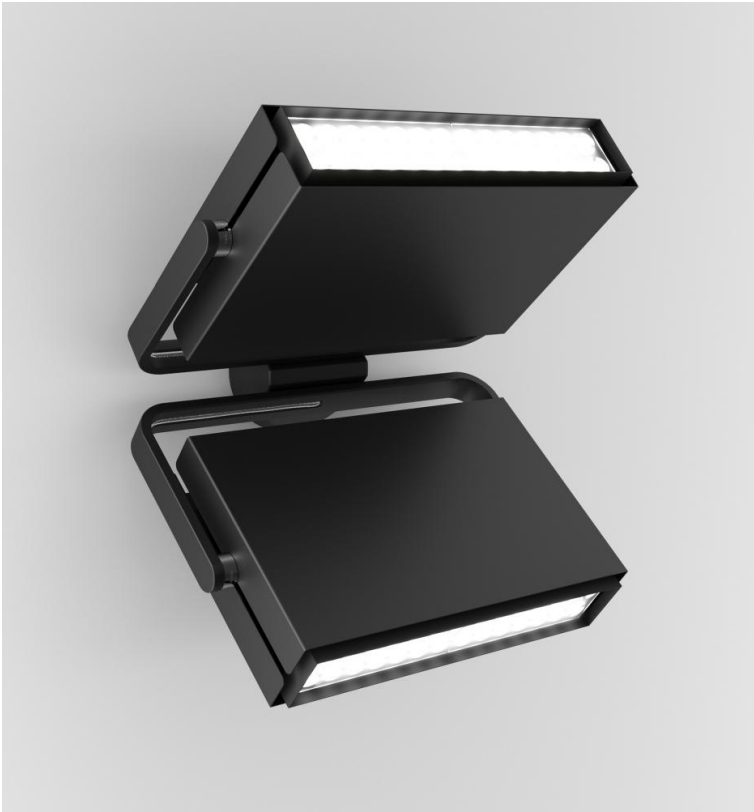
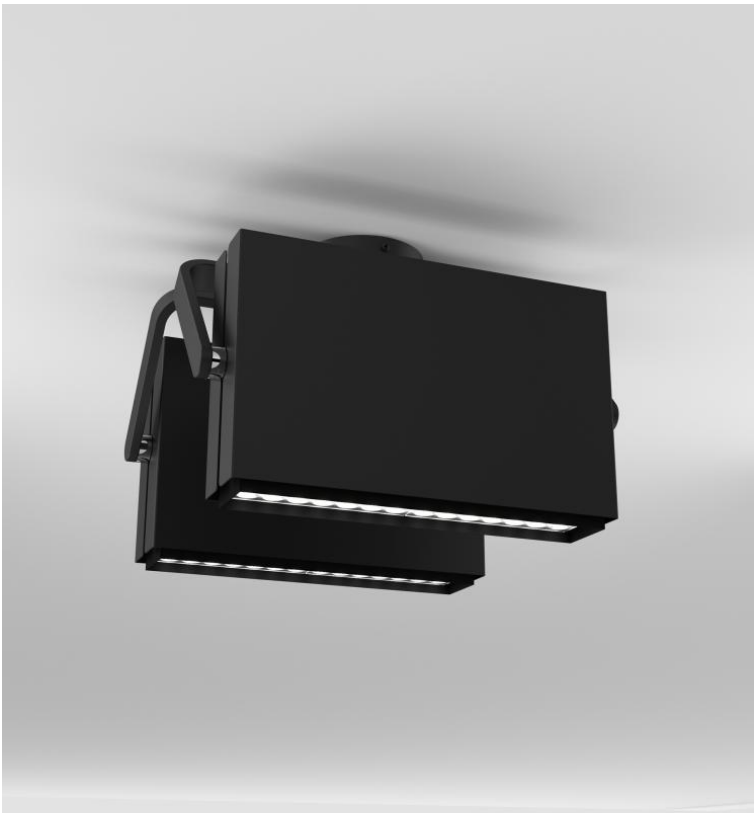


MATREX DUAL™ - SURFACE

Project Name:	Fixture Type:
Fixture Code:	Quantities:



MATREX DUAL™ - SURFACE



# MATREX DUAL™ - SURFACE

**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.

## GENERAL SPECIFICATION

### Body and trim

Steel and aluminum.

