

MATREX RD DUAL™ - SURFACE

Project Name:	Fixture Type:
Fixture Code:	Quantities:



MATREX RD DUAL™ - SURFACE



MATREX RD DUAL™ - SURFACE

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.

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+.

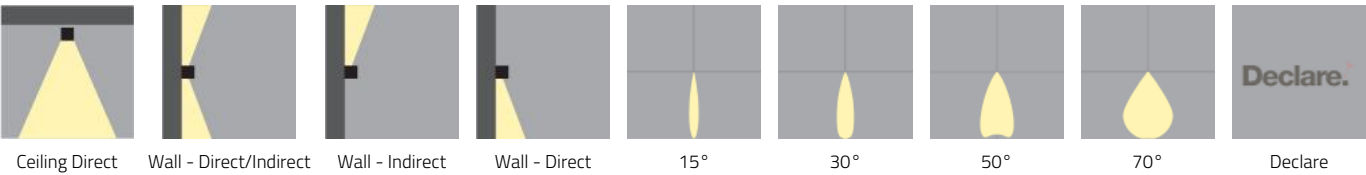
Approvals

Damp Rated.

Estimated L70 @25°C (77°F)

>171,000 hrs.

OPTICS & FEATURES



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% 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.

MATREX RD DUAL™ - SURFACE

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
---------------------------	-------------------------------

