

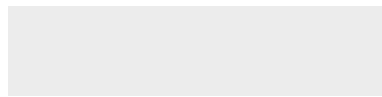


# MATREX RD SINGLE™

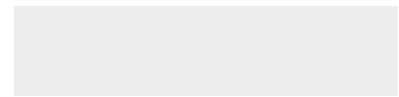
## FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

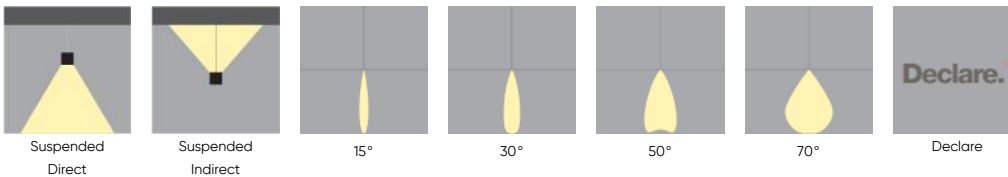


QUANTITIES

### 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. Suspension points originate from the sides allowing for unobstructed uplight. 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.

## 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 & lpm based on 4000K, CRI 80+.

## REPORTED L70 @25°C (77°F)

> 60,000 hrs.

## DESIGNED BY

Serge Cornelissen.

## 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)

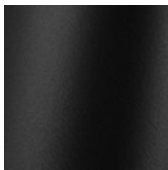
> 171,000 hrs.

## 5 DESIGN OPTIONS

### FINISH - FIXTURE



White



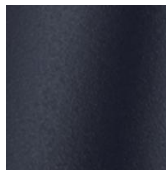
Black  
Metallic -  
Textured



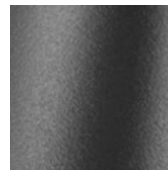
Silver  
Metallic -  
Textured



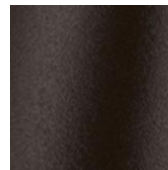
Gold Metallic  
- Textured



Midnight  
Blue Metallic  
- Textured



Charcoal  
Metallic -  
Textured



Bronze  
Metallic -  
Textured

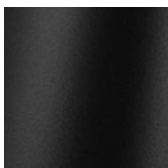


Red Metallic  
- Textured

### FINISH - CANOPY



White



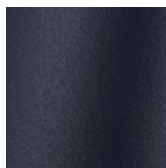
Black  
Metallic -  
Textured



Silver  
Metallic -  
Textured



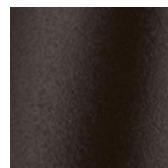
Gold Metallic  
- Textured



Midnight  
Blue Metallic  
- Textured



Charcoal  
Metallic -  
Textured



Bronze  
Metallic -  
Textured



Red Metallic  
- Textured

## 6 HOW TO ORDER

### 1. LUMINAIRE

|  |  |   |   |
|--|--|---|---|
| <b>MTRP1P01</b> Direct, LEDs / Multi-Array Optics, 10050 lms | <b>MTRP2P01</b> Indirect, LEDs / Multi-Array Optics, 10050 lms | <b>MTRP1P02</b> Direct, COB / Reflector, 5025 lms | <b>MTRP2P02</b> Indirect, COB / Reflector, 5025 lms |
|--|--|---|---|

All data shown at max output and nominal values.

### 2. LUMENS

|                     |                     |                                  |                                   |
|---------------------|---------------------|----------------------------------|-----------------------------------|
| <b>LMA0250</b> 2500 | <b>LMA0500</b> 5025 | <b>LMA0750</b> 7500 <sup>1</sup> | <b>LMA1000</b> 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.

### 3. CRI

|                     |                                  |
|---------------------|----------------------------------|
| <b>CR80</b> CRI 80+ | <b>CR90</b> CRI 90+ <sup>1</sup> |
|---------------------|----------------------------------|

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

### 4. CCT/CRI

|                                 |                    |                    |                    |
|---------------------------------|--------------------|--------------------|--------------------|
| <b>CTA27</b> 2700K <sup>1</sup> | <b>CTA30</b> 3000K | <b>CTA35</b> 3500K | <b>CTA40</b> 4000K |
|---------------------------------|--------------------|--------------------|--------------------|

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

### 5. BEAM ANGLE

|                              |                              |                 |                              |
|------------------------------|------------------------------|-----------------|------------------------------|
| <b>BA15</b> 15° <sup>1</sup> | <b>BA30</b> 30° <sup>1</sup> | <b>BA50</b> 50° | <b>BA70</b> 70° <sup>1</sup> |
|------------------------------|------------------------------|-----------------|------------------------------|

<sup>1</sup> 15°, 30°, and 70° are not available with COB / Reflector.

