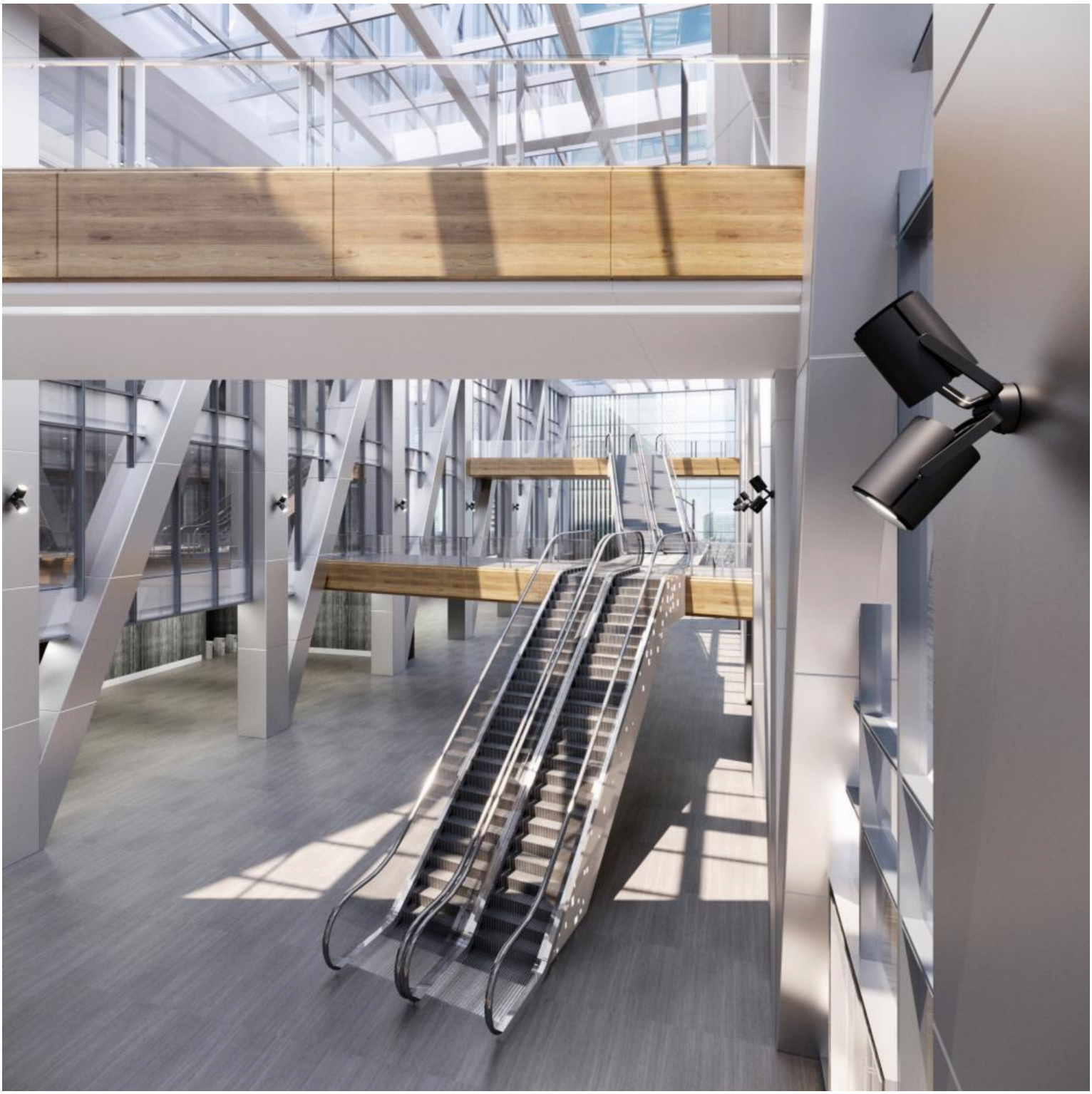
MATREX RD DUAL™ - SURFACE

Project Name:

Fixture Type:

Fixture Code:

Quantities:



MATREX RD DUAL™ - SURFACE

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MATREX Surface brings more mounting flexibility and fixture adjustability to the **MATREX** family, lauded for its compact form factor, unique mounting system, and high lumen output with optics designed for precision. **MATREX** is ideally suited for spaces with multiple ceiling heights, such as atriums. The revolutionary design delivers industry-leading performance from a significantly reduced form factor. The snoots are effective in controlling light spill and reducing glare.

