

MATREX RD SINGLE™ - SURFACE

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.

### Drivers

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

### Remote emergency system (North America only)

Emergency option provides a 1.5 hour 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 4.5m/15'). Test switch fits a single gang box (not supplied).

### Sensors

Consult factory regarding sensor compatibility.

### Approvals

Damp Rated.

### Finish

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

### 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.

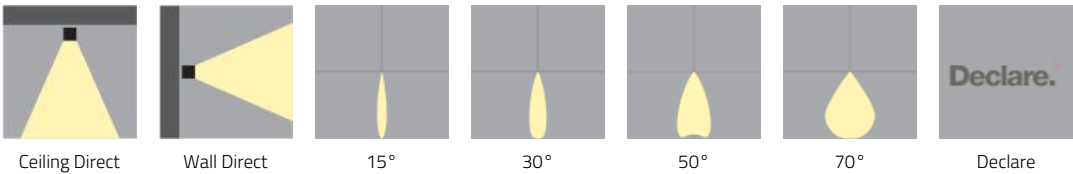
### Delivered lumens

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

### Designed by

Serge Cornelissen.

## OPTICS & FEATURES



# MATREX RD SINGLE™ - SURFACE

## HOW TO ORDER

### A. LUMINAIRE

<b>MTRF1P01</b> Direct, LEDs / Multi-Array Optics, 10050 lms	<b>MTRF1P02</b> Direct, COB / Reflector, 5025 lms
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All data shown at max output and nominal values.

### B. LUMENS

<b>LMA0250</b> 2500	<b>LMA0500</b> 5025	<b>LMA0750</b> 7500 <sup>1</sup>	<b>LMA1000</b> 10050 <sup>1</sup>
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<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

<b>CR80</b> CRI 80+	<b>CR90</b> CRI 90+ <sup>1</sup>
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<sup>1</sup> Not available with COB / Reflector.

### D. CCT

<b>CTA27</b> 2700K <sup>1</sup>	<b>CTA30</b> 3000K	<b>CTA35</b> 3500K	<b>CTA40</b> 4000K
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<sup>1</sup> 2700K is only available with CRI 80+ and LEDs / Multi-Array Optics.

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

### F. VOLTAGE

<b>V1</b> 120/277V	<b>V2</b> 240V <sup>1</sup>	<b>V3</b> 347V <sup>2</sup>
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<sup>1</sup> Not available in North America.  
<sup>2</sup> Only available with DA01 dimming.

### G. DIMMING

<b>DA01</b> 0-10V Dimming 1.0% <b>DA30</b> DSI/switchDim <sup>1 2</sup>	<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>
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<sup>1</sup> Not available with V3.  
<sup>2</sup> Not available in North America.

### H. 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

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## I. 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> 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.

## J. EMERGENCY

<b>E0</b> Emergency system not required	<b>E2</b> Emergency system - Remote <sup>1</sup>
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<sup>1</sup> Not available with V3. Integral not available.

