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


Surface Direct


Wall - Direct/Indirect


Wall - Indirect


Wall - Direct


15°


30°


50°


70°



Declare

3 APPROVALS

Intertek DAMP LOCATION F IP20

4 GENERAL SPECIFICATION

BODY AND TRIM

Steel and aluminum.

FINISH

Powder coated as specified. Custom paint finishes available to special order.

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DRIVERS
HPF, electronic, 120-277V, 347V (EU-240V). The driver is integral to the fixture housing.

REMOTE EMERGENCY SYSTEM (E2) - NORTH AMERICA ONLY
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. Maximum distance between wall/ceiling plate and luminaire is 15' (4.5m). Test switch fits a single gang box (not supplied). Refer to the Emergency option notes below for wattage, configuration and regional details.

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

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6 HOW TO ORDER

LUMINAIRE

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

All data shown at max output and nominal values.

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.

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.

CRI

CR80 CRI 80+
CR90 CRI 90+ [1]

[1] Not available with COB / Reflector.

CCT

CTA27 2700K [1]
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 240V [1]
V3 347V [2]

[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 - 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.

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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.

EMERGENCY

E0 Emergency system not required

E2 Emergency system - Remote [1 2]

[1] Remote emergency in the lower module only. Not available with V3. Integral is not available.

[2] For North America, the minimum emergency system wattage is 7.5W. Refer to the fixture's lumens per watt to estimate emergency light output. The emergency system typically powers only a portion of the fixture, depending on the fixture configuration and number of drivers. Consult factory for emergency system configuration and illuminated section details.
For Europe, the emergency system wattage and configuration may vary. Consult factory for details.

SEPARATE SWITCHING

CS1 Single circuit

CS2 Separate switching

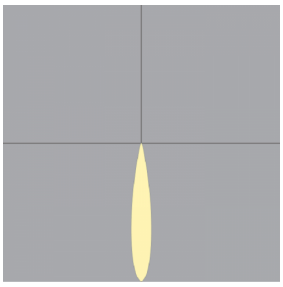
7 TECHNICAL DATA

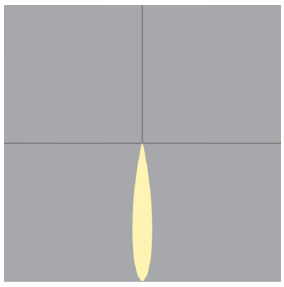
LUMINAIRE

All data shown at max output and nominal values.

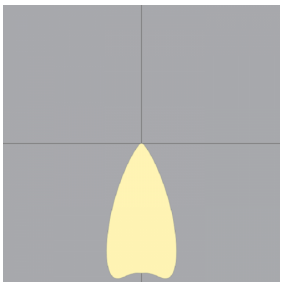
Code	MRDF1P01	MRDF1P02
Light Direction	Direct	Direct
Wattage	186W	88W
Delivered lms	20100	10050
LPW	124	111

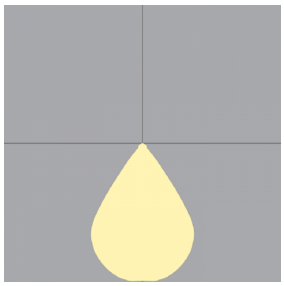
8 PERFORMANCE DATA

DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW
	38	5000	132
	82	9800	121
	130	14800	114
	186	20000	105