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.

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.

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

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

Approvals
Damp Rated.

Estimated L70 @25°C (77°F)
>171,000 hrs.

OPTICS & FEATURES


Ceiling Direct


Wall - Direct/Indirect


Wall - Indirect


Wall - Direct


15°


30°


50°


70°

Declare

MATREX RD DUAL™ - SURFACE

HOW TO ORDER

A. LUMINAIRE

MRDF1P01 Direct, LEDs / Multi-Array Optics, 20100 lms

MRDF1P02 Direct, COB / Reflector, 10050 lms

All data shown at max output and nominal values.

B. LUMENS (HEAD A)

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. LUMENS (HEAD B)

LMB0250 2500

LMB0500 5025

LMB0750 7500 [1]

LMB1000 10050 [1]

[1] Not available with COB / Reflector.
* Max lumen values shown, refer to IES files for the different snoot and beam options.

D. CRI

CR80 CRI 80+

CR90 CRI 90+ [1]

E. CCT

CTA27 2700K [1]

CTA30 3000K

CTA35 3500K

CTA40 4000K

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

F. BEAM ANGLE (HEAD A)

BA15 15° [1]

BA30 30° [1]

BA50 50°

BA70 70° [1]

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

G. BEAM ANGLE (HEAD B)

BB15 15° [1]

BB30 30° [1]

BB50 50°

BB70 70° [1]

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

H. VOLTAGE

V1 120/277V

V2 240V [1]

V3 347V [2]

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

I. DIMMING

DA01 0-10V Dimming 1.0%

DA02 0-10V Dimming 0.1% [1]

DA20 DALI Dimming 0.1% [1]

DA21 DALI Dimming 1.0% [1]

DA30 DSI/switchDim [1] [2]

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

J. 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

K. SNOOTS AND LOUVER (HEAD A)

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.

L. SNOOTS AND LOUVER (HEAD B)

NU1 Standard Snoot - Black [1]
NU2 Standard Snoot - White [1]
NU3 Long Snoot - Black [1 2]
NU4 Long Snoot - White [1 2]
NU5 Half Snoot - Black [1 2]
NU6 Half Snoot - White [1 2]
NU9 Hex Louver - Black [2 3]

For precise beam angle and lumen output, please refer to the IES files. Note that using snoots 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 BB70 beam angle.

M. EMERGENCY

E0 Emergency system not required
E2 Emergency system - Remote [1]

[1] Remote emergency in the lower module only. Not available with V3. Integral is not available.

N. SEPARATE SWITCHING

CS1 Single circuit
CS2 Separate switching

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TECHNICAL DATA

LUMINAIRE

All data shown at max output and nominal values.

Code	MRDF1P01	MRDF1P02
Light Direction	Direct	Direct
Wattage	186W	88W
Delivered lms	20100	10050
LPW	124	111

