

# MATREX RD DUAL™ - SUSPENDED

Project Name:

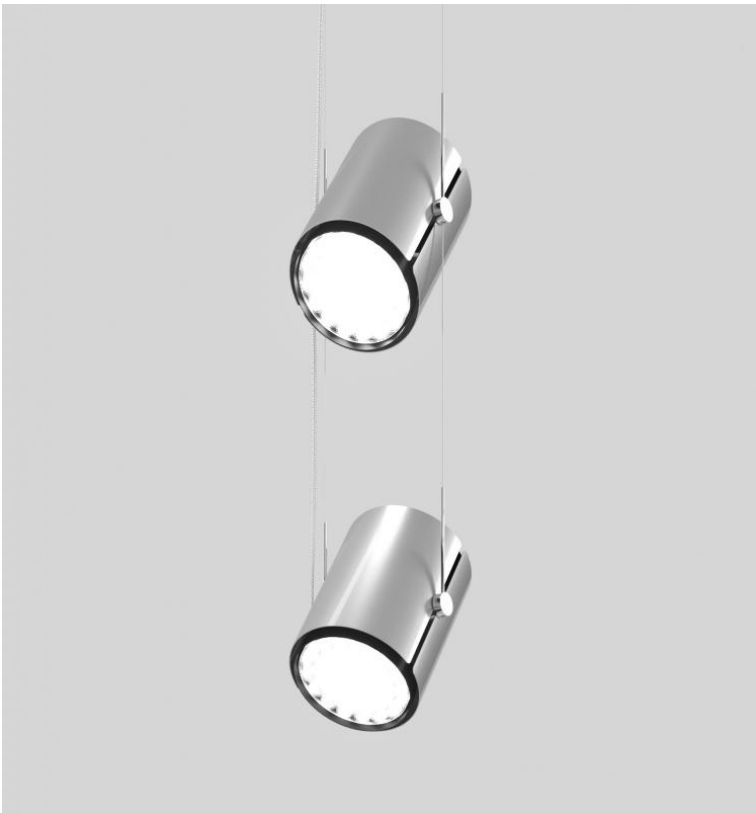
Fixture Type:

Fixture Code:

Quantities:



MATREX RD DUAL™ - SUSPENDED



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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 (EU only)

Emergency option provides a 3 hour emergency lighting facility. Integral emergency EU luminaires have a 13.4" (340mm) x 2.3" (58mm) canopy with LED charge indicator.

### 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, then the driver is integral to the canopy.

### Sensors

Consult factory regarding sensor compatibility.

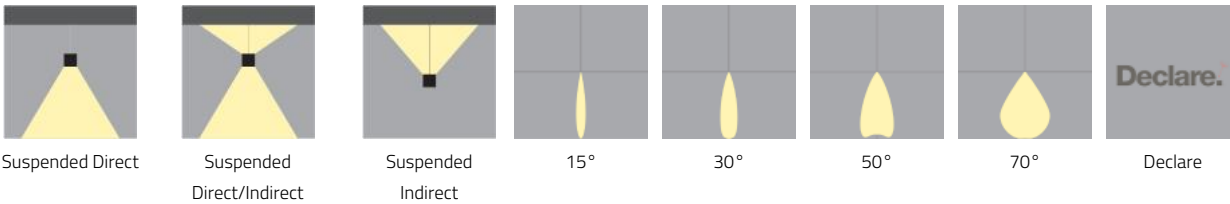
### Approvals

Damp Rated.

### Estimated L70 @25°C (77°F)

> 171,000 hrs.

## MOUNTING & OPTICS



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## HOW TO ORDER

### A. LUMINAIRE

**MRDP1P01** Double Down, LEDs / Multi-Array Optics, 20100 lms

**MRDP2P01** Direct/Indirect, LEDs / Multi-Array Optics, 20100 lms

**MRDP3P01** Double Up, LEDs / Multi-Array Optics, 20100 lms

**MRDP1P02** Double Down, COB / Reflector, 10050 lms

**MRDP2P02** Direct/Indirect, COB / Reflector, 10050 lms

**MRDP3P02** Double Up, COB / Reflector, 10050 lms

All data shown at max output and nominal values.

