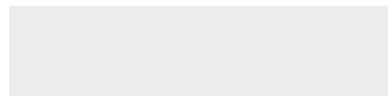


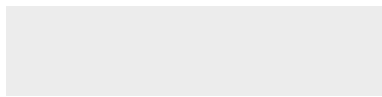


MATREX RD DUAL™

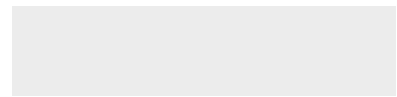
FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

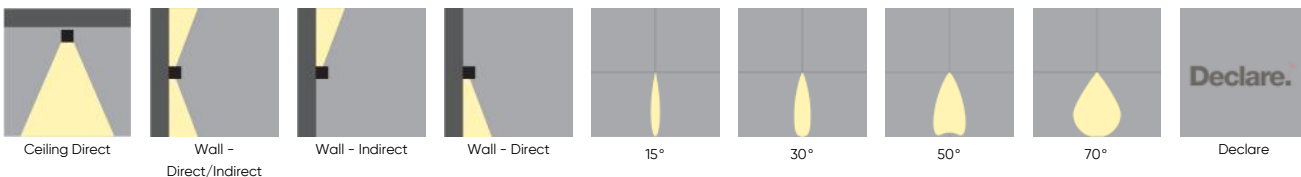


QUANTITIES

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)

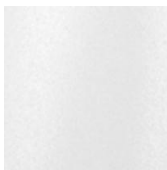
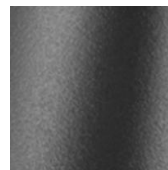
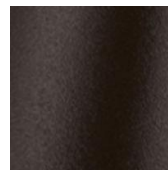
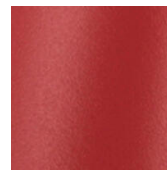
>171,000 hrs.

SUSTAINABILITY

Designed for on-site LED board, driver, and optic replacement. Contact the factory for maintenance documentation.

5 DESIGN OPTIONS

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

6 HOW TO ORDER

LUMINAIRE	LUMENS (HEAD A)	LUMENS (HEAD B)
MRDFIP01 Direct, LEDs / Multi-Array Optics, 20100 lms MRDFIP02 Direct, COB / Reflector, 10050 lms All data shown at max output and nominal values.	LMA0250 2500 LMA0500 5025 LMA0750 7500 ¹ LMA1000 10050 ¹ ¹ Not available with COB / Reflector. * Max lumen values shown, refer to IES files for the different snoot and beam options.	LMB0250 2500 LMB0500 5025 LMB0750 7500 ¹ LMB1000 10050 ¹ ¹ Not available with COB / Reflector. * Max lumen values shown, refer to IES files for the different snoot and beam options.

CRI CR80 CRI 80+ CR90 CRI 90+¹ ¹ Not available with COB / Reflector.	CCT CTA27 2700K¹ CTA30 3000K CTA35 3500K CTA40 4000K ¹ 2700K is only available with CRI 80+ and LEDs / Multi-Array Optics.	BEAM ANGLE (HEAD A) BA15 15°¹ BA30 30°¹ BA50 50° BA70 70°¹ ¹ 15°, 30°, and 70° are not available with COB / Reflector.
BEAM ANGLE (HEAD B) BB15 15°¹ BB30 30°¹ BB50 50° BB70 70°¹ ¹ 15°, 30°, and 70° are not available with COB / Reflector.	VOLTAGE V1 120/277V V2 240V¹ V3 347V² ¹ Not available in North America. ² Only available with DA01 dimming.	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.
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	SNOOTS AND LOUVER (HEAD A) NT1 Standard Snoot – Black¹ NT2 Standard Snoot – White¹ NT3 Long Snoot – Black^{1 2} NT4 Long Snoot – White^{1 2} NT5 Half Snoot – Black^{1 2} NT6 Half Snoot – White^{1 2} NT9 Hex Louver – Black^{2 3} 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. ¹ Snoot must be picked at time of order, if not ordering a louver. ² Unavailable with COB / Reflector. ³ Unavailable with BA70 beam angle.	
SNOOTS AND LOUVER (HEAD B) NU1 Standard Snoot – Black¹ NU2 Standard Snoot – White¹ NU3 Long Snoot – Black^{1 2} NU4 Long Snoot – White^{1 2} NU5 Half Snoot – Black^{1 2} NU6 Half Snoot – White^{1 2} NU9 Hex Louver – Black^{2 3} 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. ¹ Snoot must be picked at time of order, if not ordering a louver. ² Unavailable with COB / Reflector. ³ Unavailable with BB70 beam angle.	EMERGENCY E0 Emergency system not required E2 Emergency system – Remote¹ ¹ Remote emergency in the lower module only. Not available with V3. Integral is not available.	SEPARATE SWITCHING CS1 Single circuit CS2 Separate switching