# MATREX RD SINGLE™ - SURFACE


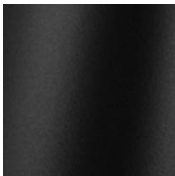



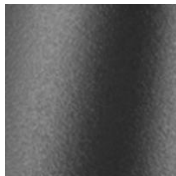

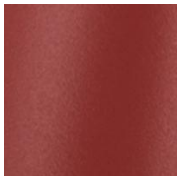
## TECHNICAL DATA

### 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

### 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

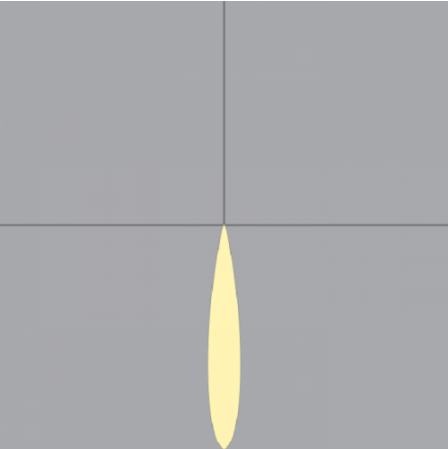
### APPROVALS



# MATREX RD SINGLE™ - SURFACE

## PERFORMANCE DATA

### DIRECT 15° BEAM ANGLE

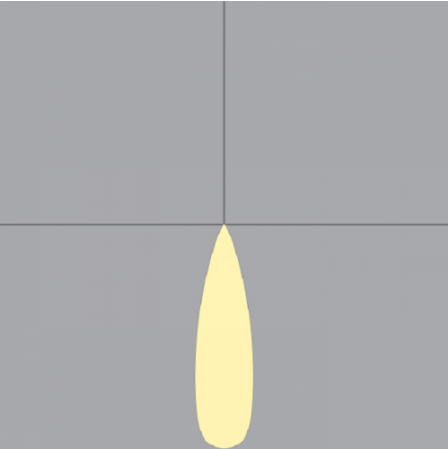


WATTS
19
41
65
93

LUMENS
2500
4900
7400
10000

LPW
132
121
