

# MATREX RD SINGLE™ - SUSPENDED

Project Name:

Fixture Type:

Fixture Code:

Quantities:





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**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.

## GENERAL SPECIFICATION

### Body and trim

Steel and aluminum.

### Suspension

Steel cables.

### Integral emergency system

Emergency option provides a 1.5 hour (3 hours for EU) emergency lighting facility. The self contained system includes the inverter module, NiCad batteries, LED charge indicator and test switch (NA only). Integral emergency EU luminaires have a 17" (434mm) x 8.3" (210mm) x 2.3" (58mm) canopy with LED charge indicator. Not available with a 347V supply. Drivers are in the canopy.

### Mechanical

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

### Delivered lumens

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

### Reported L70 @25°C (77°F)

> 60,000 hrs.

### Designed by

Serge Cornelissen.

### Finish

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

### Power cable

Silver braided.

### Drivers

HPF, electronic, 120-277V, 347V (EU-240V). The driver is integral to the fixture housing, except when ordering emergency and then the driver is integral in the canopy.

### Sensors

Consult factory regarding sensor compatibility.

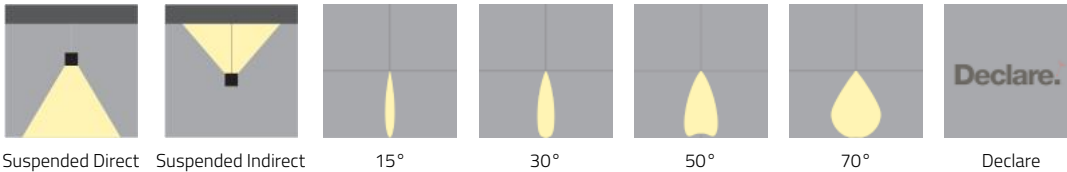
### Approvals

Damp Rated.

### Estimated L70 @25°C (77°F)

> 171,000 hrs.

## MOUNTING & OPTICS



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## HOW TO ORDER

### A. LUMINAIRE

**MTRP1P01** Direct, LEDs / Multi-Array Optics, 10050 lms

**MTRP2P01** Indirect, LEDs / Multi-Array Optics, 10050 lms

**MTRP1P02** Direct, COB / Reflector, 5025 lms

**MTRP2P02** Indirect, COB / Reflector, 5025 lms

All data shown at max output and nominal values.

### B. LUMENS

**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.

### C. CRI

**CR80** CRI 80+

**CR90** CRI 90+<sup>1</sup>

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

### D. CCT/CRI

**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.

### E. BEAM ANGLE

**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.

### F. 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.

### G. 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>

**DA40** DMX Dimming<sup>1 3</sup>

<sup>1</sup> Not available with 347V.

<sup>2</sup> Not available in North America.

<sup>3</sup> Must be used with CN4 canopy.

### H. FIXTURE FINISH

**FA01** White

**FA02** Black Metallic - Textured

**CF20** Silver Metallic - Textured

**FA25** Gold Metallic - Textured

**FA44** Midnight Blue Metallic - Textured

**FA46** Charcoal Metallic - Textured

**FA47** Bronze Metallic - Textured

**FA53** Red Metallic - Textured



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## I. CANOPY

**CN1** Canopy A <sup>1</sup>

**CN2** Canopy B <sup>1</sup>

**CN3** Canopy C <sup>1 2</sup>

**CN4** Canopy D <sup>1 3</sup>

<sup>1</sup> Fits over a standard j-box (provided by others).

<sup>2</sup> For use with V2 only.

<sup>3</sup> To be ordered with E1 (Emergency Integral) or DA40 (DMX Dimming).

## J. CANOPY FINISH

**CF01** White

**CF02** Black Metallic - Textured

**CF20** Silver Metallic - Textured

**CF25** Gold Metallic - Textured

**CF44** Midnight Blue Metallic - Textured

**CF46** Charcoal Metallic - Textured

**CF47** Bronze Metallic - Textured

**CF53** Red Metallic - Textured

## K. SNOOTS AND LOUVER

**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> A snoot must be picked at time of order, if you are not ordering a louver.

