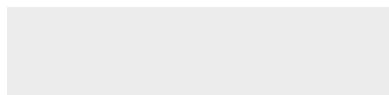


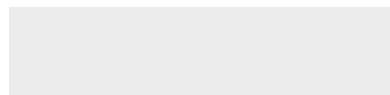


# MATREX RD DUAL TWIST™

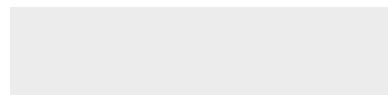
## FULL SPECIFICATION SHEET



Fixture Type



Fixture Code

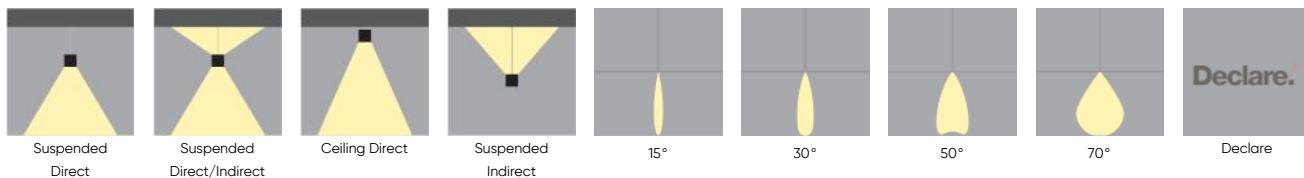


Quantities

### 1 DESCRIPTION

**MATREX TWIST** is a hybrid surface and pendant mount with a horizontal rotation of 180 degrees. The **MATREX** family of spotlights is 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. The revolutionary design delivers industry-leading performance from a significantly reduced form factor. The snoots are effective in controlling light spill and reducing glare.

### 2 OPTICS & FEATURES



### 3 APPROVALS



### 4 GENERAL SPECIFICATION

#### BODY AND TRIM

Steel and aluminum.

#### FINISH

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

## SUSPENSION

Steel cables.

## MECHANICAL

Luminaires mount to a junction box or switch box (by others – North America only), depending on canopy selection.

## DELIVERED LUMENS

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

## REPORTED L70 @25°C (77°F)

> 60,000 hrs.

## APPROVALS

Damp Rated.

## POWER CABLE

Silver braided.

## DRIVERS

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

## SENSORS

Consult factory regarding sensor compatibility.

## ESTIMATED L70 @25°C (77°F)

> 171,000 hrs.

## DESIGNED BY

Serge Cornelissen.

## 5 DESIGN OPTIONS

### FINISH - FIXTURE



## 6 HOW TO ORDER

### 1. LUMINAIRE

**MRDT1P01** Double Down, LEDs / **MRDT2P01** Direct/Indirect, LEDs / **MRDT1P02** Double Down, COB / **MRDT2P02** Direct/Indirect, COB /  
Multi-Array Optics, 20100 lms      Multi-Array Optics, 20100 lms      Reflector, 10050 lms      Reflector, 10050 lms

All data shown at max output and nominal values. For MRDT2P01 and MRDT2P02 (Direct/Indirect) the upper module will be direct and the lower module will be indirect.

## 2. LUMENS (UPPER MODULE)

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

For MRDT2P01 and MRDT2P02 (Direct/Indirect) the upper module will be direct and the lower module will be indirect.

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

\* Max lumen values shown, refer to IES files for the different snoot and beam options.

## 3. LUMENS (LOWER MODULE)

**LMB0250** 2500      **LMB0500** 5025      **LMB0750** 7500 <sup>1</sup>      **LMB1000** 10050 <sup>1</sup>

For MRDT2P01 and MRDT2P02 (Direct/Indirect) the upper module will be direct and the lower module will be indirect.

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

\* Max lumen values shown, refer to IES files for the different snoot and beam options.

## 4. CRI

**CR80** CRI 80+      **CR90** CRI 90+ <sup>1</sup>

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

## 5. CCT

**CTA27** 2700K <sup>1</sup>      **CTA30** 3000K      **CTA35** 3500K      **CTA40** 4000K

<sup>1</sup> 2700K is only available with CRI 80+

## 6. 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.

## 7. 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.

## 8. 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.

## 9. DIMMING

**DA01** 0-10V Dimming 1.0%

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

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

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

**DA30** DSI/switchDim<sup>1,2</sup>

<sup>1</sup> Not available with V3. <sup>2</sup> Not available in North America.