### 6. VOLTAGE

|                    |                             |                             |
|--------------------|-----------------------------|-----------------------------|
| <b>V1</b> 120/277V | <b>V2</b> 240V <sup>1</sup> | <b>V3</b> 347V <sup>2</sup> |
|--------------------|-----------------------------|-----------------------------|

<sup>1</sup> Not available in North America. <sup>2</sup> Only available with DA01 dimming.

## 7. DIMMING

|  |   |  |  |
|--|---|--|--|
| <b>DA01</b> 0–10V Dimming 1.0%           | <b>DA02</b> 0–10V Dimming 0.1% <sup>1</sup> | <b>DA20</b> DALI Dimming 0.1% <sup>1</sup> | <b>DA21</b> DALI Dimming 1.0% <sup>1</sup> |
| <b>DA30</b> DSI/switchDim <sup>1 2</sup> | <b>DA40</b> 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.

## 8. FIXTURE FINISH

|   |  |  |                                      |
|---|--|--|--------------------------------------|
| <b>FA01</b> White                             | <b>FA02</b> Black Metallic – Textured    | <b>FA20</b> Silver Metallic – Textured | <b>FA25</b> Gold Metallic – Textured |
| <b>FA44</b> Midnight Blue Metallic – Textured | <b>FA46</b> Charcoal Metallic – Textured | <b>FA47</b> Bronze Metallic – Textured | <b>FA53</b> Red Metallic – Textured  |

## 9. CANOPY

|                                  |                                  |                                    |                                    |
|----------------------------------|----------------------------------|------------------------------------|------------------------------------|
| <b>CN1</b> Canopy A <sup>1</sup> | <b>CN2</b> Canopy B <sup>1</sup> | <b>CN3</b> Canopy C <sup>1 2</sup> | <b>CN4</b> Canopy D <sup>1 3</sup> |
|----------------------------------|----------------------------------|------------------------------------|------------------------------------|

<sup>1</sup> Fits over a standard j-box (provided by others). <sup>2</sup> Use with V2 only. <sup>3</sup> Ordered with E1 (Emergency Integral) or DA40 (DMX Dimming).

## 10. CANOPY FINISH

|   |  |  |                                      |
|---|--|--|--------------------------------------|
| <b>CF01</b> White                             | <b>CF02</b> Black Metallic – Textured    | <b>CF20</b> Silver Metallic – Textured | <b>CF25</b> Gold Metallic – Textured |
| <b>CF44</b> Midnight Blue Metallic – Textured | <b>CF46</b> Charcoal Metallic – Textured | <b>CF47</b> Bronze Metallic – Textured | <b>CF53</b> Red Metallic – Textured  |

## 11. SNOOTS AND LOUVER

|  |  |  |  |
|--|--|--|--|
| <b>NT1</b> Standard Snoot – Black <sup>1</sup> | <b>NT2</b> Standard Snoot – White <sup>1</sup> | <b>NT3</b> Long Snoot – Black <sup>1 2</sup> | <b>NT4</b> Long Snoot – White <sup>1 2</sup> |
| <b>NT5</b> Half Snoot – Black <sup>1 2</sup>   | <b>NT6</b> Half Snoot – White <sup>1 2</sup>   | <b>NT9</b> 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> Snoot must be picked at time of order, if not ordering a louver. <sup>2</sup> Unavailable with COB / Reflector.

<sup>3</sup> Unavailable with BA70 beam angle. Available with Direct only.

## 12. EMERGENCY

|   |  |
|---|--|
| <b>E0</b> Emergency system not required | <b>E1</b> Emergency system – Integral <sup>1</sup> |
|   | <sup>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.

