

MATREX DUAL™ - SURFACE

Project Name:

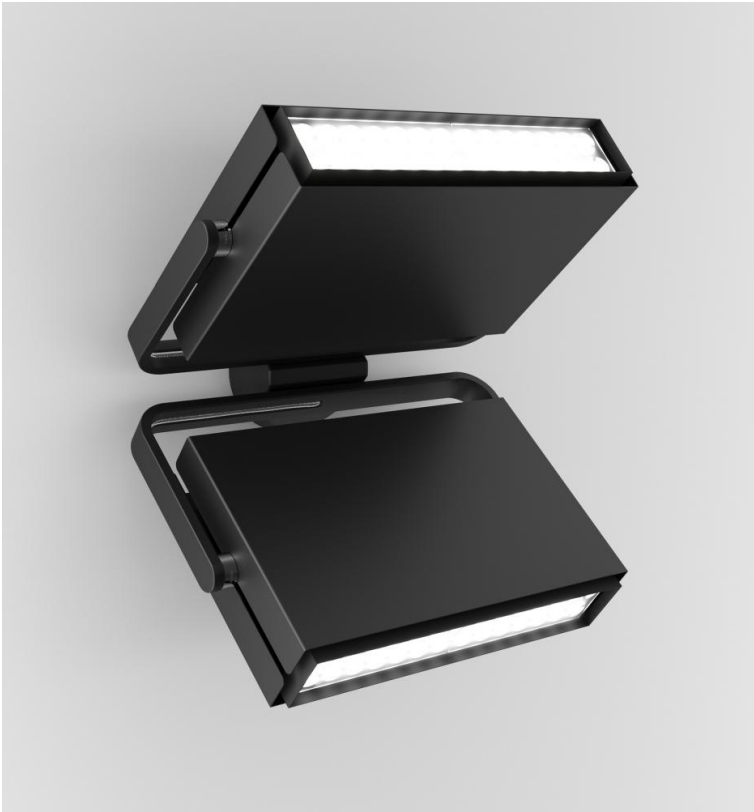
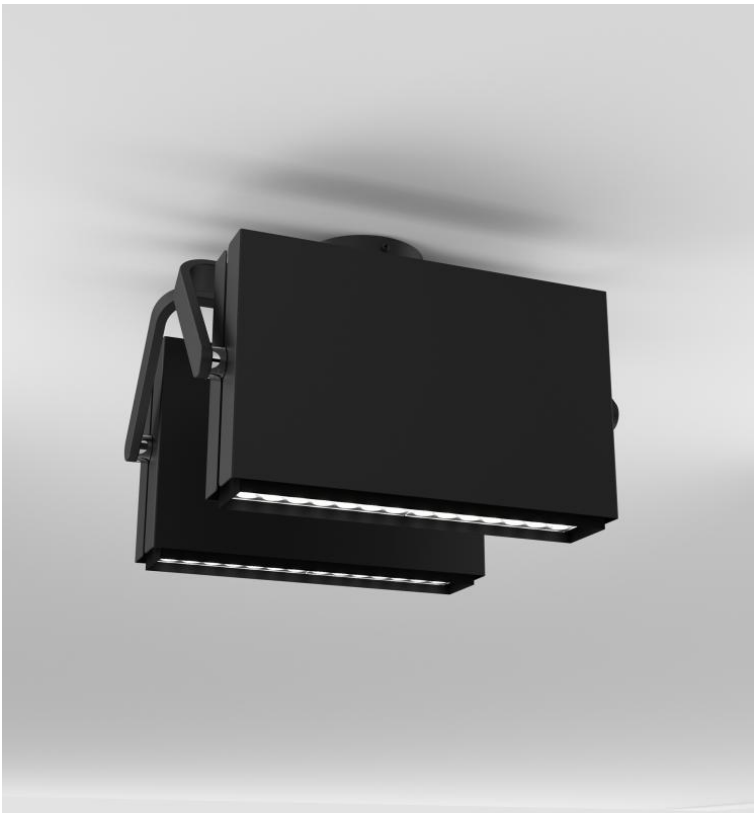
Fixture Type:

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.