114
106

### DIRECT 30° BEAM ANGLE

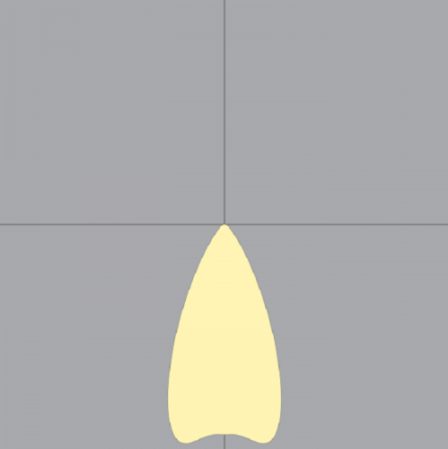


WATTS
19
41
65
93

LUMENS
2500
5025
7500
10050

LPW
135
124
116
108

### DIRECT 50° BEAM ANGLE



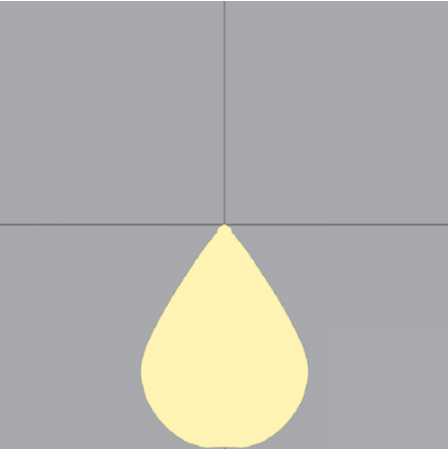
WATTS
19
41
65
93

LUMENS
2400
4800
7100
9500

LPW
128
117
110
102

# MATREX RD SINGLE™ - SURFACE

DIRECT 70° BEAM ANGLE



WATTS
19
41
65
93

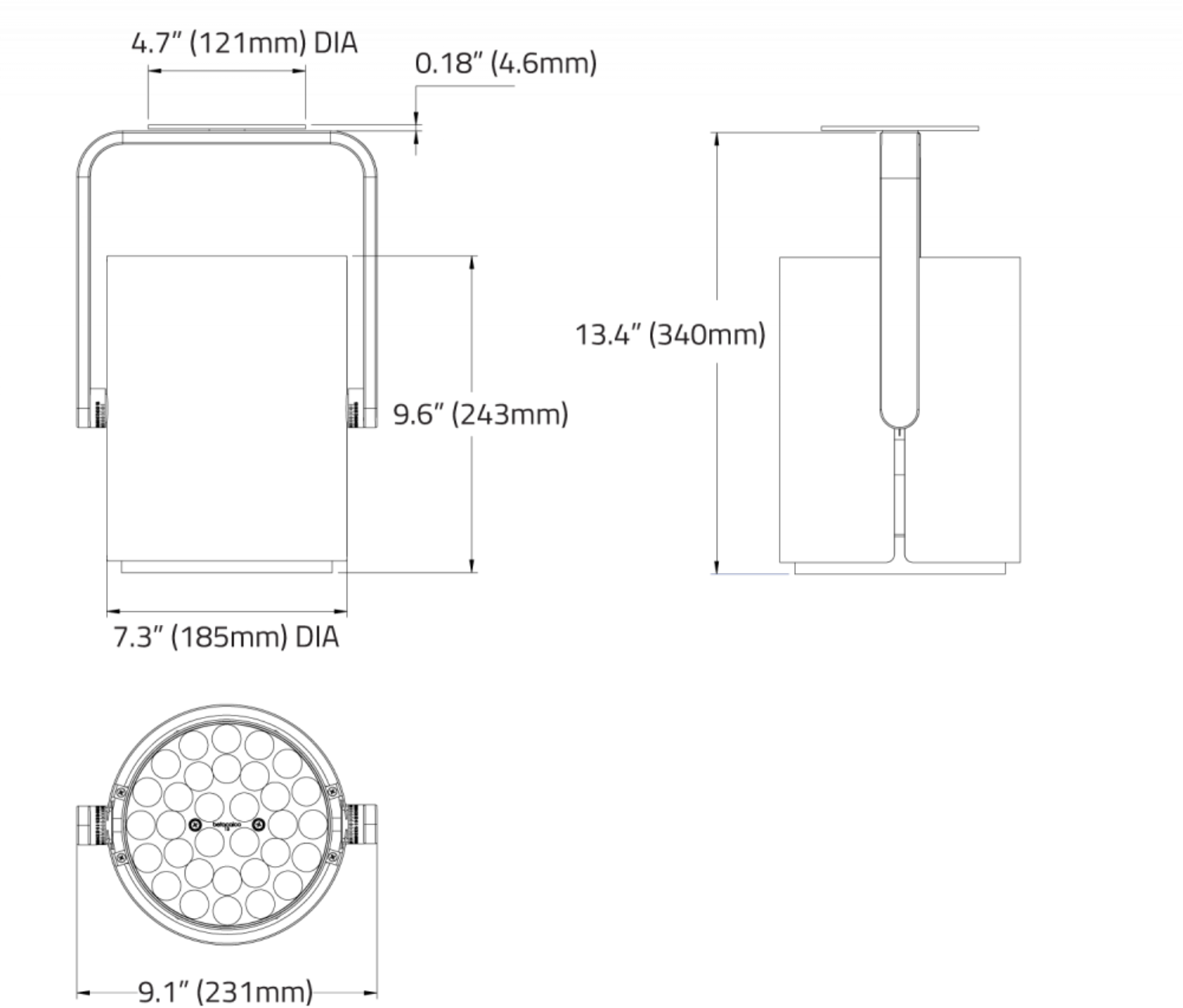
LUMENS
2400
4800
7200
9600

LPW
129
118
111
103

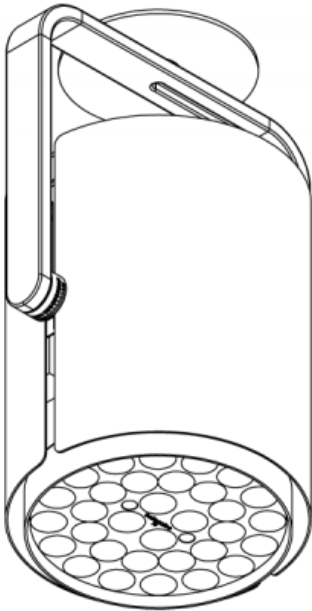
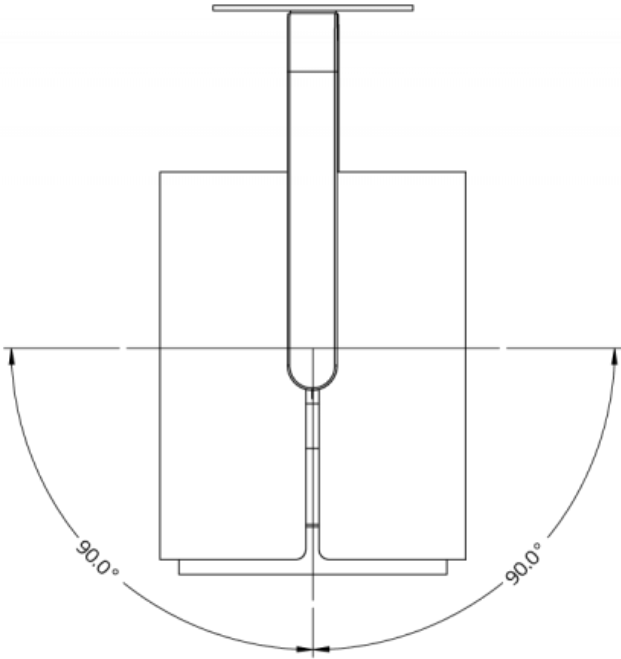


