



MATREX RD DUAL™

FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

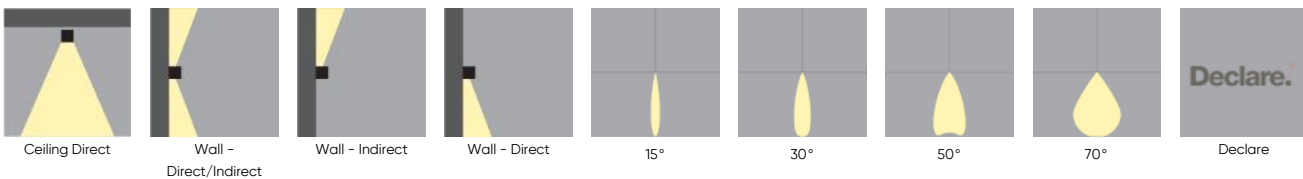


QUANTITIES

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)

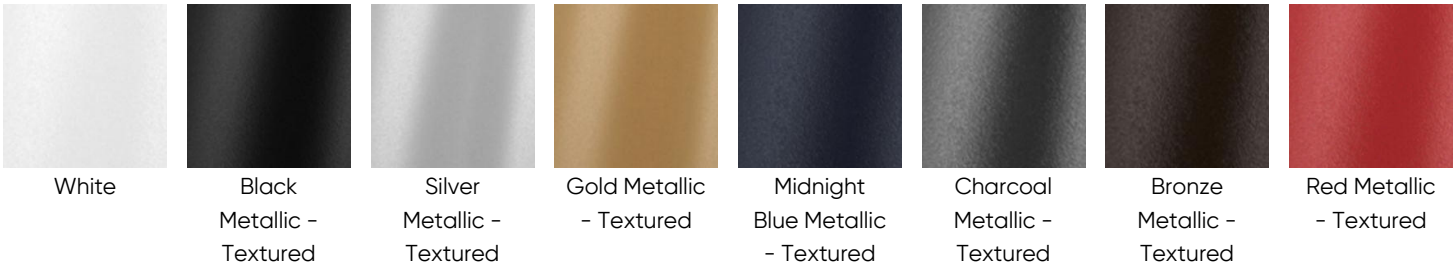
>171,000 hrs.

SUSTAINABILITY

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

5 DESIGN OPTIONS

FINISH - FIXTURE



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 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.

3. LUMENS (HEAD B)

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.

4. CRI

CR80 CRI 80+ CR90 CRI 90+ ¹

¹ Not available with COB / Reflector.

5. CCT

CTA27 2700K ¹ CTA30 3000K CTA35 3500K CTA40 4000K

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

6. 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.

7. 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.

8. VOLTAGE

V1 120/277V

V2 240V ¹

V3 347V ²

¹ Not available in North America. ² Only available with DA01 dimming.

9. 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.

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 ¹

NT2 Standard Snoot – White ¹

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.

12. SNOOTS AND LOUVER (HEAD B)

NU1 Standard Snoot – Black ¹

NU2 Standard Snoot – White ¹

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.

13. 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.

14. SEPARATE SWITCHING

CS1 Single circuit **CS2** Separate switching

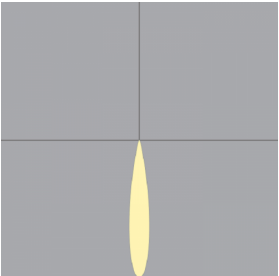
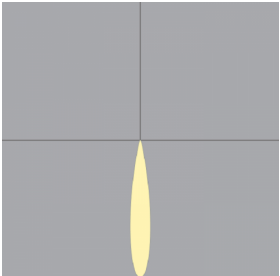
7 TECHNICAL DATA

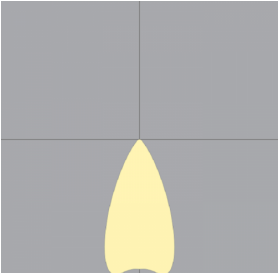
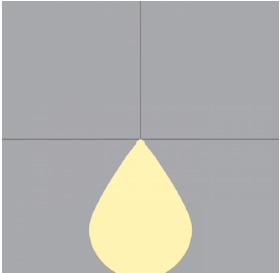
LUMINAIRE

All data shown at max output and nominal values.

