MATREX RD SINGLE™

FULL SPECIFICATION SHEET



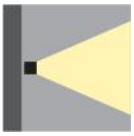
FIXTURE TYPE	FIXTURE CODE	QUANTITIES

1 DESCRIPTION

MATREX is a family of spotlights packed with power for projecting light at great distances. With best-in-class thermal management and hidden heat sinks, **MATREX's** form factor is significantly smaller than traditional spotlights. Multiple mounting systems are available, providing a variety of functions that work in a range of applications, especially those with multiple ceiling heights. 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


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.

APPROVALS
Damp Rated.

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

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

REPORTED L70 @25°C (77°F)
> 60,000 hrs.

Estimated L70 @25°C (77°F)
> 171,000 hrs.

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

DESIGNED BY
Serge Cornelissen.

5 DESIGN OPTIONS

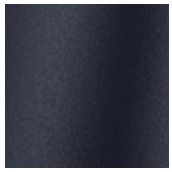
FINISH - FIXTURE

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

MTRF1P01 Direct, LEDs / Multi-Array Optics, 10050 lms
MTRF1P02 Direct, COB / Reflector, 5025 lms

All data shown at max output and nominal values.

LUMENS

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.

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

BA15 15° [1]
BA30 30° [1]
BA50 50°
BA70 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

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.

EMERGENCY

E0 Emergency system not required
E2 Emergency system - Remote [1] [2]

[1] Not available with V3. Integral 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.

7 TECHNICAL DATA

LUMINAIRE

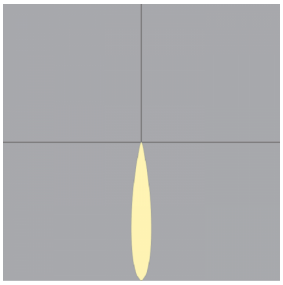
All data shown at max output and nominal values.

Code	MTRF1P01	MTRF1P02
Light Direction	Direct	Direct
Wattage	93W	44W
Delivered lms	10050	5025
LPW	124	111

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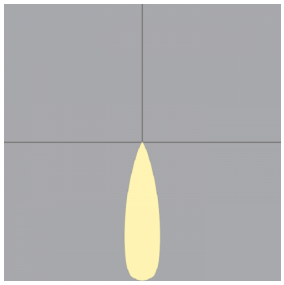
8 PERFORMANCE DATA

DIRECT 15° BEAM ANGLE



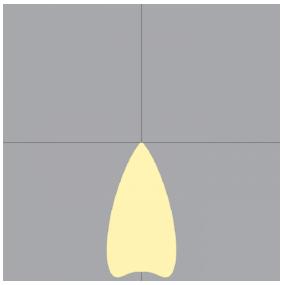
WATTS	LUMENS	LPW
19	2500	132
41	4900	121
65	7400	114
93	10000	106

DIRECT 30° BEAM ANGLE



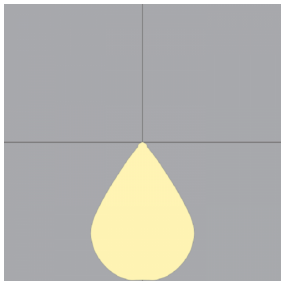
WATTS	LUMENS	LPW
19	2500	135
41	5025	124
65	7500	116
93	10050	108