### B. LUMENS (UPPER MODULE)

**LMA0250** 2500

**LMA0500** 5025

**LMA0750** 7500<sup>1</sup>

**LMA1000** 10050<sup>1</sup>

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

### C. LUMENS (LOWER MODULE)

**LMB0250** 2500

**LMB0500** 5025

**LMB0750** 7500<sup>1</sup>

**LMB1000** 10050<sup>1</sup>

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

### D. CRI

**CR80** CRI 80+

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

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

### E. CCT

**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.

### F. BEAM ANGLE (UPPER MODULE)

**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.

### G. BEAM ANGLE (LOWER MODULE)

**BB15** 15°<sup>1</sup>

**BB30** 30°<sup>1</sup>

**BB50** 50°

**BB70** 70°<sup>1</sup>

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

### H. 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.



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## I. DIMMING

**DA01** 0-10V Dimming 1.0%  
**DA30** DSI/switchDim<sup>1 2</sup>

**DA02** 0-10V Dimming 0.1%<sup>1</sup>  
**DA40** DMX Dimming<sup>1 3</sup>

**DA20** DALI Dimming 0.1%<sup>1</sup>

**DA21** DALI Dimming 1.0%<sup>1</sup>

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

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

<sup>3</sup> Only available with CN4 canopy.

## J. FIXTURE FINISH

**FA01** White

**FA02** Black Metallic - Textured

**FA20** Silver 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

## K. 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 (240V) only.

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

## L. 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

## M. SNOOTS AND LOUVER (UPPER MODULE)

**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>

Consult IES files for exact beam angle and delivered lumens.

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 Double Down version only.

## N. SNOOTS AND LOUVER (LOWER MODULE)

**NU1** Standard Snoot - Black<sup>1</sup>

**NU2** Standard Snoot - White<sup>1</sup>

**NU3** Long Snoot - Black<sup>1 2</sup>

**NU4** Long Snoot - White<sup>1 2</sup>

**NU5** Half Snoot - Black<sup>1 2</sup>

**NU6** Half Snoot - White<sup>1 2</sup>

**NU9** Hex Louver - Black<sup>2 3</sup>

Consult IES files for exact beam angle and delivered lumens.

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 BB70 beam angle.

## O. EMERGENCY

**E0** Emergency system not required

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

<sup>1</sup> Integral emergency in the lower module only, drivers are in the canopy. Not available with 347V. Two power cables will be supplied.

<sup>2</sup> CN4 canopy only used when ordering emergency or DMX. Two power cables supplied.



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## P. SEPARATE SWITCHING

**CS1** Single circuit

**CS2** Separate switching <sup>1</sup>

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<sup>1</sup> Two power cables will be supplied.

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## TECHNICAL DATA

### LUMINAIRE

All data shown at max output and nominal values.

Code	MRDP1P01	MRDP2P01	MRDP3P01	MRDP1P02	MRDP2P02	MRDP3P02
Light Direction	Double Down	Direct/Indirect	Double Up	Double Down	Direct/Indirect	Double Up
Max Wattage	186W	186W	186W	88W	88W	88W
Max Delivered lms	20100	20100	20100	10050	10050	10050
Max LPW	124	124	124	111	111	111