MATREX RD DUAL™ - SURFACE


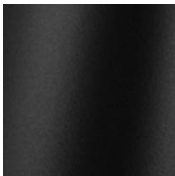



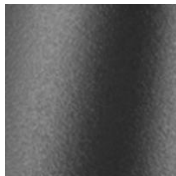

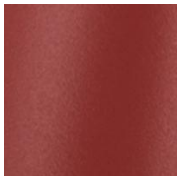
TECHNICAL DATA

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

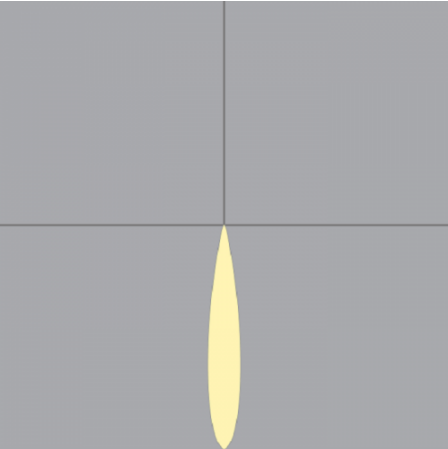
APPROVALS



MATREX RD DUAL™ - SURFACE

PERFORMANCE DATA

DIRECT 15° BEAM ANGLE

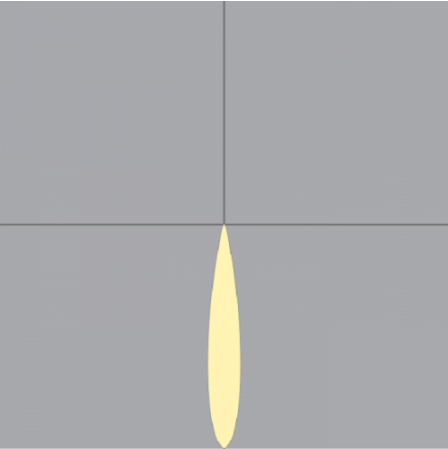


WATTS
38
82
130
186

LUMENS
5000
9800
14800
20000

LPW
132
121
114
105

DIRECT 30° BEAM ANGLE