## 10. FIXTURE FINISH

**FA01** White

**FA02** Black Metallic - Textured

**FA20** Silver Metallic - Textured

**FA44** Midnight Blue Metallic -

Textured

**FA46** Charcoal Metallic -  
Textured

**FA47** Bronze Metallic - Textured

**FA53** Red Metallic - Textured

## 11. 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>

**NT9** Hex Louver - Black<sup>2,3</sup>

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.

<sup>1</sup> Snoot must be picked at time of order, if 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.

## 12. 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>

**NU9** 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> Snoot must be picked at time of order, if not ordering a louver.

<sup>2</sup> Not available with BB70 beam angle. Available with Double Down version only.

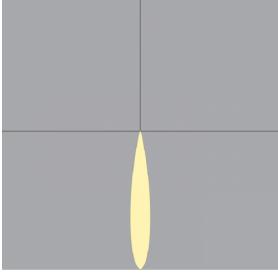
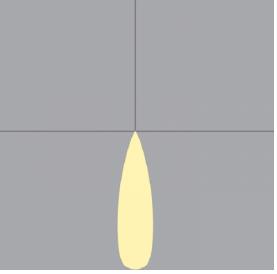
**7 TECHNICAL DATA**

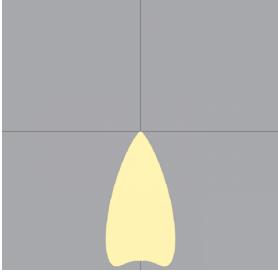
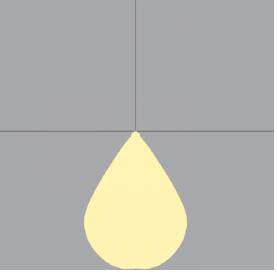
**LUMINAIRE**

All data shown at max output and nominal values. For MRDT2P01 and MRDT2P02 (Direct/Indirect) the upper module will be direct and the lower module will be indirect.

Code	MRDT1P01	MRDT2P01	MRDT1P02	MRDT2P02
<b>Light Direction</b>	Double Down	Direct/Indirect	Double Down	Direct/Indirect
<b>Max Wattage</b>	186W	186W	88W	88W
<b>Max Delivered lms</b>	20100	20100	10050	10050
<b>Max LPW</b>	124	124	111	111

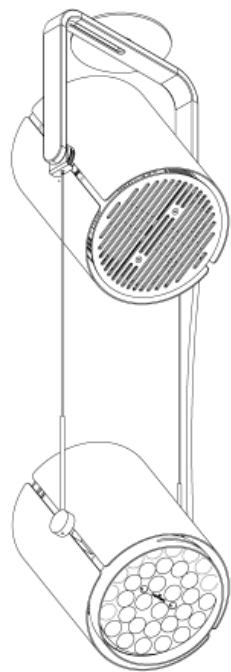
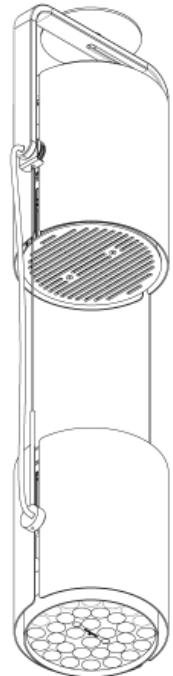
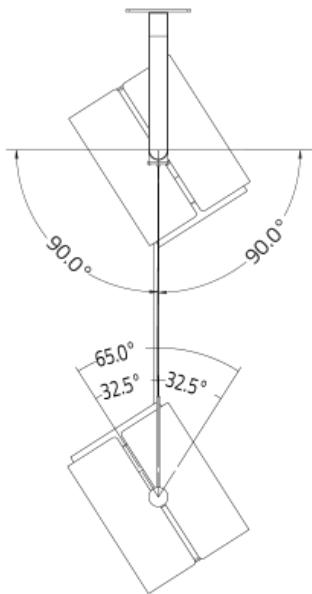
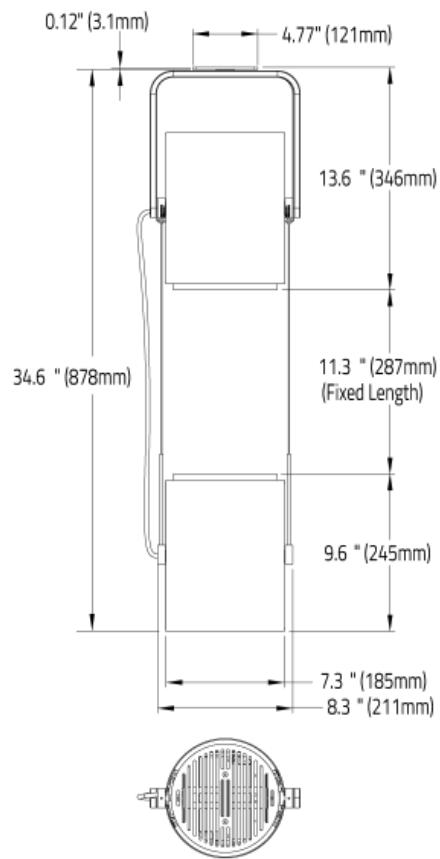
**8 PERFORMANCE DATA**

DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 30° BEAM ANGLE	WATTS	LUMENS	LPW
	38	5000	132		38	5000	135
	82	9800	121		82	10050	124
	130	14800	114		130	15000	116
	186	20000	106		186	20100	108

DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	38	4800	128		38	4800	129
	82	9600	117		82	9600	118
	130	14200	110		130	14400	111
	186	19000	102		186	19200	103

**9** DIMENSIONAL DIAGRAMS

Direct/Indirect

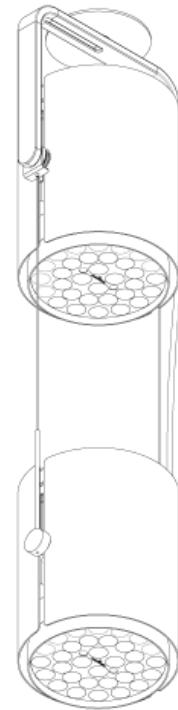
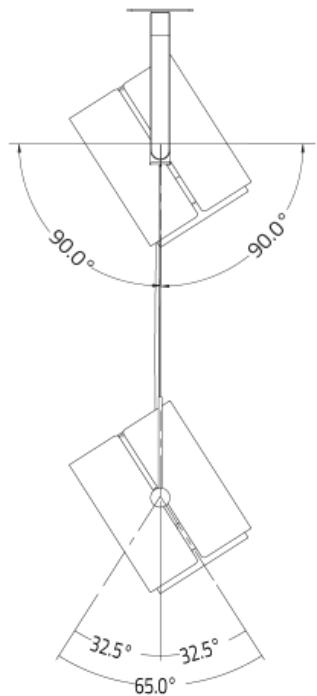
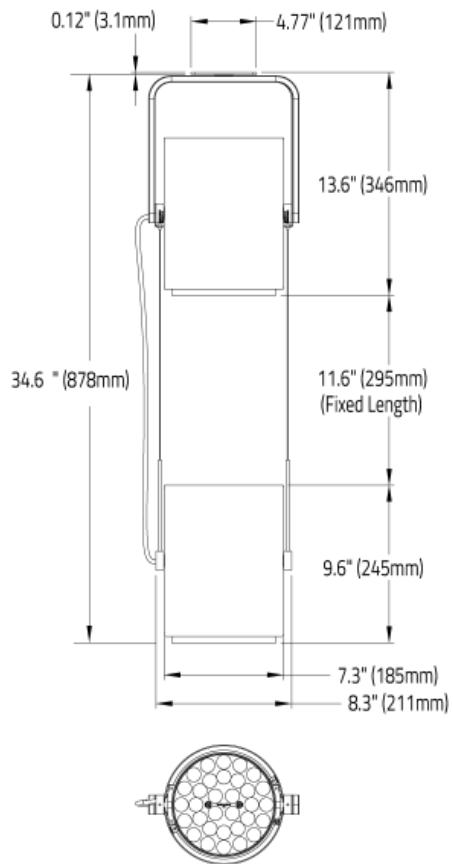