DIRECT 30° BEAM ANGLE	WATTS	LUMENS	LPW
	38	5000	135
	82	10050	124
	130	15000	116
	186	20100	108

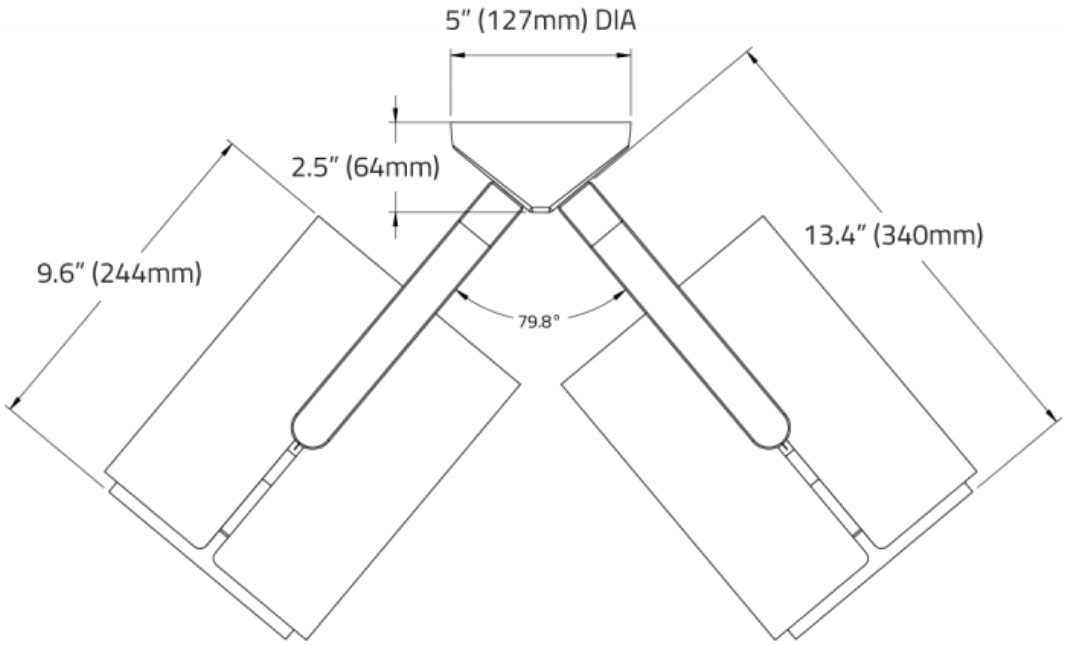
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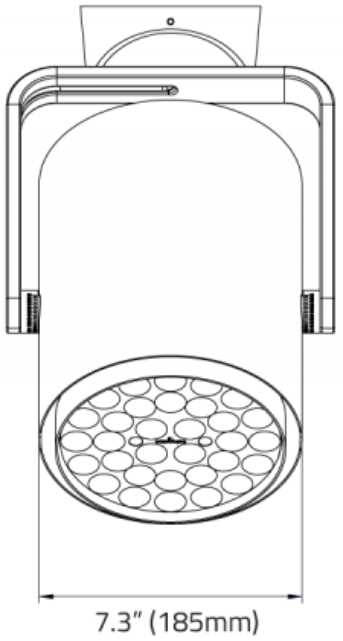
DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW
	38 82 130 186	4800 9600 14200 19000	128 117 110 102

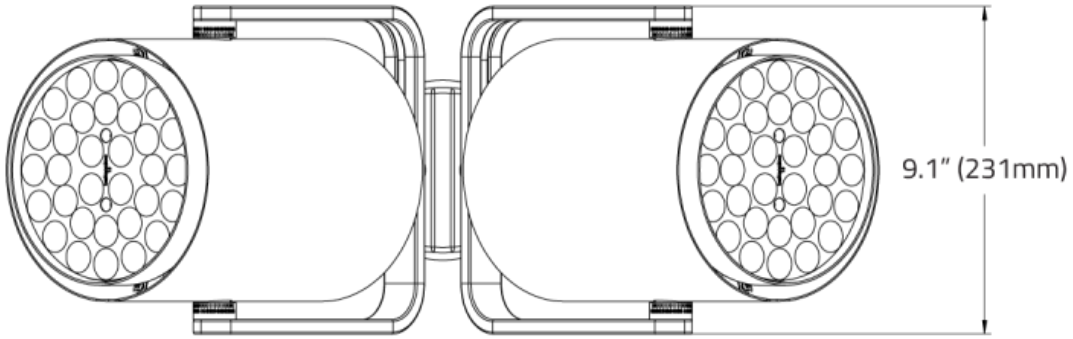
DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	38 82 130 186	4800 9600 14400 19200	129 118 111 103

