

MATREX RD SINGLE™ - SURFACE

| | |
|---------------|---------------|
| Project Name: | Fixture Type: |
| Fixture Code: | Quantities: |



MATREX RD SINGLE™ - SURFACE



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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.

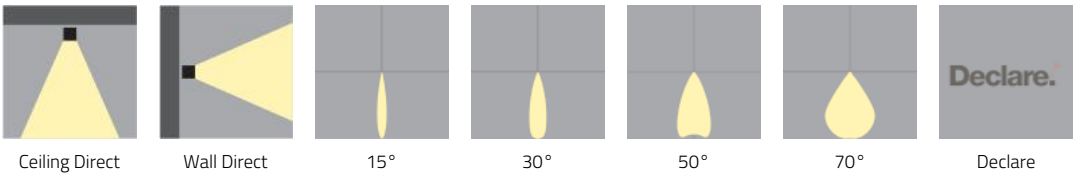
Delivered lumens

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

Designed by

Serge Cornelissen.

MOUNTING & OPTICS



MATREX RD SINGLE™ - SURFACE

HOW TO ORDER

A. LUMINAIRE

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

All data shown at max output and nominal values.

B. 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.

C. CRI

| | |
|---------------------|----------------------------------|
| CR80 CRI 80+ | CR90 CRI 90+ ¹ |
|---------------------|----------------------------------|

¹ Not available with COB / Reflector.

D. CCT

| | | | |
|---------------------------------|--------------------|--------------------|--------------------|
| CTA27 2700K ¹ | CTA30 3000K | CTA35 3500K | CTA40 4000K |
|---------------------------------|--------------------|--------------------|--------------------|

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

E. BEAM ANGLE

| | | | |
|------------------------------|------------------------------|-----------------|------------------------------|
| BA15 15° ¹ | BA30 30° ¹ | BA50 50° | BA70 70° ¹ |
|------------------------------|------------------------------|-----------------|------------------------------|

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

F. VOLTAGE

| | | |
|--------------------|-----------------------------|-----------------------------|
| V1 120/277V | V2 240V ¹ | V3 347V ² |
|--------------------|-----------------------------|-----------------------------|

¹ Not available in North America.
² Only available with DA01 dimming.

G. DIMMING

| | | | |
|--|---|--|--|
| DA01 0-10V Dimming 1.0% DA30 DSI/switchDim ^{1 2} | DA02 0-10V Dimming 0.1% ¹ | DA20 DALI Dimming 0.1% ¹ | DA21 DALI Dimming 1.0% ¹ |
|--|---|--|--|

¹ Not available with V3.
² Not available in North America.

H. 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 |

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

² Not available with COB / Reflector.

³ Not available with BA70 beam angle.

J. EMERGENCY

| | |
|---|--|
| E0 Emergency system not required | E2 Emergency system - Remote ¹ |
|---|--|

¹ Not available with V3. Integral not available.

