

# MATREX RD DUAL™ - SURFACE

Project Name:

Fixture Type:

Fixture Code:

Quantities:



MATREX RD DUAL™ - SURFACE



# MATREX RD 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 (North America only)

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

### Sensors

Consult factory regarding sensor compatibility.

### 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.

### Mechanical

Luminaires mount to a junction box (by others - North America only).

### Delivered lumens

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

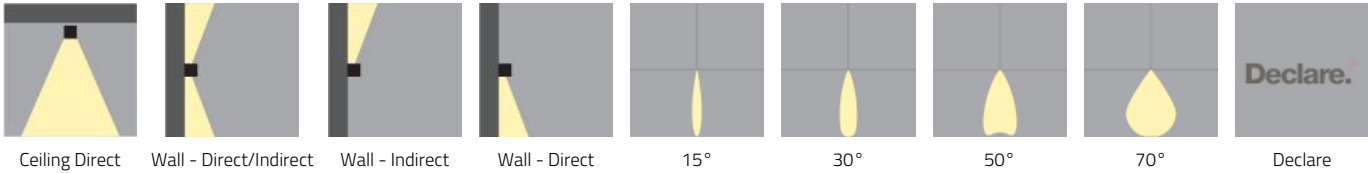
### Approvals

Damp Rated.

### Estimated L70 @25°C (77°F)

>171,000 hrs.

## MOUNTING & OPTICS



# MATREX RD DUAL™ - SURFACE

## HOW TO ORDER

### A. LUMINAIRE

**MRDF1P01** Direct, LEDs / Multi-Array Optics, 20100 lms      **MRDF1P02** Direct, COB / Reflector, 10050 lms

All data shown at max output and nominal values.

### B. LUMENS (HEAD A)

**LMA0250** 2500      **LMA0500** 5025      **LMA0750** 7500<sup>1</sup>      **LMA1000** 10050<sup>1</sup>

<sup>1</sup> Not available with COB / Reflector.

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

### C. LUMENS (HEAD B)

**LMB0250** 2500      **LMB0500** 5025      **LMB0750** 7500<sup>1</sup>      **LMB1000** 10050<sup>1</sup>

<sup>1</sup> Not available with COB / Reflector.

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

### D. CRI

**CR80** CRI 80+      **CR90** CRI 90+<sup>1</sup>

### E. CCT

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

<sup>1</sup> 2700K is only available with CRI 80+ and LEDs / Multi-Array Optics.

### F. BEAM ANGLE (HEAD A)

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

<sup>1</sup> 15°, 30°, and 70° are not available with COB / Reflector.

### G. BEAM ANGLE (HEAD B)

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

<sup>1</sup> 15°, 30°, and 70° are not available with COB / Reflector.

### H. 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.

### I. 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.

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## 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 LOUVER (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 2</sup>	<b>NT4</b> Long Snoot - White <sup>1 2</sup>
<b>NT5</b> Half Snoot - Black <sup>1 2</sup>	<b>NT6</b> Half Snoot - White <sup>1 2</sup>	<b>NT9</b> Hex Louver - Black <sup>2 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.

For COB/Reflector, the bezel finish matches the snoot finish.

<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 COB / Reflector.

<sup>3</sup> Not available with BA70 beam angle.

## L. SNOOTS AND LOUVER (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 2</sup>	<b>NU4</b> Long Snoot - White <sup>1 2</sup>
<b>NU5</b> Half Snoot - Black <sup>1 2</sup>	<b>NU6</b> Half Snoot - White <sup>1 2</sup>	<b>NU9</b> Hex Louver - Black <sup>2 3</sup>	

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

For COB/Reflector, the bezel finish matches the snoot finish.

<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 COB / Reflector.

<sup>3</sup> Not available with BB70 beam angle.