ISOMETRIC BOTTOM VIEW  
STRAIGHT

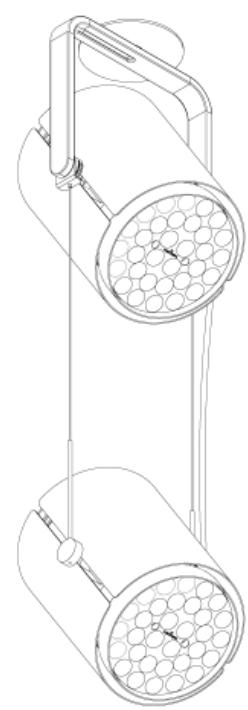
ISOMETRIC VIEW  
ANGLED

**MATREX RD DUAL TWIST™ - SURFACE**  
FULL SPECIFICATION SHEET

Double Down



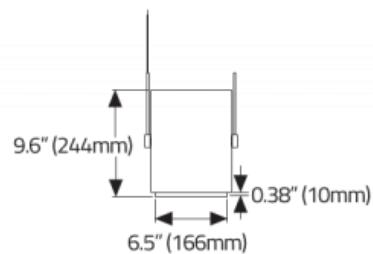
ISOMETRIC BOTTOM VIEW  
STRAIGHT



ISOMETRIC VIEW  
ANGLED

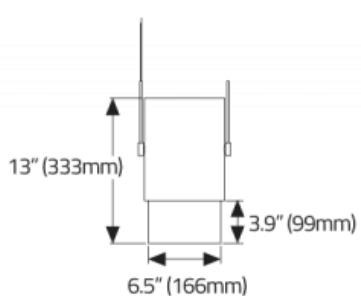
