

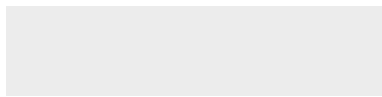


# MATREX RD DUAL™

## FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

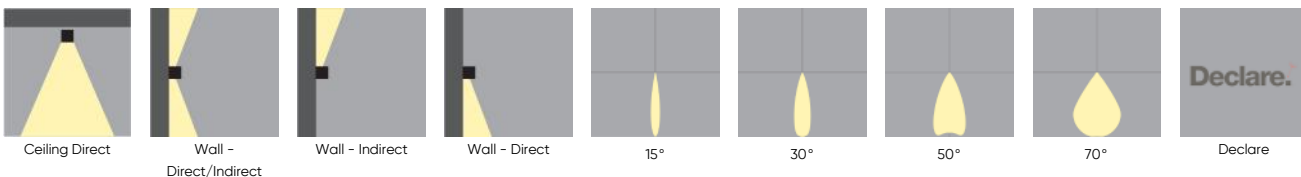


QUANTITIES

### 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 (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.

## 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.

## 5 DESIGN OPTIONS

### FINISH - FIXTURE



## 6 HOW TO ORDER

### 1. LUMINAIRE

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

All data shown at max output and nominal values.

## 2. 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.

## 3. 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.

## 4. CRI

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

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

## 5. 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.

## 6. 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.

## 7. 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.

## 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 LOUVER (HEAD A)

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

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

NT3 Long Snoot – Black <sup>1 2</sup>

NT4 Long Snoot – White <sup>1 2</sup>

NT5 Half Snoot – Black <sup>1 2</sup>

NT6 Half Snoot – White <sup>1 2</sup>

NT9 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> Snoot must be picked at time of order, if not ordering a louver. <sup>2</sup> Unavailable with COB / Reflector. <sup>3</sup> Unavailable with BA70 beam angle.

## 12. SNOOTS AND LOUVER (HEAD B)

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

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

NU3 Long Snoot – Black <sup>1 2</sup>

NU4 Long Snoot – White <sup>1 2</sup>

NU5 Half Snoot – Black <sup>1 2</sup>

NU6 Half Snoot – White <sup>1 2</sup>

NU9 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> Snoot must be picked at time of order, if not ordering a louver. <sup>2</sup> Unavailable with COB / Reflector. <sup>3</sup> Unavailable with BB70 beam angle.