MATREX RD SINGLE™ - SURFACE


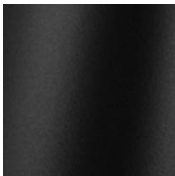



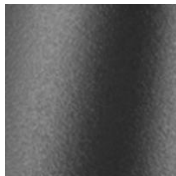

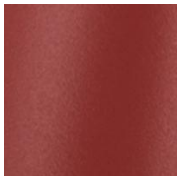
TECHNICAL DATA

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 |

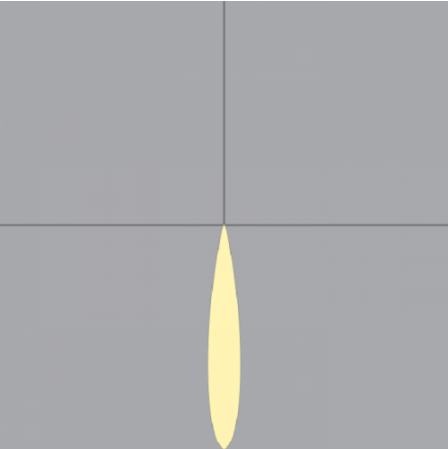
APPROVALS



MATREX RD SINGLE™ - SURFACE

PERFORMANCE DATA

DIRECT 15° BEAM ANGLE

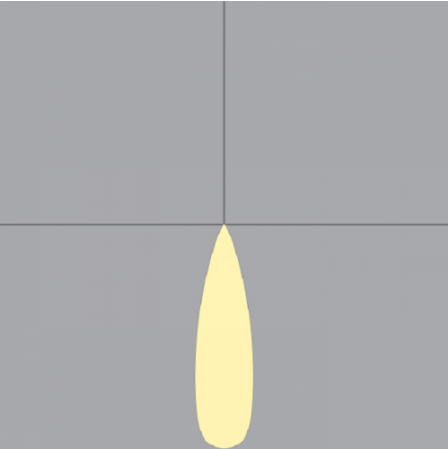


| WATTS |
|-------|
| 19 |
| 41 |
| 65 |
| 93 |

| LUMENS |
|--------|
| 2500 |
| 4900 |
| 7400 |
| 10000 |

| LPW |
|-----|
| 132 |
| 121 |
| 114 |
| 106 |

DIRECT 30° BEAM ANGLE

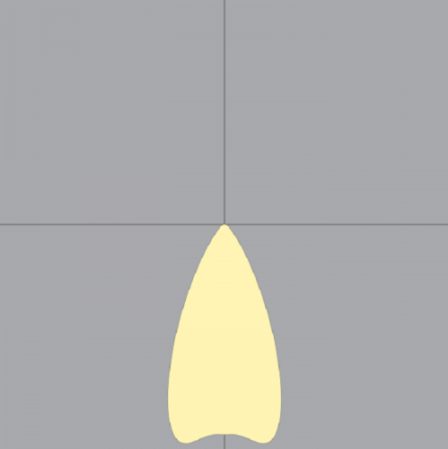


| WATTS |
|-------|
| 19 |
| 41 |
| 65 |
| 93 |

| LUMENS |
|--------|
| 2500 |
| 5025 |
| 7500 |
| 10050 |

| LPW |
|-----|
| 135 |
| 124 |
| 116 |
| 108 |

DIRECT 50° BEAM ANGLE



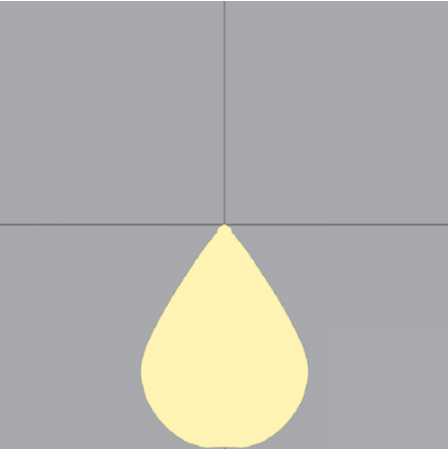
| WATTS |
|-------|
| 19 |
| 41 |
| 65 |
| 93 |