## FINISH - FIXTURE



White

Black Metallic -  
Textured

Silver 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

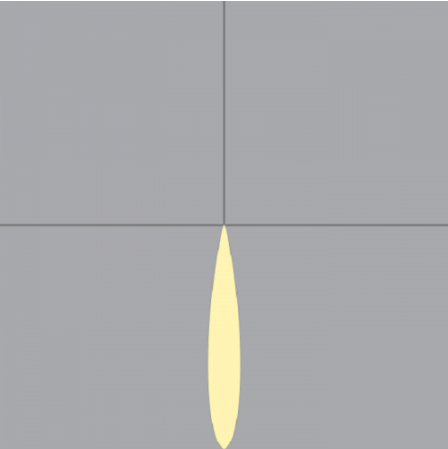
## APPROVALS



# MATREX RD DUAL™ - SUSPENDED

## PERFORMANCE DATA

### DIRECT 15° BEAM ANGLE

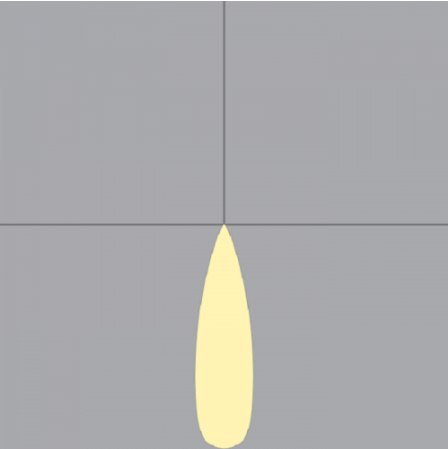


WATTS
38
82
130
186

LUMENS
5000
9800
14800
20000

LPW
132
121
114
106

### DIRECT 30° BEAM ANGLE

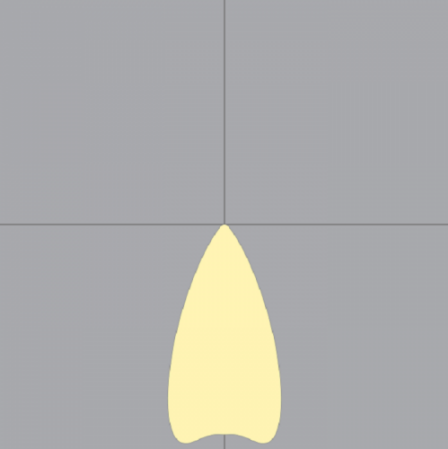


WATTS
38
82
130
186