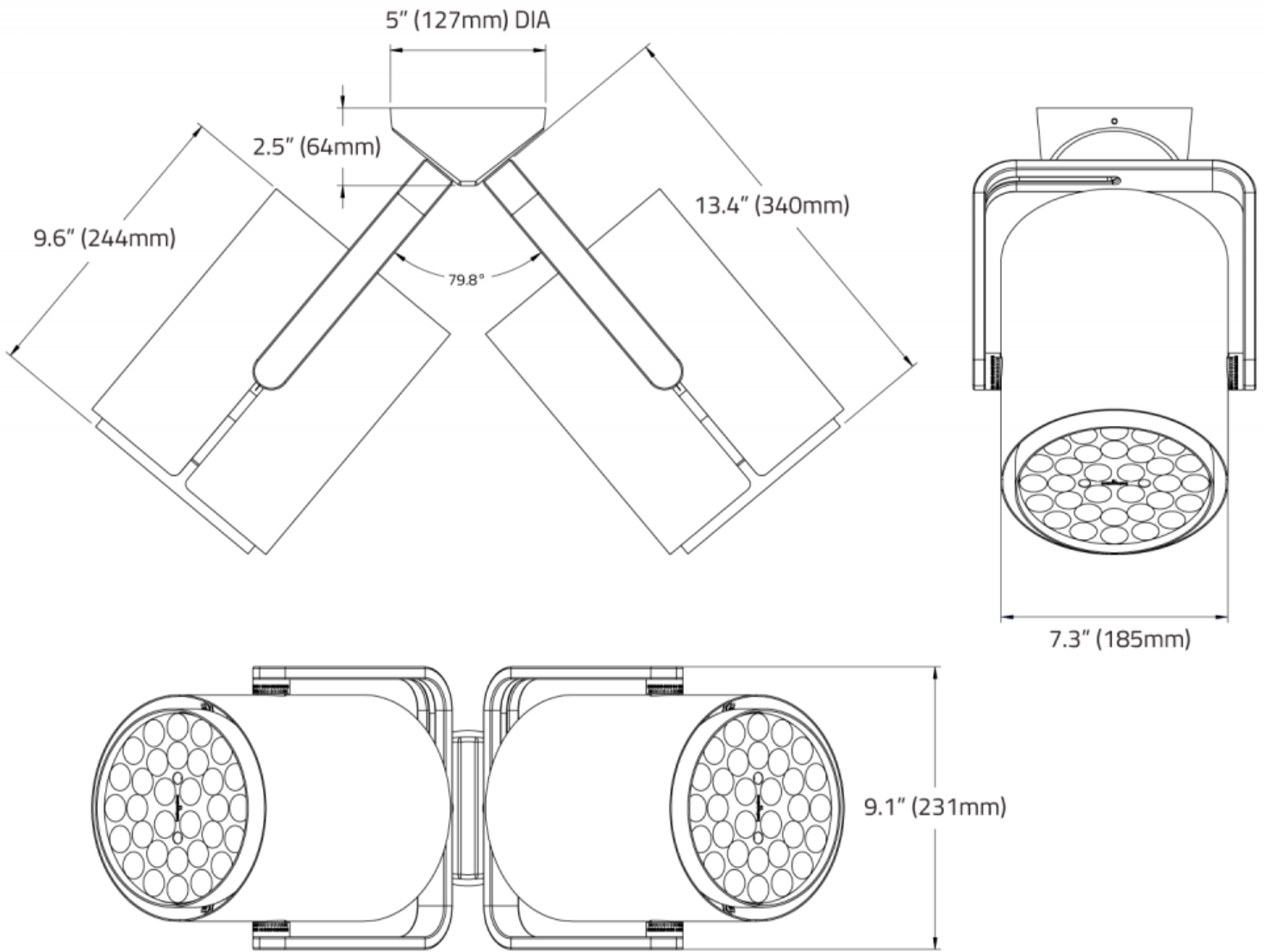
Code	MRDF1P01	MRDF1P02
Light Direction	Direct	Direct
Wattage	186W	88W
Delivered lms	20100	10050
LPW	124	111