DIRECT 50° BEAM ANGLE



WATTS	LUMENS	LPW
19	2400	128
41	4800	117
65	7100	110
93	9500	102

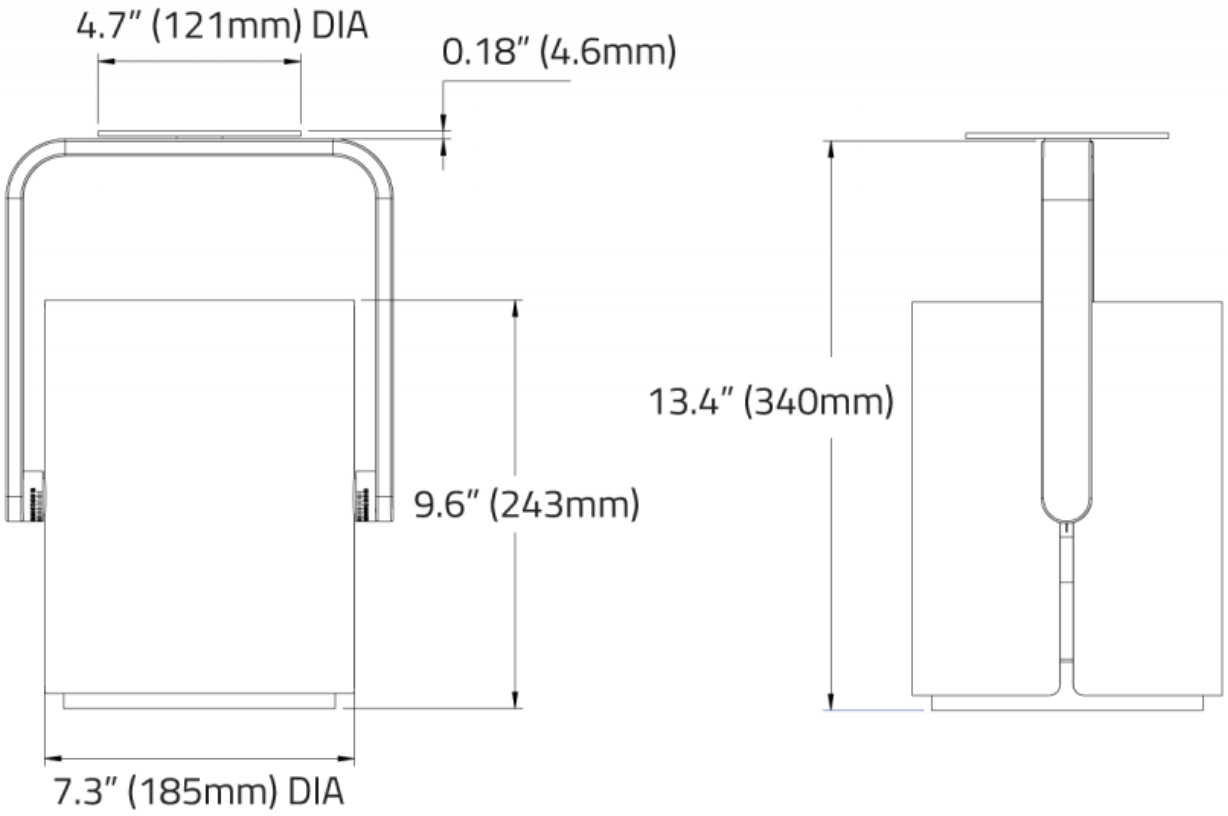
DIRECT 70° BEAM ANGLE

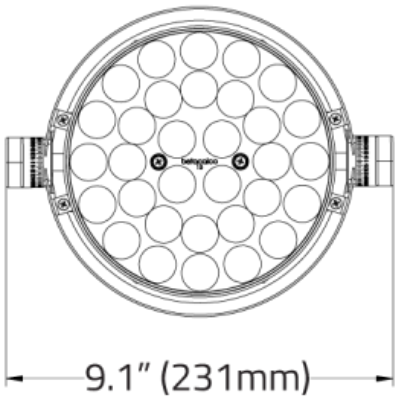


WATTS	LUMENS	LPW
19	2400	129
41	4800	118
65	7200	111
93	9600	103

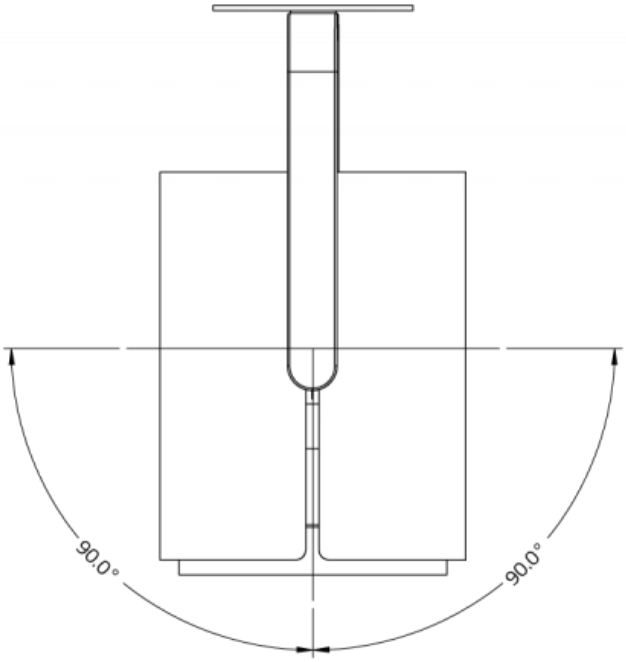
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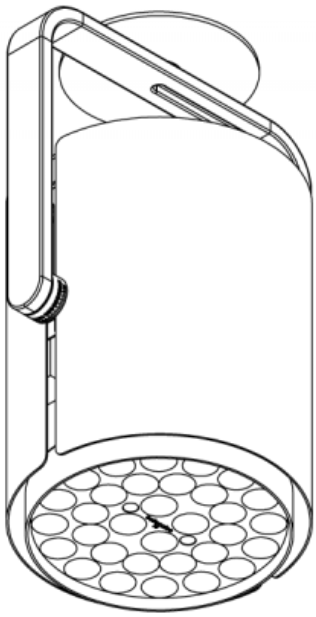
9 DIMENSIONAL DIAGRAMS



