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

Suspended Direct | Suspended Direct/Indirect | Ceiling Direct | Suspended Indirect | 15° | 30° | 50° | 70° | Declare

3 APPROVALS

Intertek | CE | DAMP LOCATION | F | IP20

4 GENERAL SPECIFICATION

BODY AND TRIM

Steel and aluminum.

FINISH

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

SUSPENSION
Steel cables.

POWER CABLE
Silver braided.

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

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

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

SENSORS
Consult factory regarding sensor compatibility.

REPORTED L70 @25°C (77°F)
> 60,000 hrs.

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

APPROVALS
Damp Rated.

DESIGNED BY
Serge Cornelissen.

SUSTAINABILITY
Designed for on-site LED board, driver, and optic replacement. Contact the factory for maintenance documentation.

5 DESIGN OPTIONS

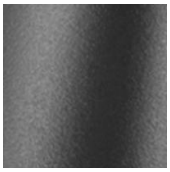
FINISH - FIXTURE

White


Black Metallic - Textured


Silver Metallic - Textured


Midnight Blue Metallic - Textured


Charcoal Metallic - Textured


Bronze Metallic - Textured


Red Metallic - Textured

6 HOW TO ORDER

1. LUMINAIRE

MRDT1P01 Double Down, LEDs / Multi-Array Optics, 20100 lms

MRDT2P01 Direct/Indirect, LEDs / Multi-Array Optics, 20100 lms

MRDT1P02 Double Down, COB / Reflector, 10050 lms

MRDT2P02 Direct/Indirect, COB / 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 [1] **LMA1000** 10050 [1]

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

[1] 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 [1] **LMB1000** 10050 [1]

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

[1] 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+ [1]

[1] Not available with COB / Reflector.

5. CCT

CTA27 2700K [1] **CTA30** 3000K **CTA35** 3500K **CTA40** 4000K

[1] 2700K is only available with CRI 80+

6. BEAM ANGLE (UPPER MODULE)

BA15 15° [1] **BA30** 30° [1] **BA50** 50° **BA70** 70° [1]

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

7. BEAM ANGLE (LOWER MODULE)

BB15 15° [1] **BB30** 30° [1] **BB50** 50° **BB70** 70° [1]

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

8. VOLTAGE

V1 120/277V

V2 240V [1]

V3 347V [2]

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

9. 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.

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 [1]

NT2 Standard Snoot - White [1]

NT3 Long Snoot - Black [1] [2]

NT4 Long 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 may decrease overall efficacy.
For COB/Reflector, the bezel finish matches the snoot finish.

[1] Snoot must be picked at time of order, if not ordering a louver. [2] Not available with COB / Reflector.

[3] Not available with BA70 beam angle. Available with Double Down version only.

12. SNOOTS AND LOUVER (LOWER MODULE)

NU1 Standard Snoot - Black [1]

NU2 Standard Snoot - White [1]

NU3 Long Snoot - Black [1] [2]

NU4 Long 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 and louvers may decrease overall efficacy.
For COB/Reflector, the bezel finish matches the snoot finish.

[1] Snoot must be picked at time of order, if not ordering a louver.

[2] Not available with BB70 beam angle. Available with Double Down version only.

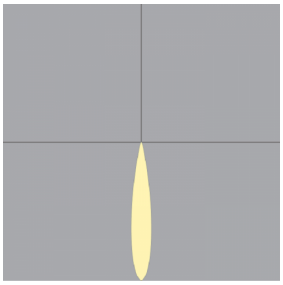
7 TECHNICAL DATA

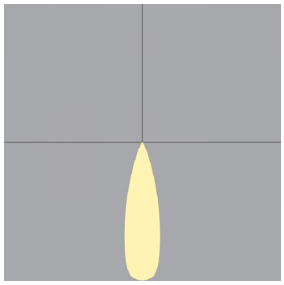
LUMINAIRE

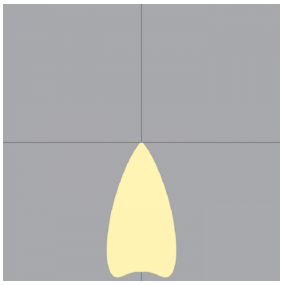
All data shown at max output and nominal values. For MRDT2P01 and MRDT2P02 (Direct/Indirect) the upper module will be direct and the lower module will be indirect.