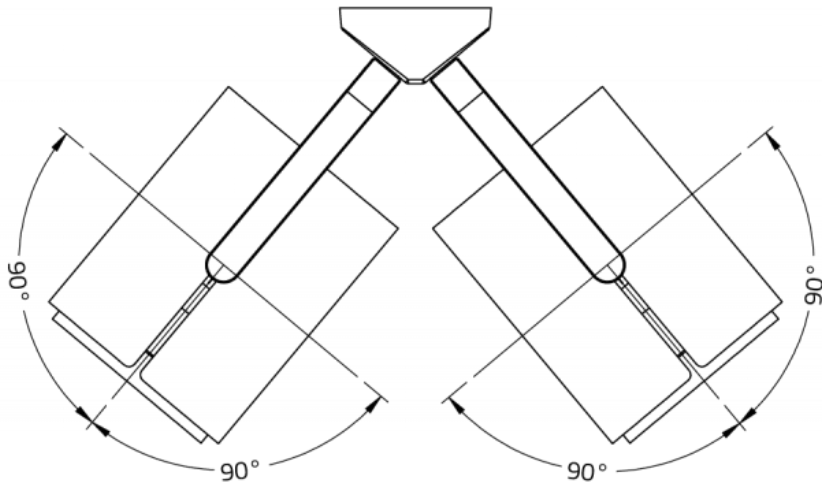
8 PERFORMANCE DATA

DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 30° BEAM ANGLE	WATTS	LUMENS	LPW
	38	5000	132		38	5000	135
	82	9800	121		82	10050	124
	130	14800	114		130	15000	116
	186	20000	105		186	20100	108

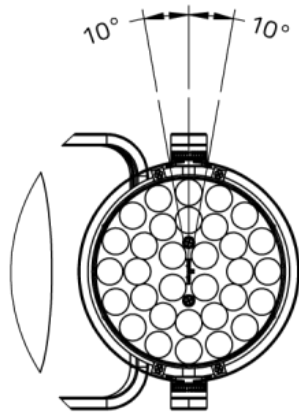
DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	38	4800	128		38	4800	129
	82	9600	117		82	9600	118
	130	14200	110		130	14400	111
	186	19000	102		186	19200	103