LUMENS
5000
10050
15000
20100

LPW
135
124
116
108

### DIRECT 50° BEAM ANGLE



WATTS
38
82
130
186

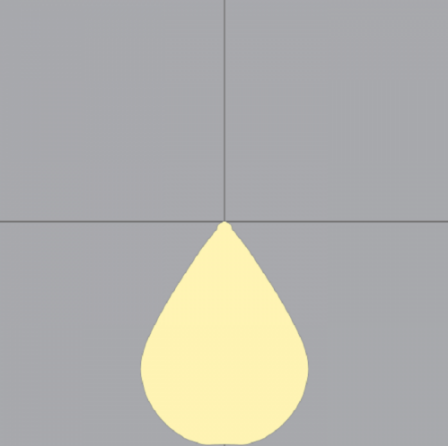
LUMENS
4800
9600
14200
19000

LPW
128
117
110
102



# MATREX RD DUAL™ - SUSPENDED

DIRECT 70° BEAM ANGLE



WATTS
38
82
130
186

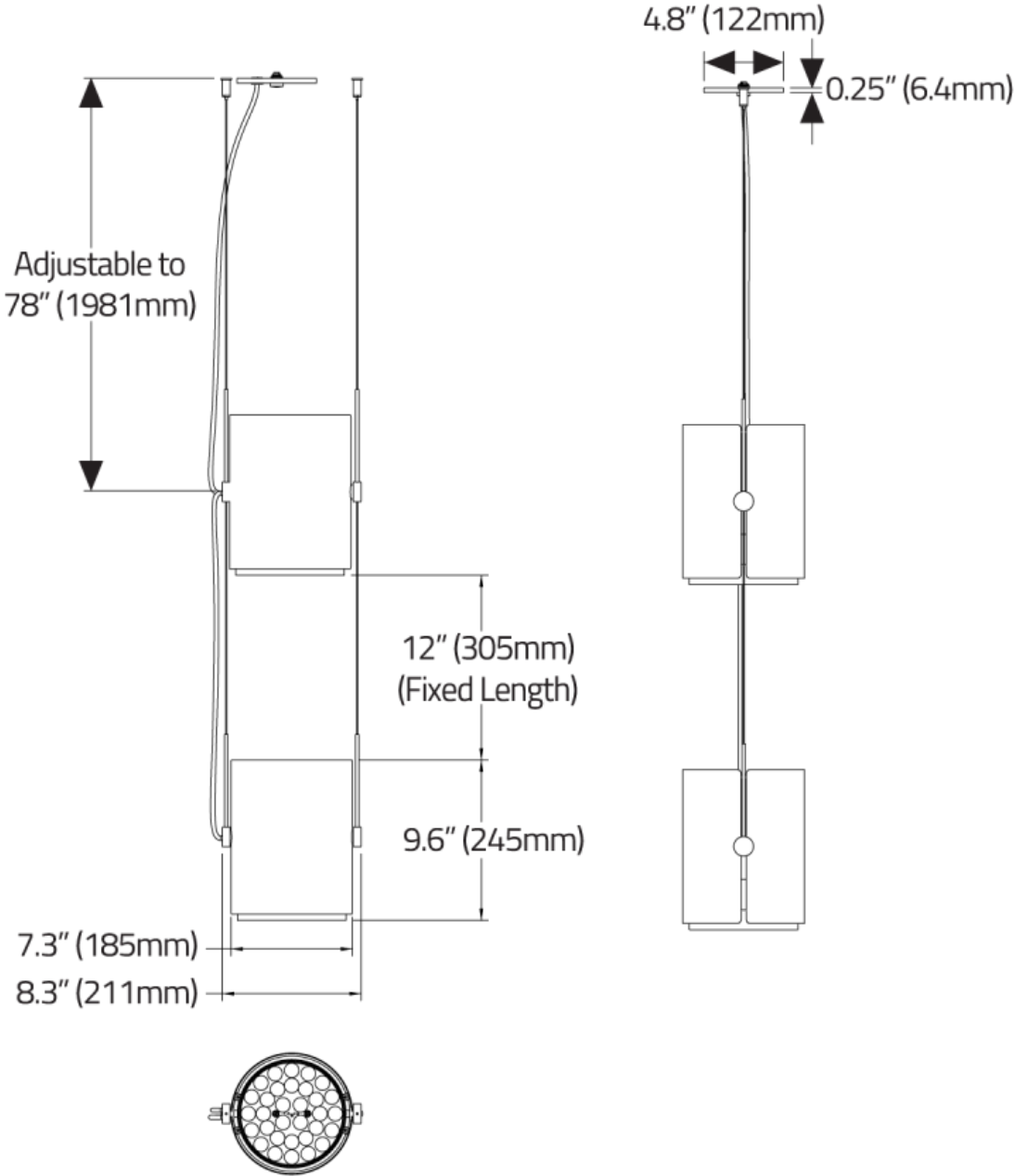
LUMENS
4800
9600
14400
19200

LPW
129
118
111
103

# MATREX RD DUAL™ - SUSPENDED

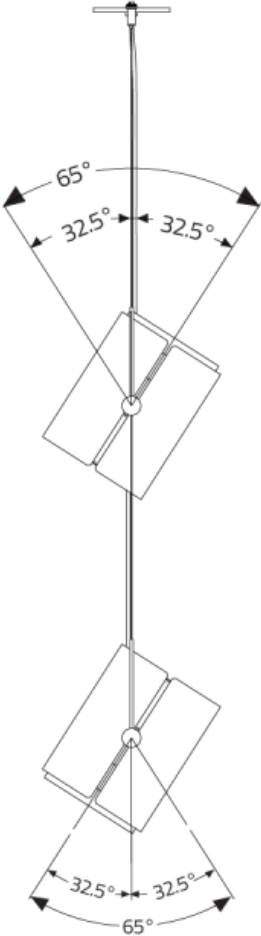