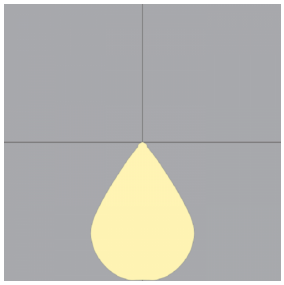
Code	MRDT1P01	MRDT2P01	MRDT1P02	MRDT2P02
Light Direction	Double Down	Direct/Indirect	Double Down	Direct/Indirect
Max Wattage	186W	186W	88W	88W
Max Delivered lms	20100	20100	10050	10050
Max LPW	124	124	111	111

8 PERFORMANCE DATA

DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW
	38 82 130 186	5000 9800 14800 20000	132 121 114 106

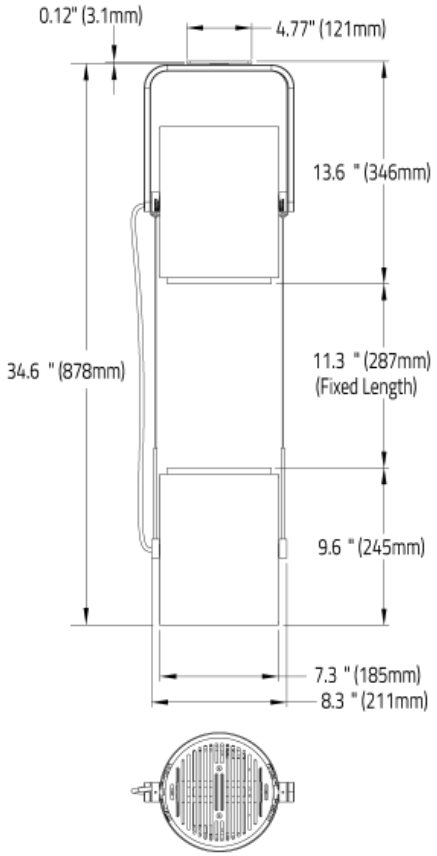
DIRECT 30° BEAM ANGLE	WATTS	LUMENS	LPW
	38 82 130 186	5000 10050 15000 20100	135 124 116 108

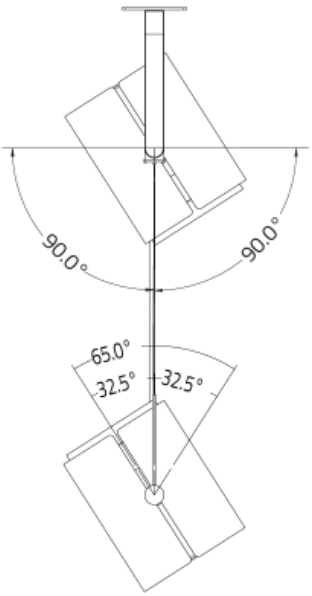
DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW
	38 82 130 186	4800 9600 14200 19000	128 117 110 102

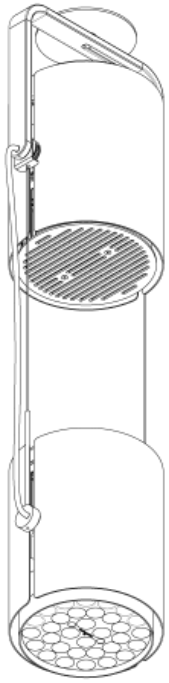
DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	38 82 130 186	4800 9600 14400 19200	129 118 111 103