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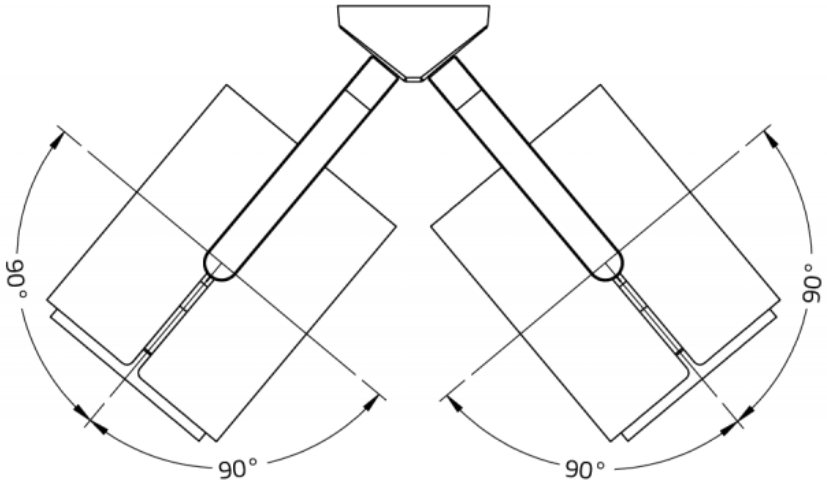
9 DIMENSIONAL DIAGRAMS

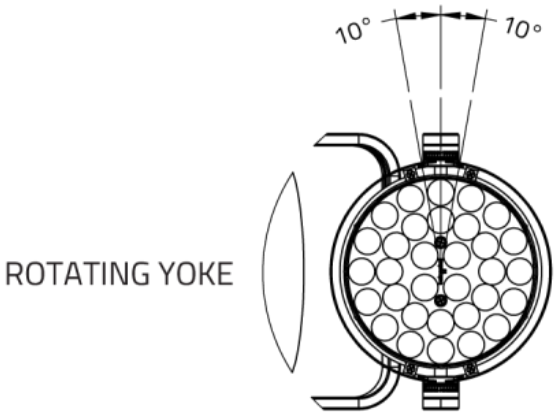






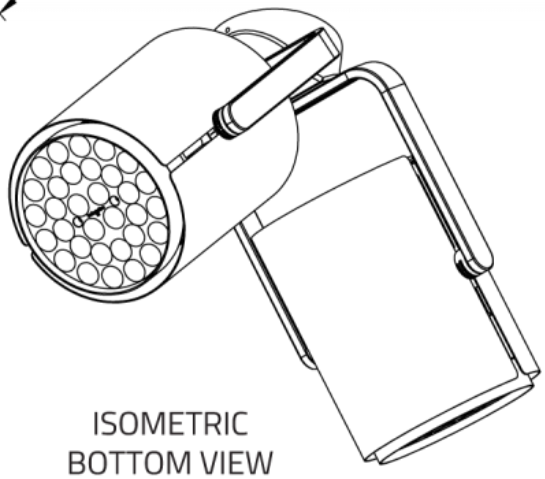
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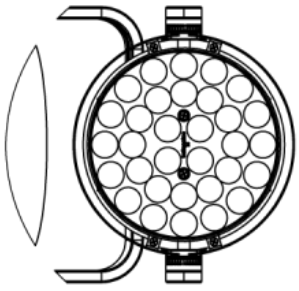
ROTATING YOKE