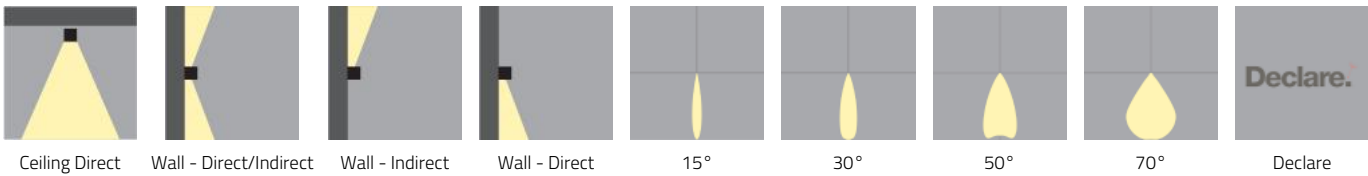
Estimated L70 @25°C (77°F)

>171,000 hrs.

Design

US Pat. No. D917,765.

MOUNTING & OPTICS



Ceiling Direct

Wall - Direct/Indirect

Wall - Indirect

Wall - Direct

15°

30°

50°

70°

Declare



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)

LMA0230 2300

LMA0460 4600

LMA0690 6900

LMA0920 9200

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

C. 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.

D. CRI

CR80 CRI 80+

CR90 CRI 90+

E. CCT

CTA27 2700K¹

CTA30 3000K

CTA35 3500K

CTA40 4000K

¹ 2700K is only available with CRI 80+

F. BEAM ANGLE (HEAD A)

BA15 15°

BA30 30°

BA50 50°

BA70 70°

BA80 50°x80°¹

¹ Available with NT8 Ladder Louver only.

G. BEAM ANGLE (HEAD B)

BB15 15°

BB30 30°

BB50 50°

BB70 70°

BB80 50°x80°¹

H. VOLTAGE

V1 120/277V

V2 240V¹

V3 347V²

¹ Not available in North America.

² Only available with DA01 dimming.

I. DIMMING

DA01 0-10V Dimming 1.0%

DA02 0-10V Dimming 0.1%¹

DA20 DALI Dimming 0.1%¹

DA21 DALI Dimming 1.0%¹

DA30 DSI/switchDim^{1 2}

¹ Not available with V3.

² Not available in North America.



MATREX DUAL™ - SURFACE

J. 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

K. SNOOTS AND LOUVERS (HEAD A)

NT1 Standard Snoot - Black ¹	NT2 Standard Snoot - White ¹	NT3 Long Snoot - Black ¹	NT4 Long Snoot - White ¹
NT7 Hex Louver - Black ²	NT8 Ladder Louver - Black ³		

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

¹ A snoot must be picked at time of order, if you are not ordering a louver.

² Not available with BA70 beam angle.

³ Available with BA80 beam angle and 2300 lumens only.

L. SNOOTS AND LOUVERS (HEAD B)

NU1 Standard Snoot - Black ¹	NU2 Standard Snoot - White ¹	NU3 Long Snoot - Black ¹	NU4 Long Snoot - White ¹
NU7 Hex Louver - Black ²	NU8 Ladder Louver - Black ³		

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

¹ A snoot must be picked at time of order, if you are not ordering a louver.

² Not available with BB70 beam angle.

³ Available with BB80 beam angle and 2300 lumens only.

