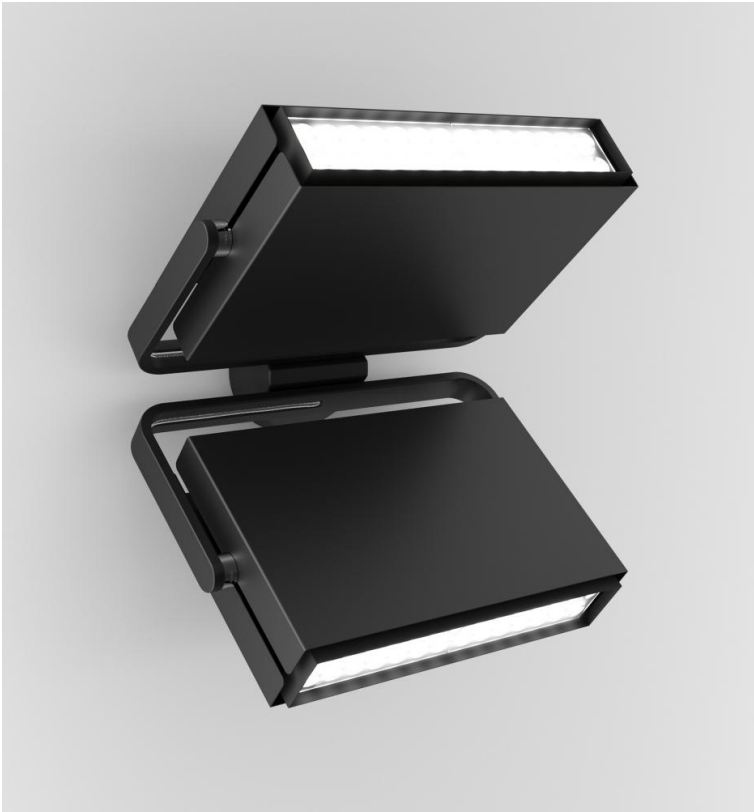
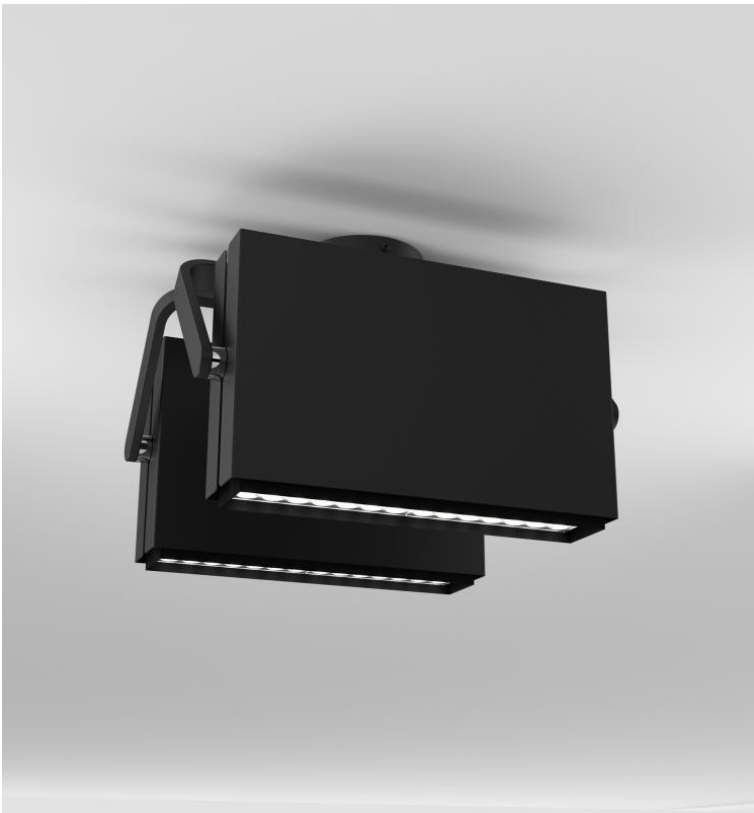


# MATREX DUAL™ - SURFACE

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. The revolutionary design delivers industry-leading performance from a significantly reduced form factor. The snoots are effective in controlling light spill and reducing glare.