9 DIMENSIONAL DIAGRAMS

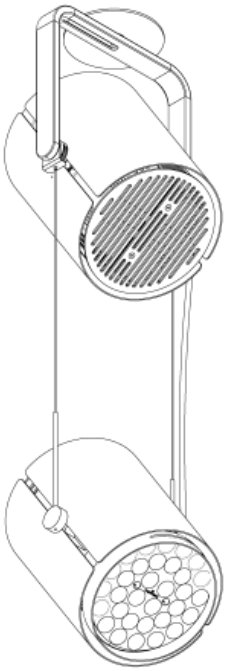
Direct/Indirect





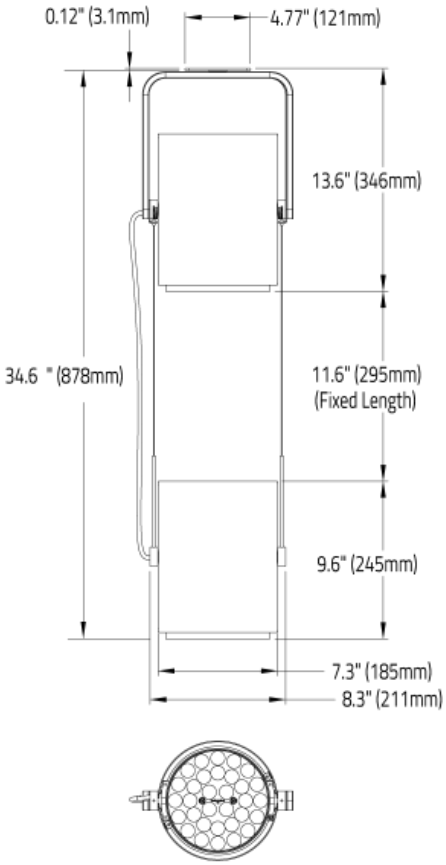


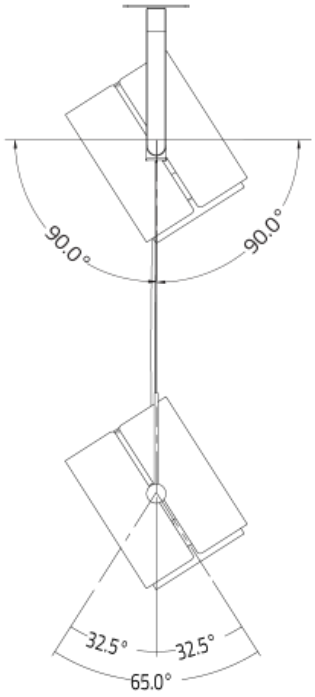
ISOMETRIC BOTTOM VIEW
STRAIGHT

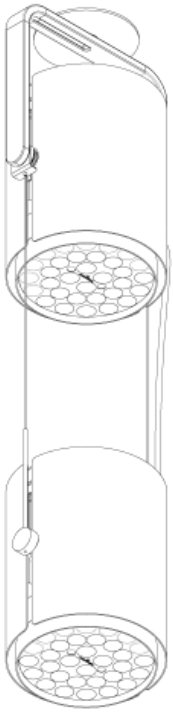


ISOMETRIC VIEW
ANGLED

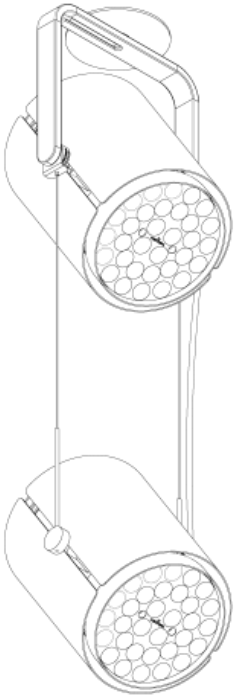
Double Down







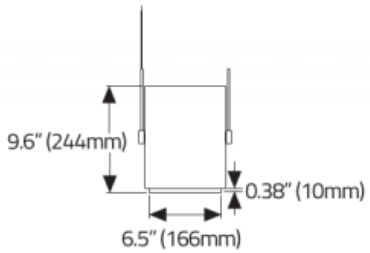
ISOMETRIC BOTTOM VIEW
STRAIGHT