M. EMERGENCY

E0 Emergency system not required	E2 Emergency system - Remote ¹
---	--

¹ 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

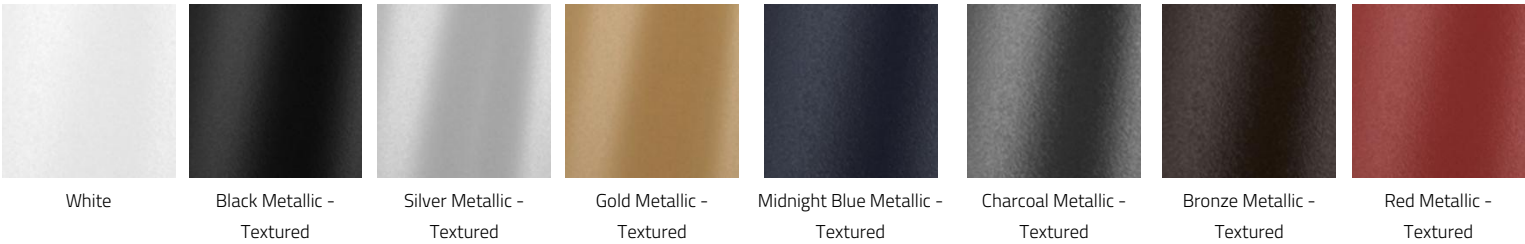
TECHNICAL DATA

LUMINAIRE

All data shown at max output and nominal values.