### 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.

### Finish

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

### 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.

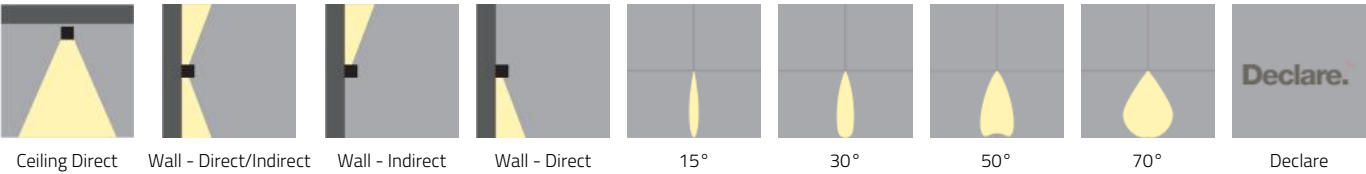
### Estimated L70 @25°C (77°F)

>171,000 hrs.

### Design

US Pat. No. D917,765.

## OPTICS & FEATURES



# MATREX DUAL™ - SURFACE

## HOW TO ORDER

### A. LUMINAIRE

**MXDF1P01** Direct, 18400 lms

All data shown at max output and nominal values.

### B. LUMENS (HEAD A)

<b>LMA0230</b> 2300	<b>LMA0460</b> 4600	<b>LMA0690</b> 6900	<b>LMA0920</b> 9200
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\* Max lumen values shown, refer to IES files for the different snoot and beam options.

### C. LUMENS (HEAD B)

<b>LMB0230</b> 2300	<b>LMB0460</b> 4600	<b>LMB0690</b> 6900	<b>LMB0920</b> 9200
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\* Max lumen values shown, refer to IES files for the different snoot and beam options.

### D. CRI

<b>CR80</b> CRI 80+	<b>CR90</b> CRI 90+		
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### E. CCT

<b>CTA27</b> 2700K <sup>1</sup>	<b>CTA30</b> 3000K	<b>CTA35</b> 3500K	<b>CTA40</b> 4000K
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<sup>1</sup> 2700K is only available with CRI 80+

### F. BEAM ANGLE (HEAD A)

<b>BA15</b> 15° <b>BA80</b> 50°x80° <sup>1</sup>	<b>BA30</b> 30°	<b>BA50</b> 50°	<b>BA70</b> 70°
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<sup>1</sup> Available with NT8 Ladder Louver only.

### G. BEAM ANGLE (HEAD B)

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

### I. DIMMING

<b>DA01</b> 0-10V Dimming 1.0% <b>DA30</b> DSI/switchDim <sup>1 2</sup>	<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>
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<sup>1</sup> Not available with V3.

<sup>2</sup> Not available in North America.

# MATREX DUAL™ - SURFACE

## J. FINISH

**FA01** White  
**FA44** Midnight Blue Metallic - Textured

**FA02** Black Metallic - Textured  
**FA46** Charcoal Metallic - Textured

**FA20** Silver Metallic - Textured  
**FA47** Bronze Metallic - Textured

**FA25** Gold Metallic - Textured  
**FA53** Red Metallic - Textured

## K. SNOOTS AND LOUVERS (HEAD A)

**NT1** Standard Snoot - Black <sup>1</sup>  
**NT7** Hex Louver - Black <sup>2</sup>

**NT2** Standard Snoot - White <sup>1</sup>  
**NT8** Ladder Louver - Black <sup>3</sup>

**NT3** Long Snoot - Black <sup>1</sup>

**NT4** Long Snoot - White <sup>1</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> A snoot must be picked at time of order, if you are not ordering a louver.

<sup>2</sup> Not available with BA70 beam angle.

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

## L. SNOOTS AND LOUVERS (HEAD B)

**NU1** Standard Snoot - Black <sup>1</sup>  
**NU7** Hex Louver - Black <sup>2</sup>

**NU2** Standard Snoot - White <sup>1</sup>  
**NU8** Ladder Louver - Black <sup>3</sup>

**NU3** Long Snoot - Black <sup>1</sup>

**NU4** Long Snoot - White <sup>1</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> A snoot must be picked at time of order, if you are 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.