7 TECHNICAL DATA

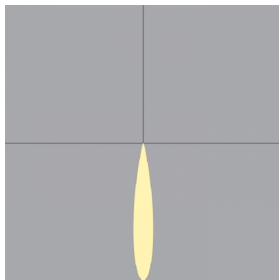
LUMINAIRE

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

38
82
130
186

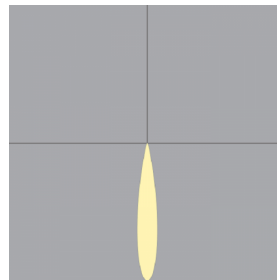
LUMENS

5000
9800
14800
20000

LPW

132
121
114
105

DIRECT 30° BEAM ANGLE



WATTS

38
82
130
186

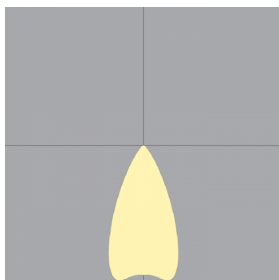
LUMENS

5000
10050
15000
20100

LPW

135
124
116
108

DIRECT 50° BEAM ANGLE



WATTS

38
82
130
186

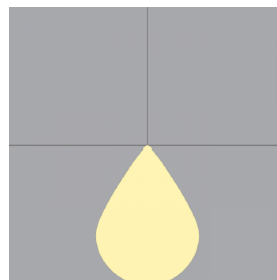
LUMENS

4800
9600
14200
19000

LPW

128
117
110
102

DIRECT 70° BEAM ANGLE



WATTS

38
82
130
186

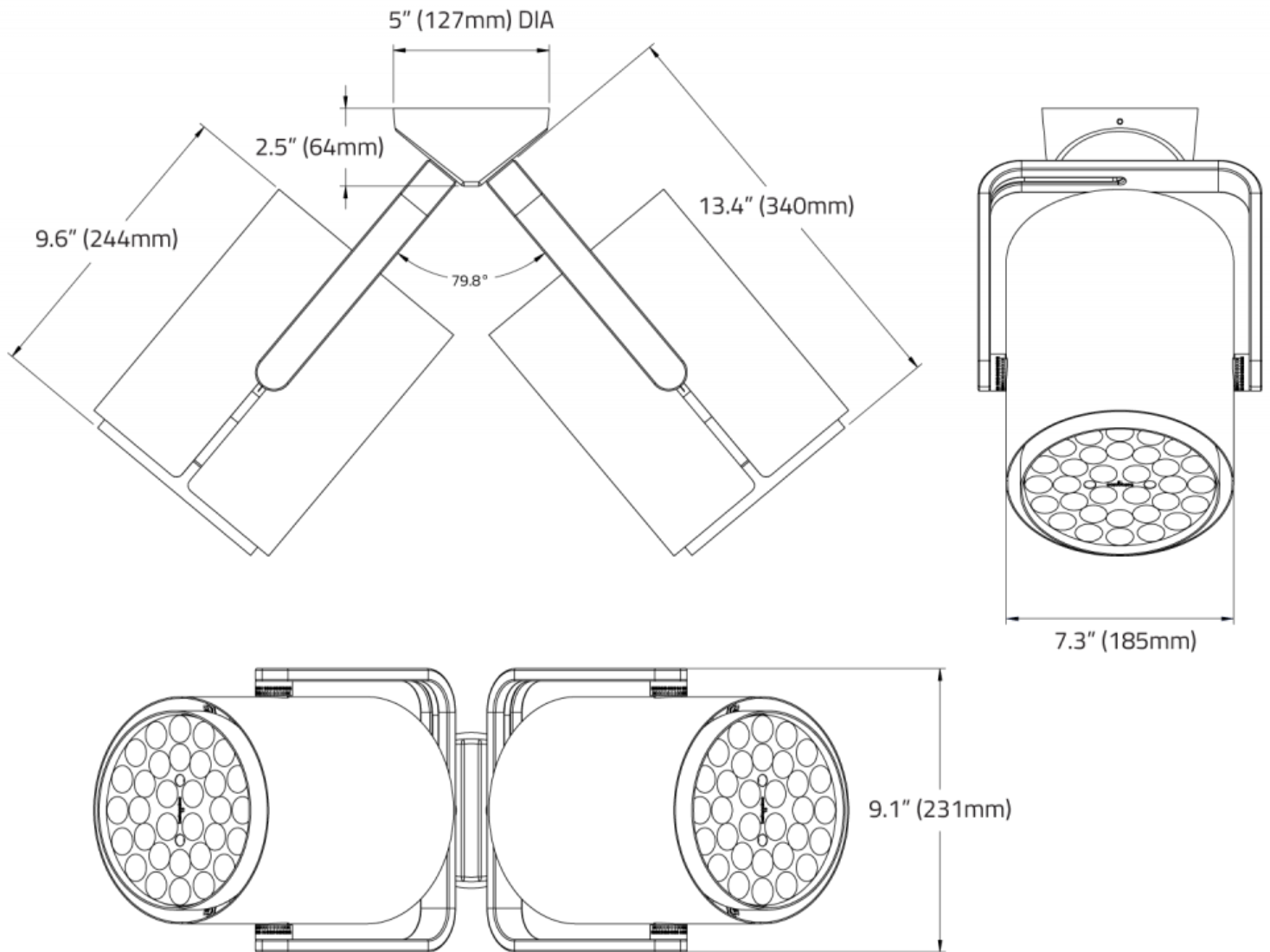
LUMENS

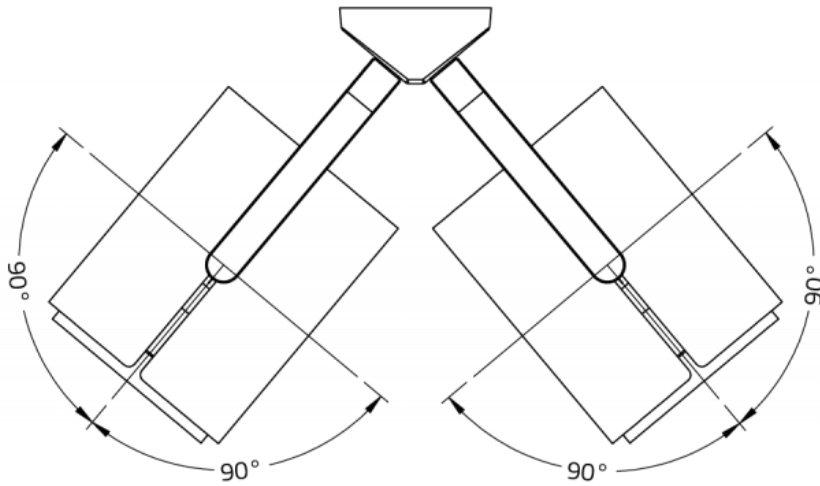
4800
9600
14400
19200

LPW