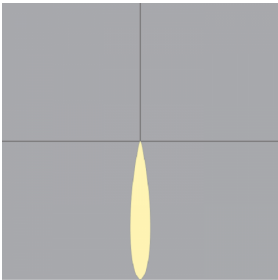
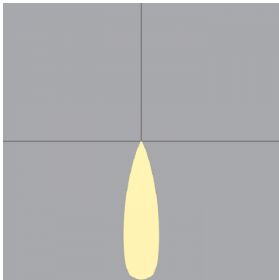
7
TECHNICAL DATA

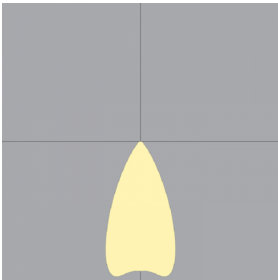
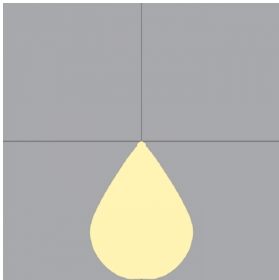
LUMINAIRE

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      |

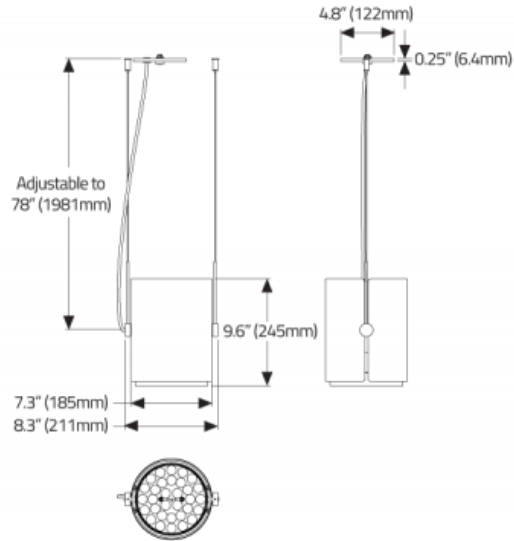
8
PERFORMANCE DATA

| DIRECT 15° BEAM ANGLE   | WATTS | LUMENS | LPW | DIRECT 30° BEAM ANGLE   | WATTS | LUMENS | LPW |
|---|-------|--------|-----|---|-------|--------|-----|
|  | 19    | 2500   | 132 |  | 19    | 2500   | 135 |
|   | 41    | 4900   | 121 |   | 41    | 5025   | 124 |
|   | 65    | 7400   | 114 |   | 65    | 7500   | 116 |
|   | 93    | 10000  | 106 |   | 93    | 10050  | 108 |

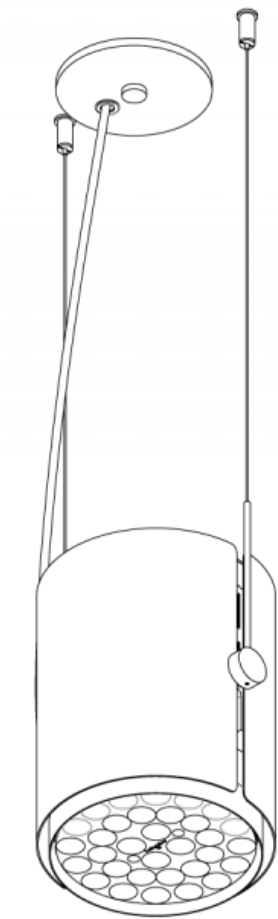
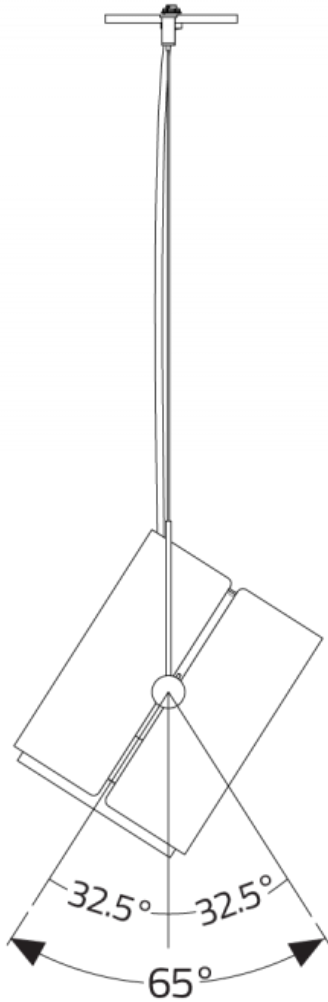
| DIRECT 50° BEAM ANGLE  | WATTS | LUMENS | LPW | DIRECT 70° BEAM ANGLE  | WATTS | LUMENS | LPW |
|--|-------|--------|-----|--|-------|--------|-----|
|  | 19    | 2400   | 128 |  | 19    | 2400   | 129 |
|  | 41    | 4800   | 117 |  | 41    | 4800   | 118 |
|  | 65    | 7100   | 110 |  | 65    | 7200   | 111 |
|  | 93    | 9500   | 102 |  | 93    | 9600   | 103 |