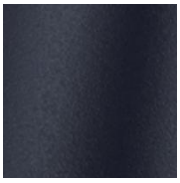
FINISH - FIXTURE

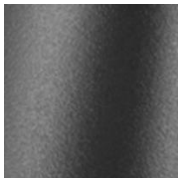
White


Black Metallic - Textured


Silver Metallic - Textured


Gold Metallic - Textured


Midnight Blue Metallic - Textured


Charcoal Metallic - Textured


Bronze Metallic - Textured

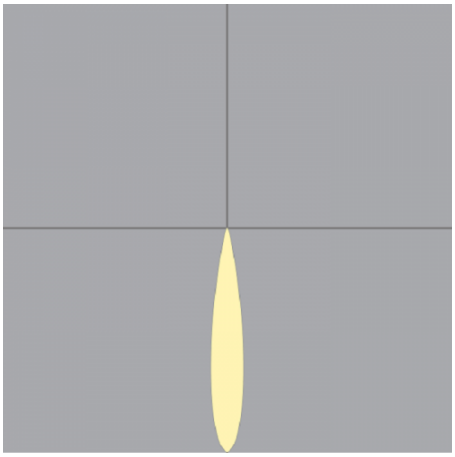

Red Metallic - Textured

APPROVALS

MATREX RD DUAL™ - SURFACE

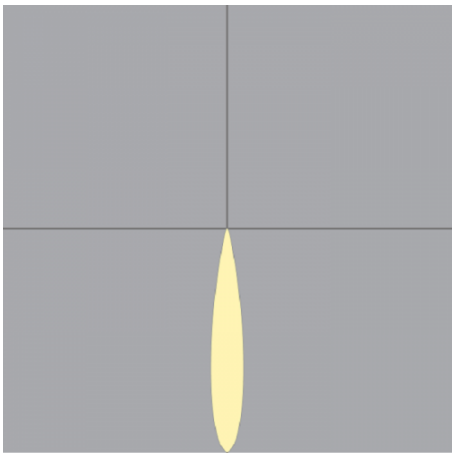
PERFORMANCE DATA

DIRECT 15° BEAM ANGLE



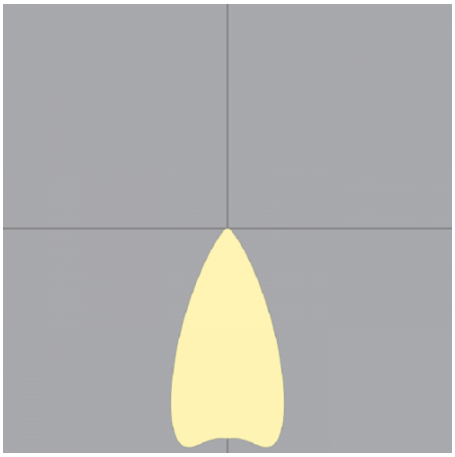
WATTS	LUMENS	LPW
38	5000	132
82	9800	121
130	14800	114
186	20000	105

DIRECT 30° BEAM ANGLE



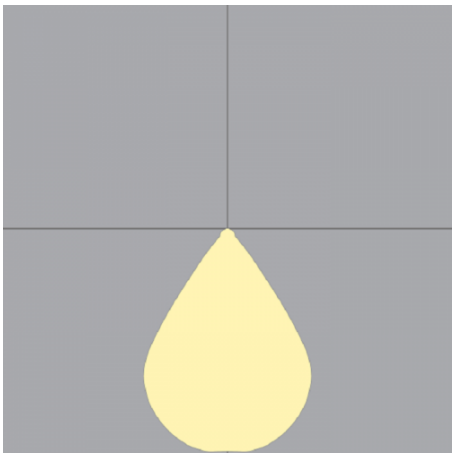
WATTS	LUMENS	LPW
38	5000	135
82	10050	124
130	15000	116
186	20100	108