## 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.

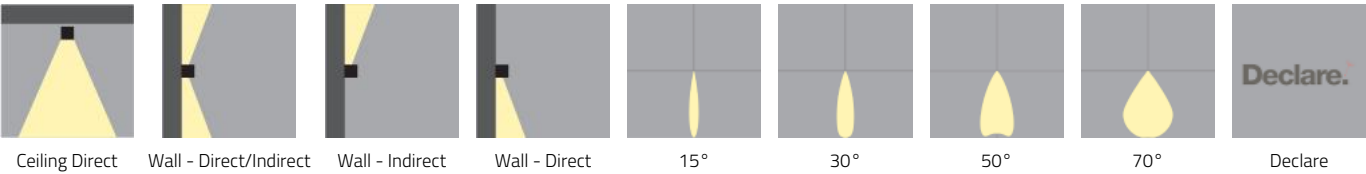
### Estimated L70 @25°C (77°F)

>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

<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

## K. SNOOTS AND LOUVERS (HEAD A)

<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>NT7</b> Hex Louver - Black <sup>2</sup>	<b>NT8</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> 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)

<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> 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

<b>E0</b> Emergency system not required	<b>E2</b> Emergency system - Remote <sup>1</sup>
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<sup>1</sup> Remote emergency in the lower module only. Not available with V3. Integral is not available.

## N. SEPARATE SWITCHING

<b>CS1</b> Single circuit	<b>CS2</b> Separate switching
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# MATREX DUAL™ - SURFACE


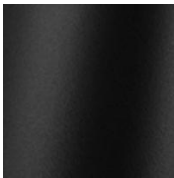



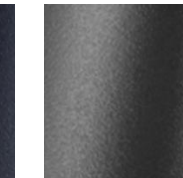
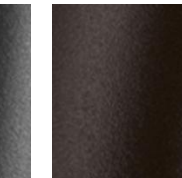
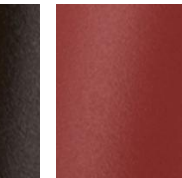
## TECHNICAL DATA