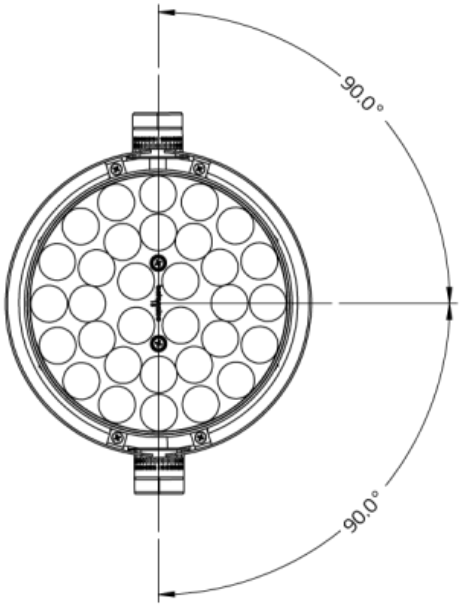


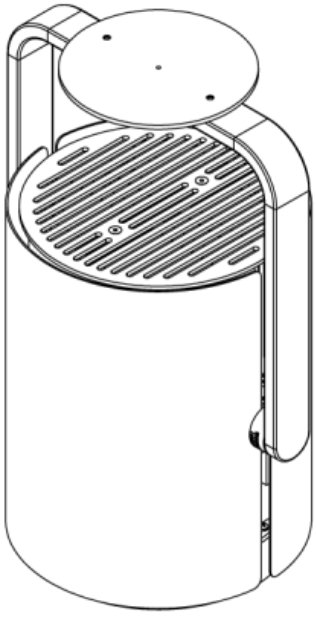
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ISOMETRIC
BOTTOM VIEW