DIRECT 50° BEAM ANGLE



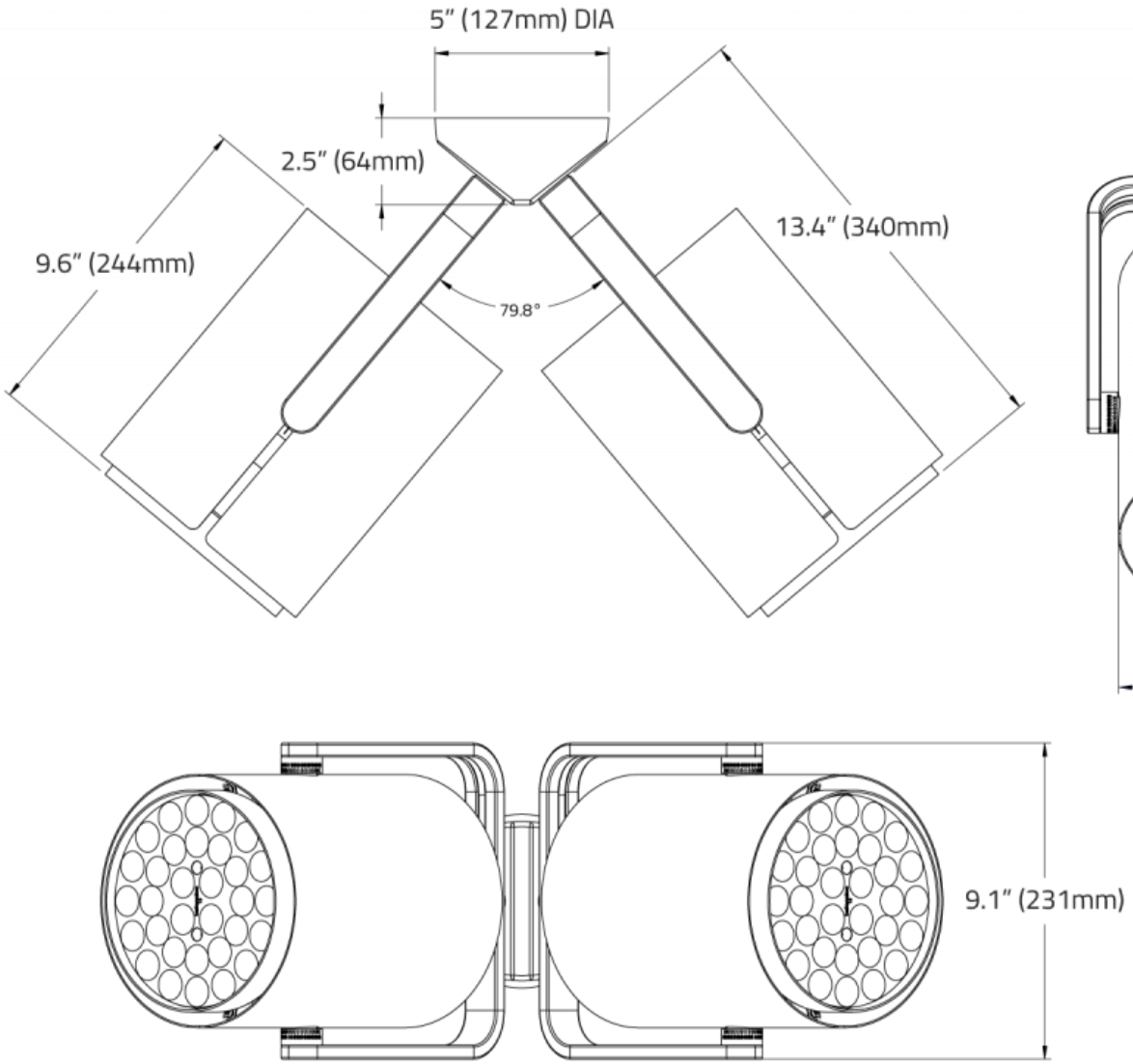
WATTS	LUMENS	LPW
38	4800	128
82	9600	117
130	14200	110
186	19000	102

MATREX RD DUAL™ - SURFACE

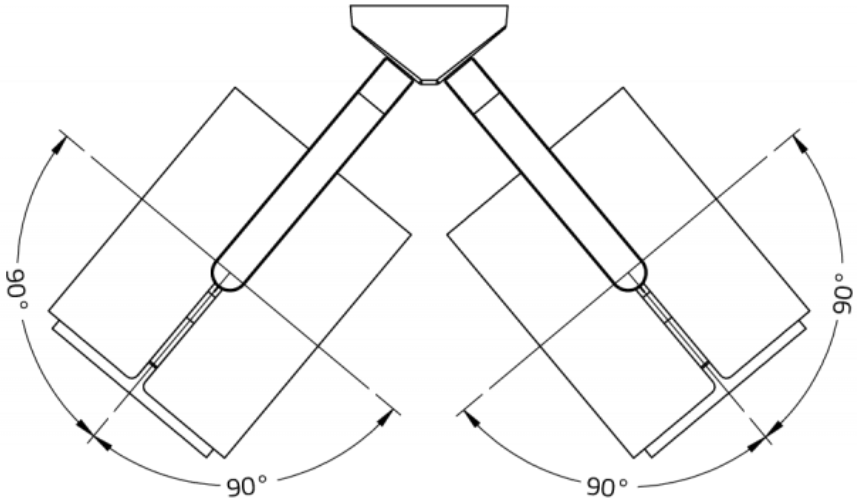
DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	38	4800	129
	82	9600	118
	130	14400	111
	186	19200	103