## M. 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.

## N. SEPARATE SWITCHING

**CS1** Single circuit

**CS2** Separate switching

# MATREX DUAL™ - SURFACE


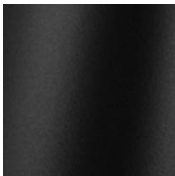



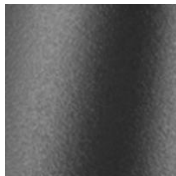

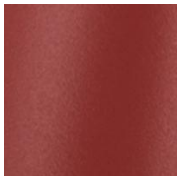
## TECHNICAL DATA

### LUMINAIRE

All data shown at max output and nominal values.

Code	MXDF1P01
Light Direction	Direct
Wattage	164
Delivered lms	18400
LPW	130

### FINISH - FIXTURE

							
White	Black Metallic - Textured	Silver Metallic - Textured	Gold Metallic - Textured	Midnight Blue Metallic - Textured	Charcoal Metallic - Textured	Bronze Metallic - Textured	Red Metallic - Textured

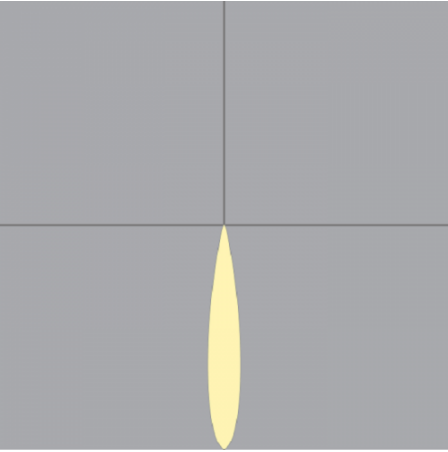
### APPROVALS



# MATREX DUAL™ - SURFACE

## PERFORMANCE DATA

### DIRECT 