## 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 RD DUAL™ - SURFACE

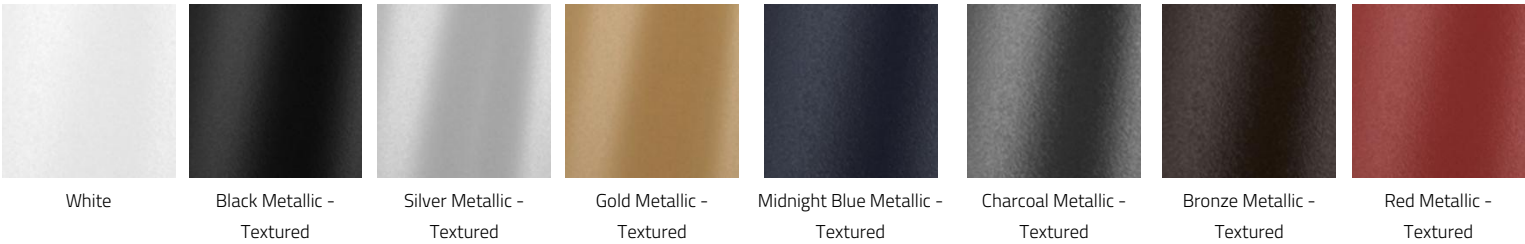
## TECHNICAL DATA

### LUMINAIRE

All data shown at max output and nominal values.

Code	MRDF1P01	MRDF1P02
Light Direction	Direct	Direct
Wattage	186W	88W
Delivered lms	20100	10050
LPW	124	111