VIEW M=NORMAL TO YOKE

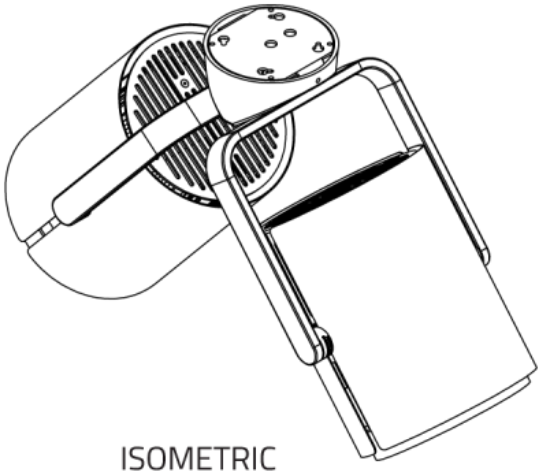


ISOMETRIC
BOTTOM VIEW

FIXED YOKE



VIEW NORMAL TO YOKE

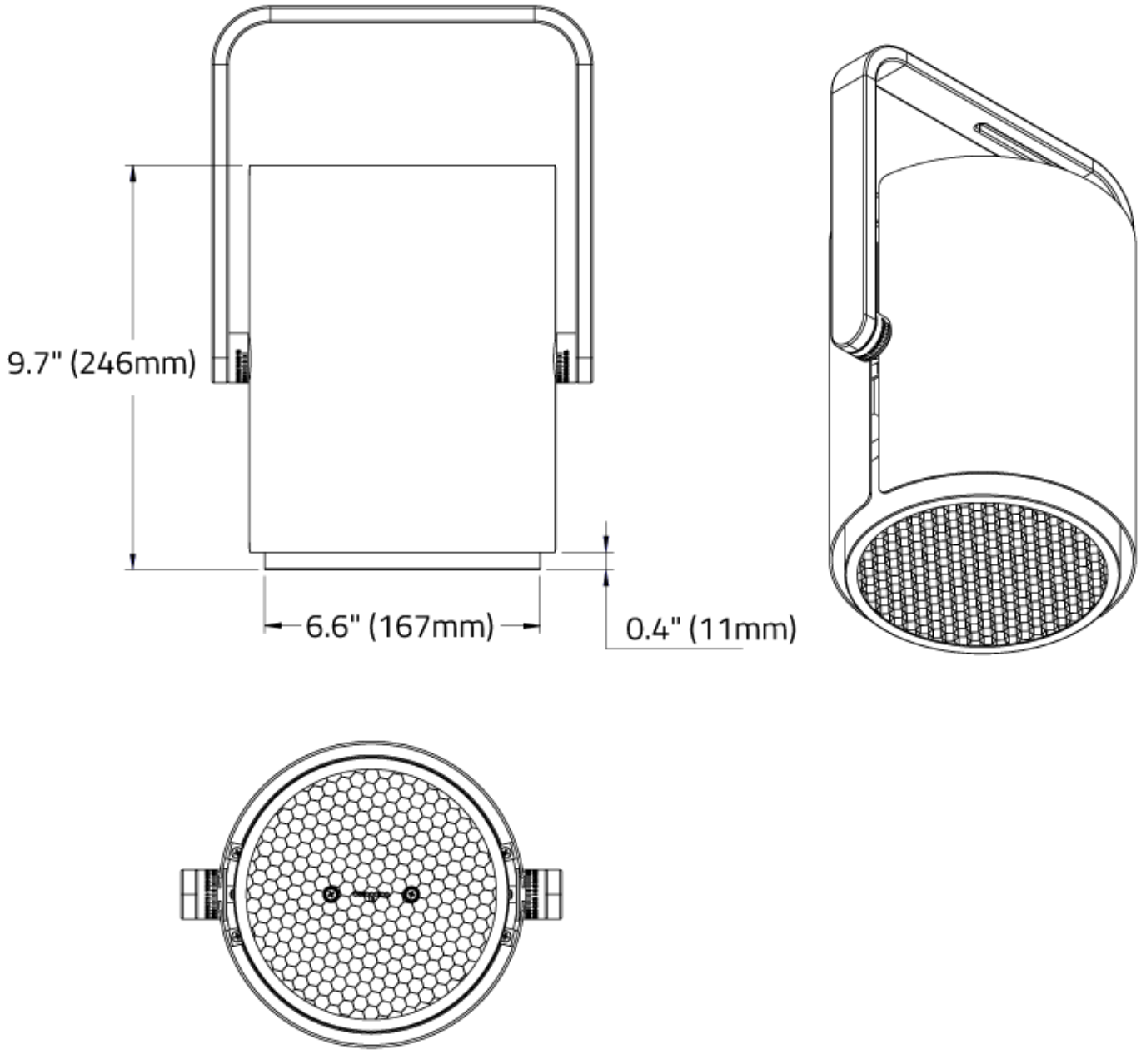


ISOMETRIC
TOP VIEW

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LOUVRE