<sup>2</sup> Not available with COB / Reflector.

<sup>3</sup> Not available with BA70 beam angle. Available with Direct only.

## L. EMERGENCY

**E0** Emergency system not required

**E1** Emergency system - Integral <sup>1 2</sup>

<sup>1</sup> Not available with 347V. Two power cables will be supplied.

<sup>2</sup> CN4 canopy only used when ordering emergency or DMX.



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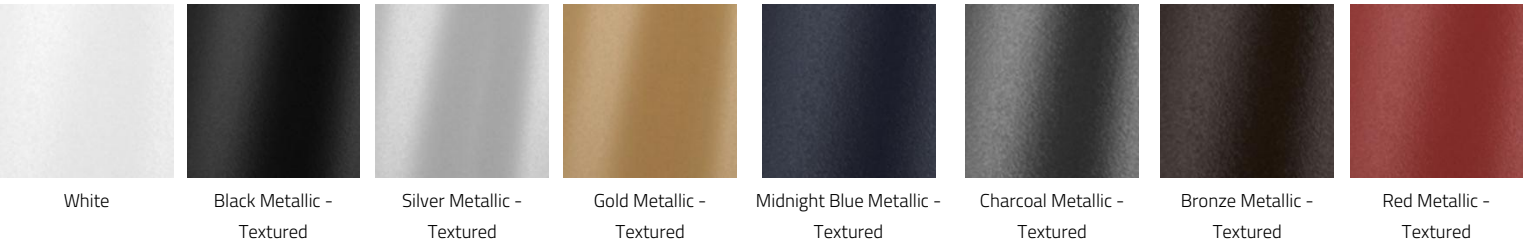
## TECHNICAL DATA

### LUMINAIRE

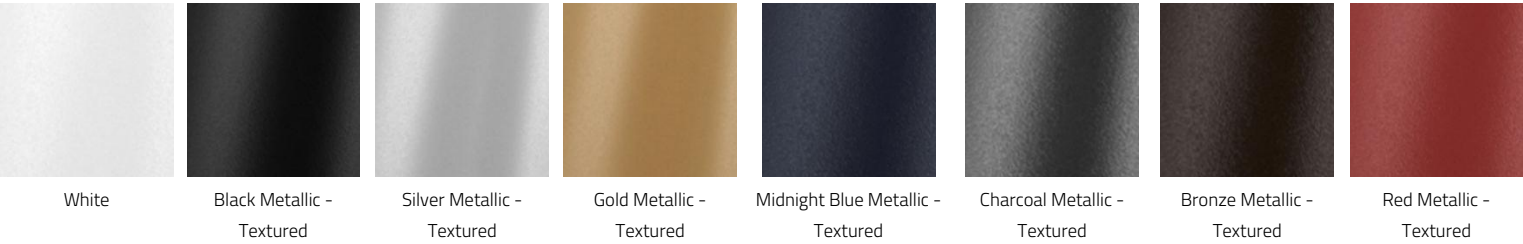
All data shown at max output and nominal values.

Code	MTRP1P01	MTRP2P01	MTRP1P02	MTRP2P02
Light Direction	Direct	Indirect	Direct	Indirect
Max Wattage	93W	93W	44W	44W
Max Delivered lms	10050	10050	5025	5025
Max LPW	124	124	111	111