## FINISH - FIXTURE



## APPROVALS

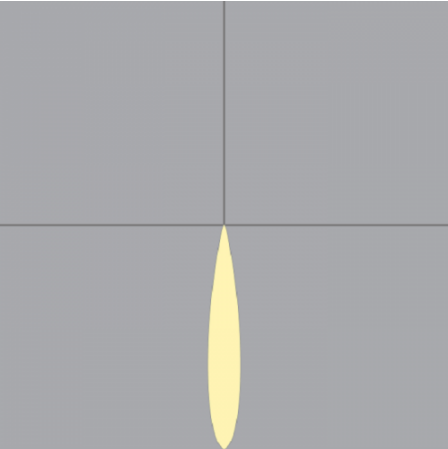




# MATREX RD DUAL™ - SURFACE

## PERFORMANCE DATA

### DIRECT 15° BEAM ANGLE

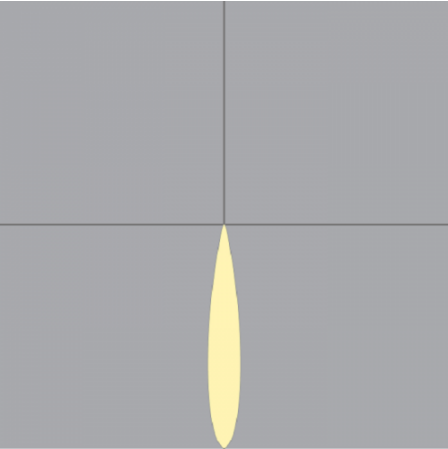


WATTS
38
82
130
186

LUMENS
5000
9800
14800
20000

LPW
132
121
114
105

### DIRECT 30° BEAM ANGLE

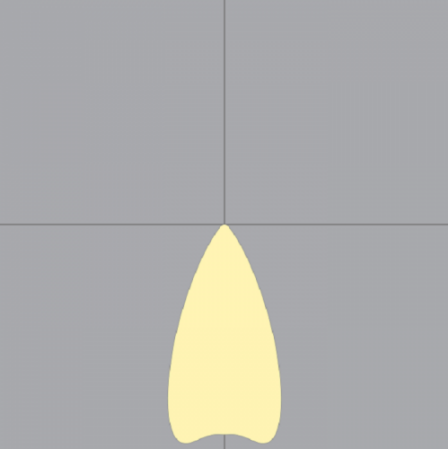


WATTS
38
82
130
186

LUMENS
5000
10050
15000
20100

LPW
135