15° BEAM ANGLE

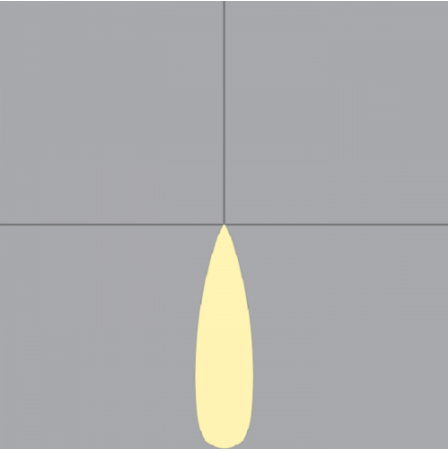


WATTS
32
72
114
164

LUMENS
4600
9000
13600
18000

LPW
138
127
118
110

### DIRECT 30° BEAM ANGLE

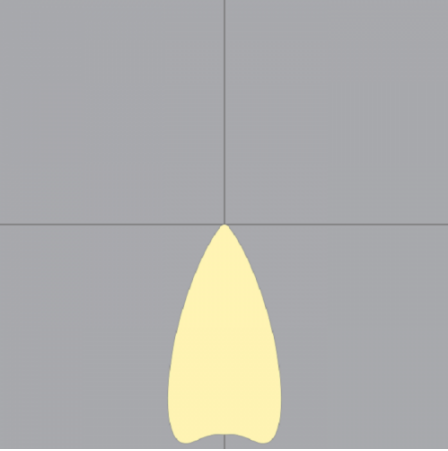


WATTS
32
72
114
164

LUMENS
4600
8800
13000
17400

LPW
140
130
120
112

### DIRECT 50° BEAM ANGLE



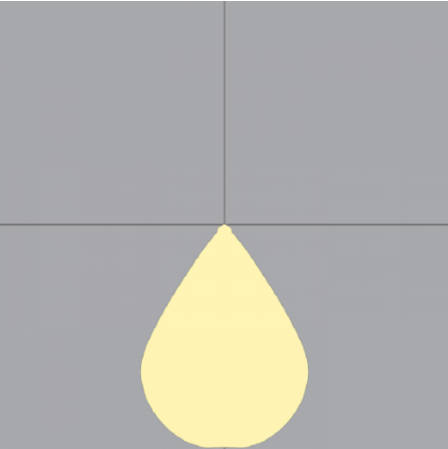
WATTS
32
72
114
164

LUMENS
4400
8800
13000
17400