## FINISH - FIXTURE



## FINISH - CANOPY



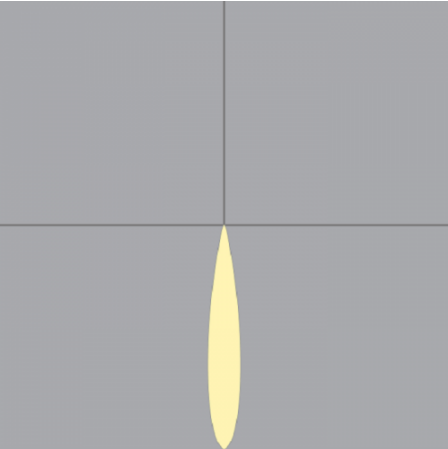
## APPROVALS



# MATREX RD SINGLE™ - SUSPENDED

## PERFORMANCE DATA

### DIRECT 15° BEAM ANGLE

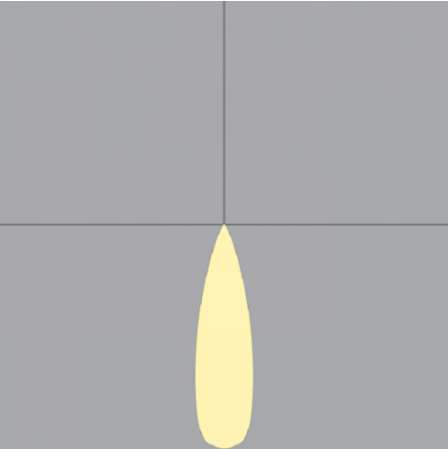


WATTS
19
41
65
93

LUMENS
2500
4900
7400
10000

LPW
132
121
114
106

### DIRECT 30° BEAM ANGLE

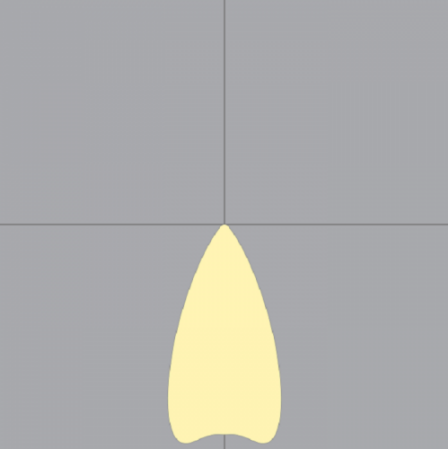


WATTS
19
41
65
93

LUMENS
2500
5025
7500
10050

LPW
135
124
116
108

### DIRECT 50° BEAM ANGLE



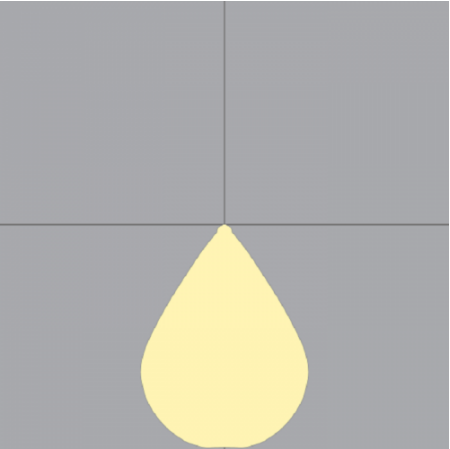
WATTS
19
41
65
93

LUMENS
2400