9 DIMENSIONAL DIAGRAMS

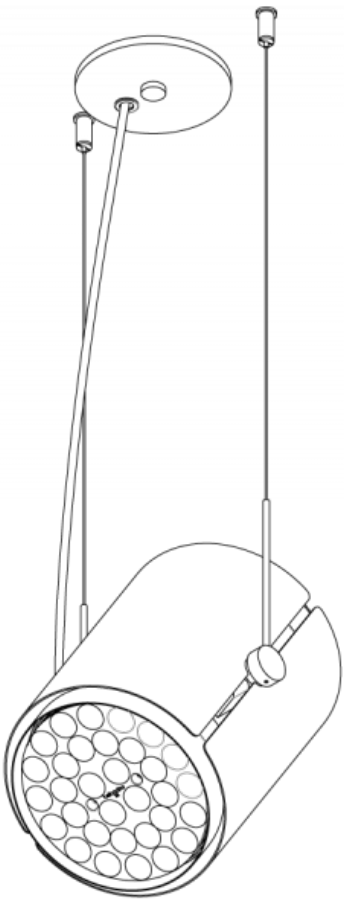
FIXTURE PROFILE



DIRECT

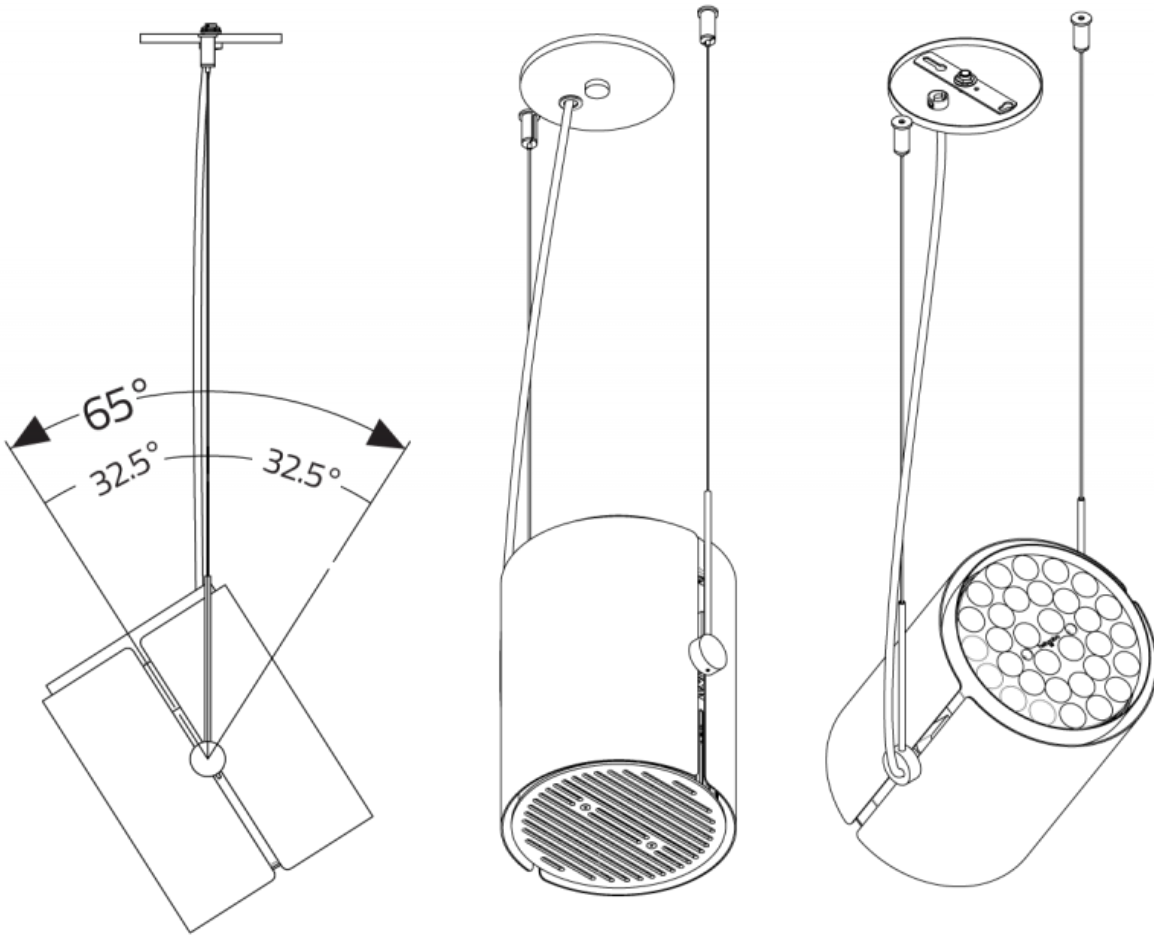


ISOMETRIC BOTTOM VIEW  
(STRAIGHT)



ISOMETRIC VIEW  
(ANGLED)

INDIRECT



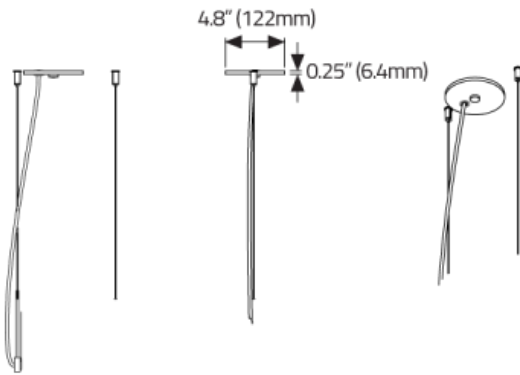
ISOMETRIC BOTTOM VIEW  
(STRAIGHT)

ISOMETRIC VIEW  
(ANGLED)