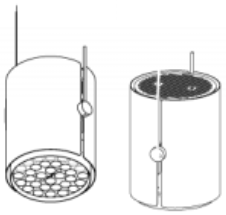


ISOMETRIC VIEW
ANGLED

Snoots

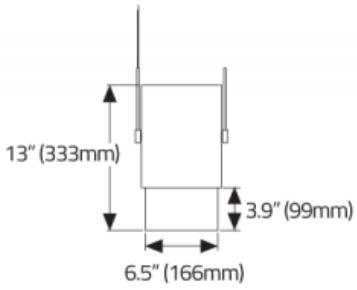
STANDARD SNOOT





ISOMETRIC VIEW

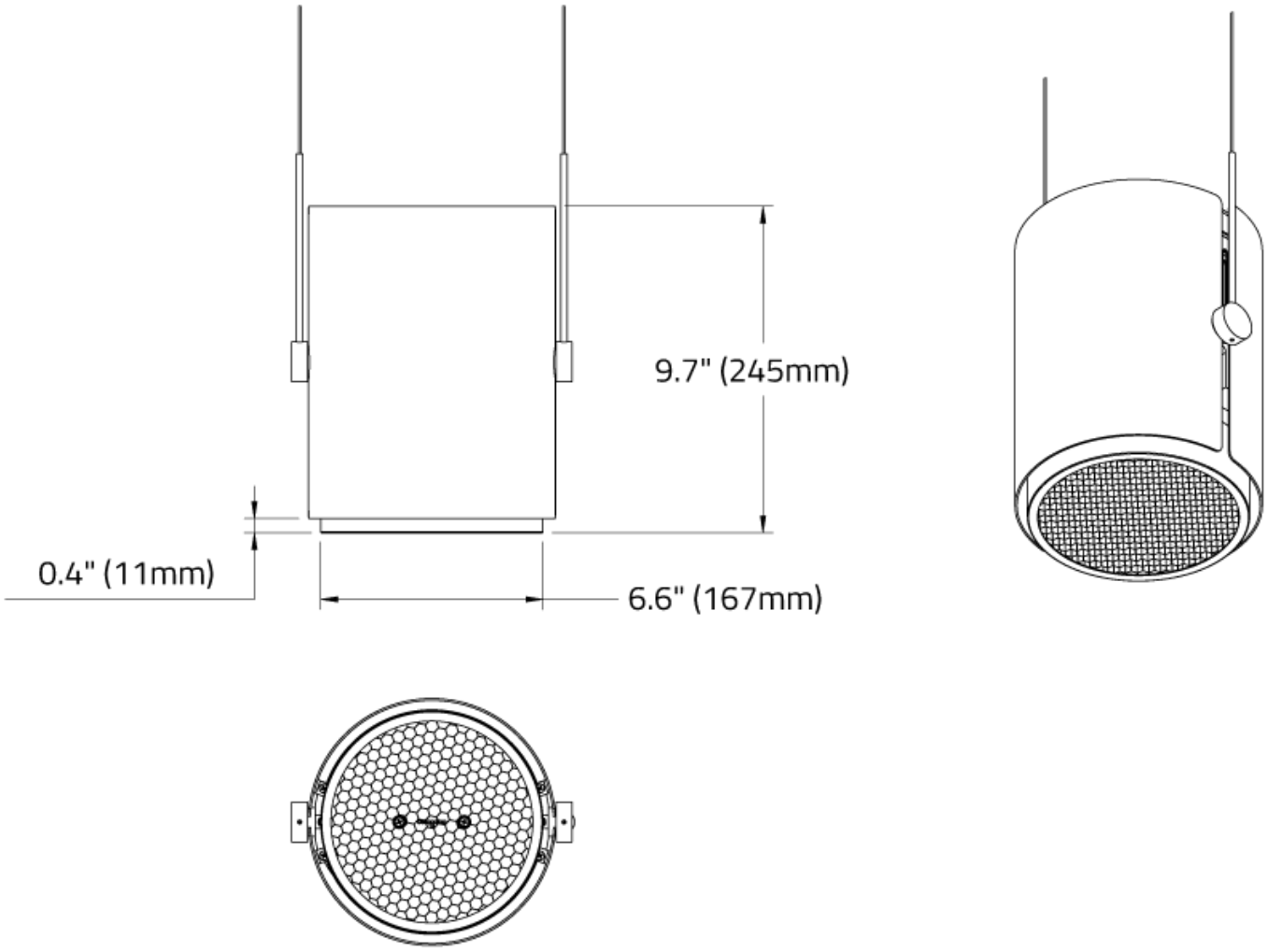
LONG SNOOT



ISOMETRIC VIEW

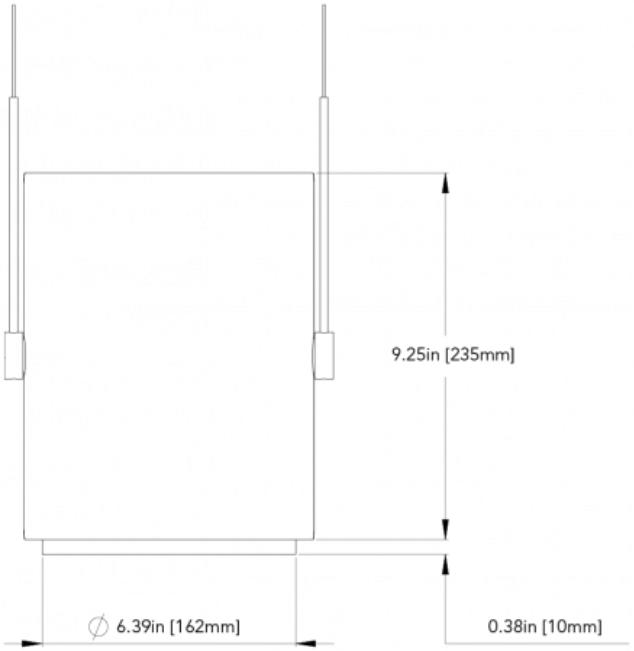
LOUVRE

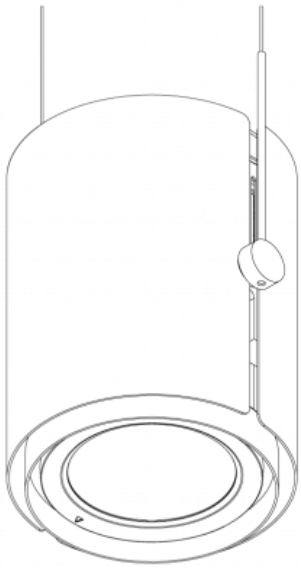
HEX CELL LOUVRE



Matrex Round PD - COB

Matrex RD PD - COB





Isometric View