MATREX RD SINGLE™ - SURFACE

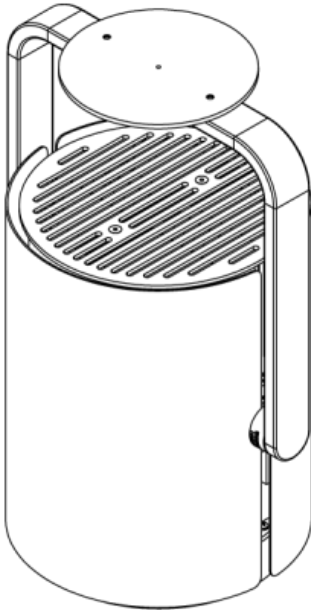
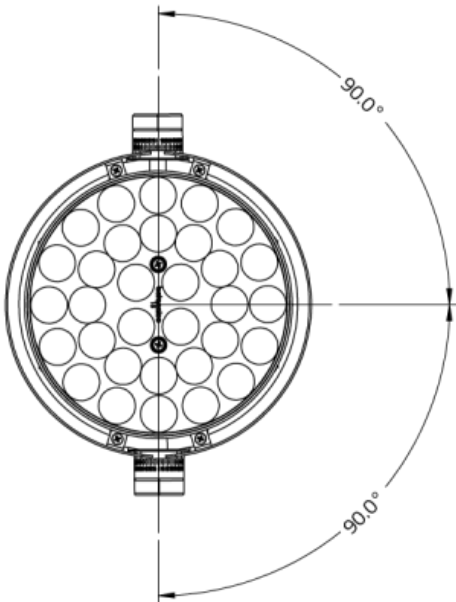
DIMENSIONAL DIAGRAMS