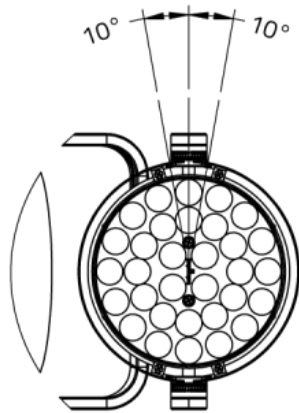
129
118
111
103

9 DIMENSIONAL DIAGRAMS





ROTATING YOKE

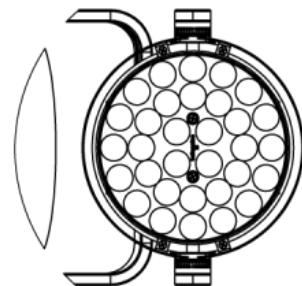


VIEW M=NORMAL TO YOKE

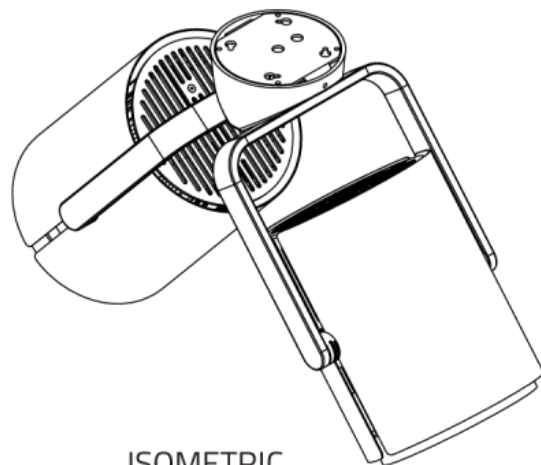


ISOMETRIC
BOTTOM VIEW

FIXED YOKE



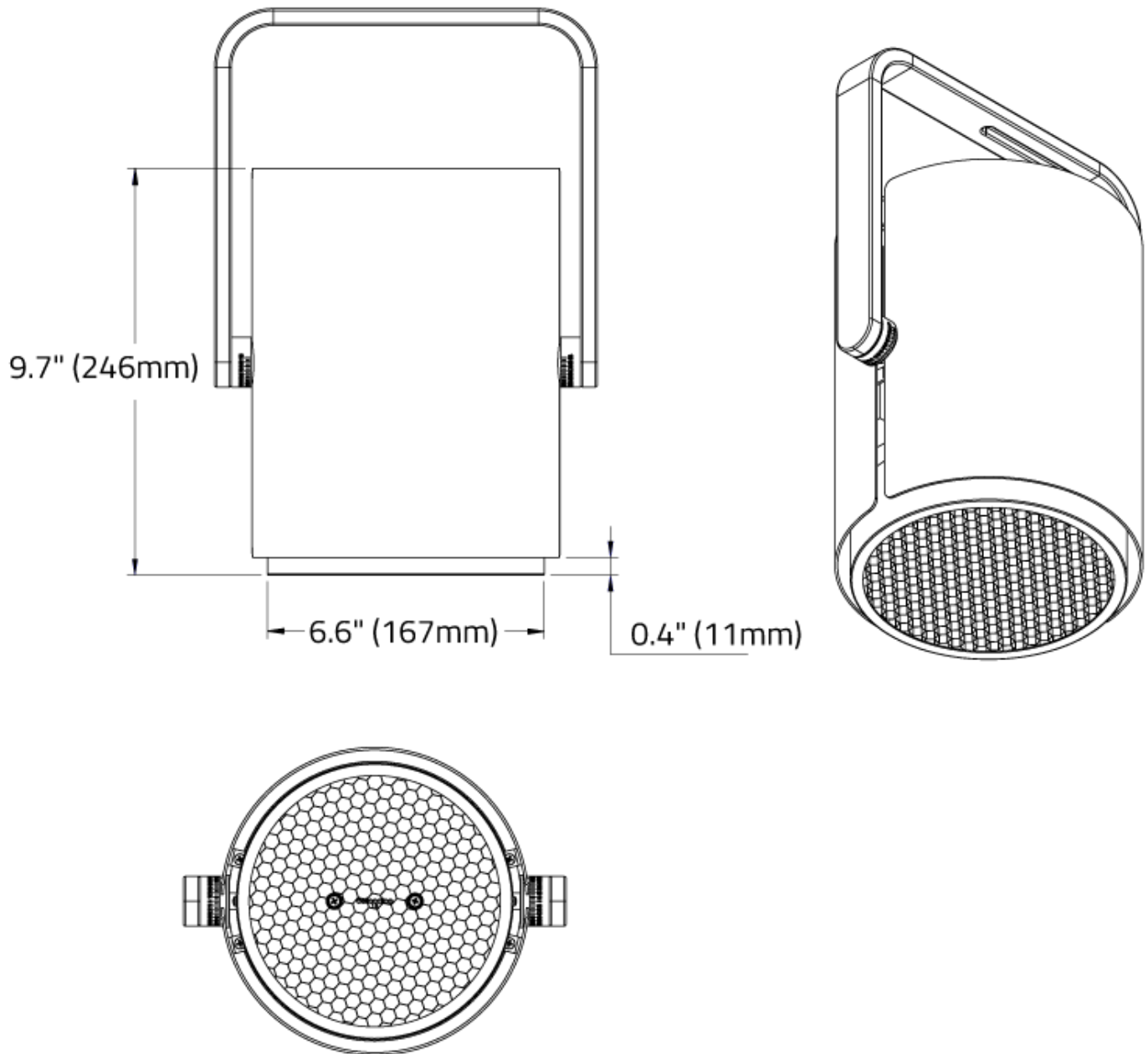
VIEW NORMAL TO YOKE



ISOMETRIC
TOP VIEW

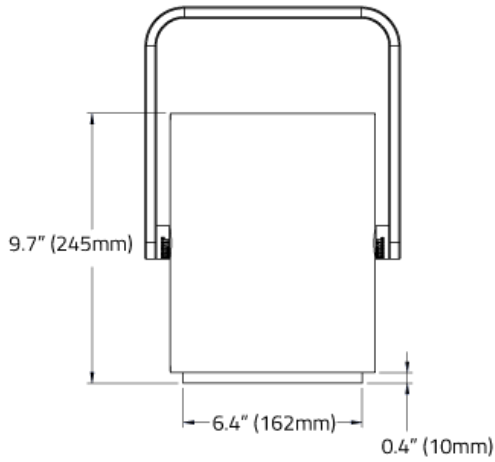