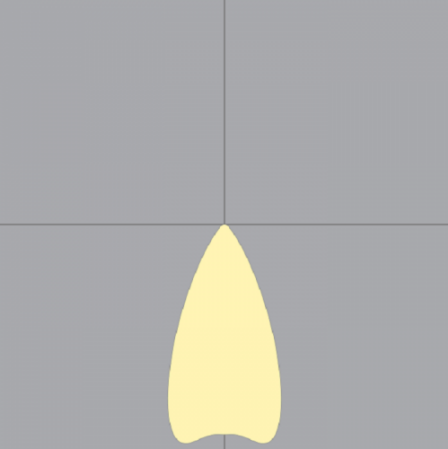


WATTS
38
82
130
186

LUMENS
5000
10050
15000
20100

LPW
135
124
116
108

DIRECT 50° BEAM ANGLE



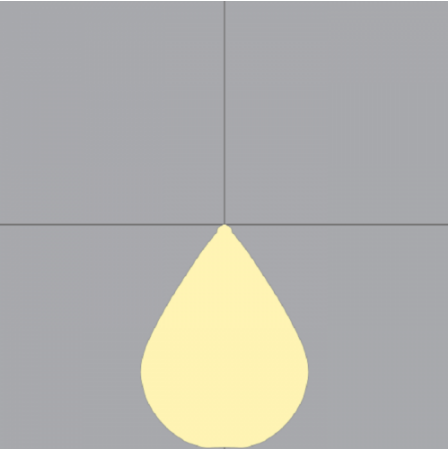
WATTS
38
82
130
186

LUMENS
4800
9600
14200
19000

LPW
128
117
110
102

MATREX RD DUAL™ - SURFACE

DIRECT 70° BEAM ANGLE



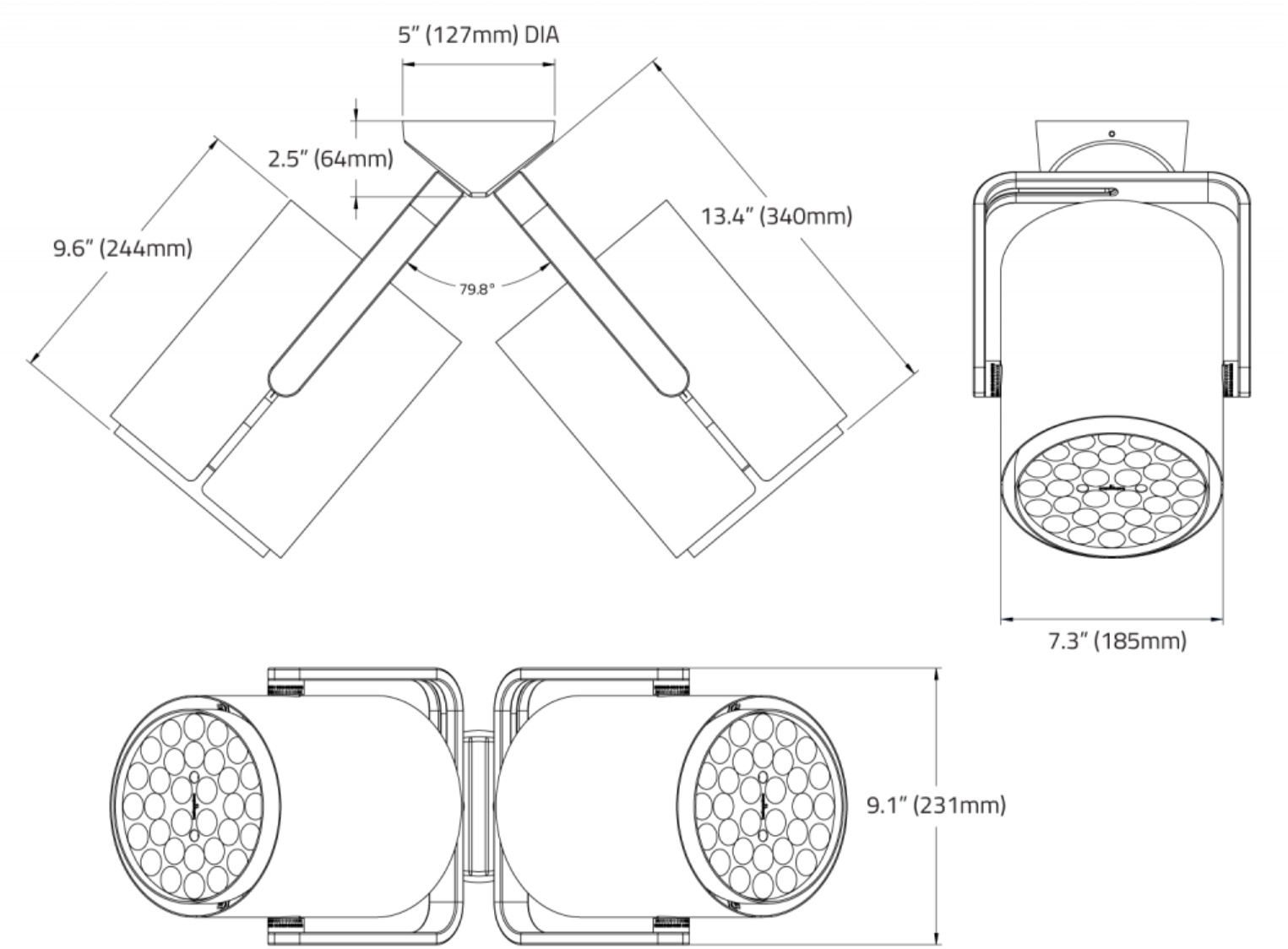
WATTS
38
82
130
186

LUMENS
4800
9600
14400
19200

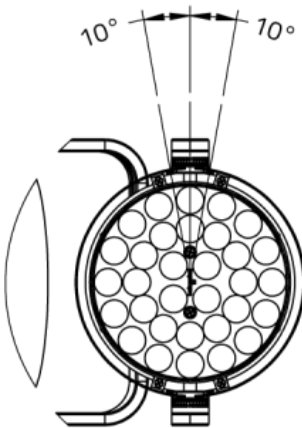
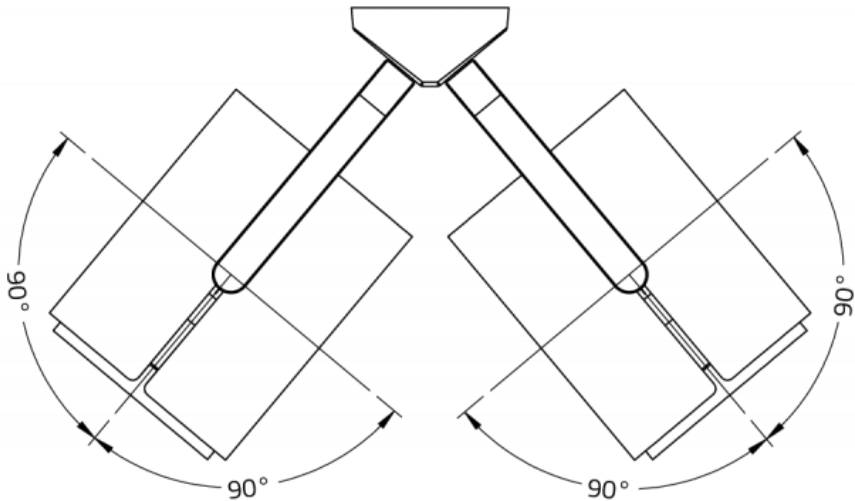
LPW
129
118
111
103