### 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

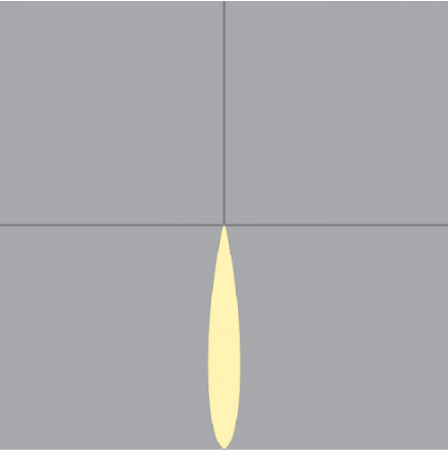
### APPROVALS



# MATREX DUAL™ - SURFACE

## PERFORMANCE DATA

### DIRECT 15° BEAM ANGLE

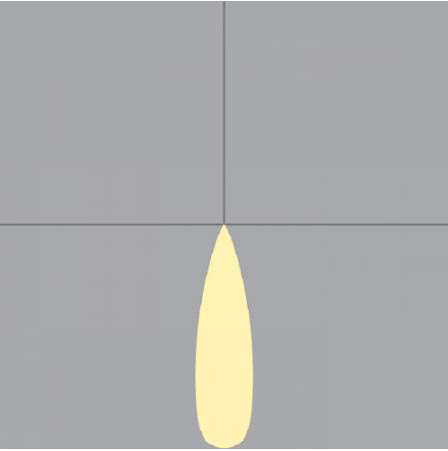


WATTS
32
72
114
164

LUMENS
4600
9000
13600
18000

LPW
138
127
118
110

### DIRECT 30° BEAM ANGLE

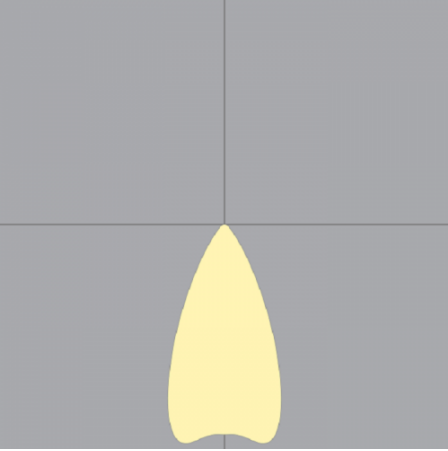


