



MATREX RD DUAL TWIST™

FULL SPECIFICATION SHEET



FIXTURE TYPE



FIXTURE CODE

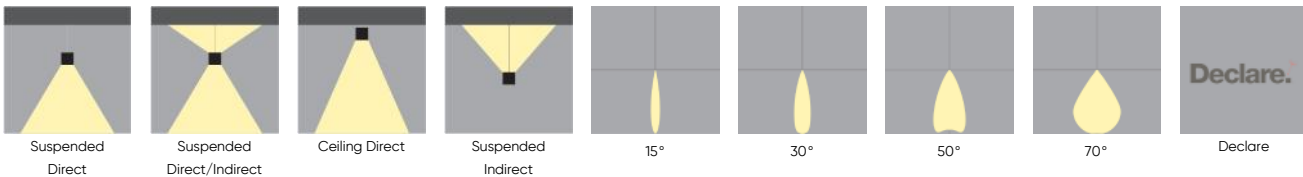


QUANTITIES

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 & lpw based on 4000K, CRI 80+.

REPORTED L70 @25°C (77°F)

> 60,000 hrs.

APPROVALS

Damp Rated.

SUSTAINABILITY

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

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)

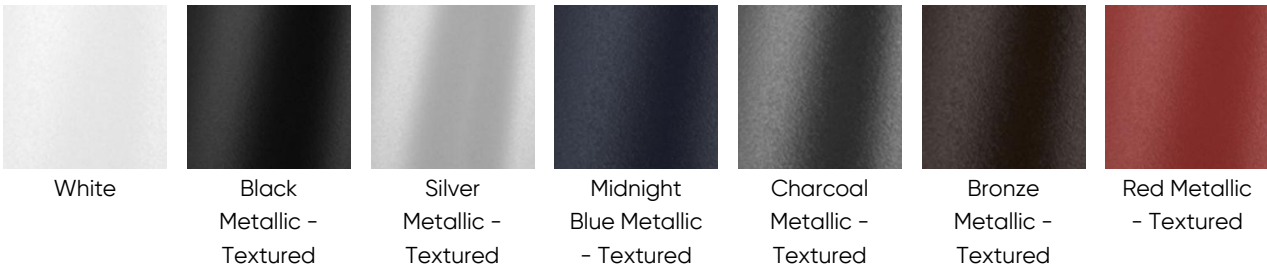
> 171,000 hrs.

DESIGNED BY

Serge Cornelissen.

5 DESIGN OPTIONS

FINISH - FIXTURE



6 HOW TO ORDER

1. LUMINAIRE

MRDT1P01 Double Down, LEDs / 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.

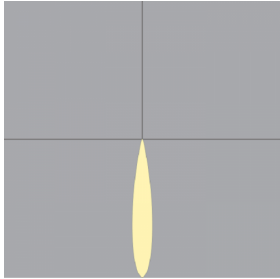
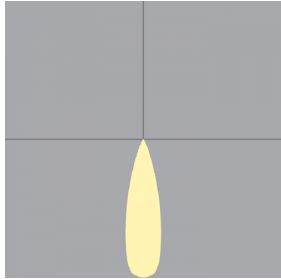
7 TECHNICAL DATA

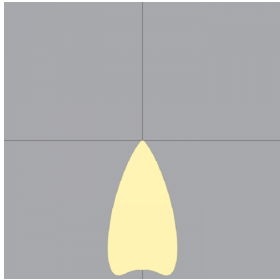
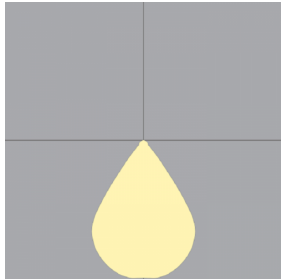
LUMINAIRE