4800
7100
9500

LPW
128
117
110
102

# MATREX RD SINGLE™ - SUSPENDED

DIRECT 70° BEAM ANGLE



WATTS
19
41
65
93

LUMENS
2400
4800
7200
9600

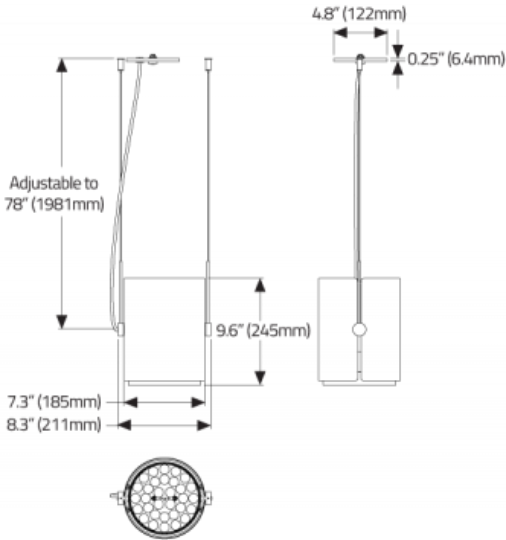
LPW
129
118
111
103



# MATREX RD SINGLE™ - SUSPENDED

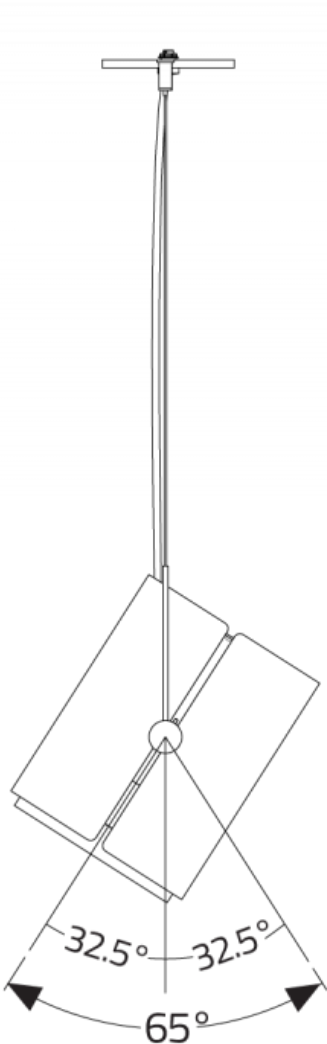
## DIMENSIONAL DIAGRAMS

### FIXTURE PROFILE

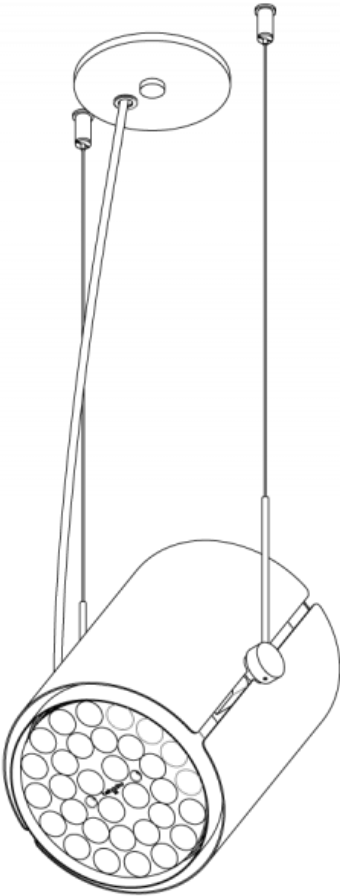


# MATREX RD SINGLE™ - SUSPENDED

DIRECT



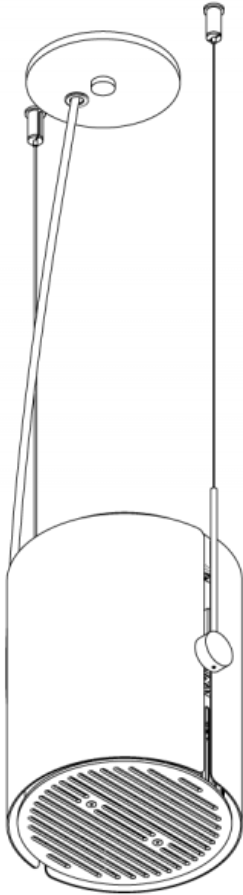
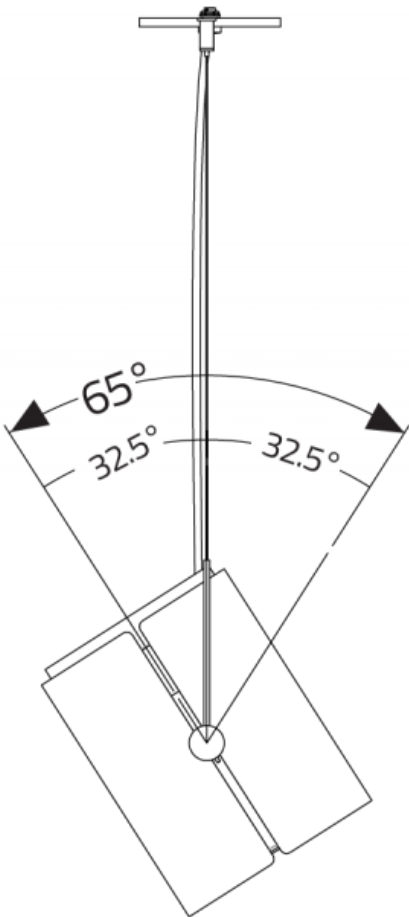
ISOMETRIC BOTTOM VIEW  
(STRAIGHT)