9 DIMENSIONAL DIAGRAMS





ROTATING YOKE

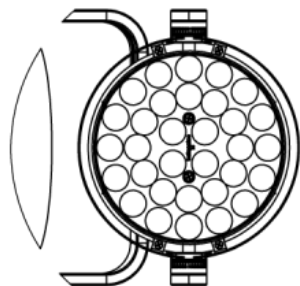


VIEW M=NORMAL TO YOKE

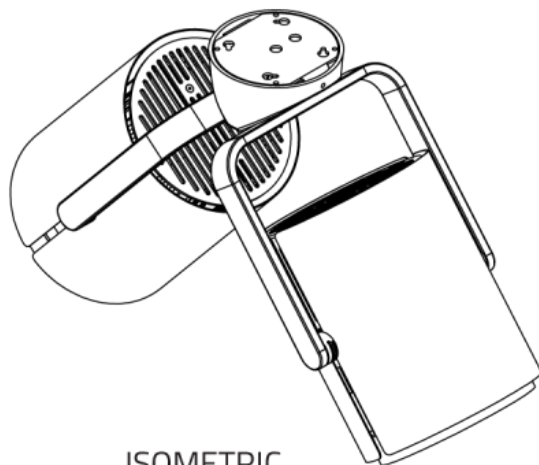


ISOMETRIC
 BOTTOM VIEW

FIXED YOKE



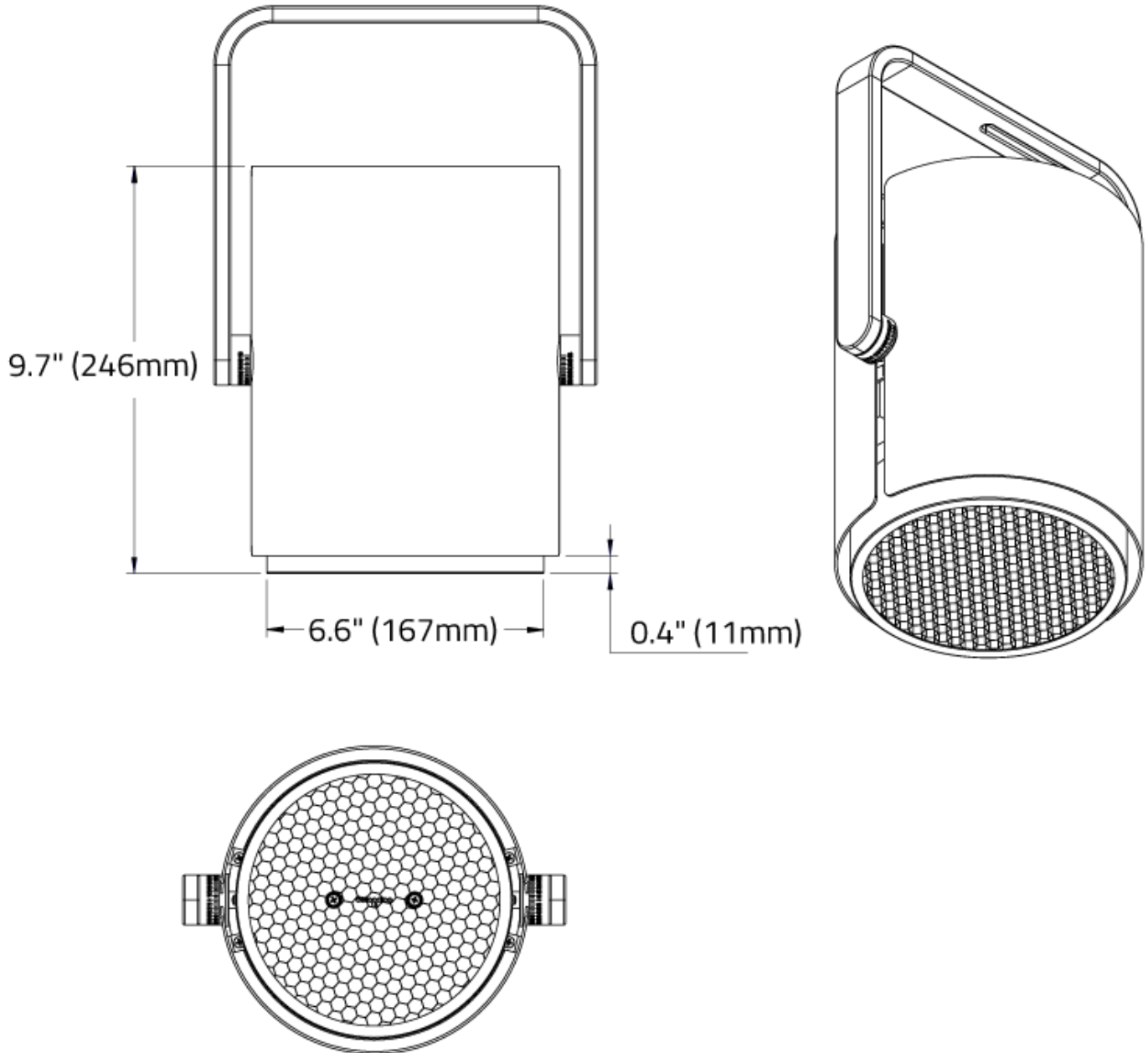
VIEW NORMAL TO YOKE



ISOMETRIC
 TOP VIEW

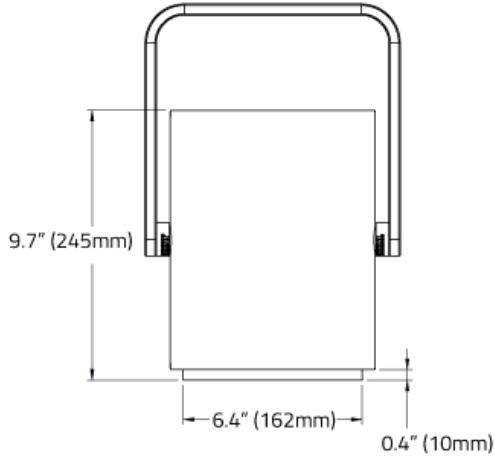
LOUVRE