124
116
108

### DIRECT 50° BEAM ANGLE



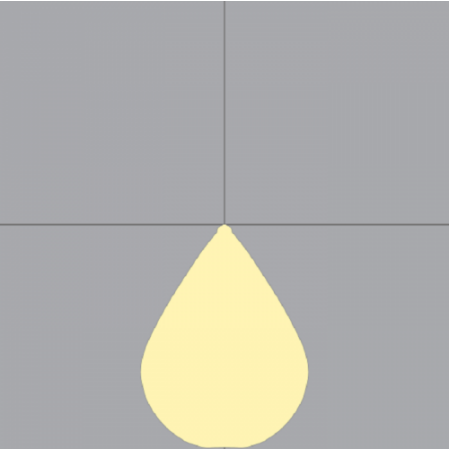
WATTS
38
82
130
186

LUMENS
4800
9600
14200
19000

LPW
128
117
110
102

# MATREX RD DUAL™ - SURFACE

DIRECT 70° BEAM ANGLE



WATTS
38
82
130
186

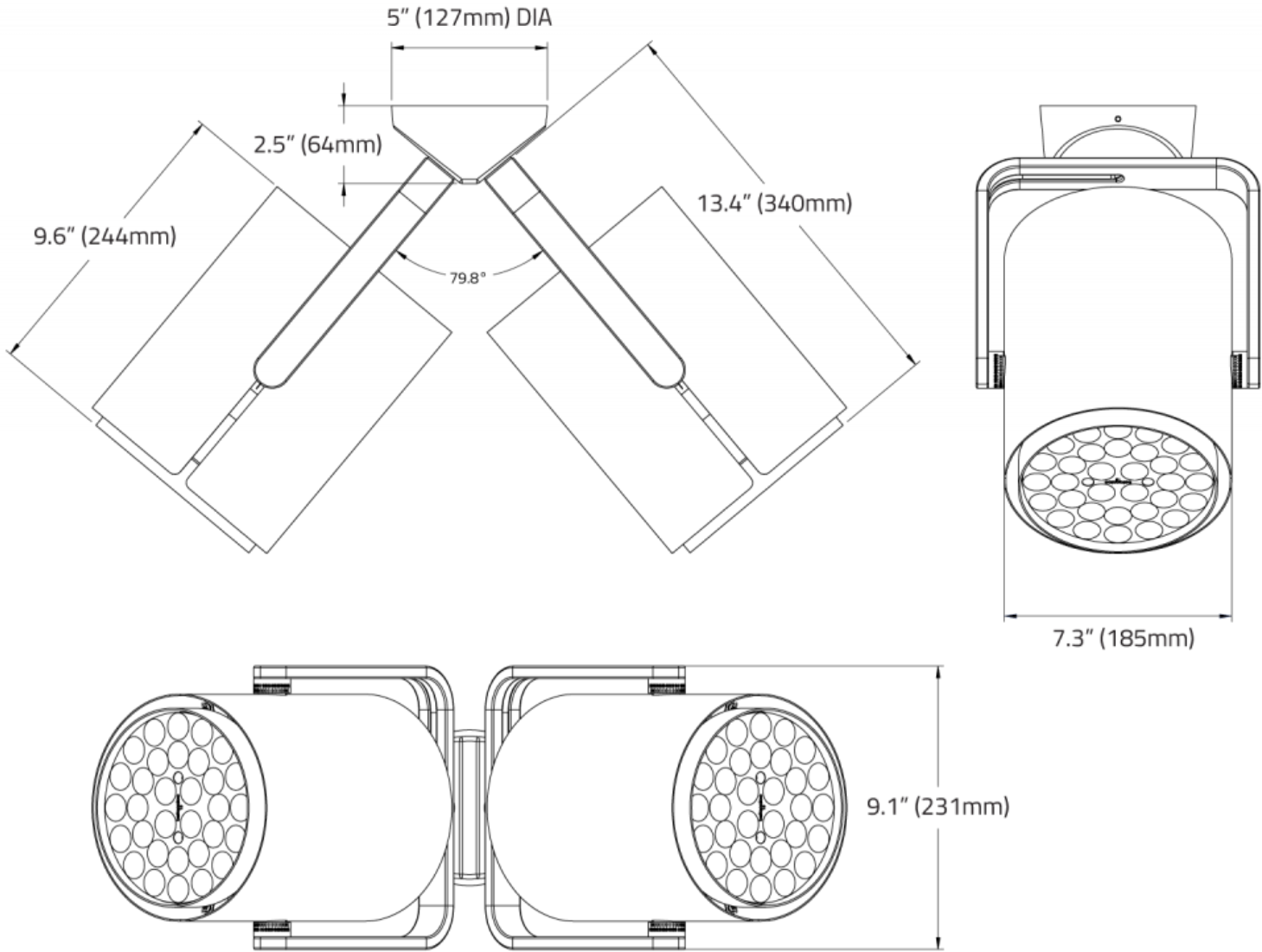
LUMENS
4800
9600
14400
19200

LPW
129
118
111
103

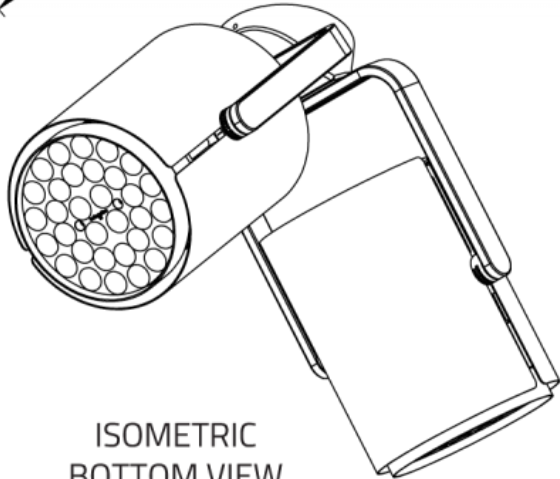
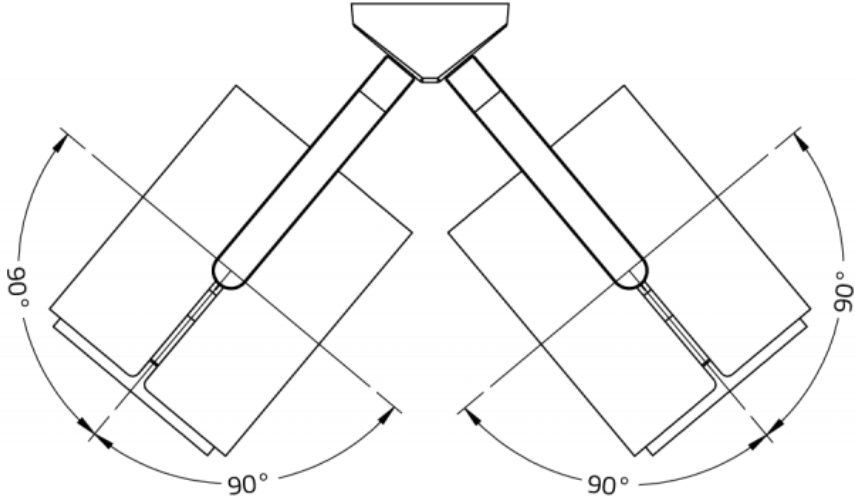