| LUMENS |
|--------|
| 2400 |
| 4800 |
| 7100 |
| 9500 |

| LPW |
|-----|
| 128 |
| 117 |
| 110 |
| 102 |

MATREX RD SINGLE™ - SURFACE

DIRECT 70° BEAM ANGLE



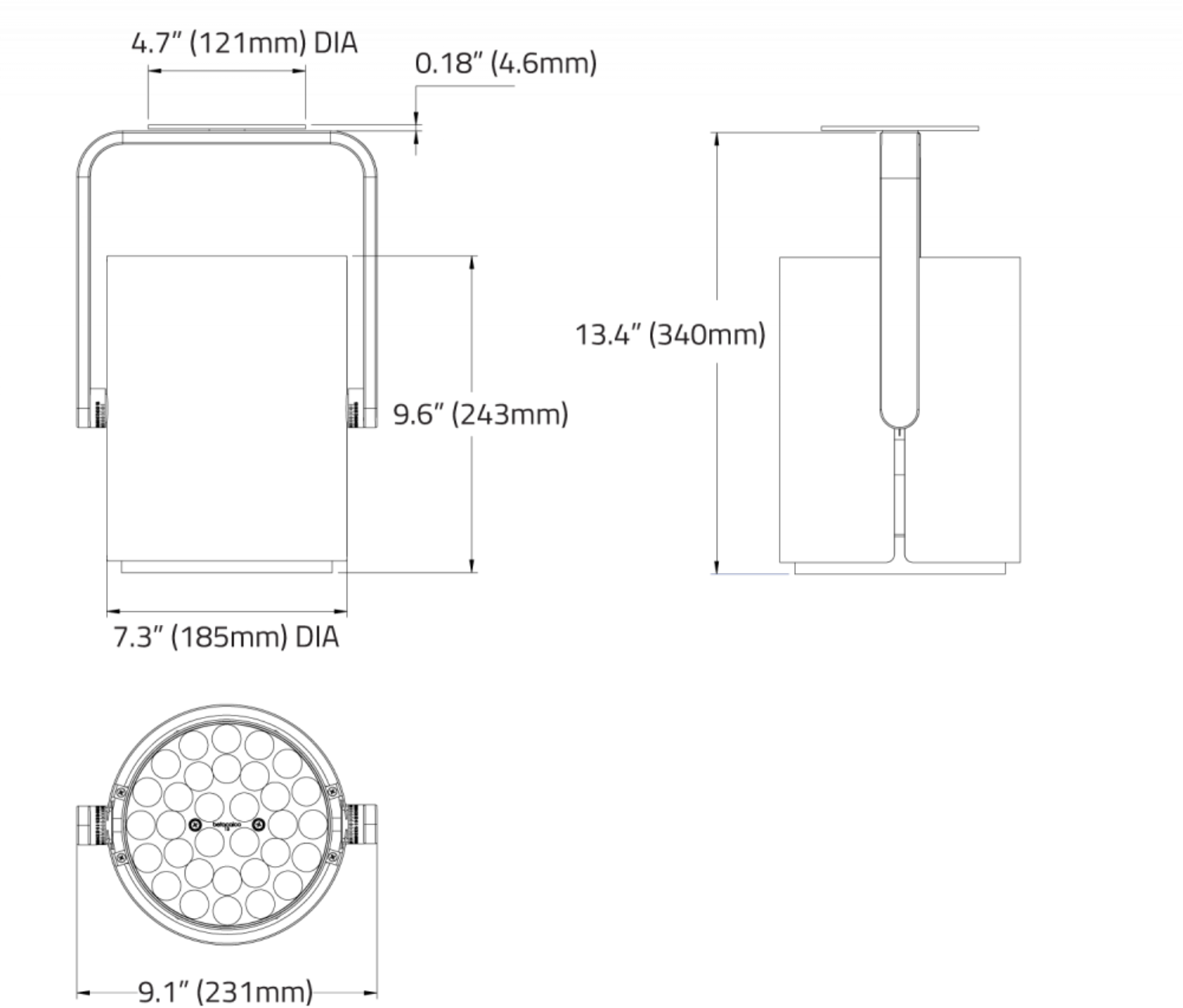
| WATTS |
|-------|
| 19 |
| 41 |
| 65 |
| 93 |

| LUMENS |
|--------|
| 2400 |
| 4800 |
| 7200 |
| 9600 |

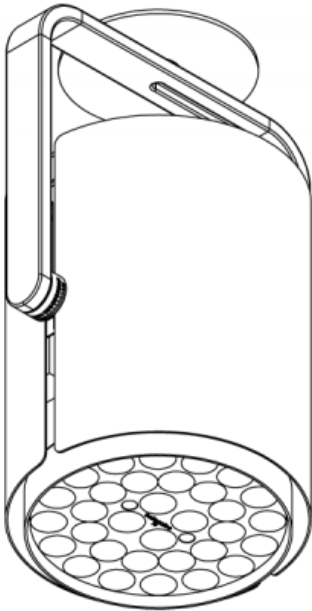
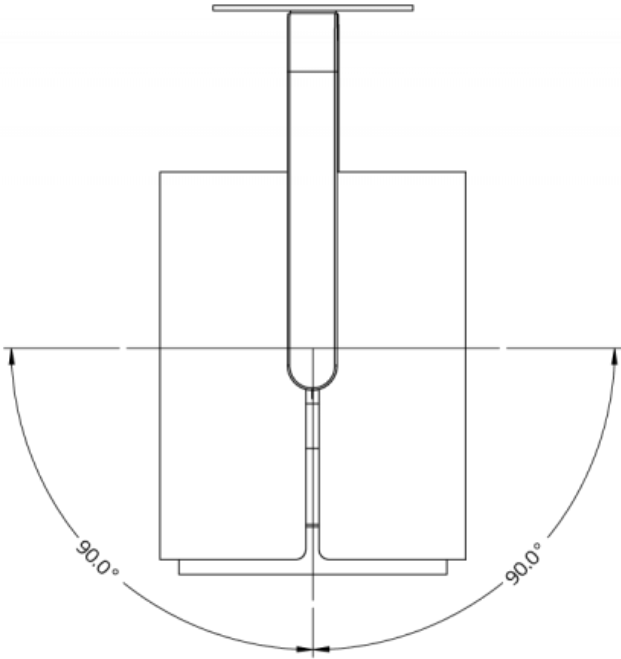
| LPW |
|-----|
| 129 |
| 118 |
| 111 |
| 103 |