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

FINISH - FIXTURE



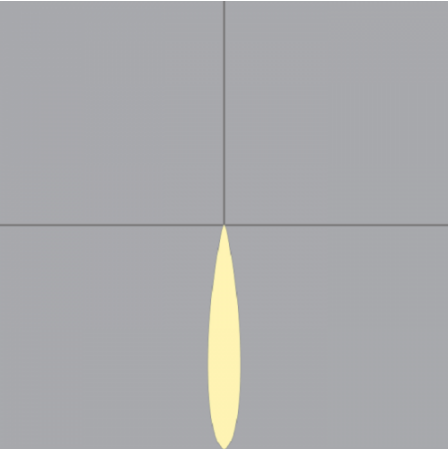
APPROVALS



MATREX DUAL™ - SURFACE

PERFORMANCE DATA

DIRECT 15° BEAM ANGLE

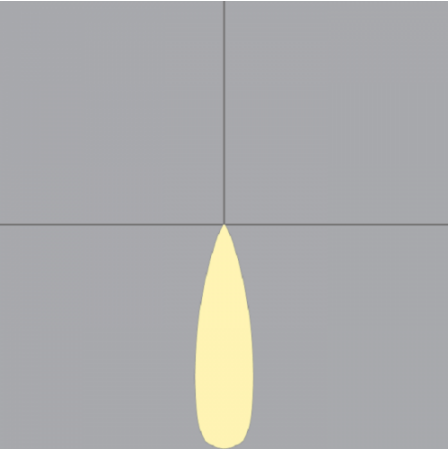


WATTS
32
72
114
164

LUMENS
4600
9000
13600
18000

LPW
138
127
118
110

DIRECT 30° BEAM ANGLE

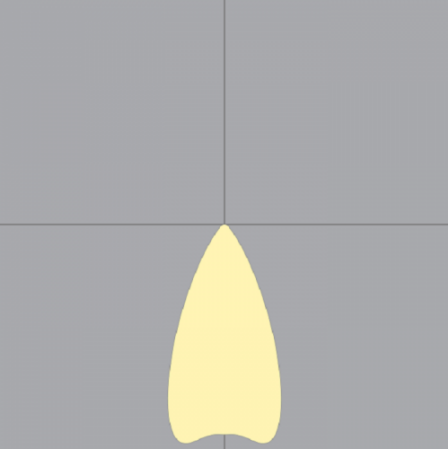