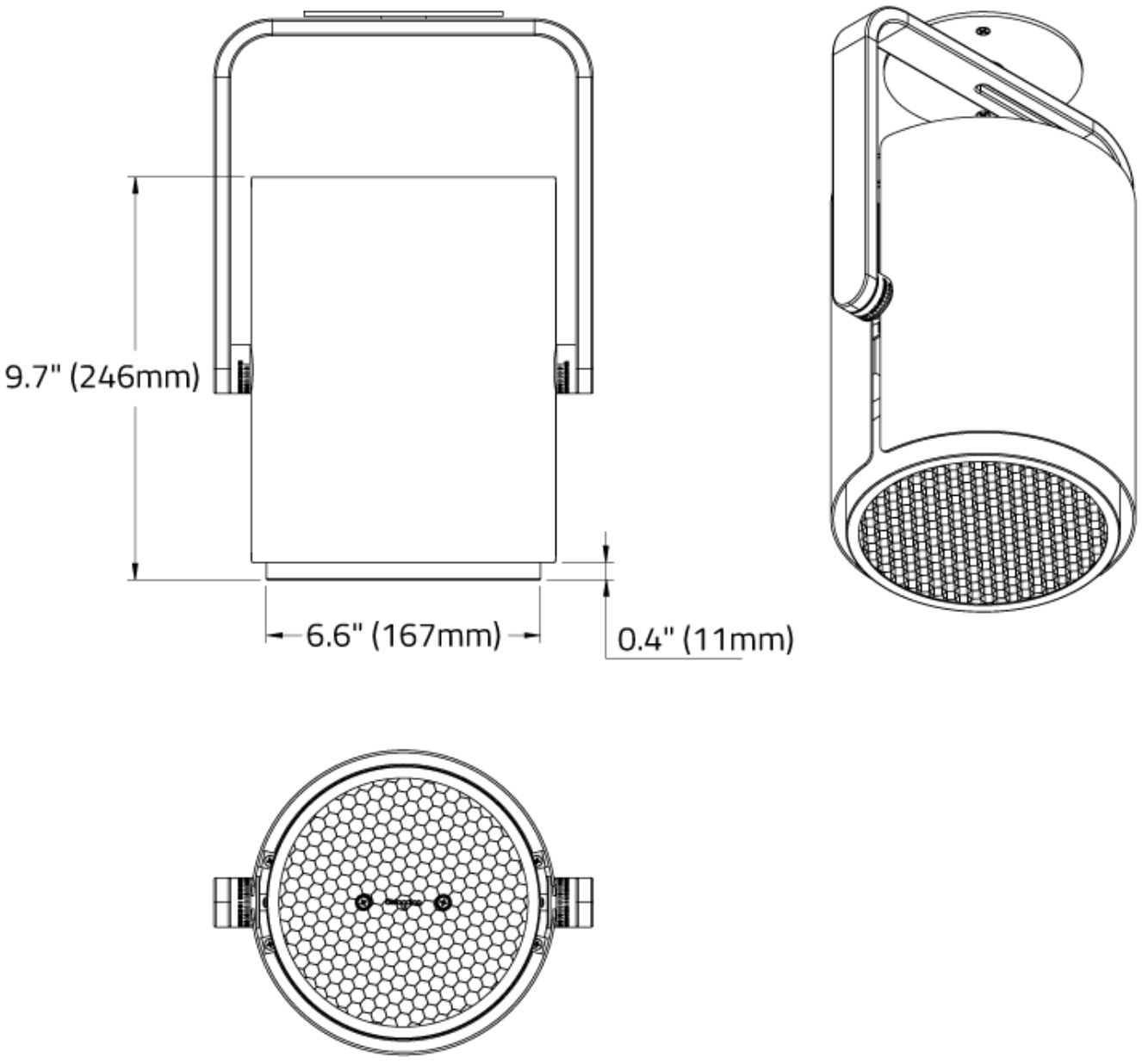


ISOMETRIC
TOP VIEW

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LOUVRE

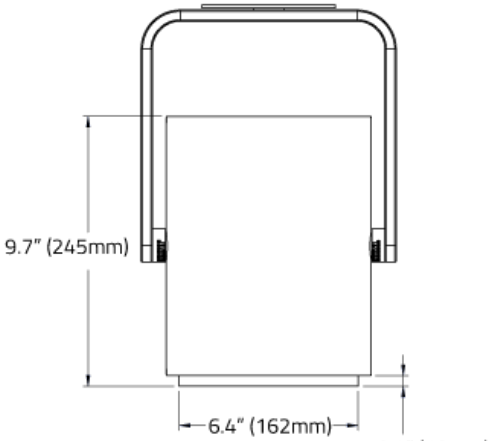
HEX CELL LOUVRE

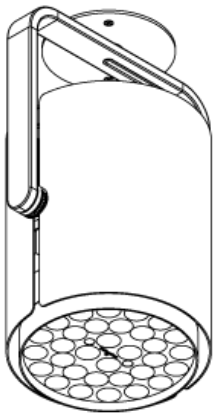


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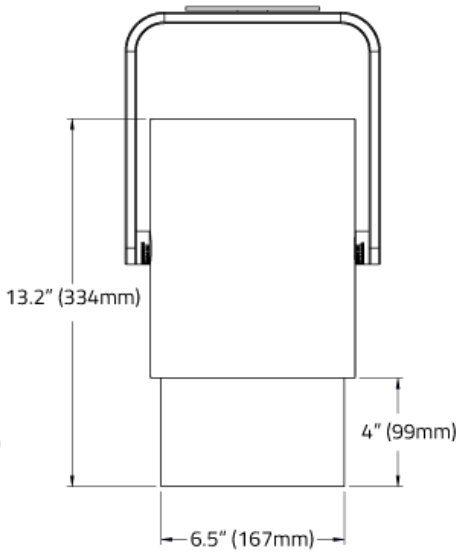
SNOOTS