### 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.

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

## 8 PERFORMANCE DATA

#### DIRECT 15° BEAM ANGLE

#### WATTS

#### LUMENS

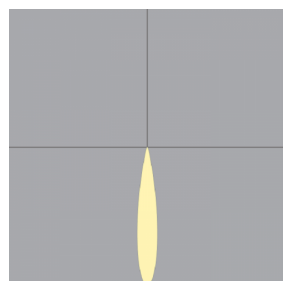
#### LPW

#### DIRECT 30° BEAM ANGLE

#### WATTS

#### LUMENS

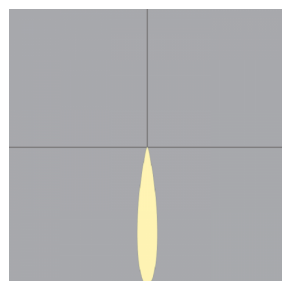
#### LPW



38  
82  
130  
186

5000  
9800  
14800  
20000

132  
121  
114  
105



38  
82  
130  
186

5000  
10050  
15000  
20100

135  
124  
116  
108

#### DIRECT 50° BEAM ANGLE

#### WATTS

#### LUMENS

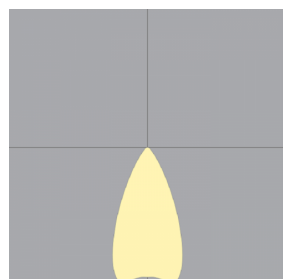