Snoots

STANDARD SNOOT



ISOMETRIC VIEW

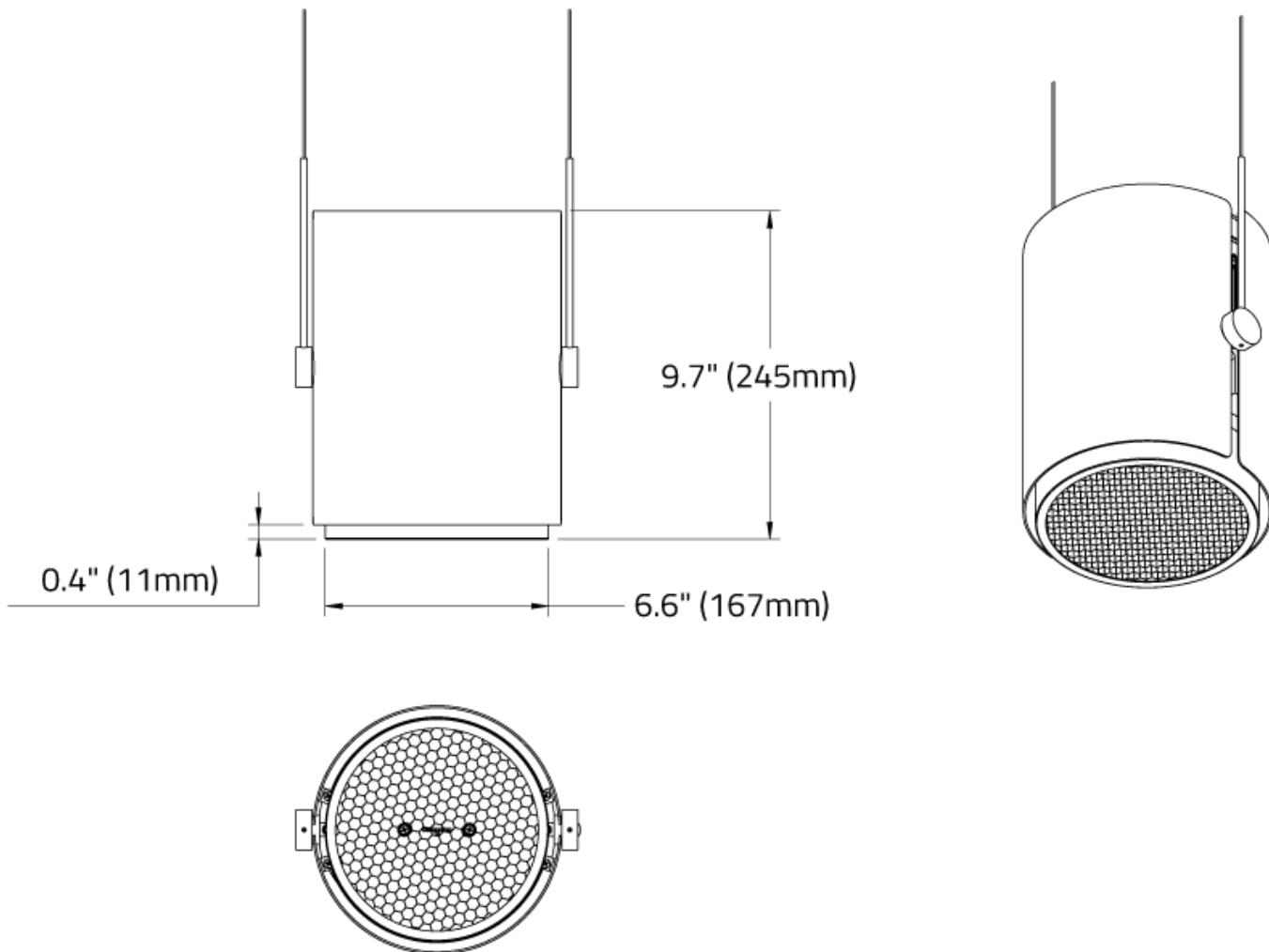
LONG SNOOT



ISOMETRIC VIEW

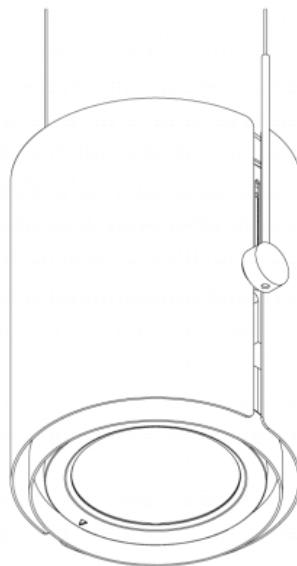
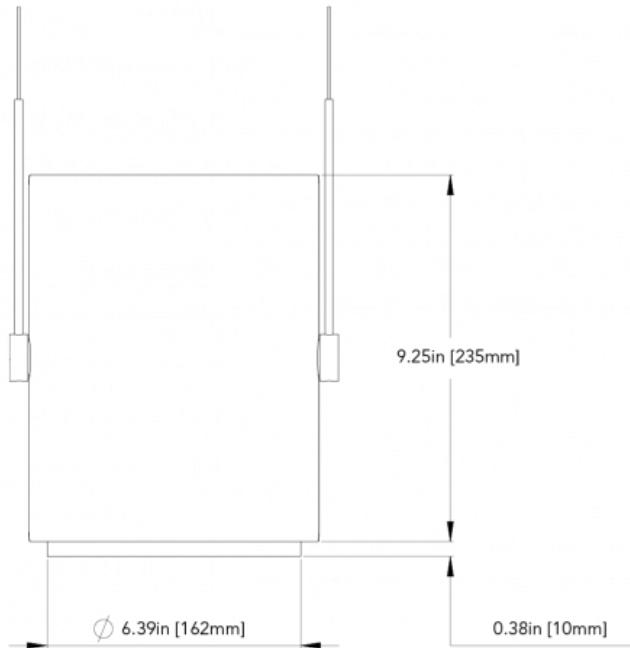
LOUVRE

## HEX CELL LOUVRE



Matrex Round PD - COB

## Matrex RD PD - COB



Isometric View