WATTS
32
72
114
164

LUMENS
4600
8800
13000
17400

LPW
140
130
120
112

### DIRECT 50° BEAM ANGLE



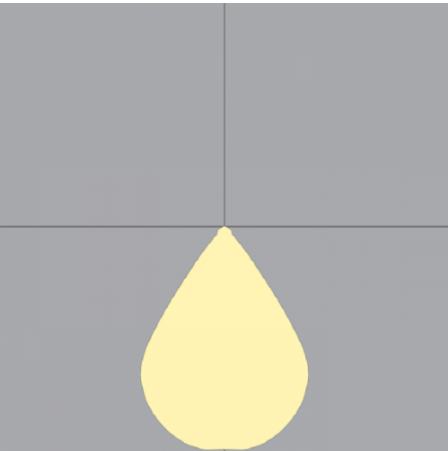
WATTS
32
72
114
164

LUMENS
4400
8800
13000
17400

LPW
133
123
114
107

# MATREX DUAL™ - SURFACE

DIRECT 70° BEAM ANGLE



WATTS
32
72
114
164

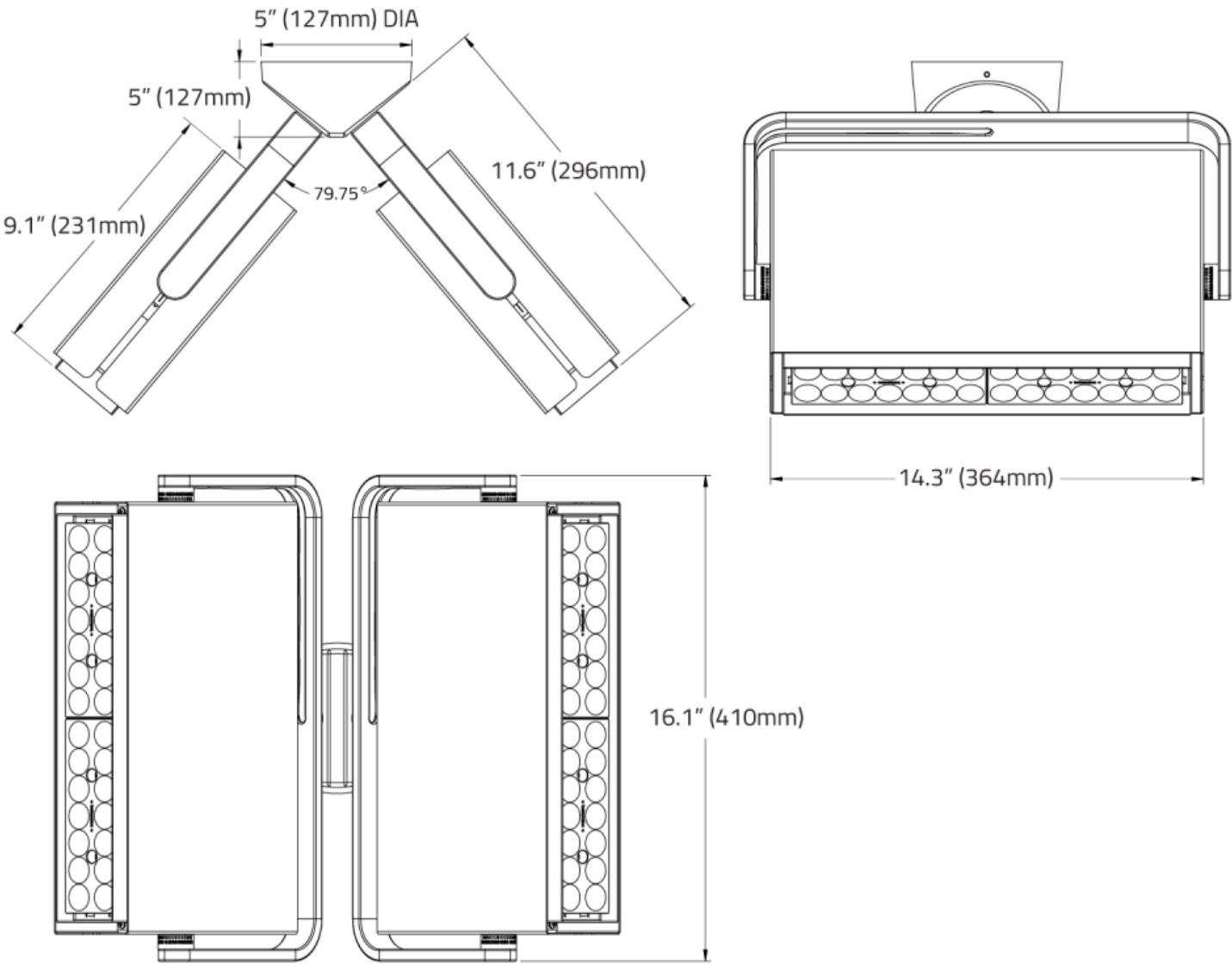
LUMENS
4400
8800
13200
17600

LPW
134
123
115
107

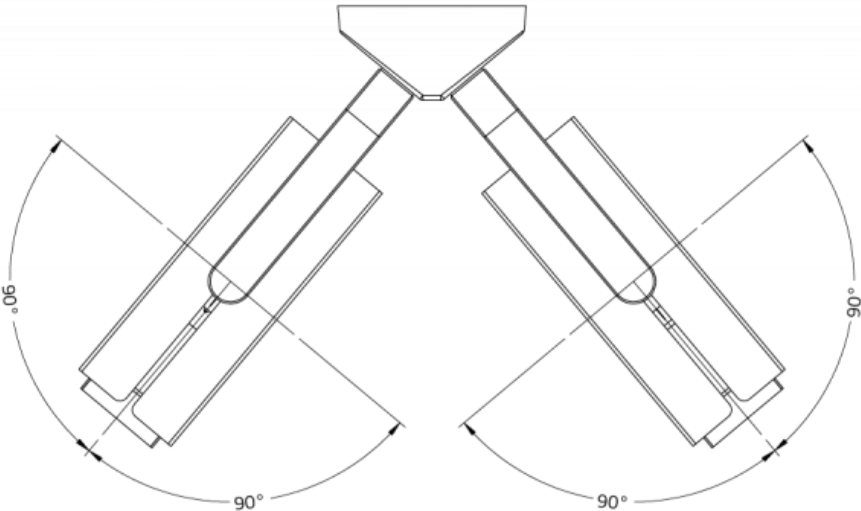


# MATREX DUAL™ - SURFACE

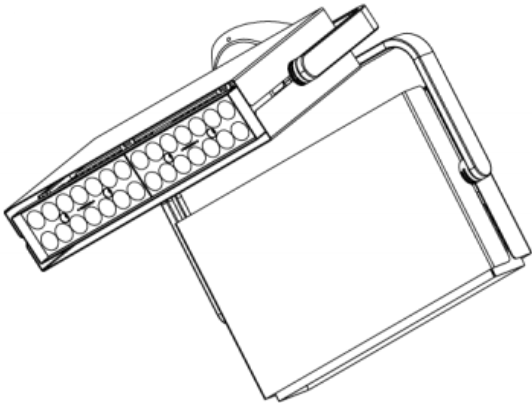
## DIMENSIONAL DIAGRAMS



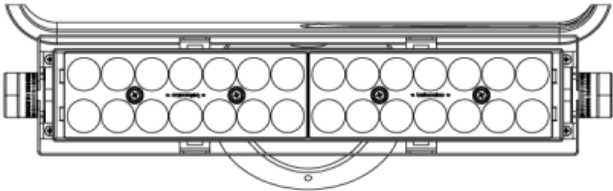
MATREX DUAL™ - SURFACE



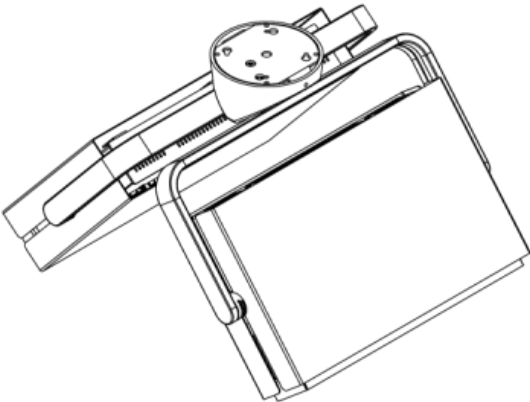
ISOMETRIC  
BOTTOM VIEW