LPW
133
123
114
107

# MATREX DUAL™ - SURFACE

DIRECT 70° BEAM ANGLE



WATTS
32
72
114
164

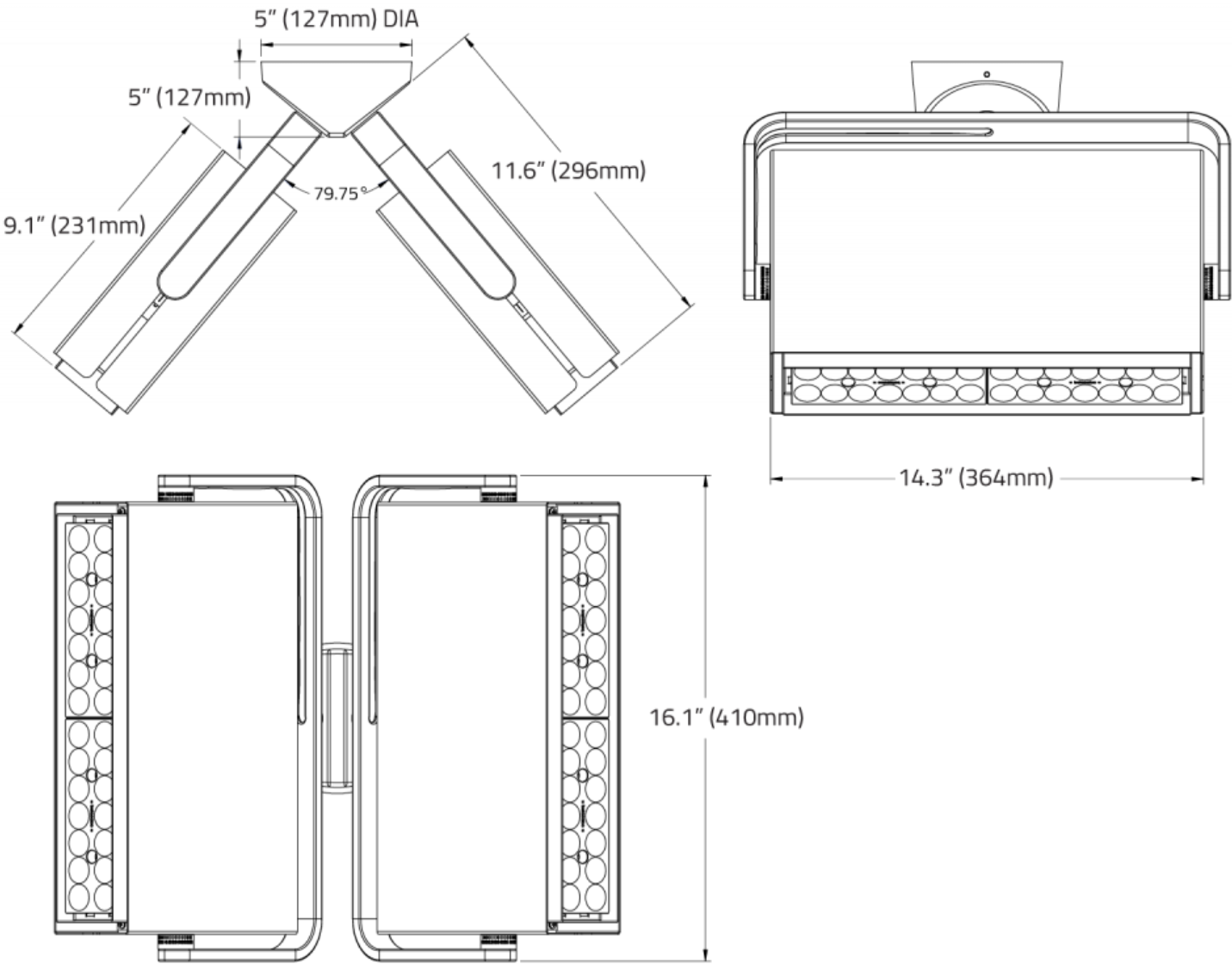
LUMENS
4400
8800
13200
17600

LPW
134
123
115
107

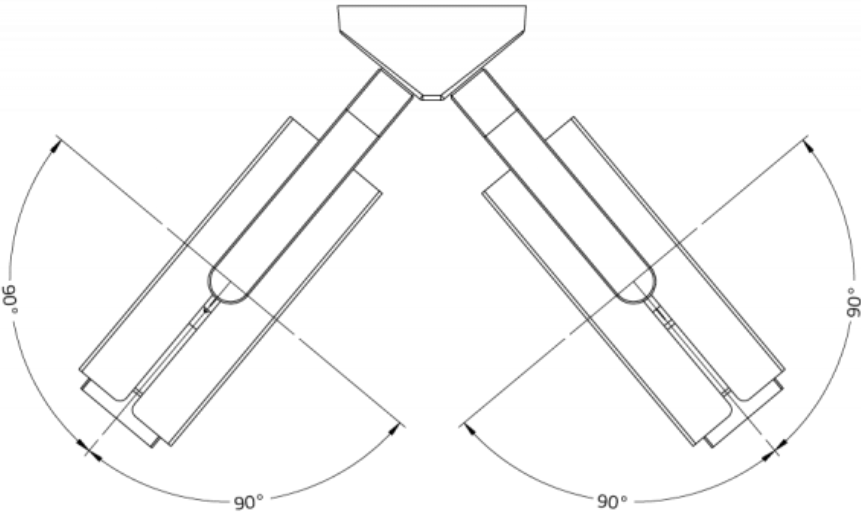


# MATREX DUAL™ - SURFACE

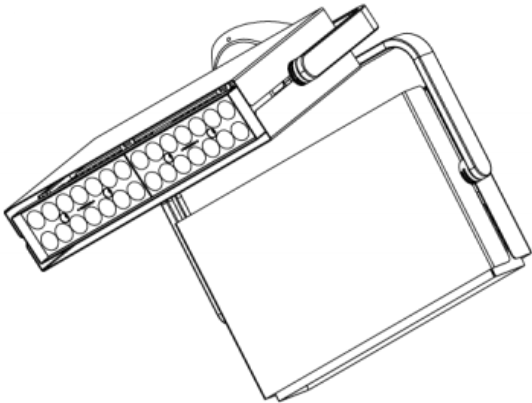
## DIMENSIONAL DIAGRAMS



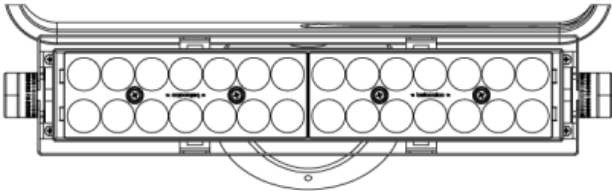
MATREX DUAL™ - SURFACE