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

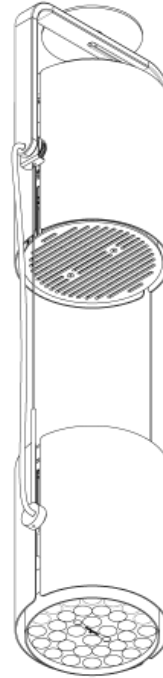
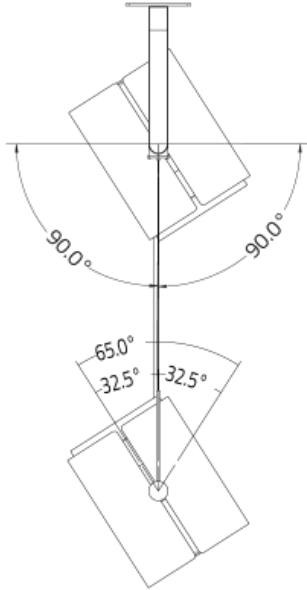
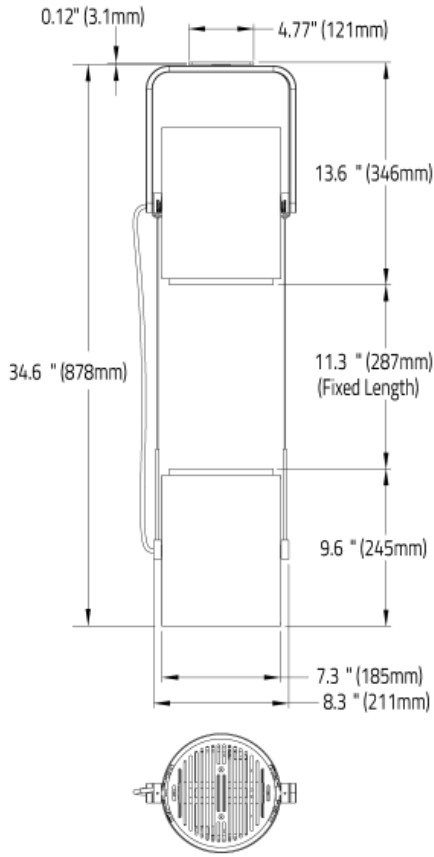
8 PERFORMANCE DATA

DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW	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

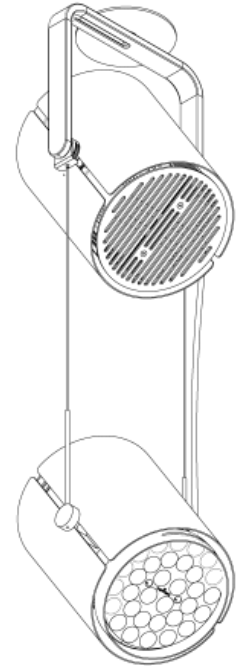
DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW	DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	38	4800	128		38	4800	129
	82	9600	117		82	9600	118
	130	14200	110		130	14400	111
	186	19000	102		186	19200	103

9 DIMENSIONAL DIAGRAMS

Direct/Indirect



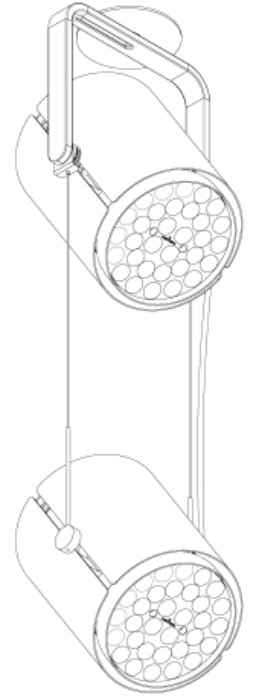
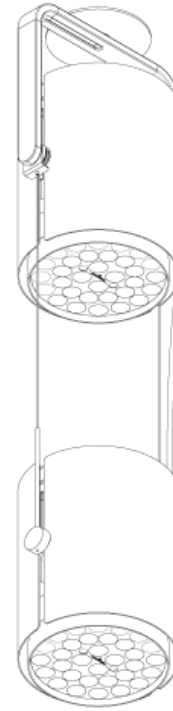
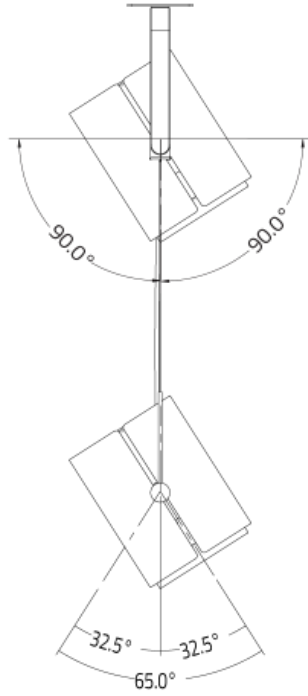
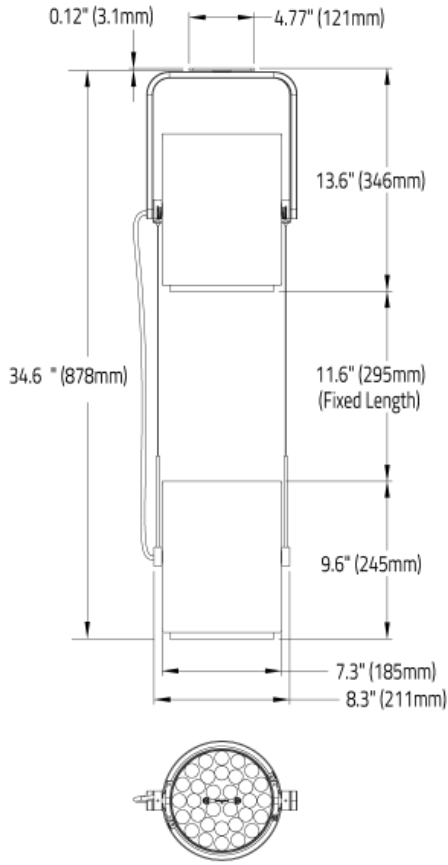
ISOMETRIC BOTTOM VIEW
 STRAIGHT