FIXED  
YOKE

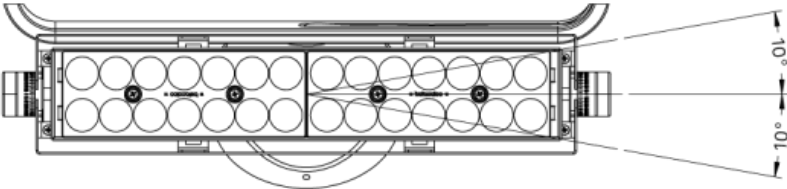


VIEW NORMAL TO YOKE



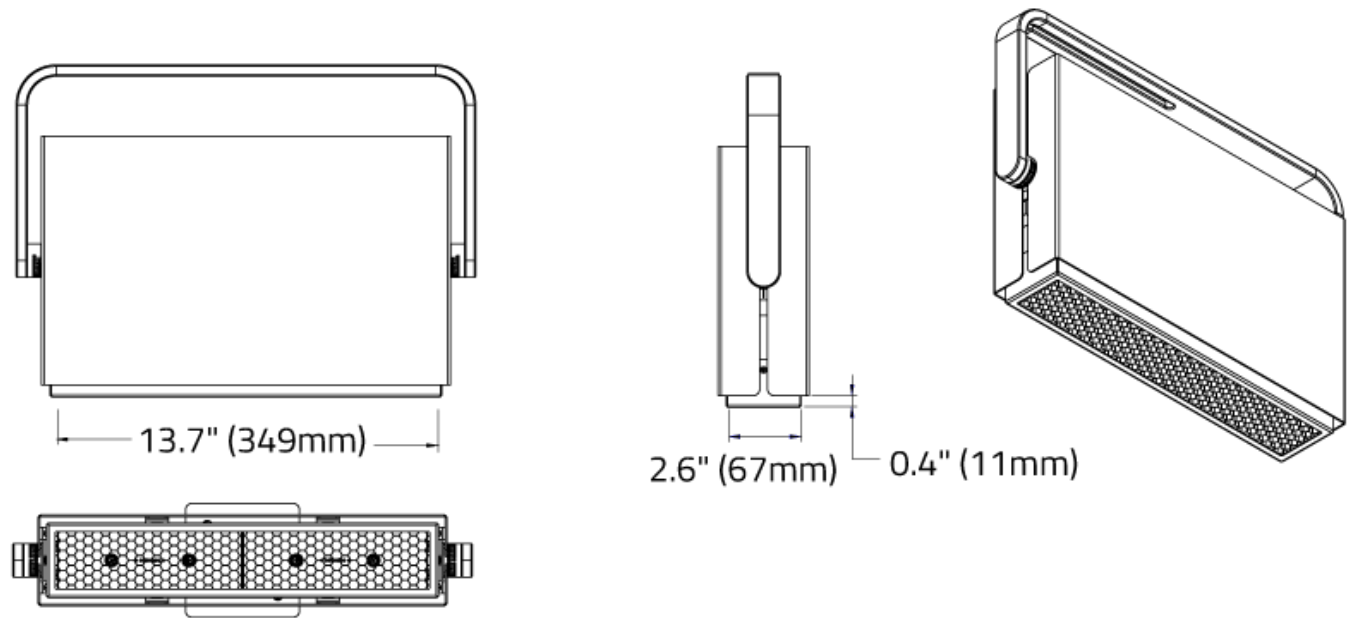
ISOMTERIC  
TOP VIEW

ROTATING  
YOKE

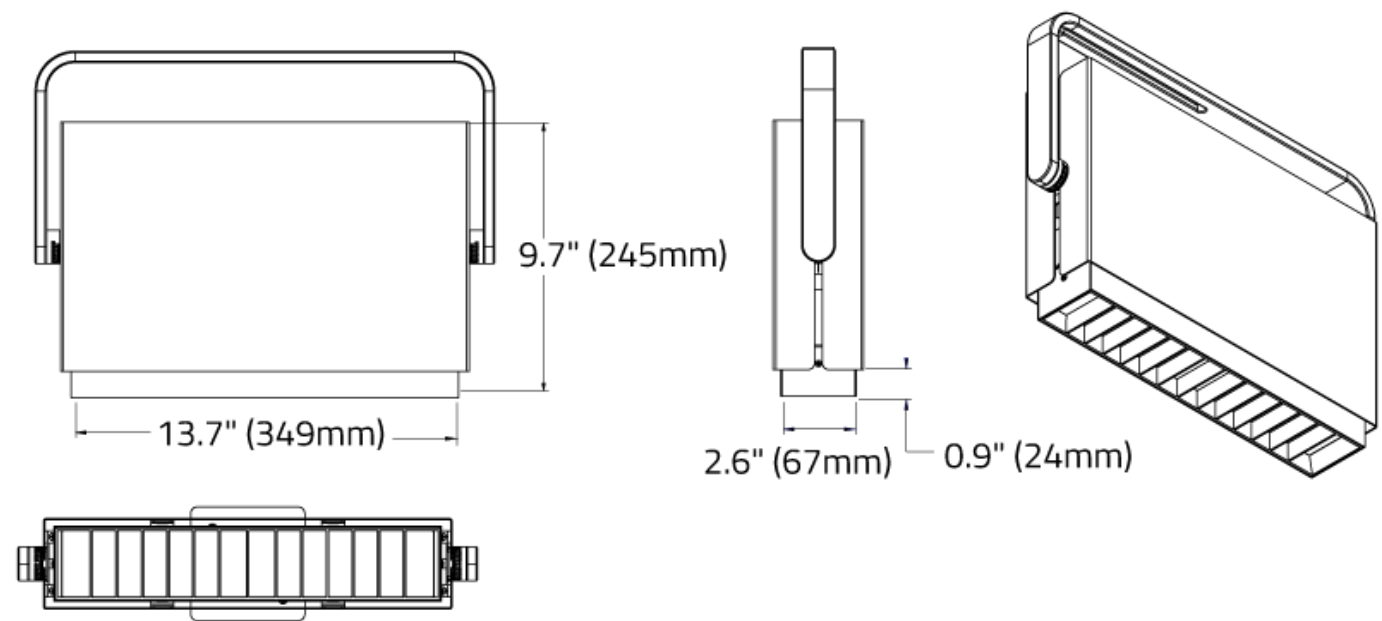


VIEW NORMAL TO YOKE

HEX CELL LOUVRE

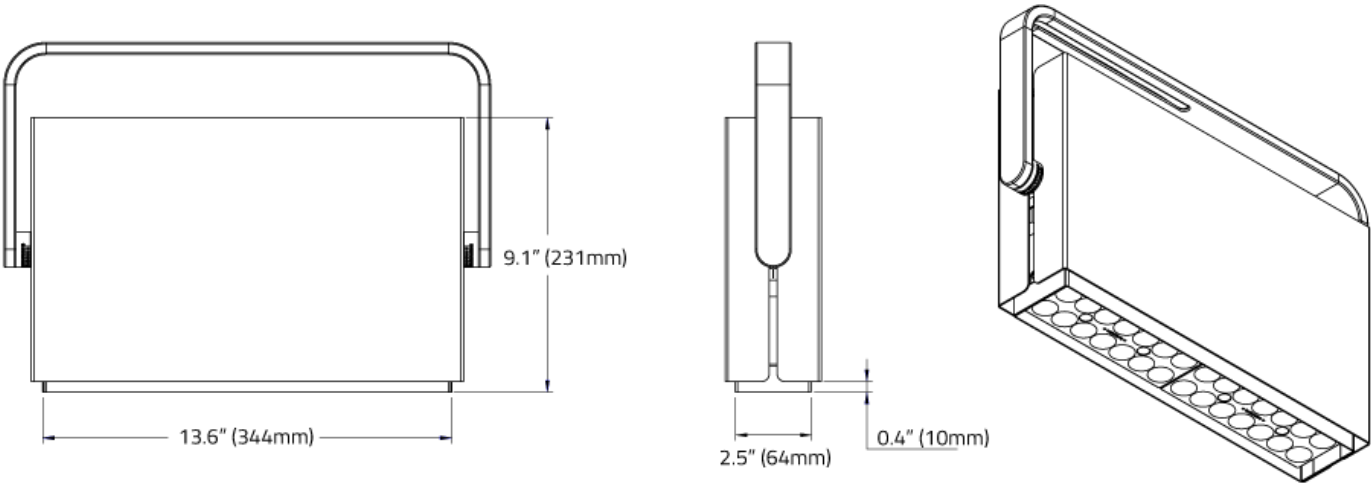


LADDER LOUVRE



SNOOTS

STANDARD SNOOT



LONG SNOOT

