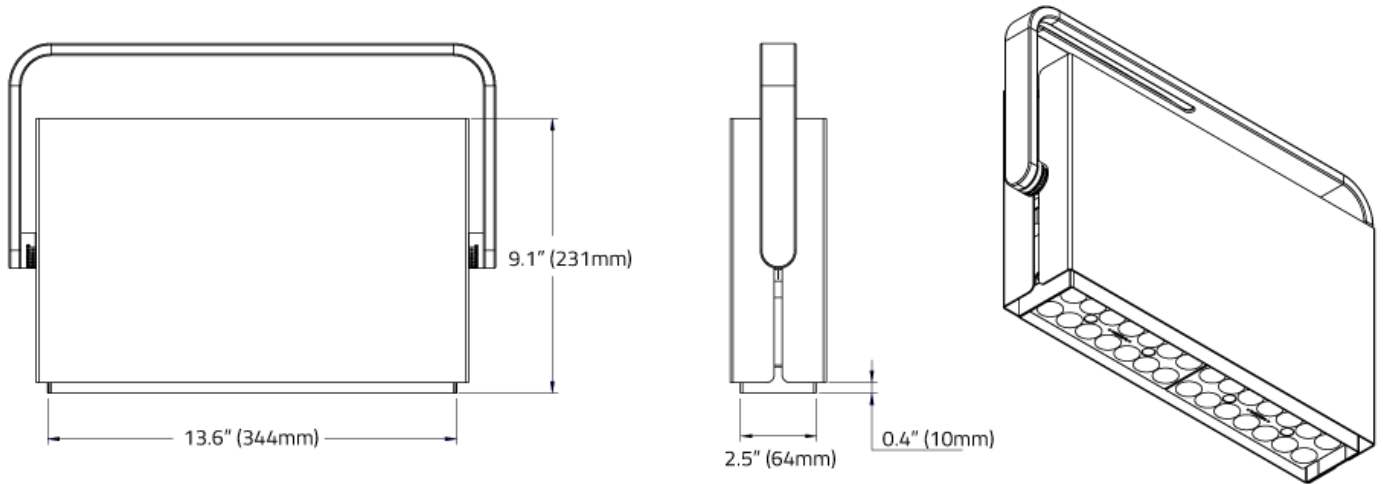


**LADDER LOUVRE**



SNOOTS

**STANDARD SNOOT**



**LONG SNOOT**