#### LPW

#### DIRECT 70° BEAM ANGLE

#### WATTS

#### LUMENS

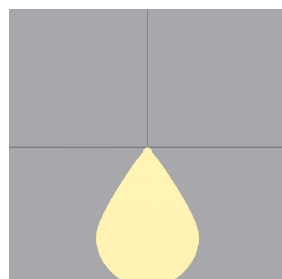
#### LPW



38  
82  
130  
186

4800  
9600  
14200  
19000

128  
117  
110  
102

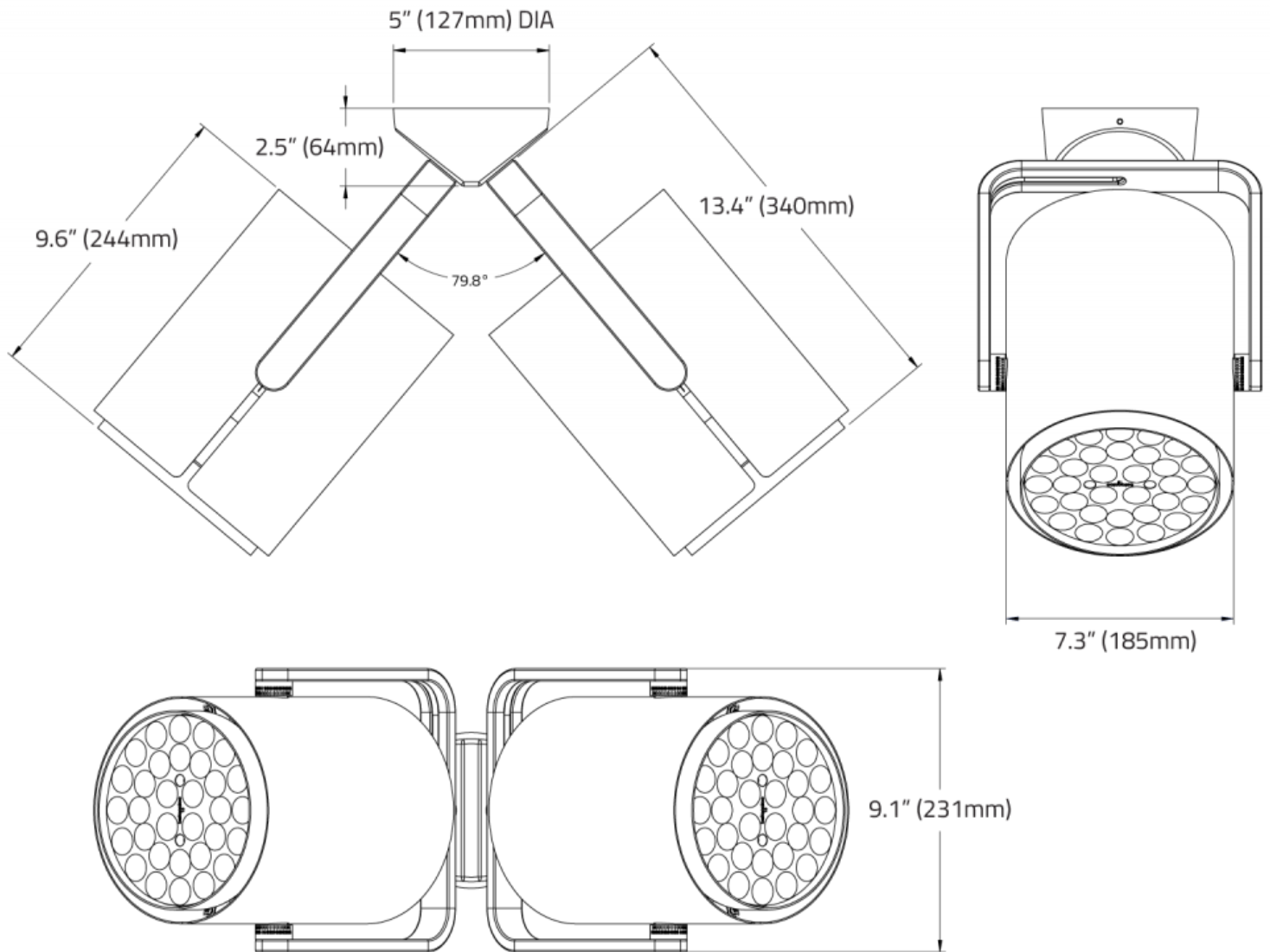


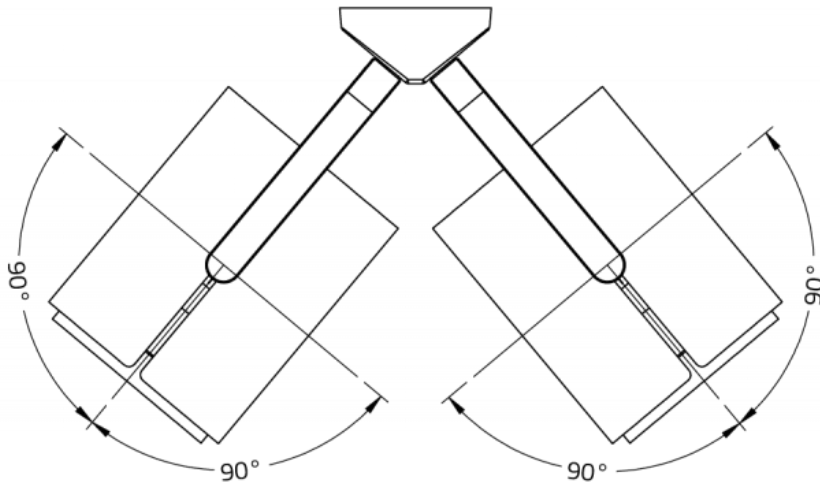
38  
82  
130  
186

4800  
9600  
14400  
19200

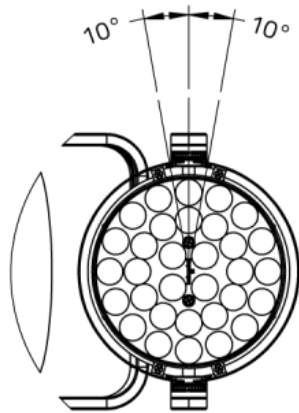
129  
118  
111  
103

9 DIMENSIONAL DIAGRAMS





ROTATING YOKE

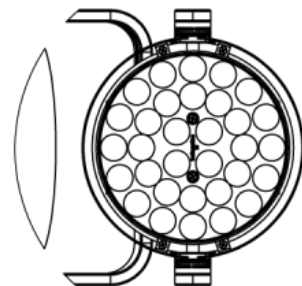


VIEW M=NORMAL TO YOKE

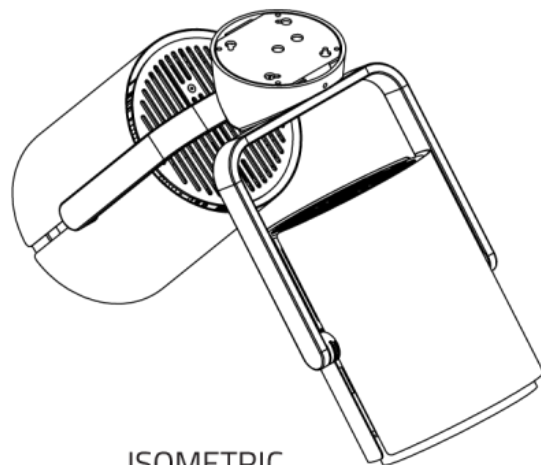