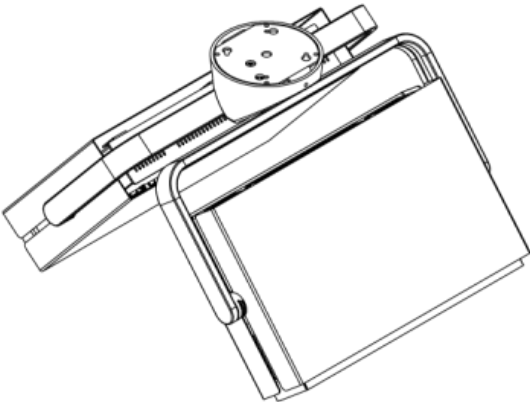
ISOMETRIC  
BOTTOM VIEW



FIXED  
YOKE

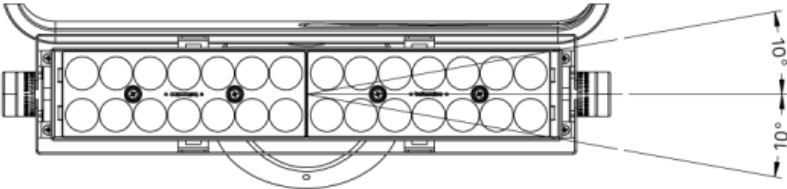


VIEW NORMAL TO YOKE



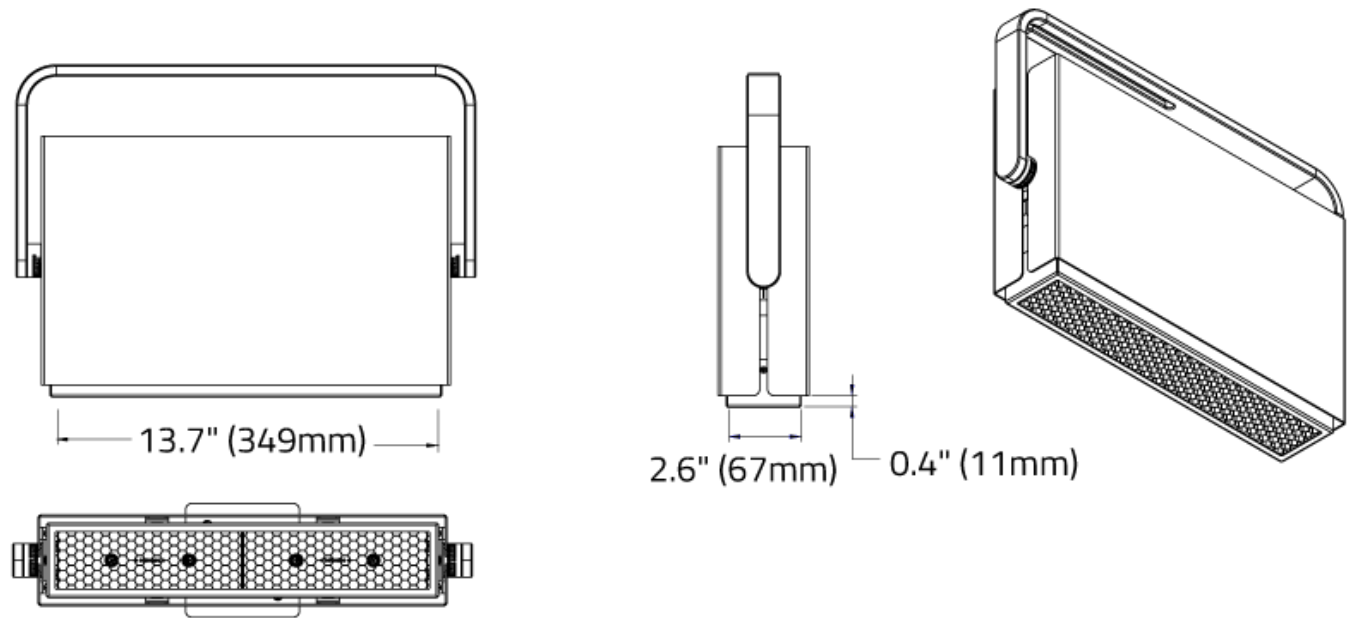
ISOMTERIC  
TOP VIEW

ROTATING  
YOKE

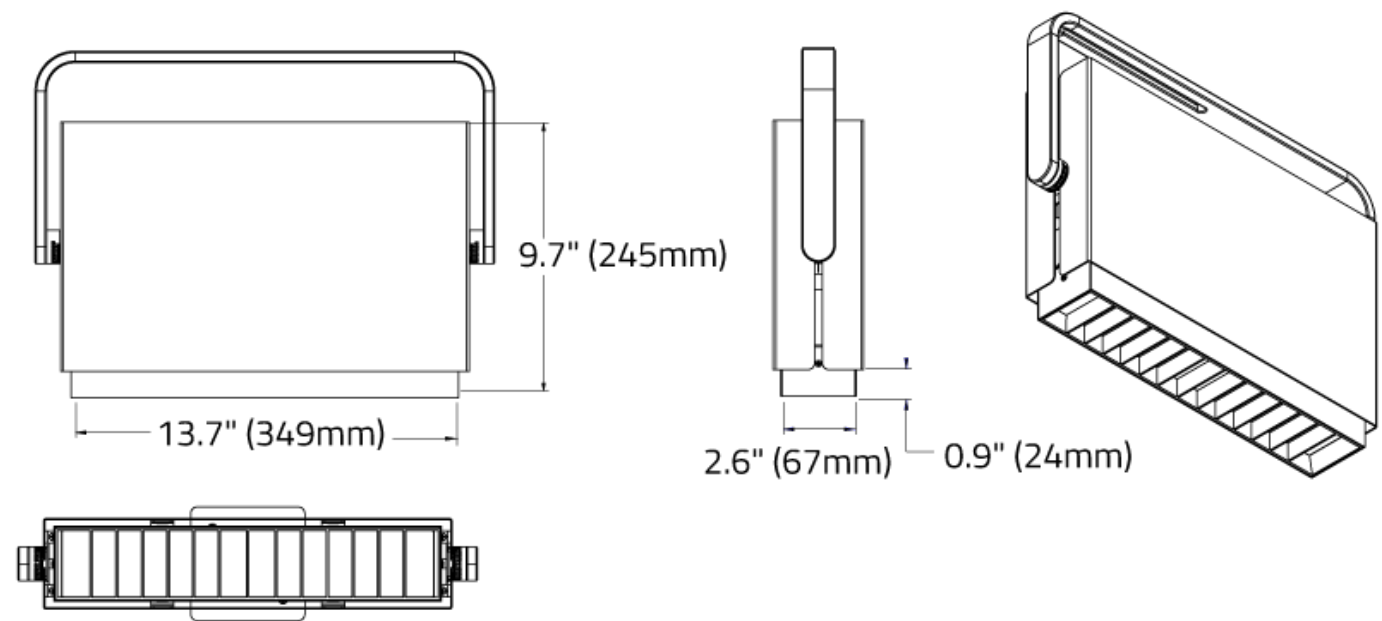


VIEW NORMAL TO YOKE

HEX CELL LOUVRE

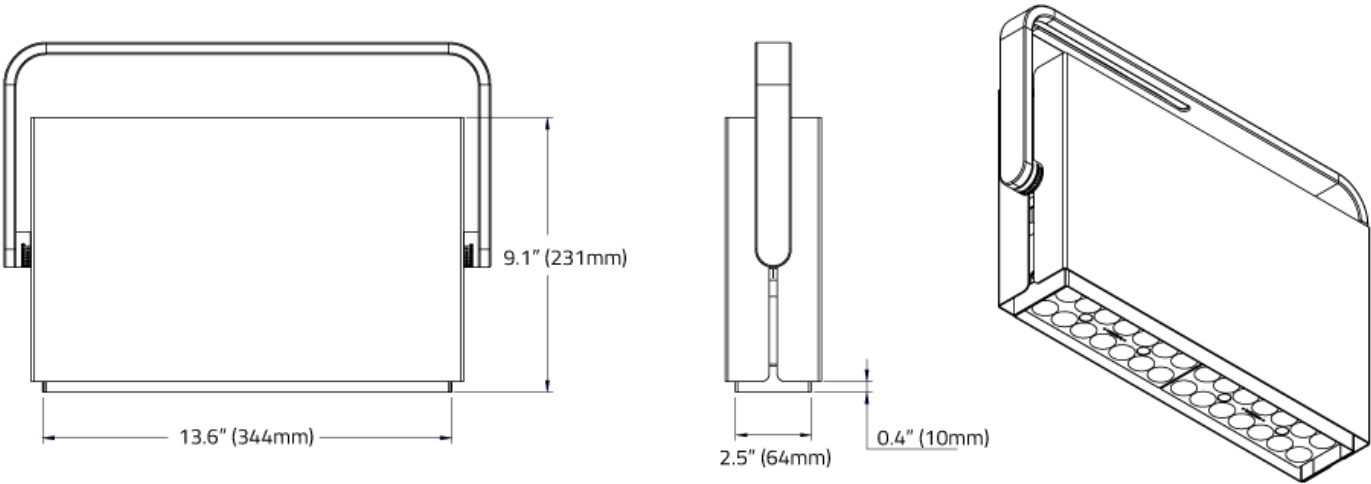


LADDER LOUVRE



SNOOTS

STANDARD SNOOT



LONG SNOOT