## DIMENSIONAL DIAGRAMS

### FIXTURE PROFILE

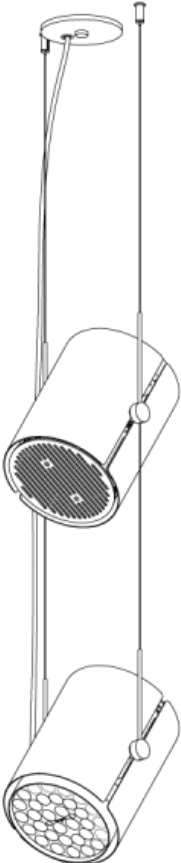


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DIRECT/INDIRECT



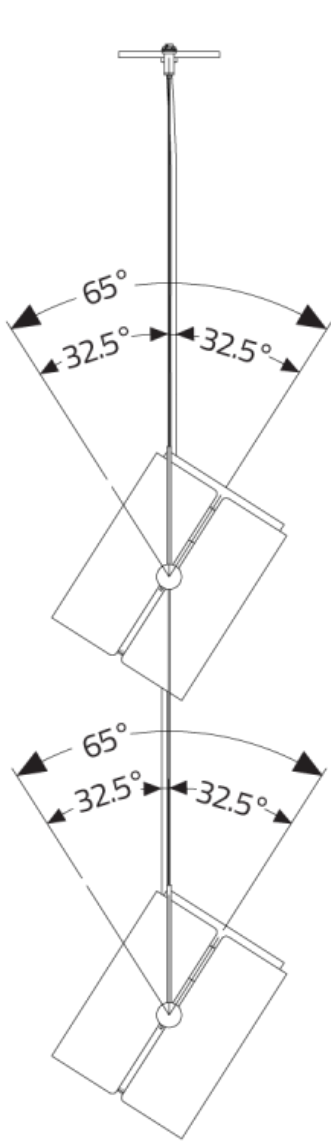
ISOMETRIC BOTTOM VIEW (STRAIGHT)



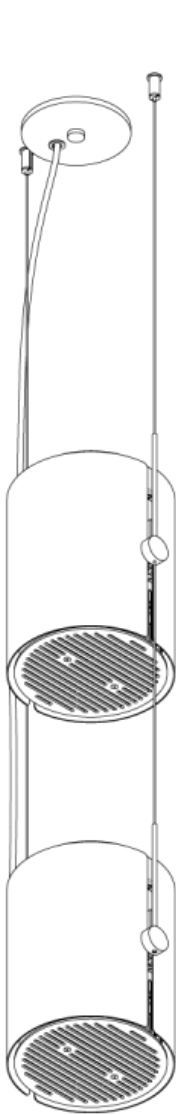
ISOMETRIC VIEW (ANGLED)

# MATREX RD DUAL™ - SUSPENDED

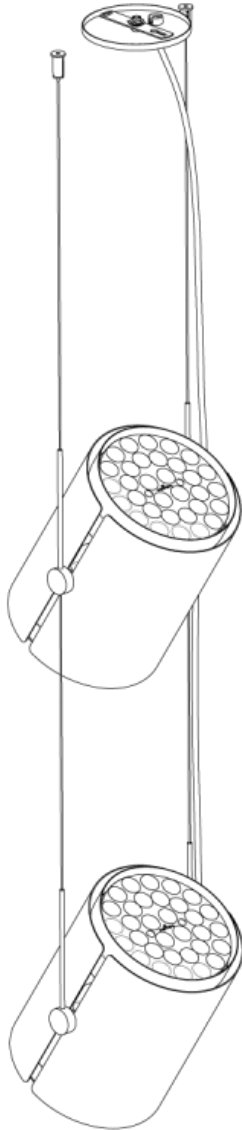
DOUBLE UP



ISOMETRIC BOTTOM VIEW  
(STRAIGHT)

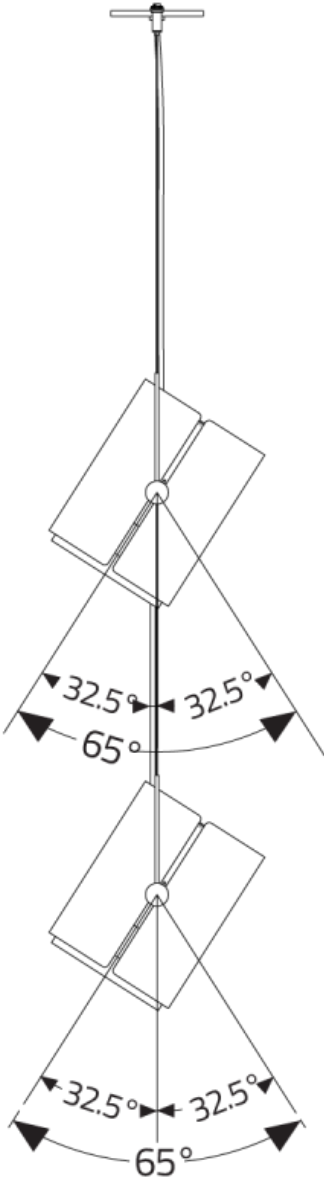


ISOMETRIC VIEW  
(ANGLED)