MATREX RD SINGLE™ - SURFACE

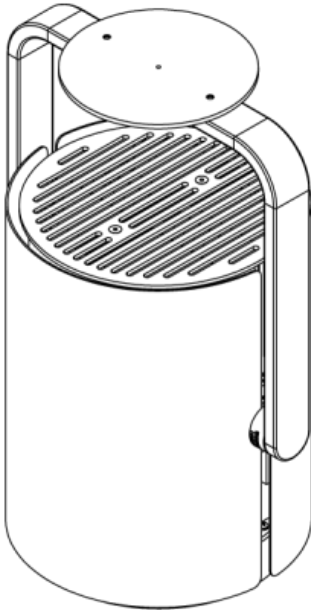
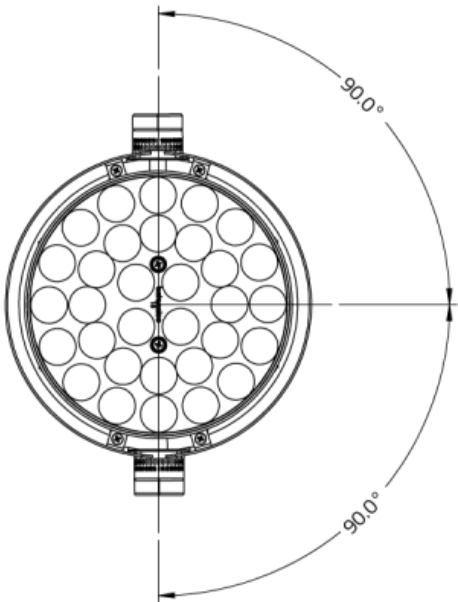
DIMENSIONAL DIAGRAMS



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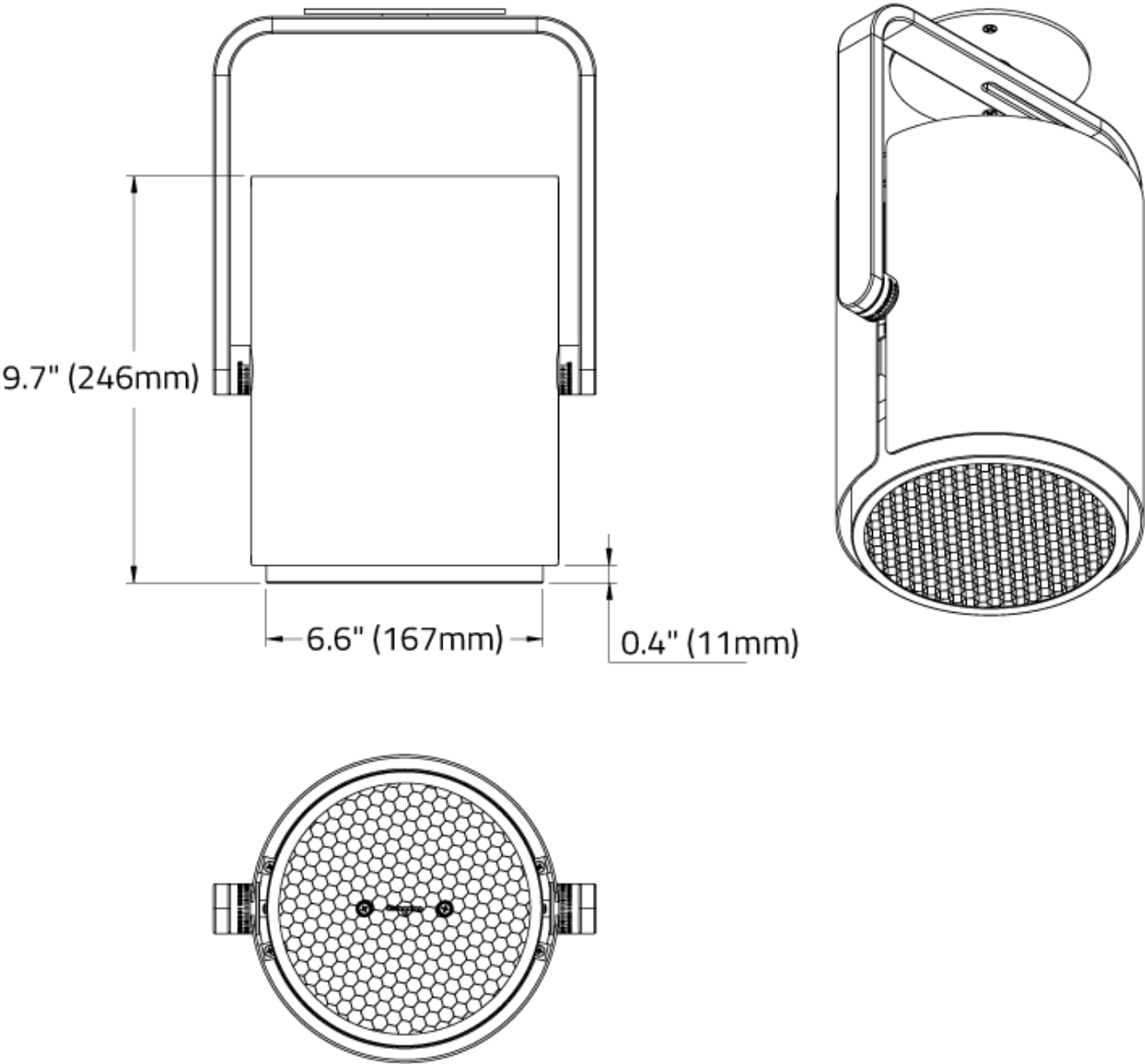
ISOMETRIC
BOTTOM VIEW