ISOMETRIC VIEW
 ANGLED

b MATREX RD DUAL TWIST™ - SURFACE
 FULL SPECIFICATION SHEET

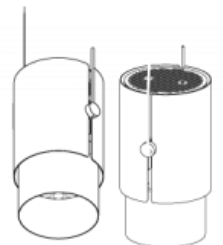
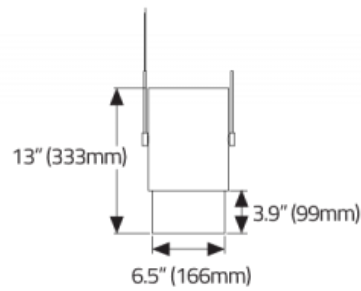
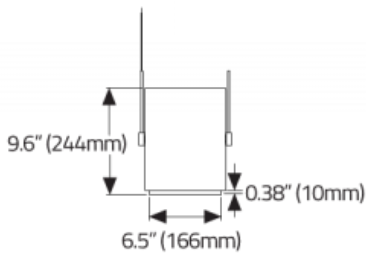
Double Down



Snoots

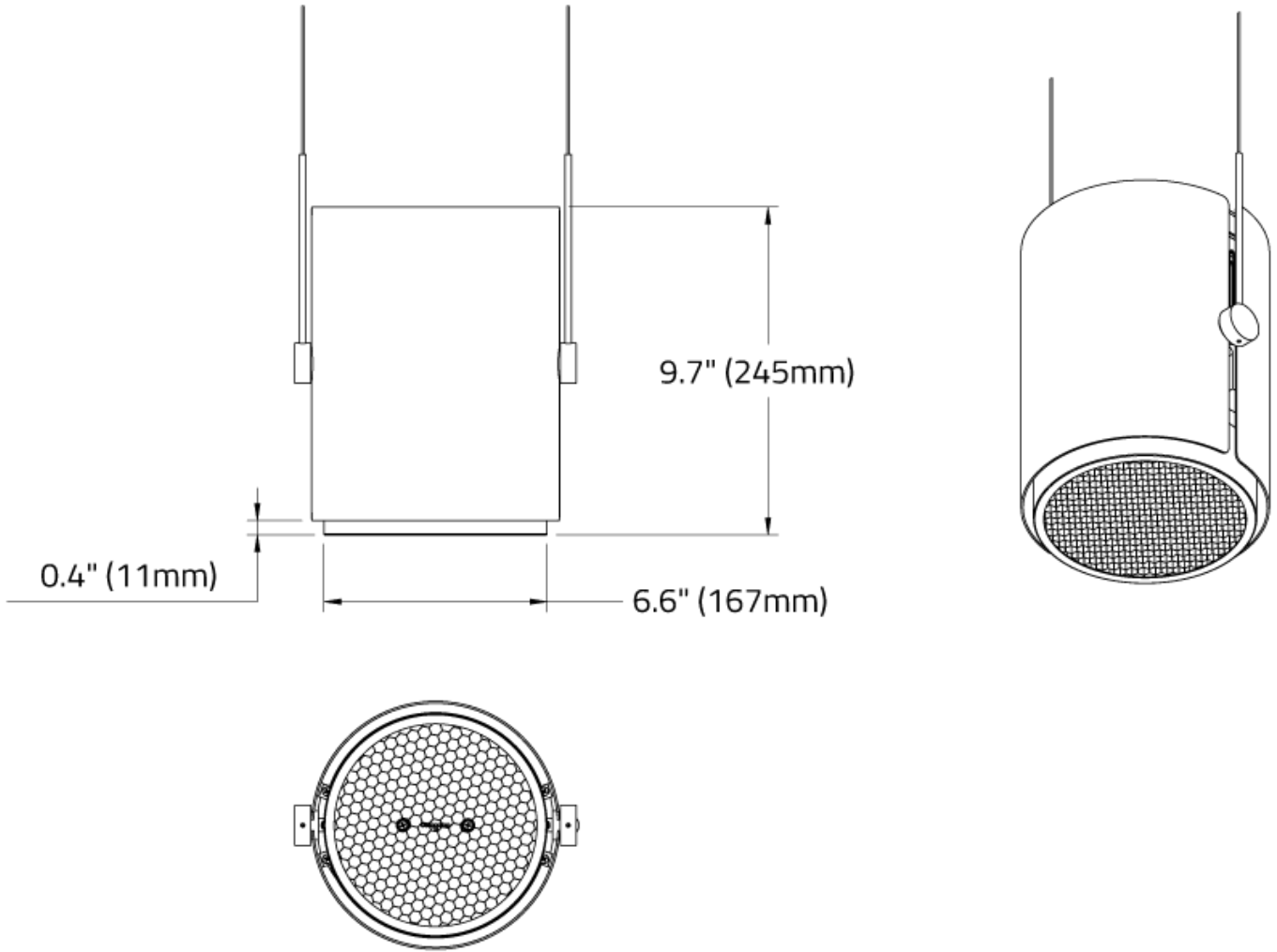
STANDARD SNOOT

LONG SNOOT



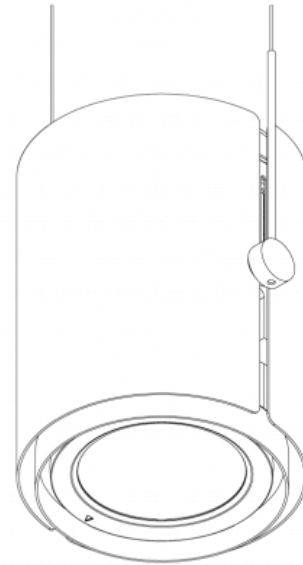
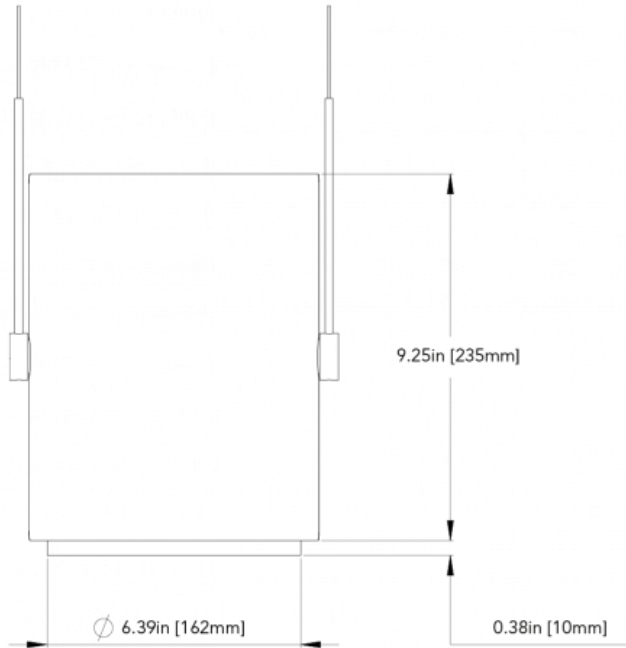
LOUVRE

HEX CELL LOUVRE



Matrex Round PD - COB

Matrex RD PD - COB



Isometric View