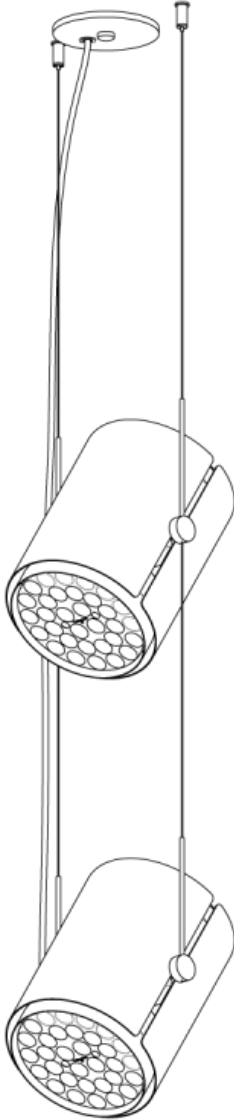
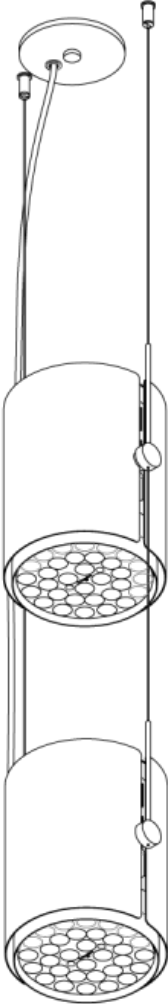


# MATREX RD DUAL™ - SUSPENDED

DOUBLE DOWN



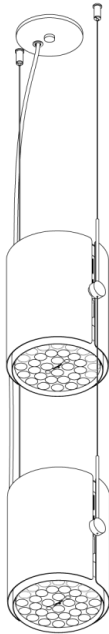
ISOMETRIC BOTTOM VIEW (STRAIGHT)



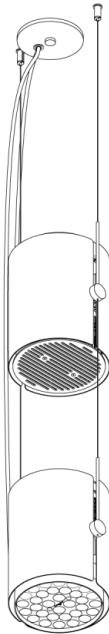
ISOMETRIC VIEW (ANGLED)

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SEPARATE SWITCHING (CS1, CS2)



SINGLE SWITCHING

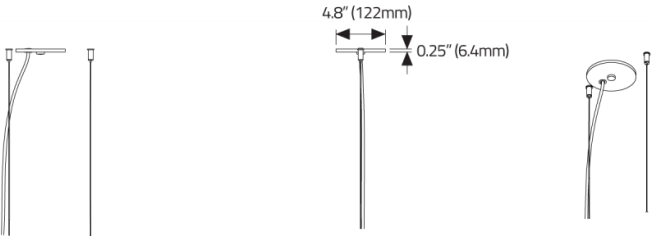


SEPARATE SWITCHING  
(Two power cables supplied)

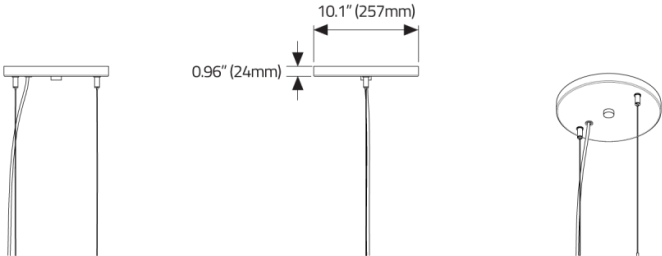
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## CANOPIES