# MATREX RD DUAL™ - SURFACE

## DIMENSIONAL DIAGRAMS

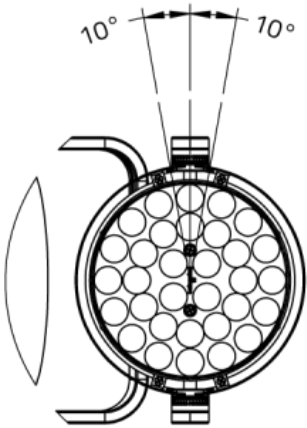


**MATREX RD DUAL™ - SURFACE**

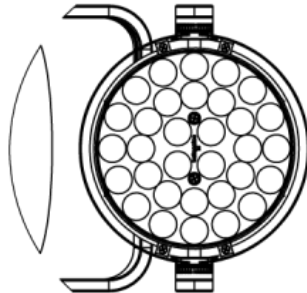


ROTATING YOKE

ISOMETRIC  
BOTTOM VIEW

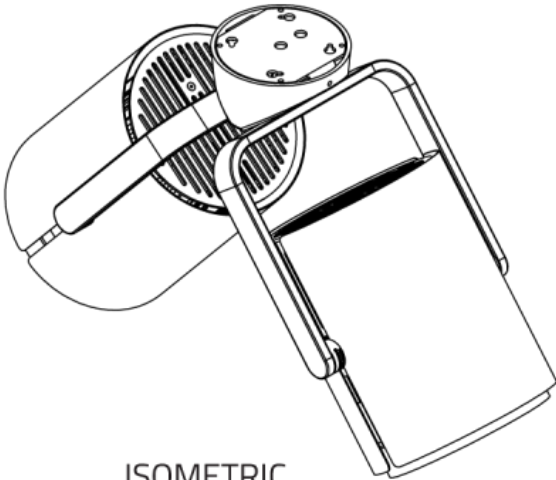


VIEW M=NORMAL TO YOKE



FIXED YOKE

VIEW NORMAL TO YOKE

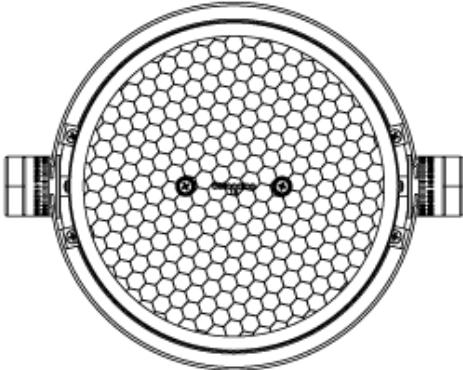
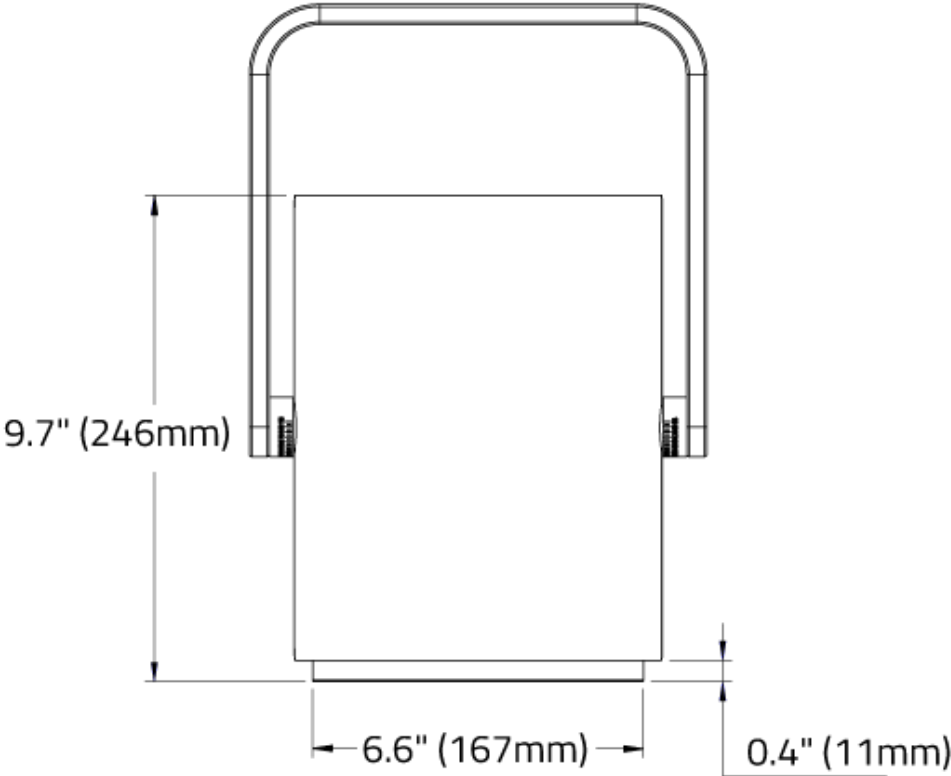


ISOMETRIC  
TOP VIEW

# MATREX RD DUAL™ - SURFACE

LOUVRE

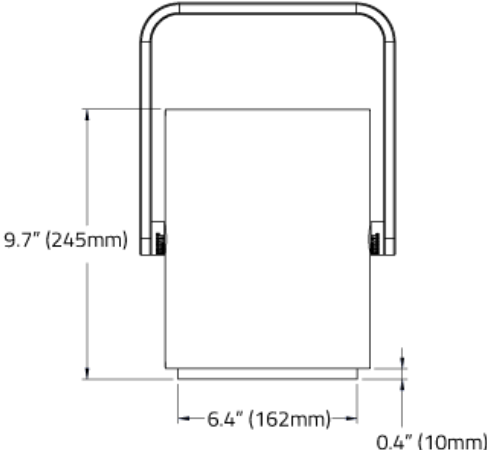
## HEX CELL LOUVRE



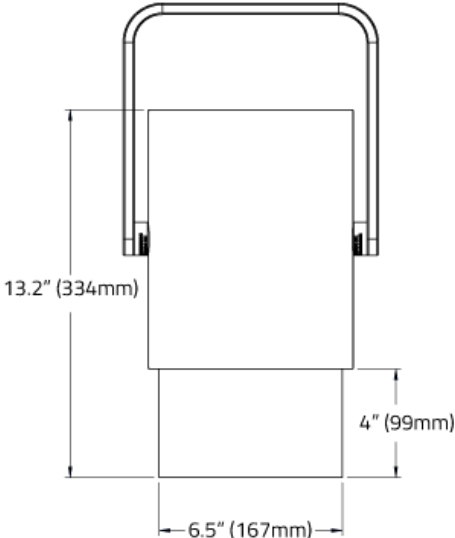
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## SNOOTS