MATREX RD SINGLE™ - SURFACE



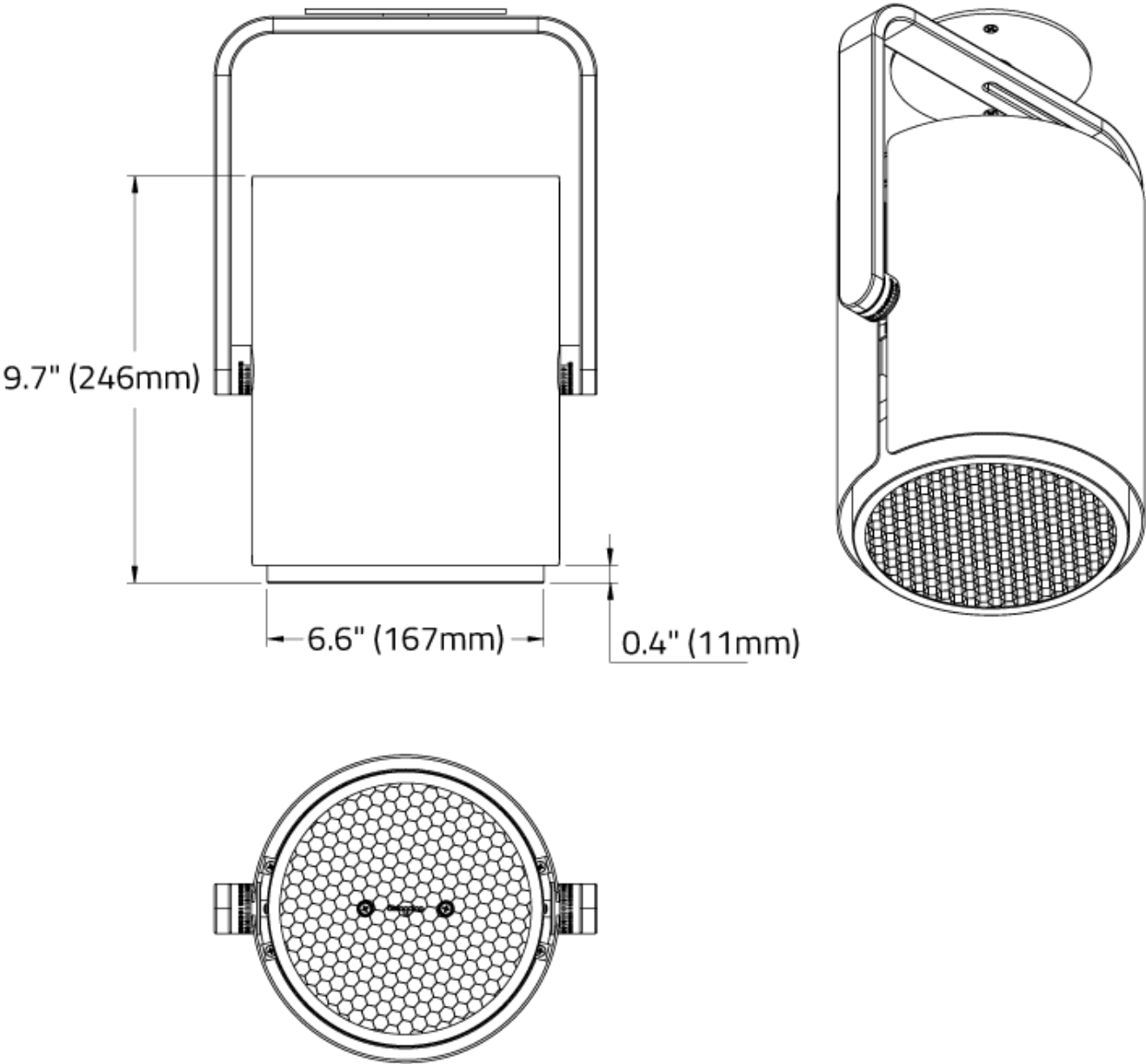
ISOMETRIC  
BOTTOM VIEW



ISOMETRIC  
TOP VIEW

LOUVRE

HEX CELL LOUVRE



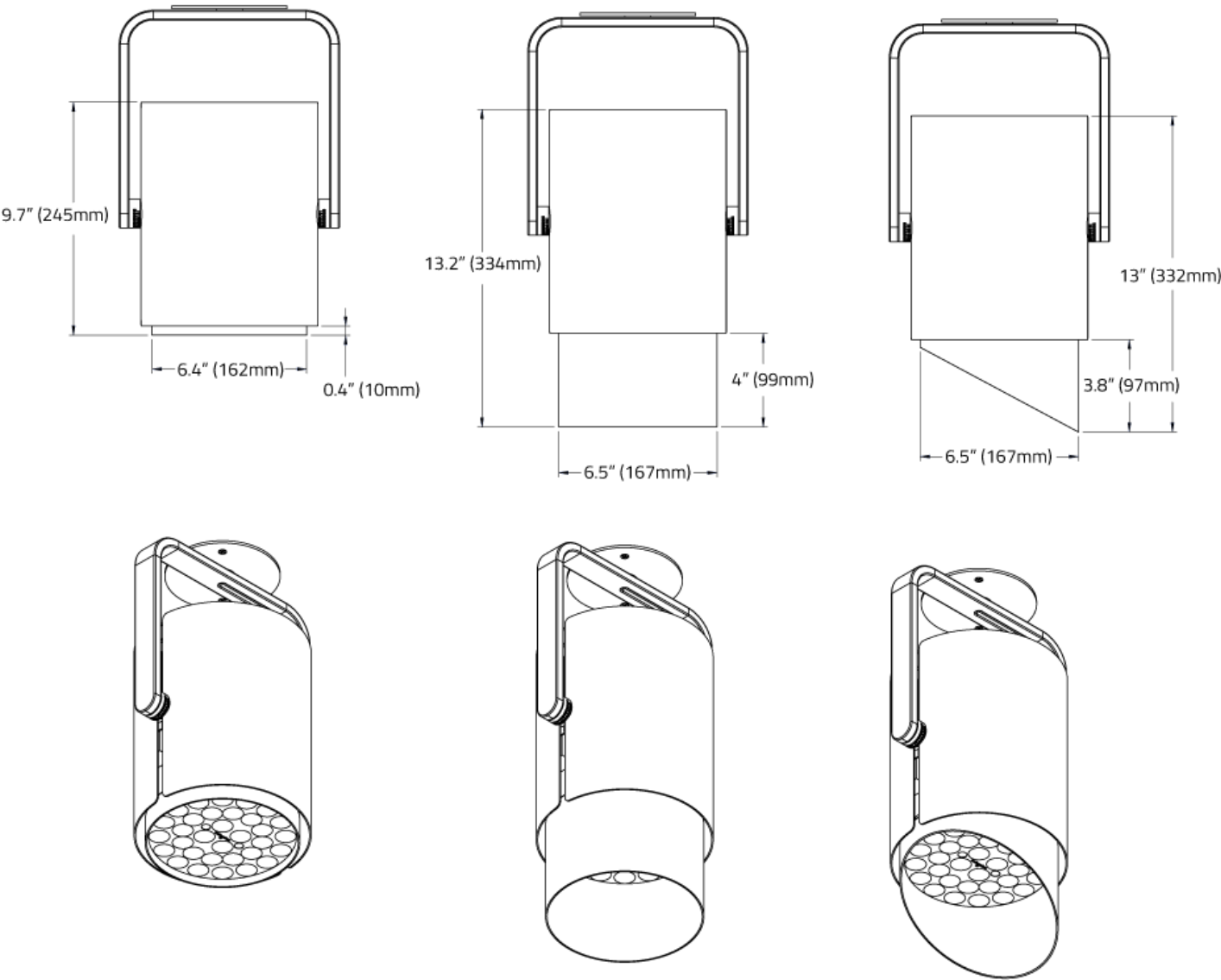
MATREX RD SINGLE™ - SURFACE

SNOOTS

STANDARD SNOOT