WATTS
32
72
114
164

LUMENS
4600
8800
13000
17400

LPW
140
130
120
112

DIRECT 50° BEAM ANGLE



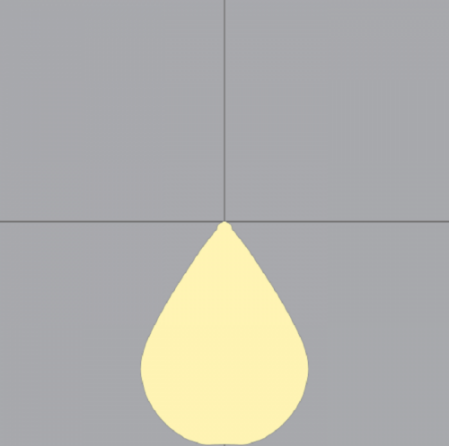
WATTS
32
72
114
164

LUMENS
4400
8800
13000
17400

LPW
133
123
114
107

MATREX DUAL™ - SURFACE

DIRECT 70° BEAM ANGLE



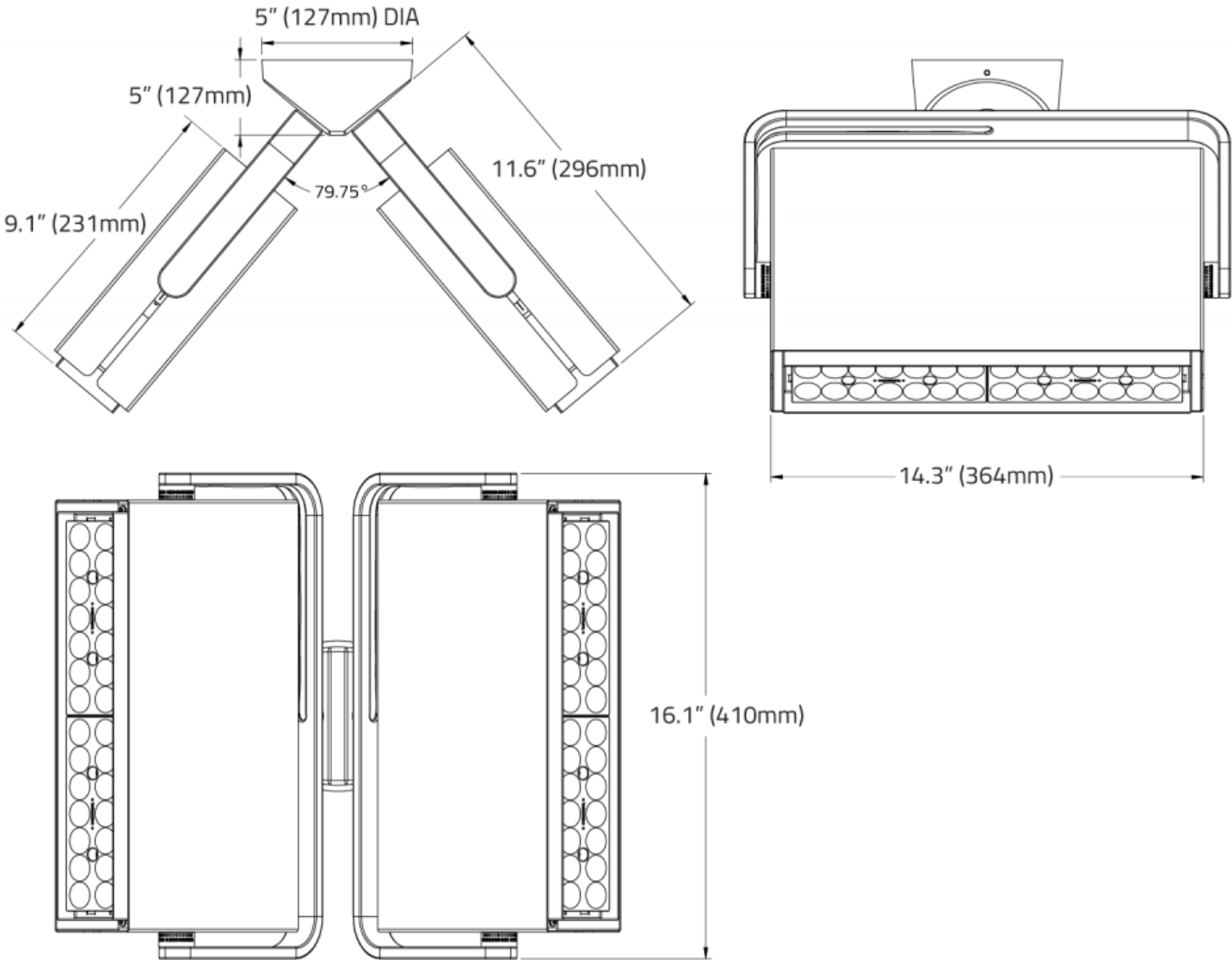
WATTS
32
72
114
164

LUMENS
4400
8800
13200
17600