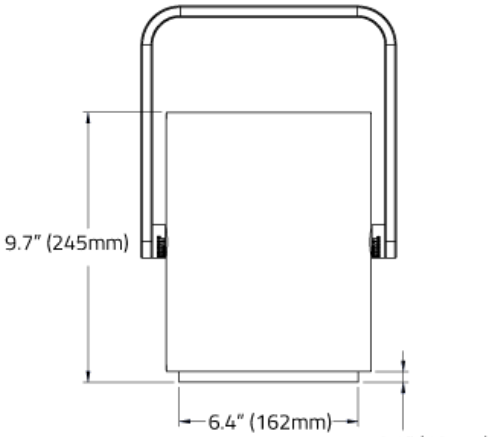
HEX CELL LOUVRE

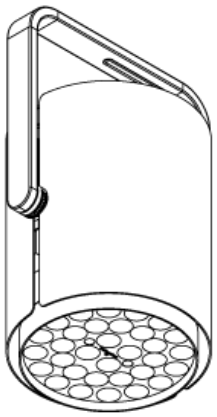


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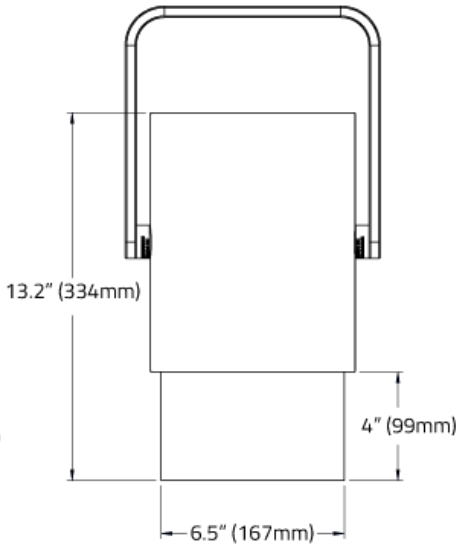
SNOOTS