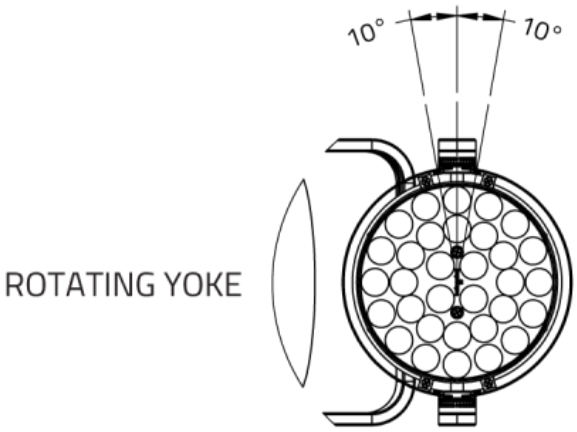
MATREX RD DUAL™ - SURFACE

DIMENSIONAL DIAGRAMS

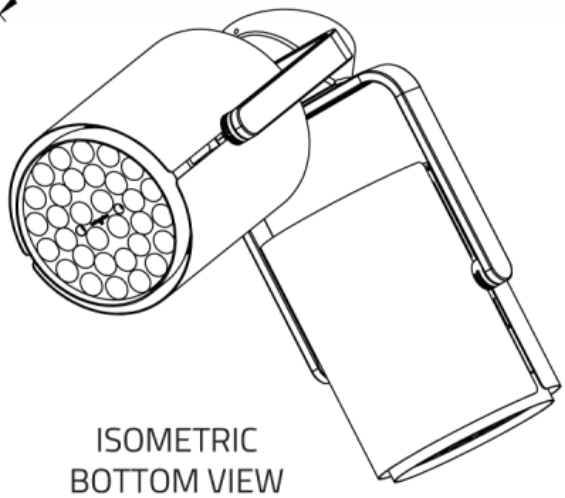


MATREX RD DUAL™ - SURFACE

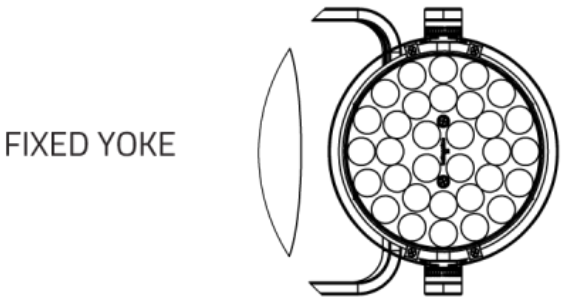




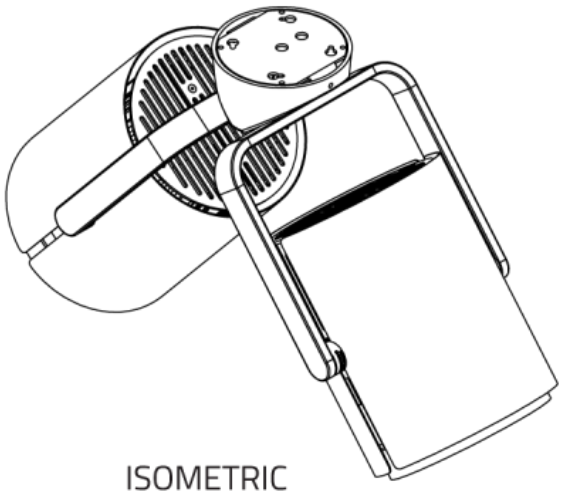
VIEW M=NORMAL TO YOKE