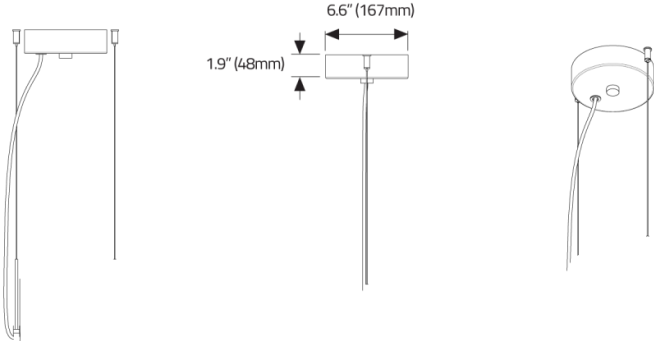
CANOPY A



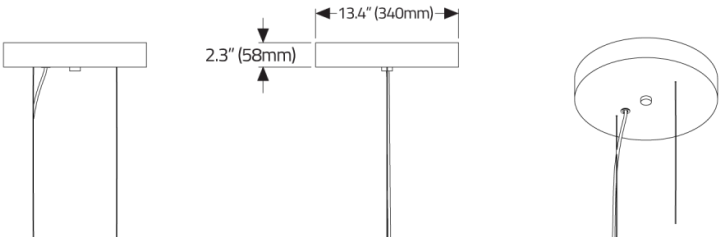
CANOPY B



CANOPY C

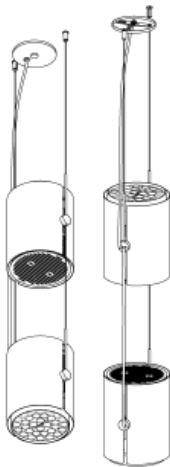
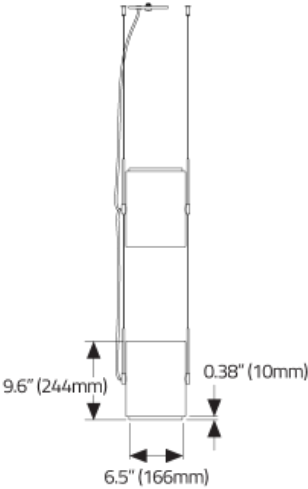


CANOPY D



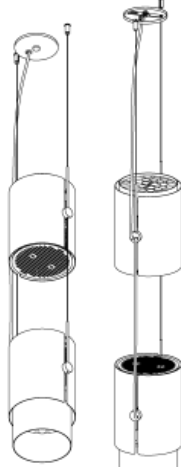
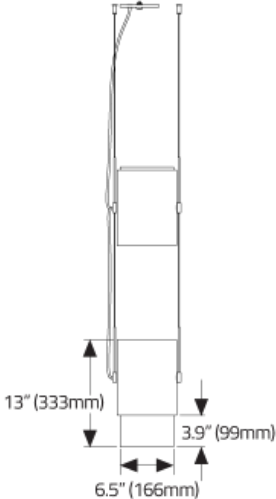
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## SNOOTS



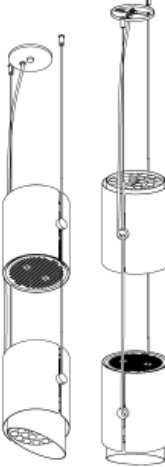
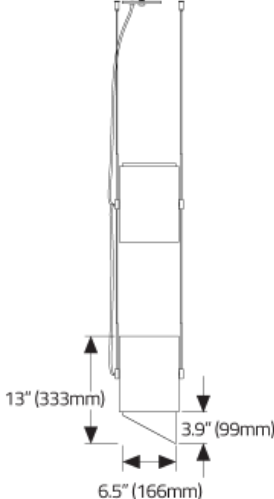
ISOMETRIC VIEW