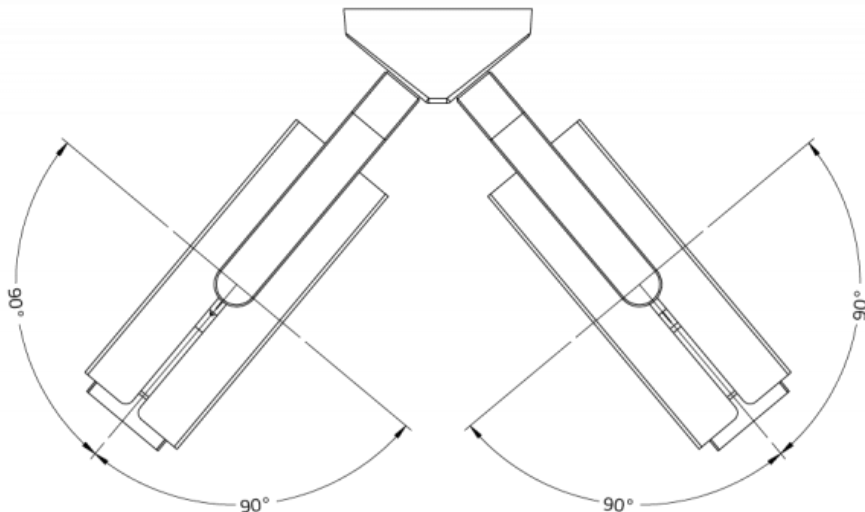
LPW
134
123
115
107

MATREX DUAL™ - SURFACE

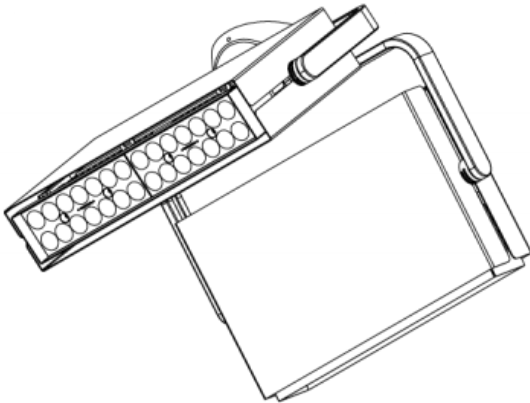
DIMENSIONAL DIAGRAMS



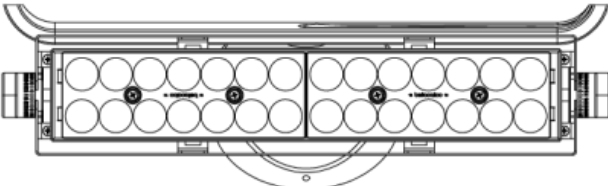
MATREX DUAL™ - SURFACE



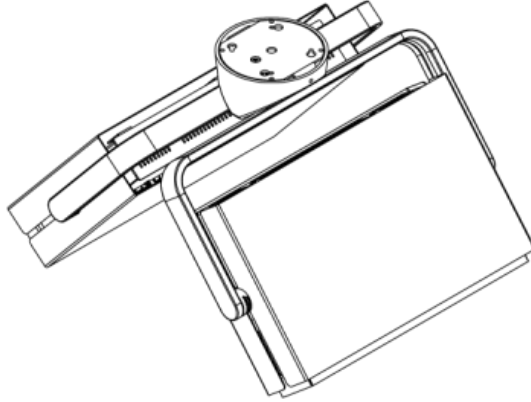
ISOMETRIC
BOTTOM VIEW



FIXED
YOKE

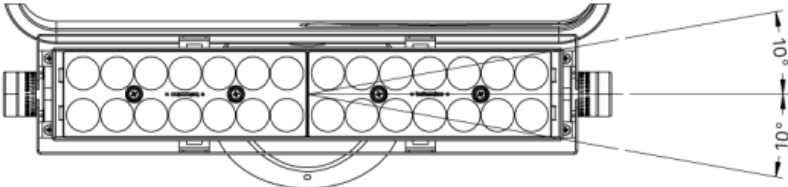


VIEW NORMAL TO YOKE



ISOMTERIC
TOP VIEW