HEX CELL LOUVRE

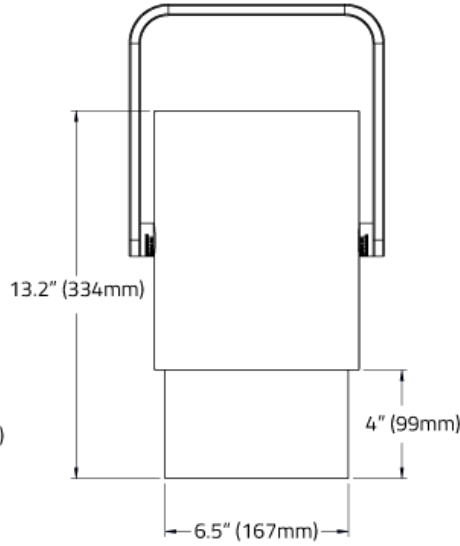


SNOOTS

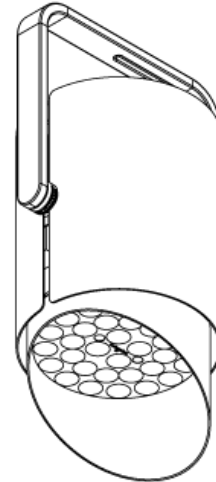
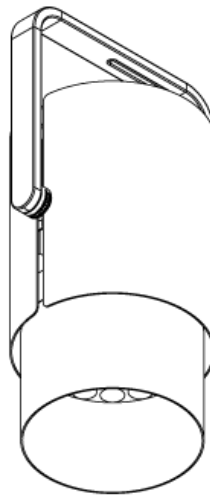
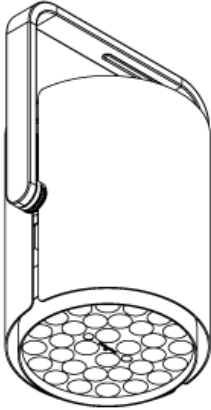
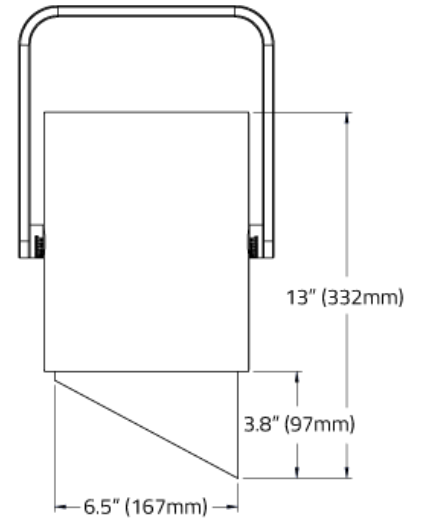
STANDARD SNOOT



LONG SNOOT



HALF SNOOT



Matrex Round Dual Surface - COB

Matrex RD Dual Surface- COB