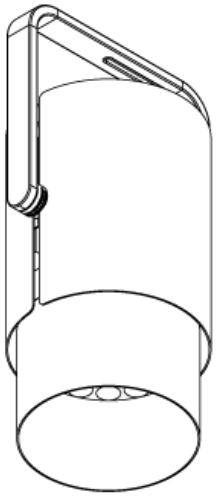
STANDARD SNOOT



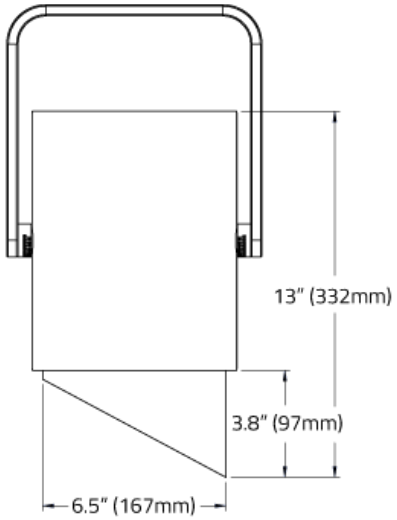


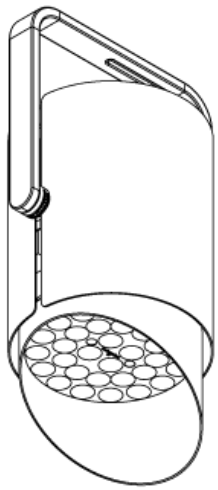
LONG SNOOT





HALF SNOOT

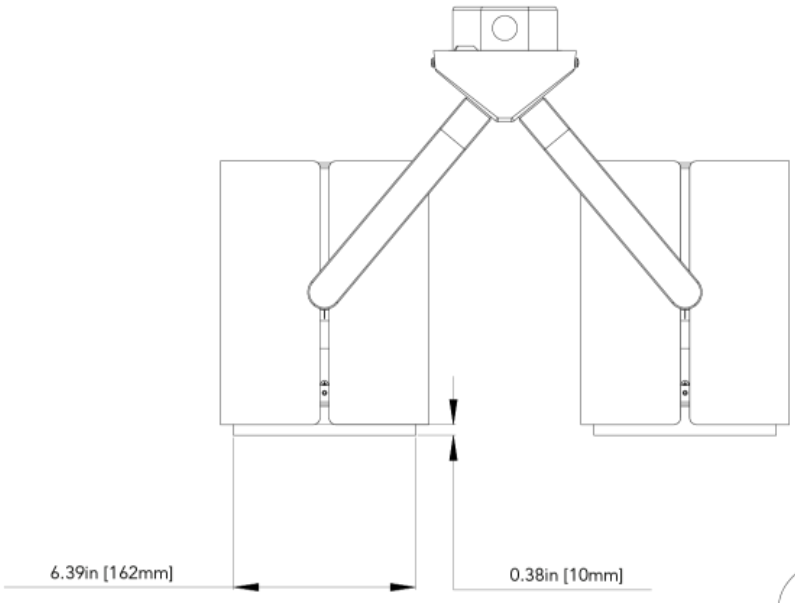


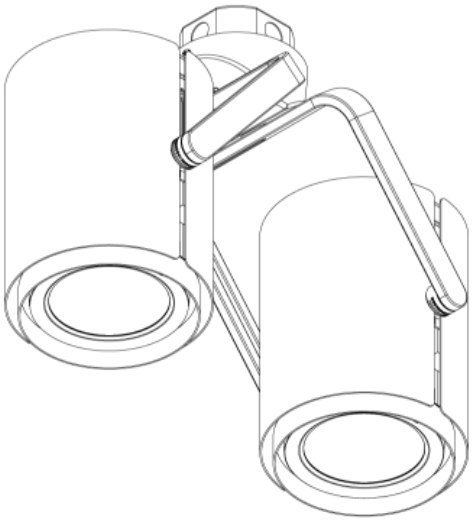


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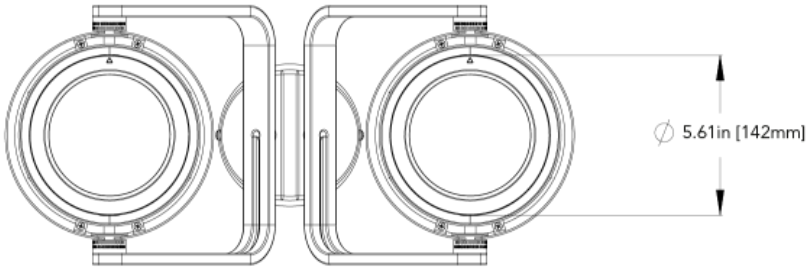
Matrex Round Dual Surface - COB

Matrex RD Dual Surface- COB





Isometric View



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