ROTATING
YOKE

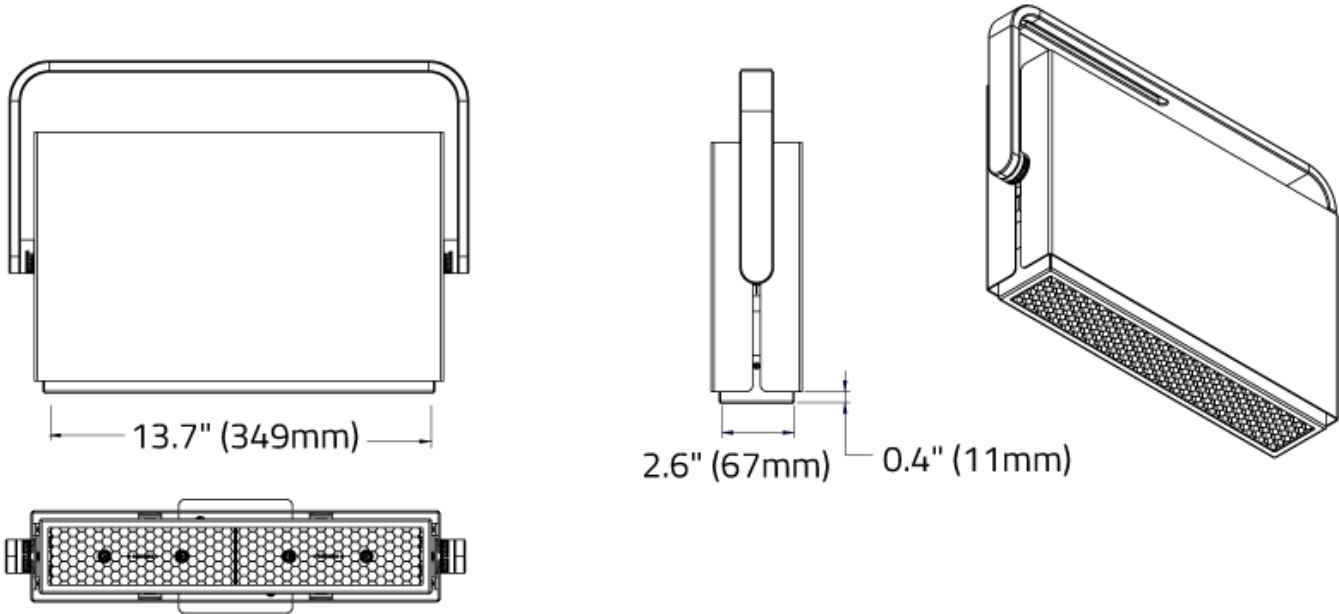


VIEW NORMAL TO YOKE

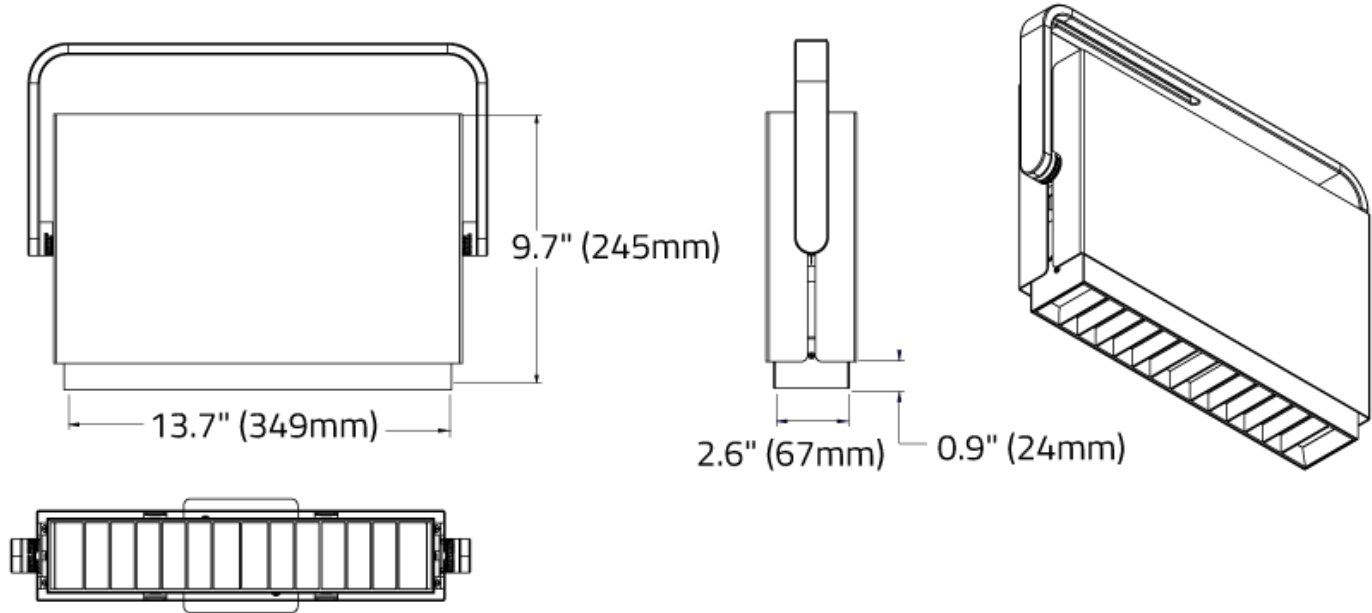
MATREX DUAL™ - SURFACE

LOUVRES

HEX CELL LOUVRE



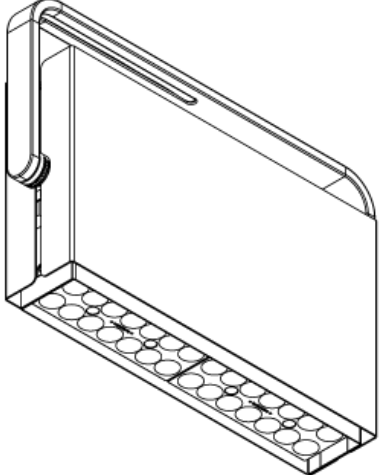
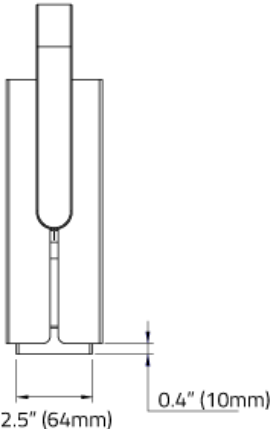
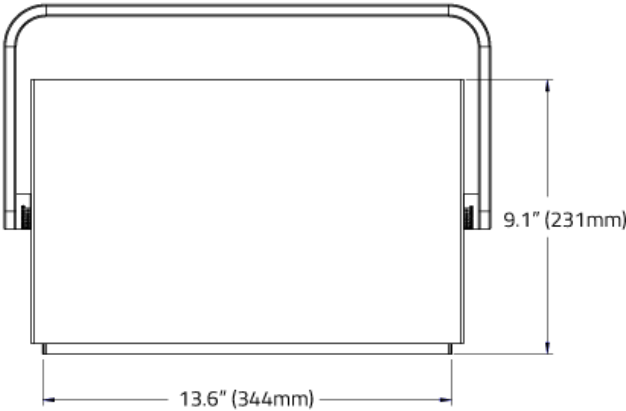
LADDER LOUVRE



MATREX DUAL™ - SURFACE

SNOOTS

STANDARD SNOOT



LONG SNOOT