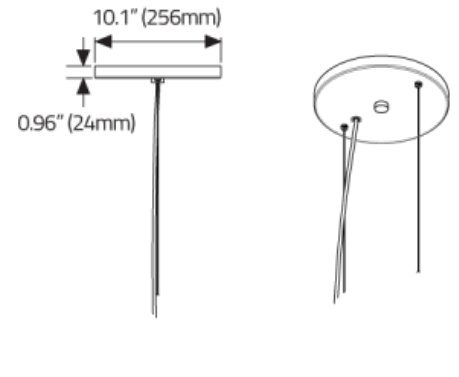


CANOPIES

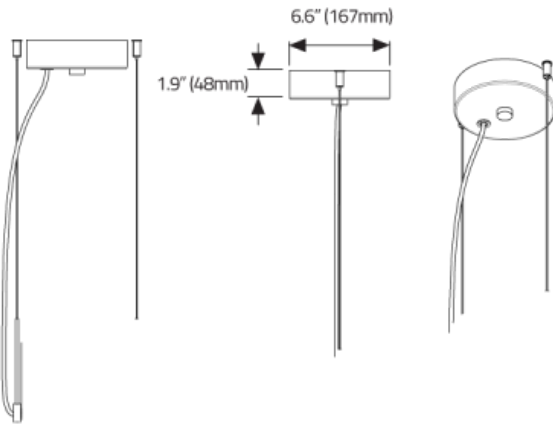
CANOPY A



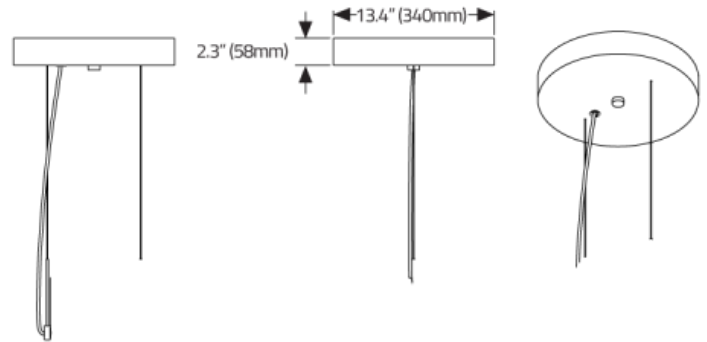
CANOPY B



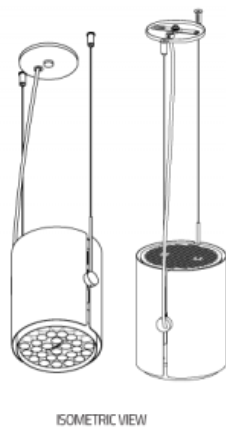
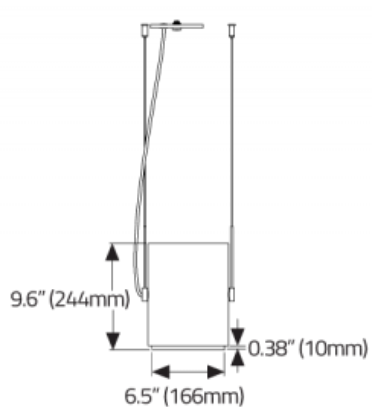
CANOPY C



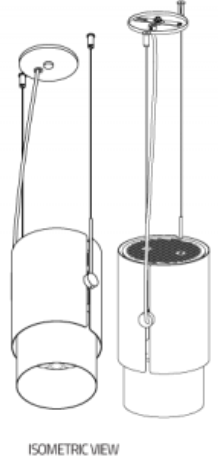
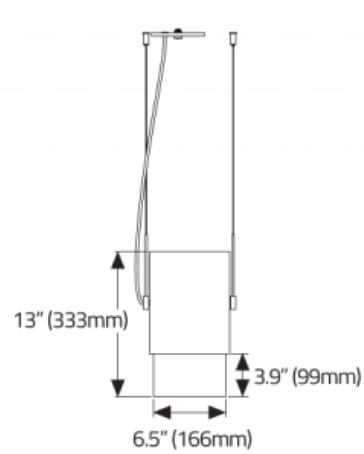
CANOPY D



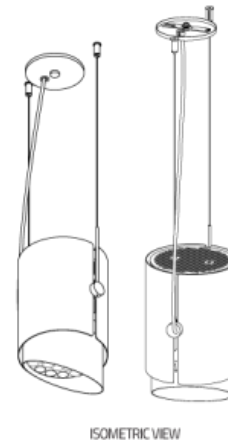
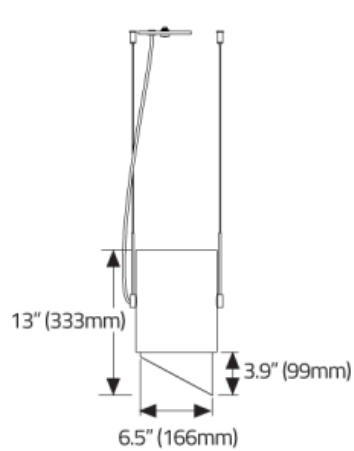
## SNOOTS