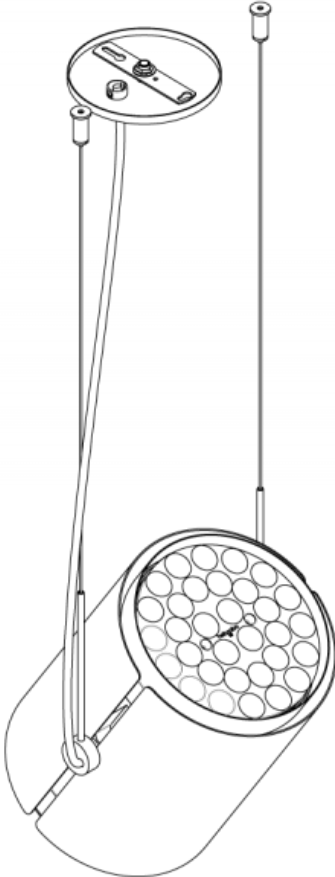
ISOMETRIC VIEW  
(ANGLED)

# MATREX RD SINGLE™ - SUSPENDED

INDIRECT



ISOMETRIC BOTTOM VIEW  
(STRAIGHT)

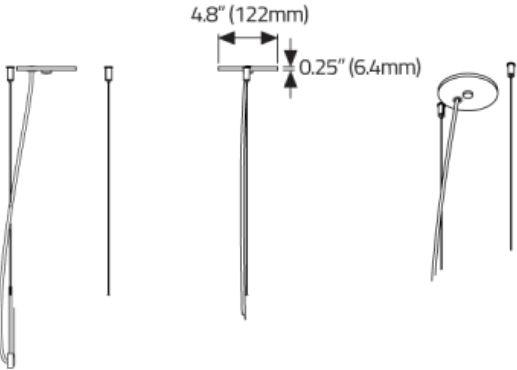


ISOMETRIC VIEW  
(ANGLED)

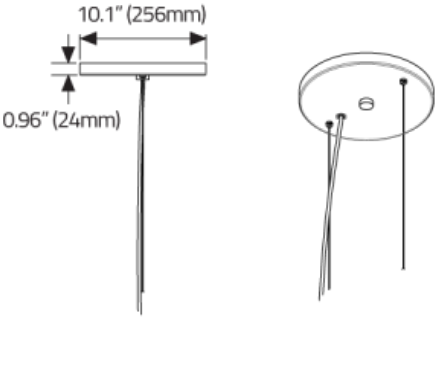
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## CANOPIES