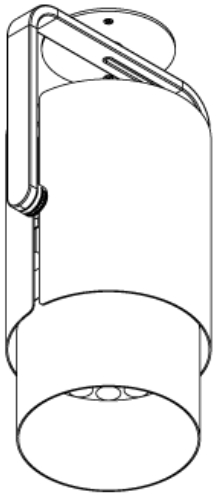
STANDARD SNOOT



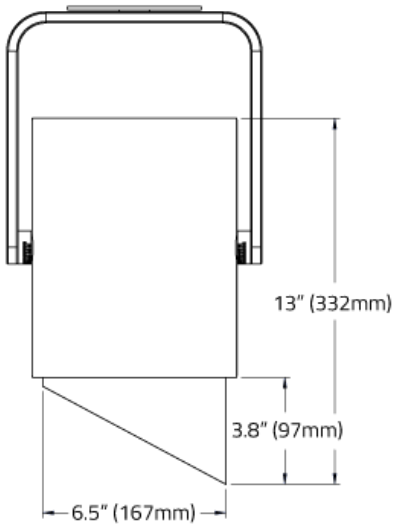


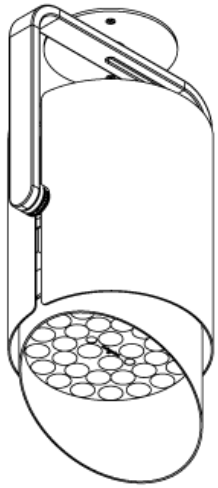
LONG SNOOT





HALF SNOOT

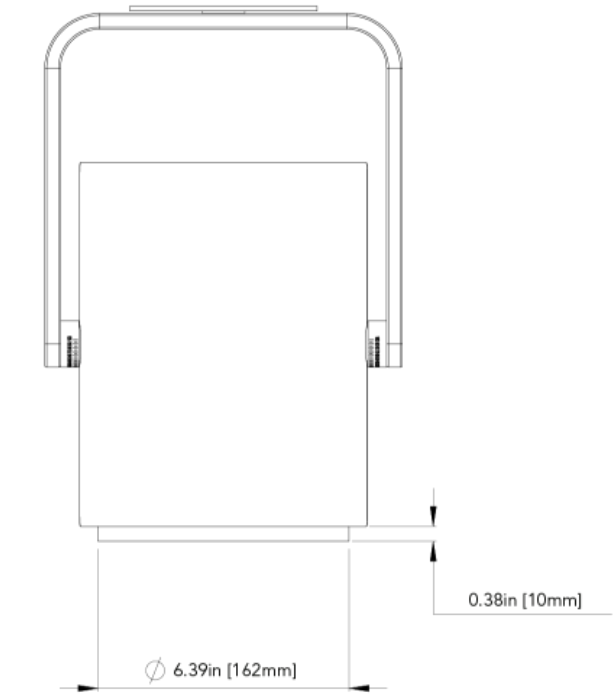


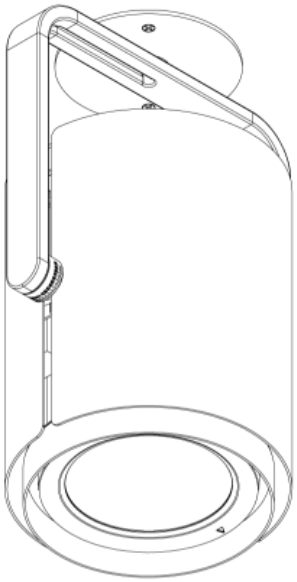


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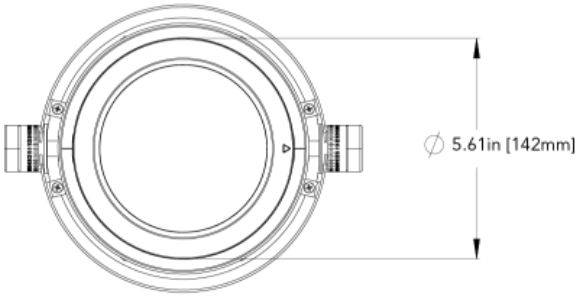
Matrex Round Surface - COB

Matrex RD Single - COB





Isometric View



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