STANDARD SNOOT



ISOMETRIC VIEW

LONG SNOOT



ISOMETRIC VIEW

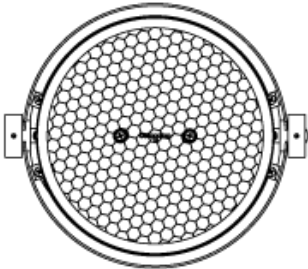
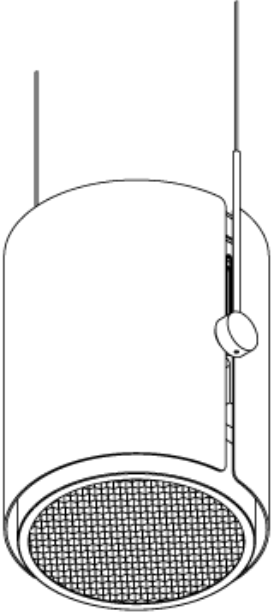
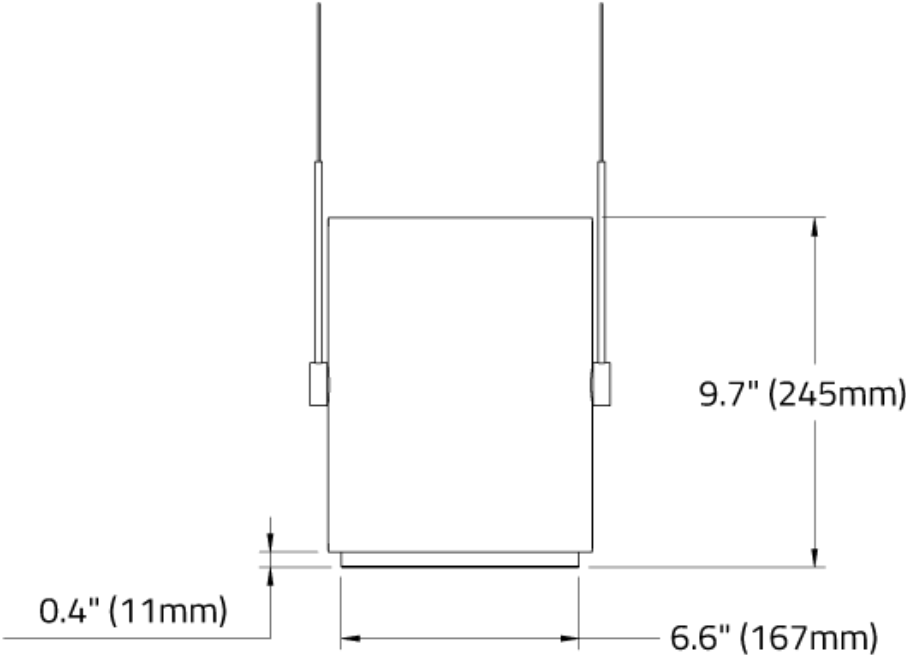
HALF SNOOT



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LOUVRE

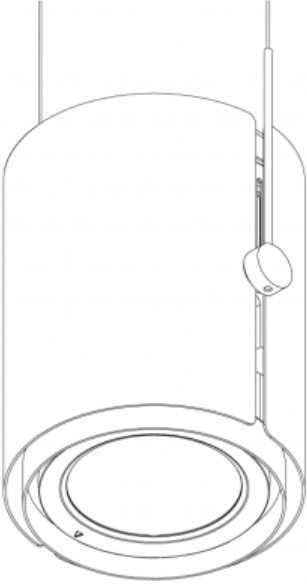
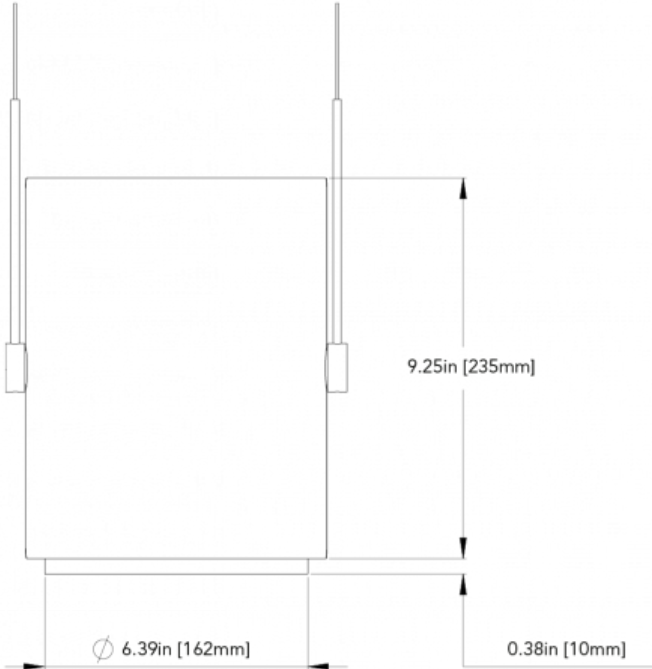
## HEX CELL LOUVRE



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Matrex Round PD - COB

## Matrex RD PD - COB



Isometric View