STANDARD SNOOT



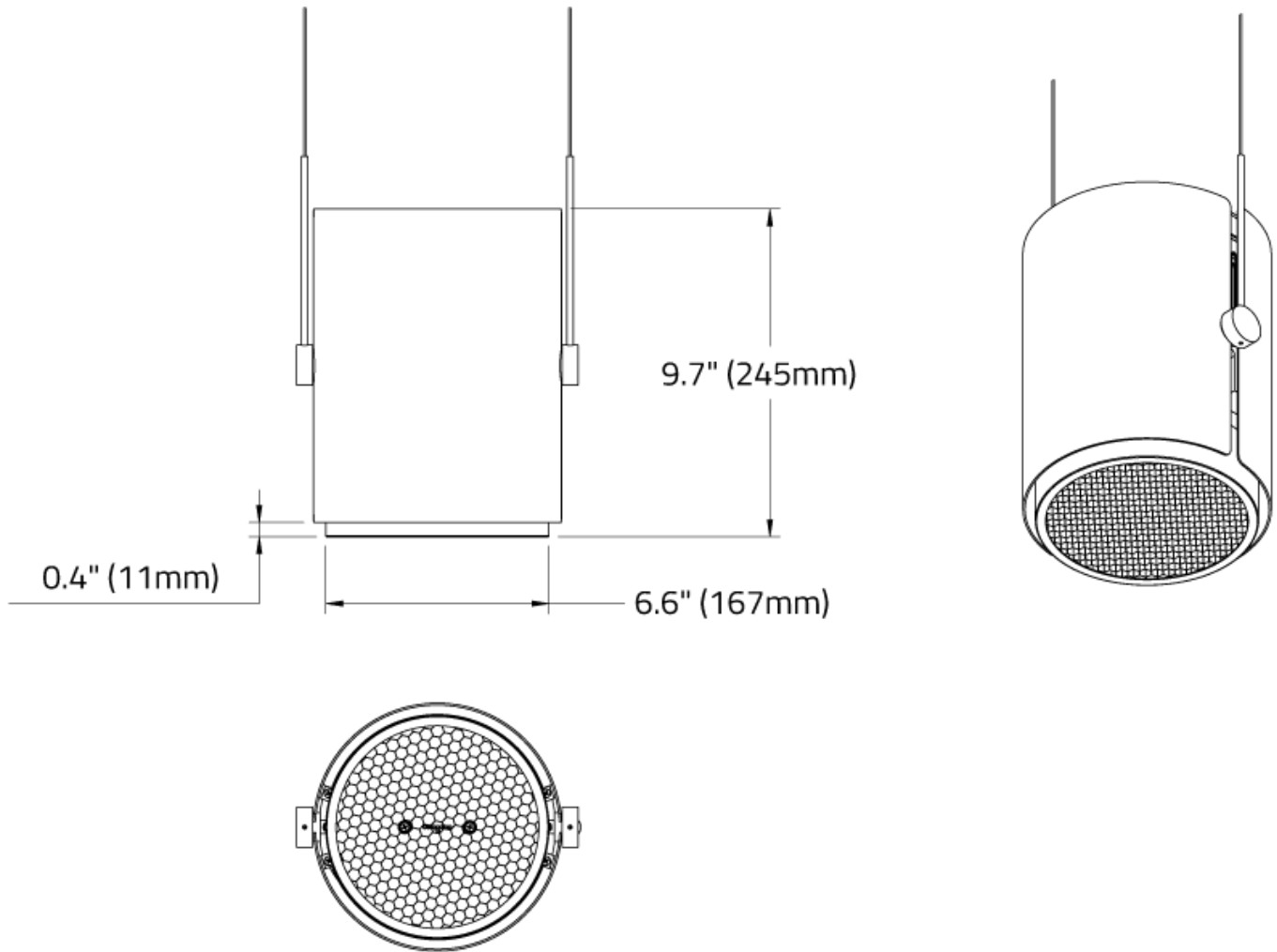
LONG SNOOT



HALF SNOOT

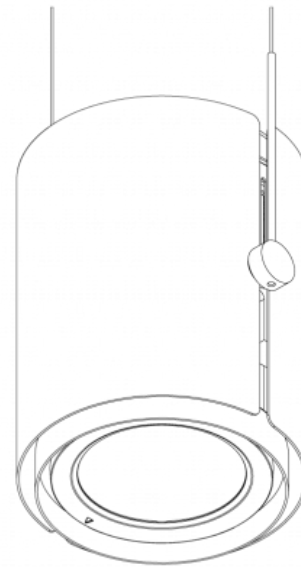