ISOMETRIC
BOTTOM VIEW



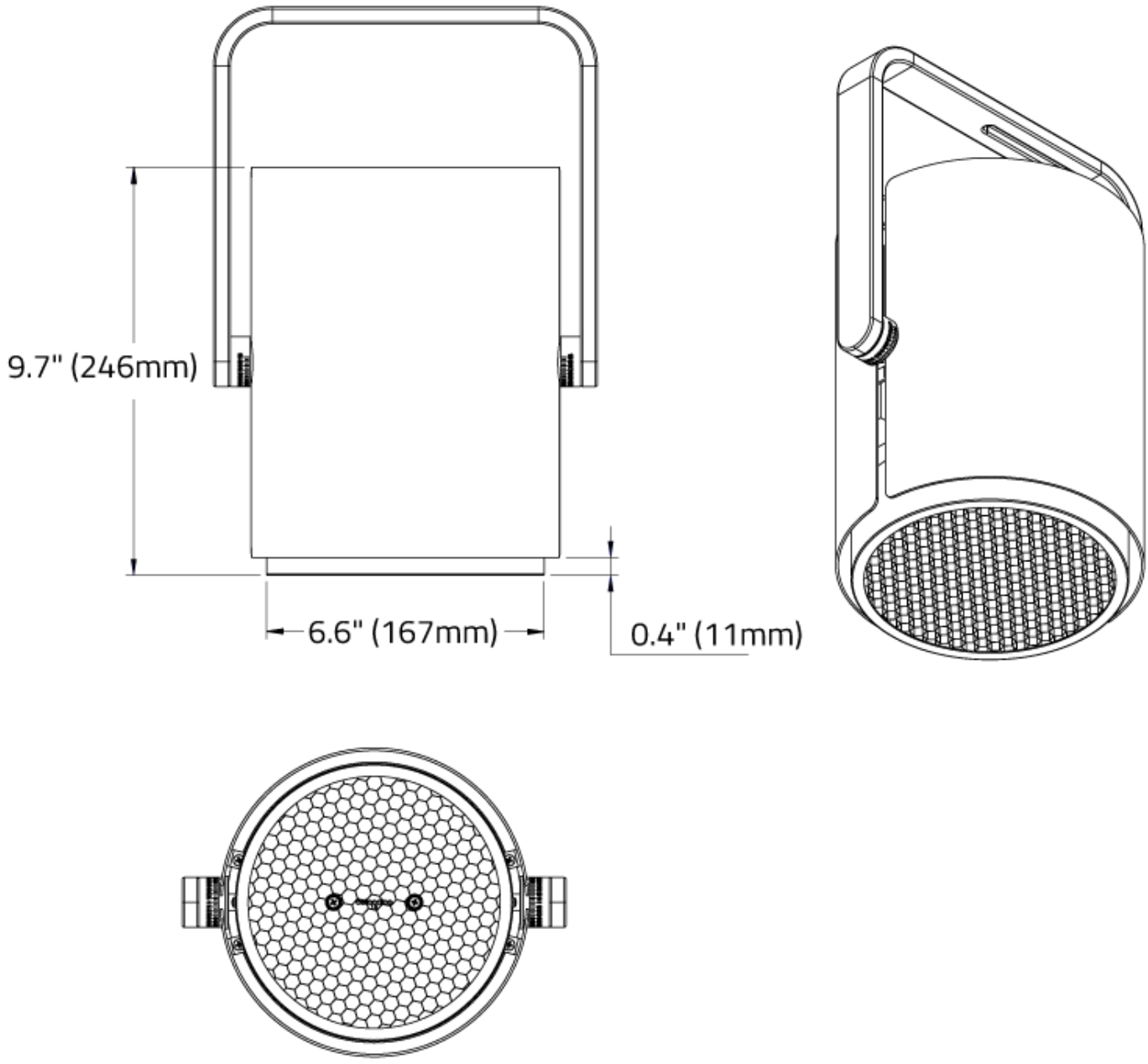
VIEW NORMAL TO YOKE



ISOMETRIC
TOP VIEW

LOUVRE

HEX CELL LOUVRE



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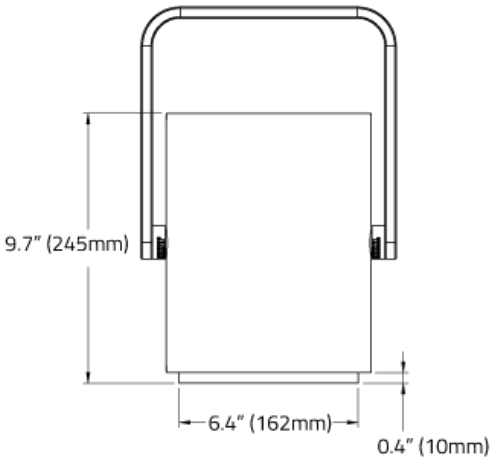
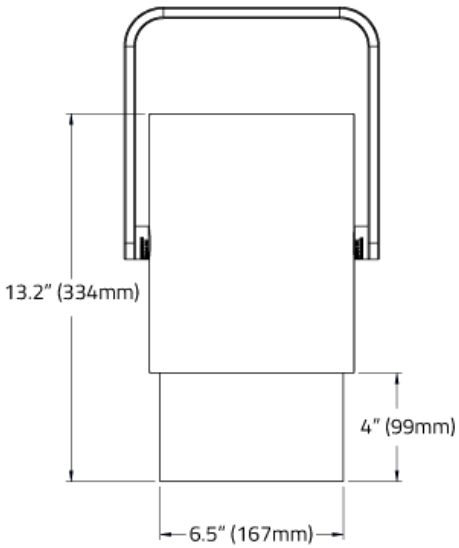
SNOOTS