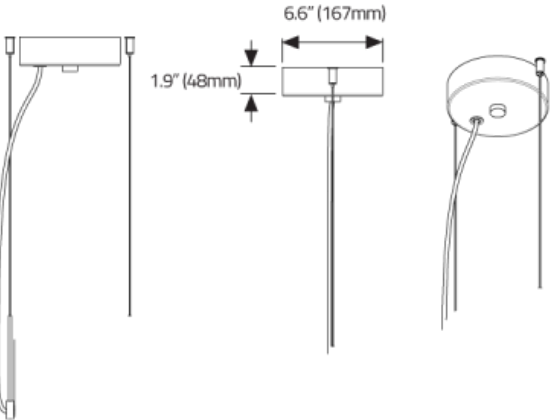
### CANOPY A



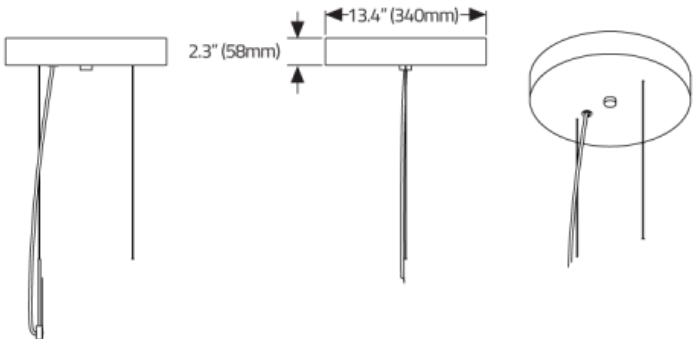
### CANOPY B



### CANOPY C

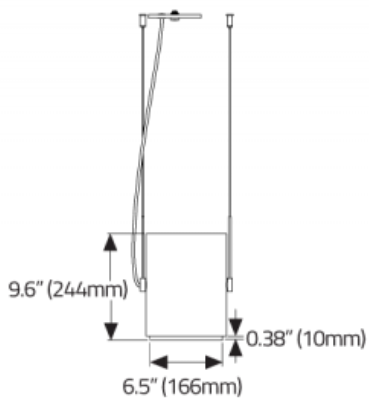


### CANOPY D

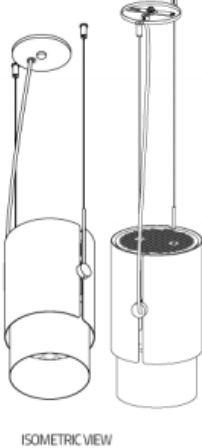
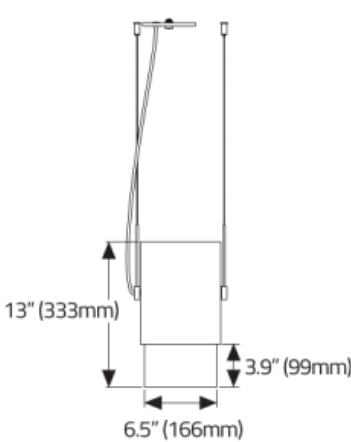


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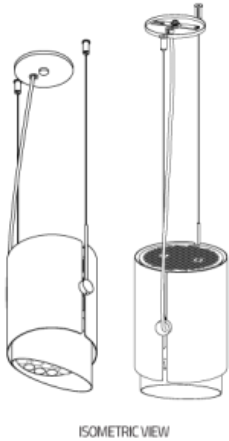
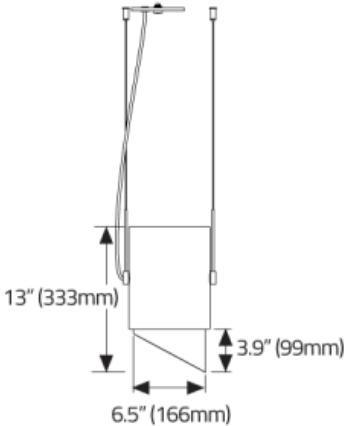
## SNOOTS