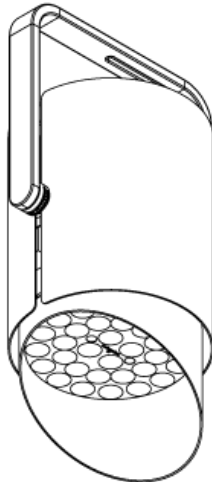
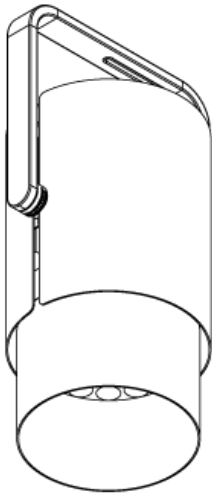
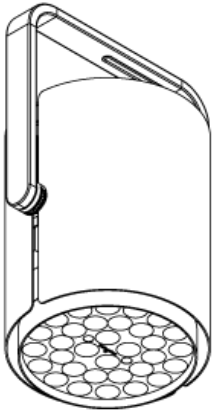
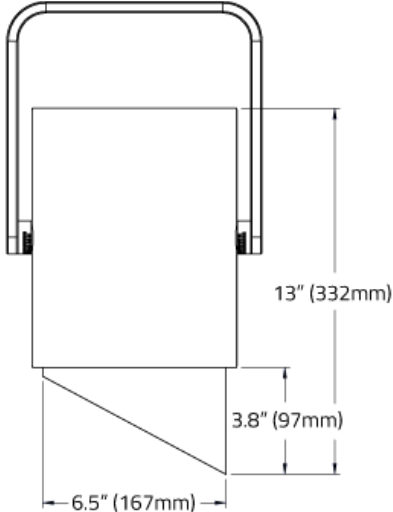
### STANDARD SNOOT



### LONG SNOOT



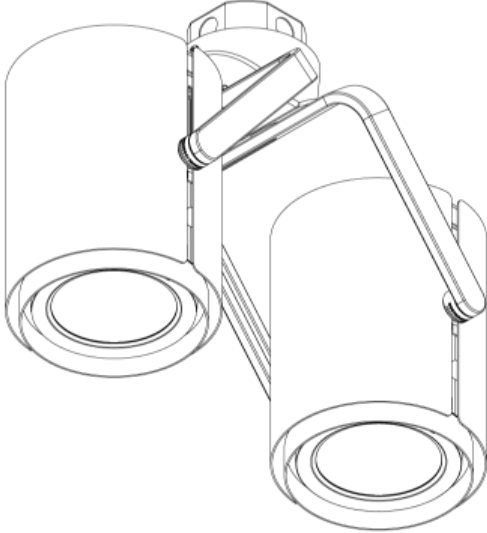
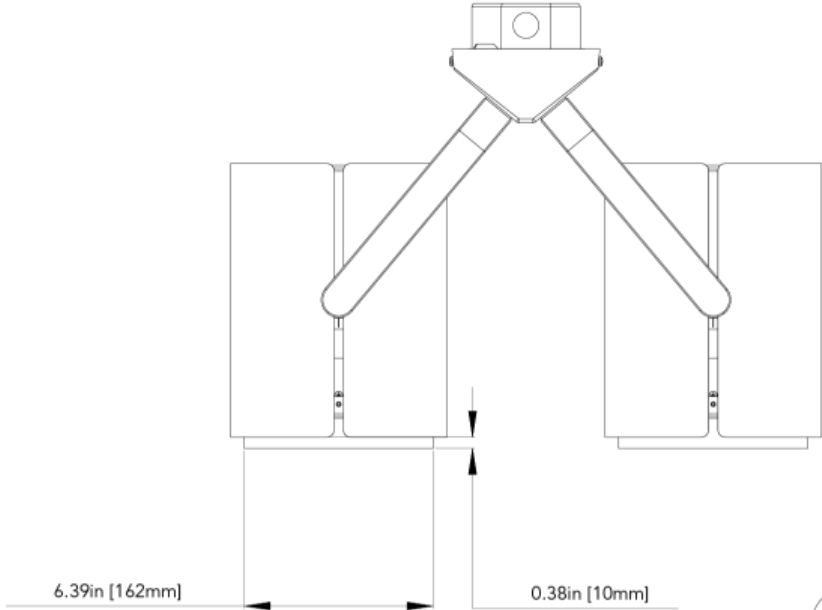
### HALF SNOOT



# MATREX RD DUAL™ - SURFACE

Matrex Round Dual Surface - COB

## Matrex RD Dual Surface- COB



Isometric View