MATREX RD DUAL™ - SURFACE

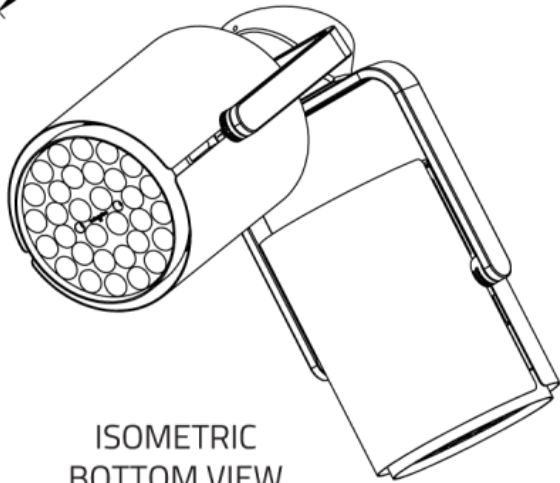
DIMENSIONAL DIAGRAMS



MATREX RD DUAL™ - SURFACE

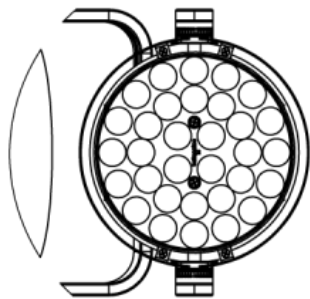


ROTATING YOKE



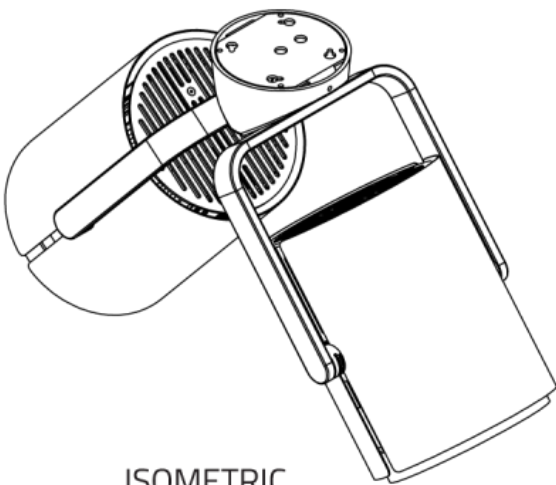
ISOMETRIC
BOTTOM VIEW

VIEW M=NORMAL TO YOKE



FIXED YOKE