STANDARD SNOOT



LONG SNOOT



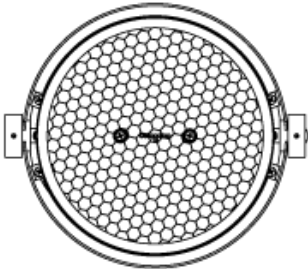
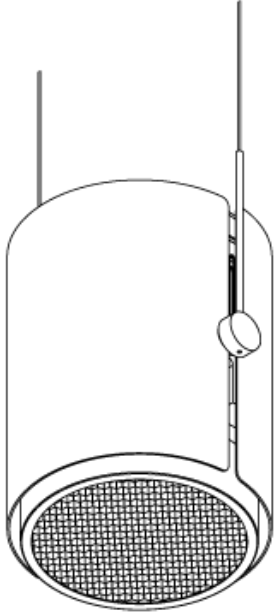
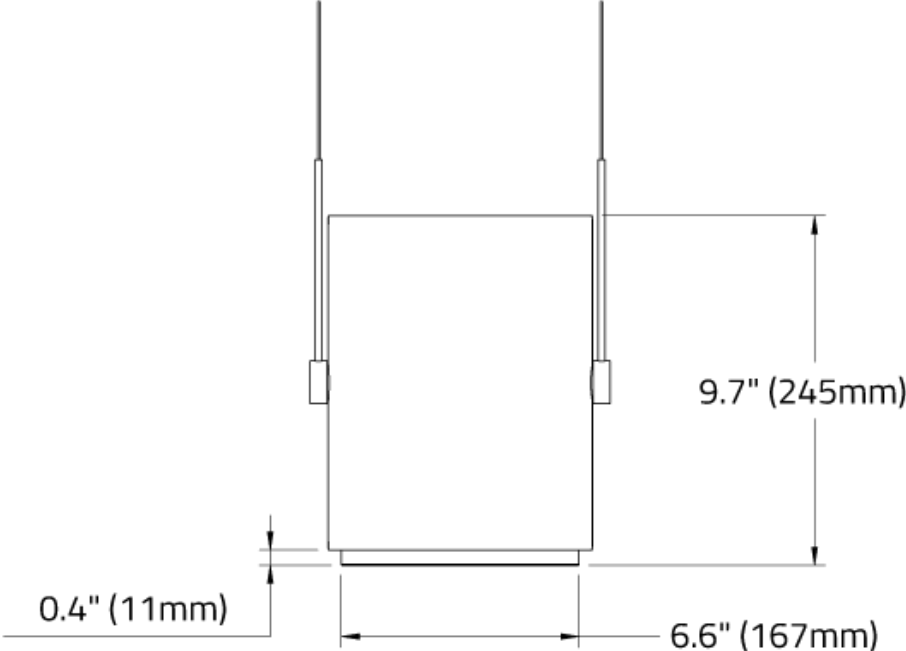
HALF SNOOT



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LOUVRE

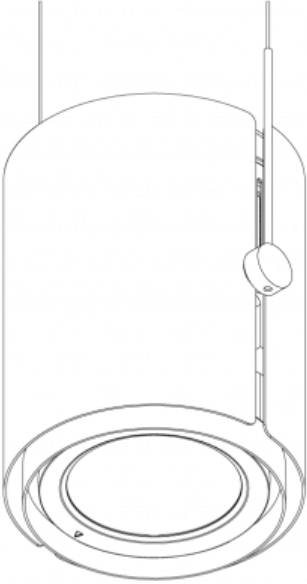
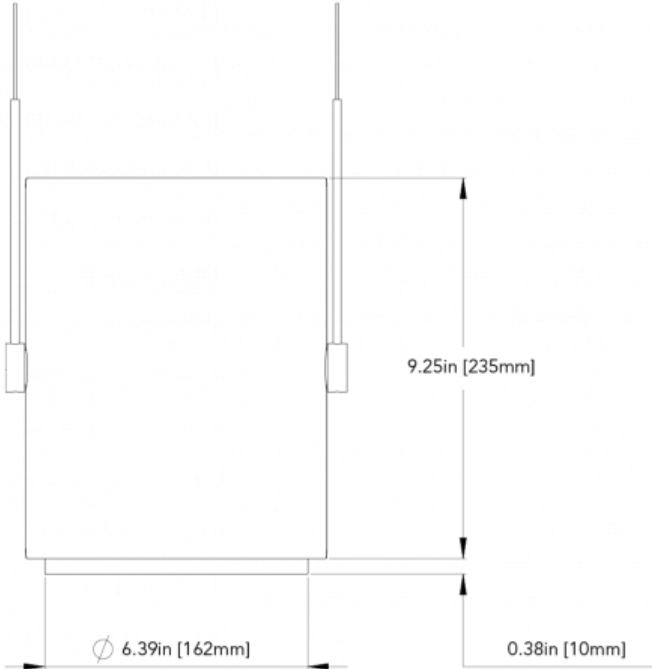
## HEX CELL LOUVRE



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Matrex Round PD - COB

## Matrex RD PD - COB



Isometric View