ISOMETRIC  
BOTTOM VIEW

FIXED YOKE



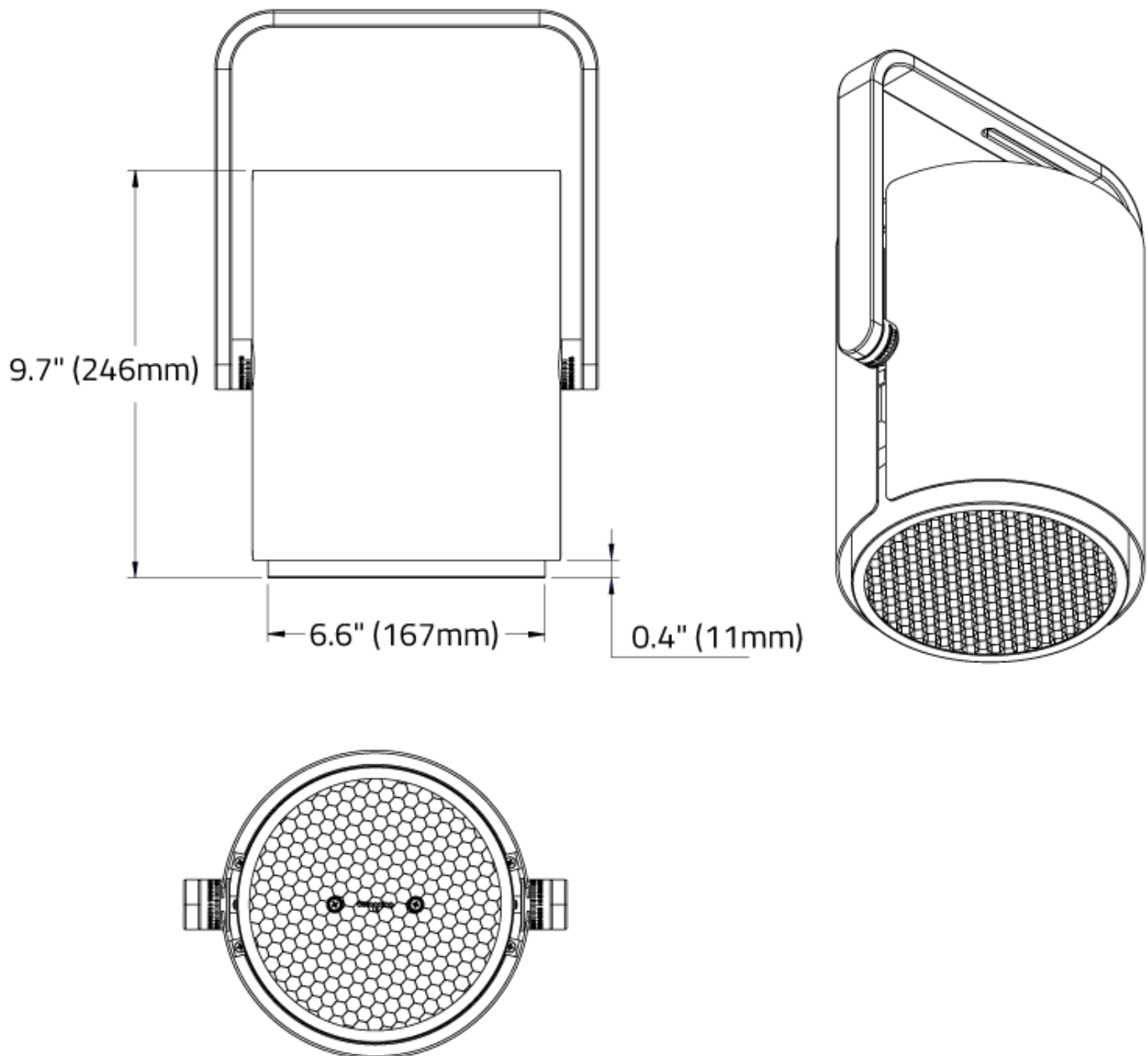
VIEW NORMAL TO YOKE



ISOMETRIC  
TOP VIEW

LOUVRE

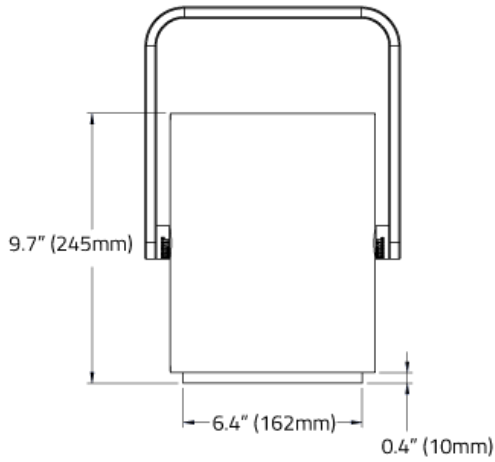
## HEX CELL LOUVRE



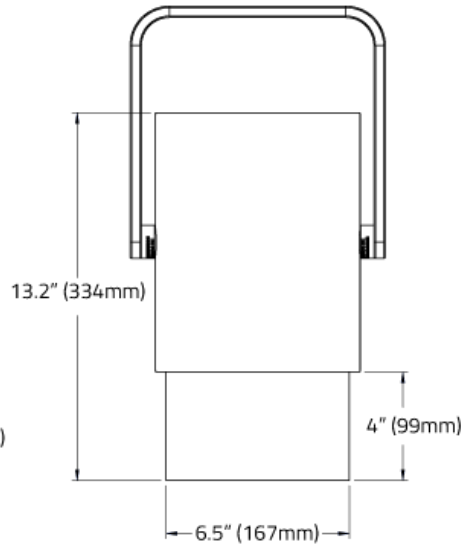


SNOOTS

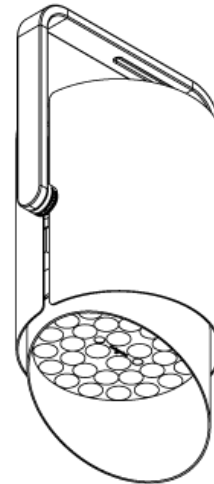
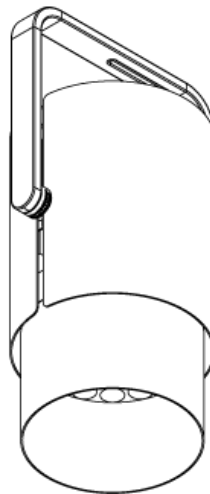
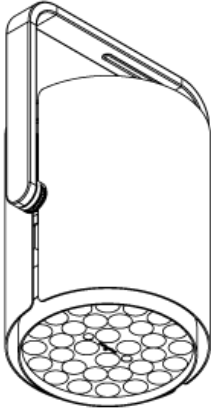
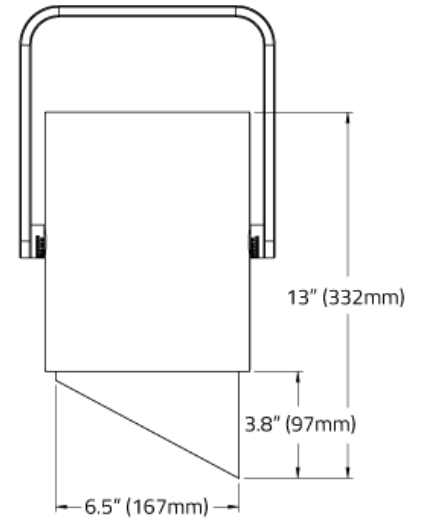
**STANDARD SNOOT**



**LONG SNOOT**



**HALF SNOOT**



Matrex Round Dual Surface - COB

## Matrex RD Dual Surface- COB