ISOMETRIC
TOP VIEW

LOUVRE

HEX CELL LOUVRE



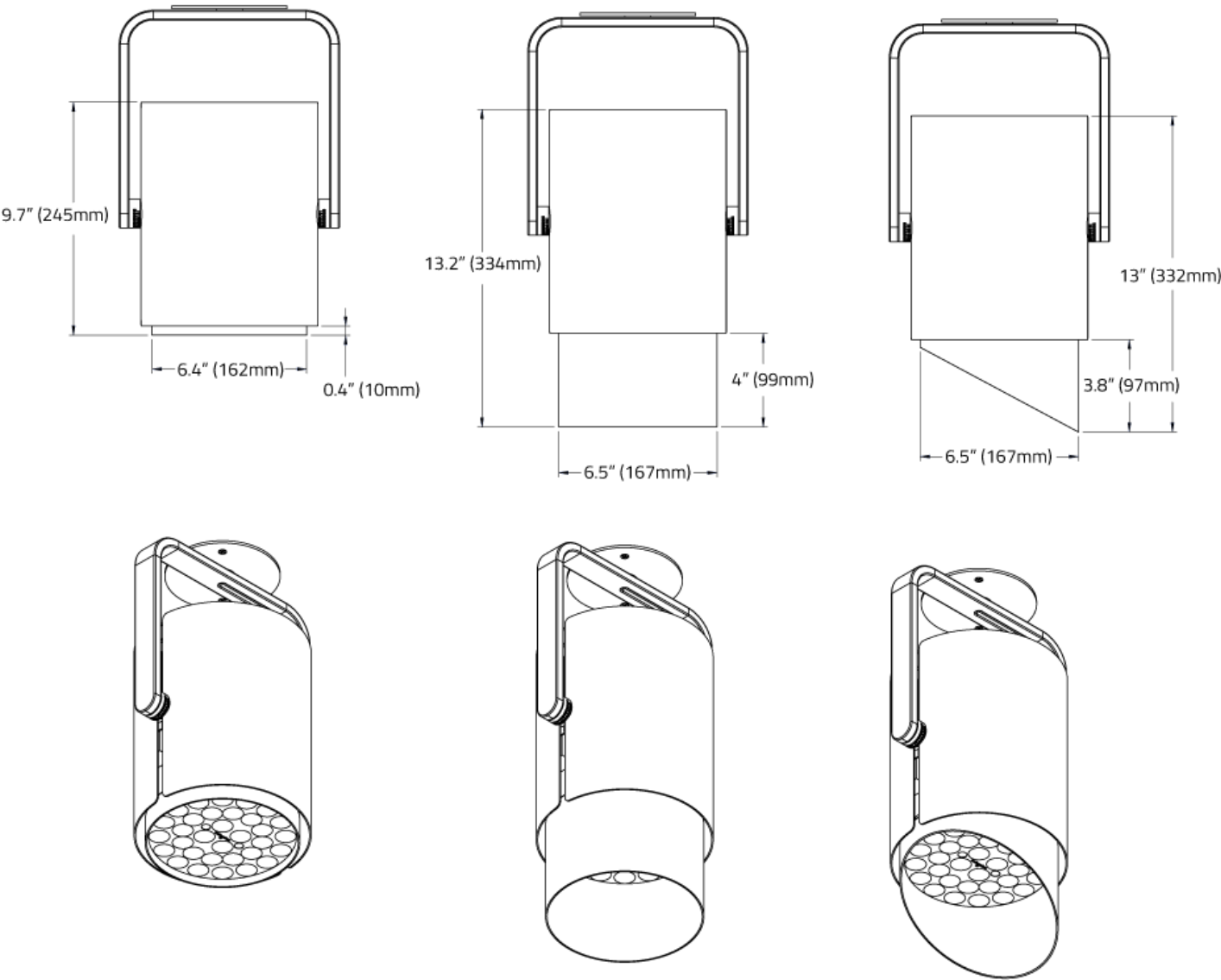
MATREX RD SINGLE™ - SURFACE

SNOOTS

STANDARD SNOOT

LONG SNOOT

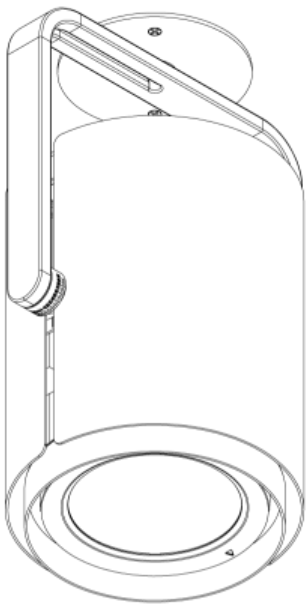