LONG SNOOT

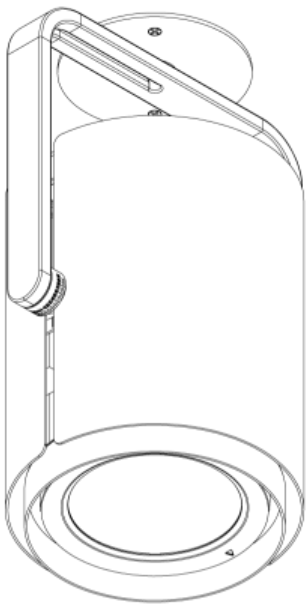
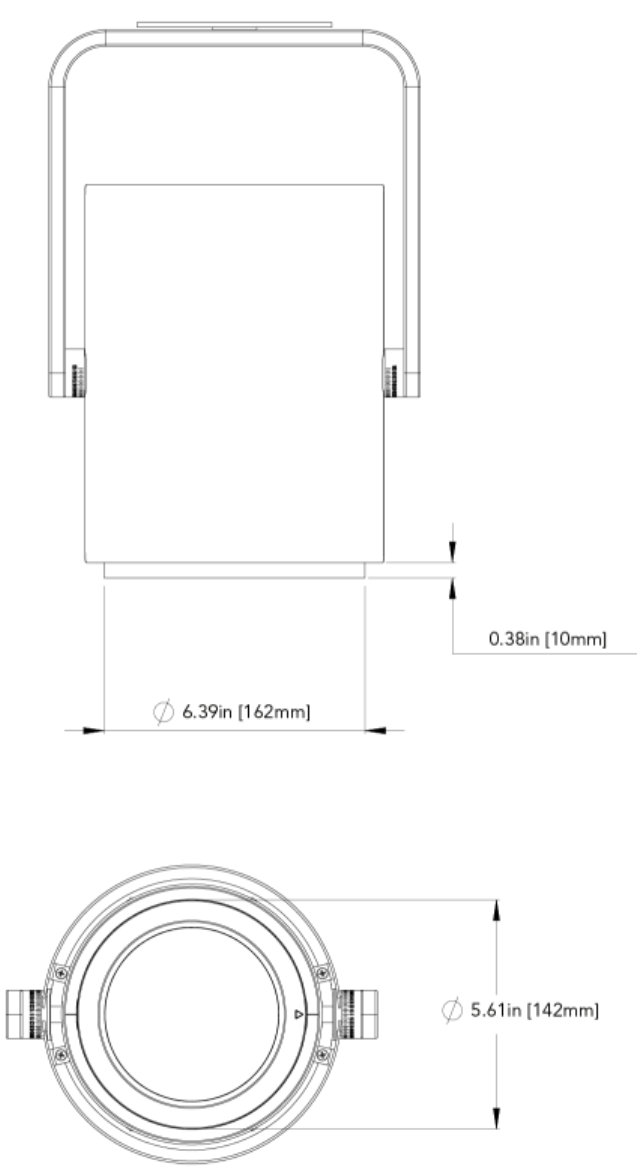
HALF SNOOT



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Matrex Round Surface - COB

Matrex RD Single - COB



Isometric View