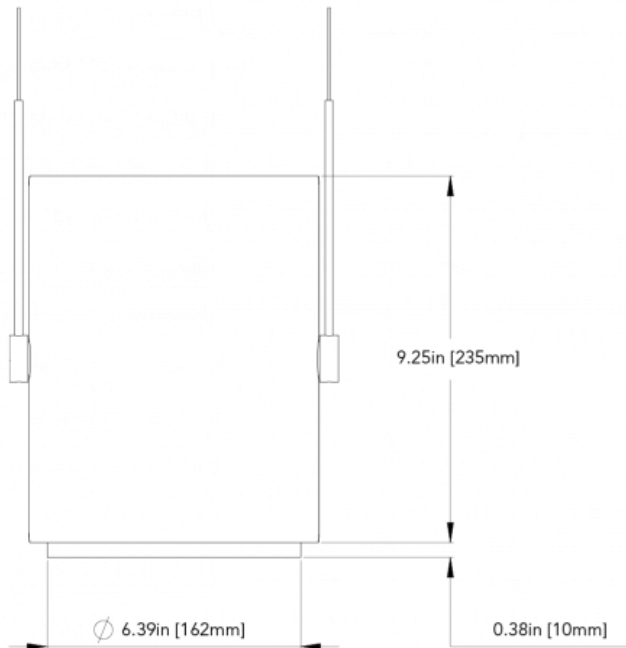
LOUVRE

HEX CELL LOUVRE



Matrex Round PD - COB

## Matrex RD PD - COB



Isometric View