LOUVRE

HEX CELL LOUVRE

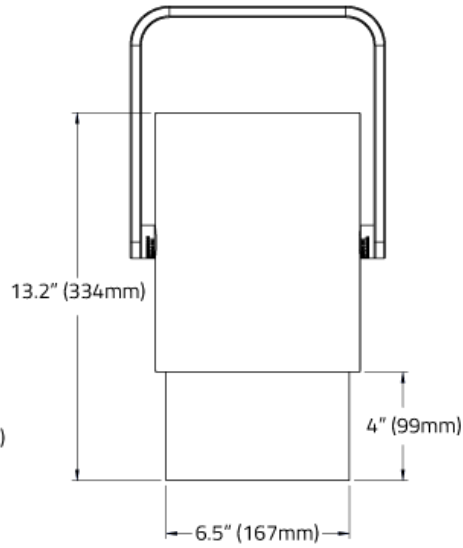


SNOOTS

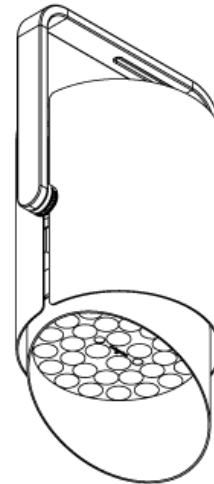
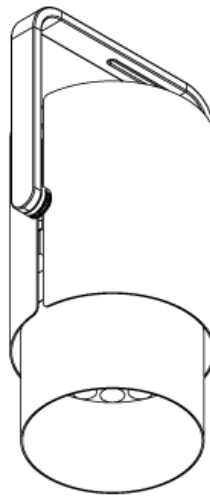
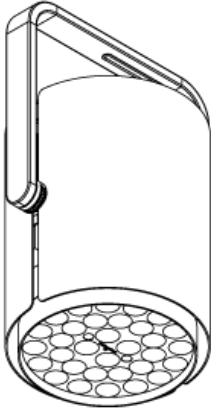
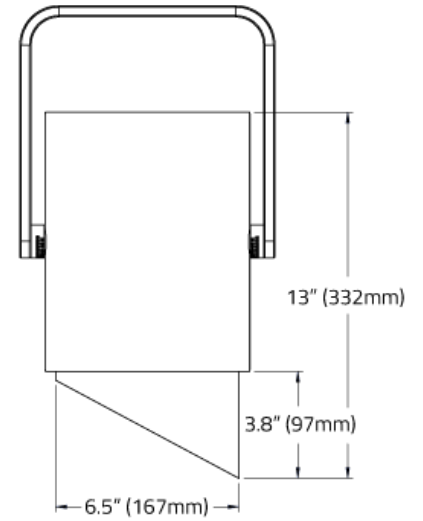
STANDARD SNOOT



LONG SNOOT



HALF SNOOT



Matrex Round Dual Surface - COB

Matrex RD Dual Surface- COB