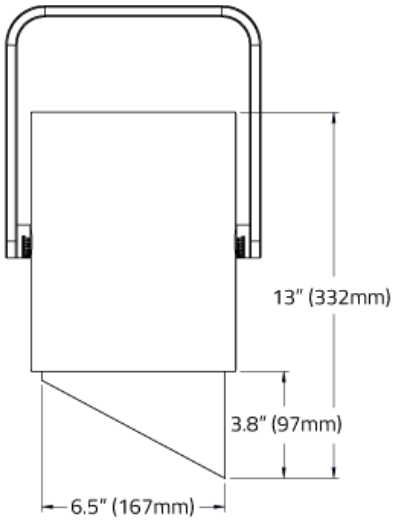
STANDARD SNOOT

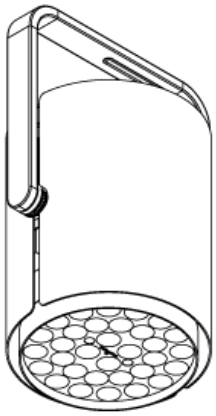


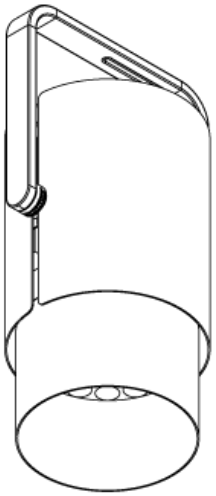
LONG SNOOT

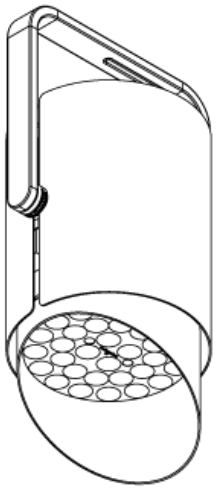


HALF SNOOT

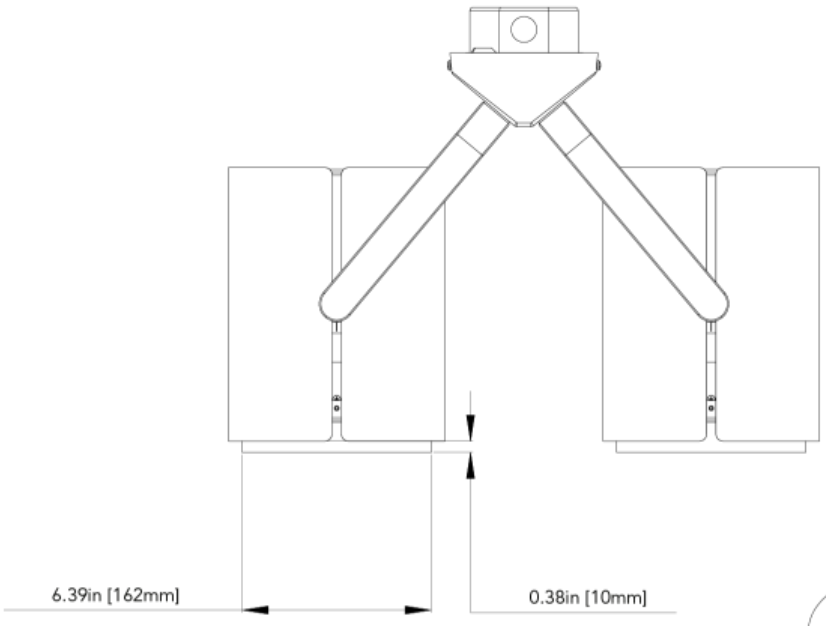


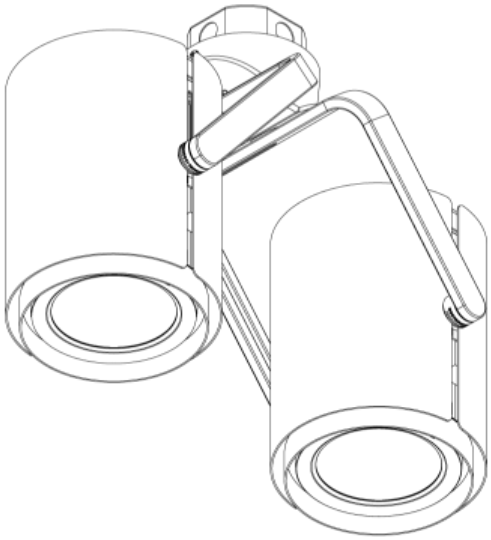






Matrex RD Dual Surface- COB





Isometric View