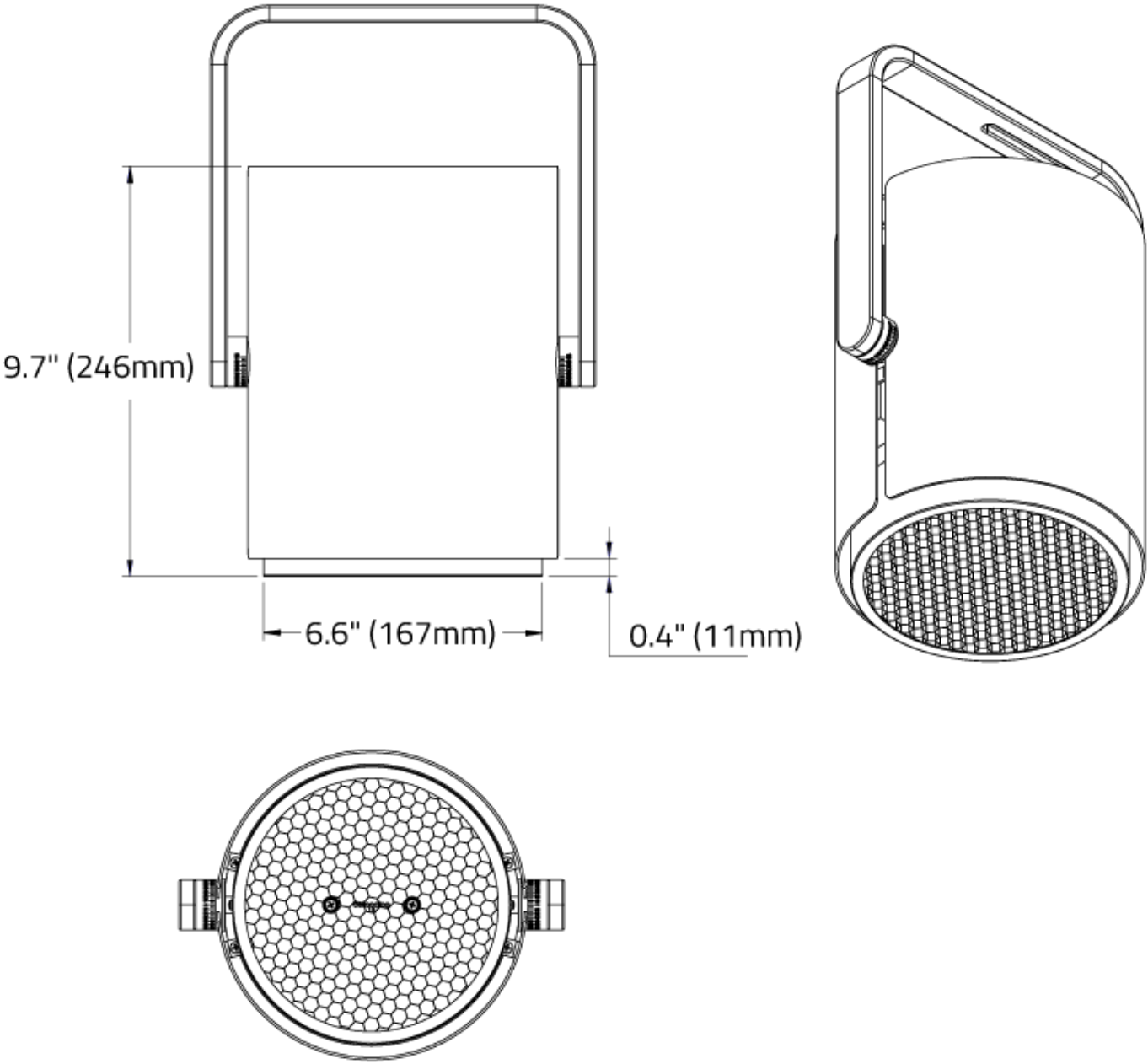
VIEW NORMAL TO YOKE



ISOMETRIC
TOP VIEW

LOUVRE

HEX CELL LOUVRE



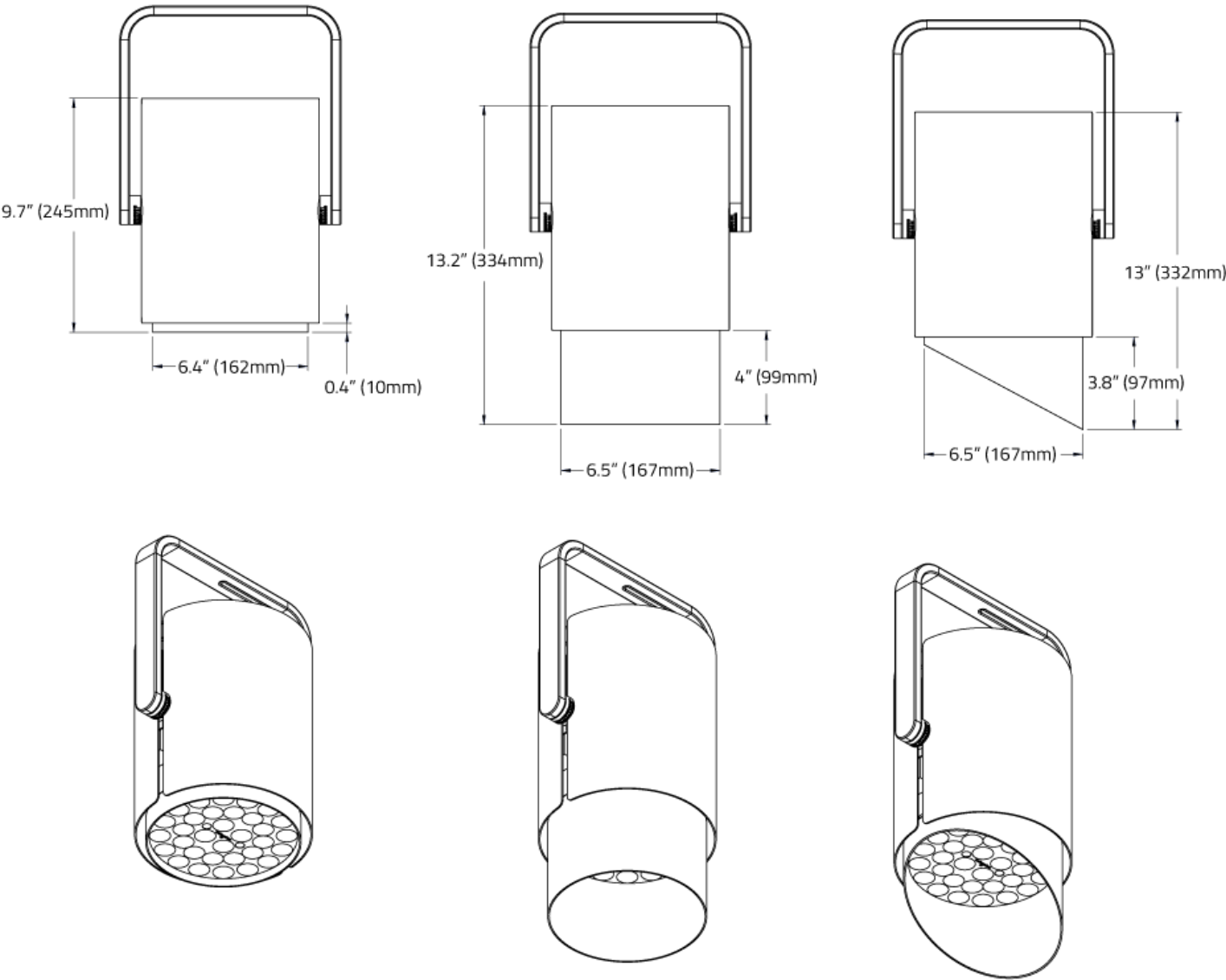
MATREX RD DUAL™ - SURFACE

SNOOTS

STANDARD SNOOT

LONG SNOOT

HALF SNOOT



MATREX RD DUAL™ - SURFACE

Matrex Round Dual Surface - COB

Matrex RD Dual Surface- COB