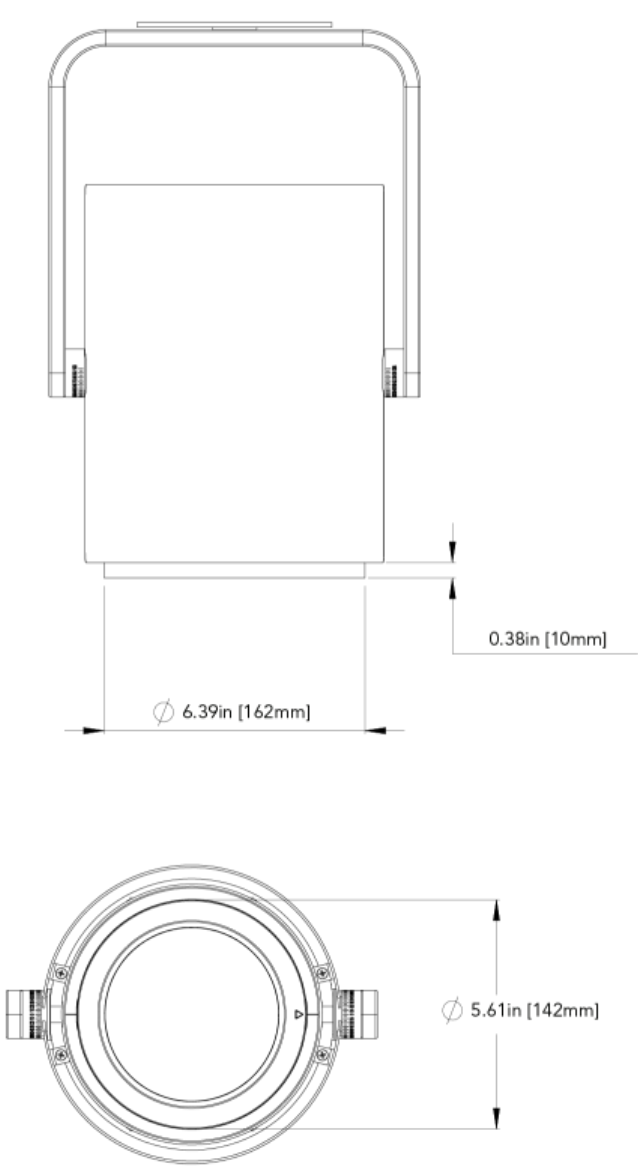
HALF SNOOT



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Matrex Round Surface - COB

Matrex RD Single - COB



Isometric View