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 | Surface 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.

© 2026 Beta-Calco Inc. Specifications are subject to change without notice

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

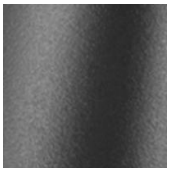
FINISH - FIXTURE

White


Black Metallic - Textured


Silver Metallic - Textured


Midnight Blue Metallic - Textured


Charcoal Metallic - Textured


Bronze Metallic - Textured


Red Metallic - Textured

6 HOW TO ORDER

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.

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.

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.

© 2026 Beta-Calco Inc. Specifications are subject to change without notice

CRI

CR80 CRI 80+

CR90 CRI 90+ [1]

[1] Not available with COB / Reflector.

CCT

CTA27 2700K [1]

CTA30 3000K

CTA35 3500K

CTA40 4000K

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

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.

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.

VOLTAGE

V1 120/277V

V2 240V [1]

V3 347V [2]

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

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.

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

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.

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.

© 2026 Beta-Calco Inc. Specifications are subject to change without notice

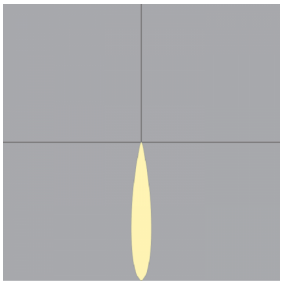
7 TECHNICAL DATA

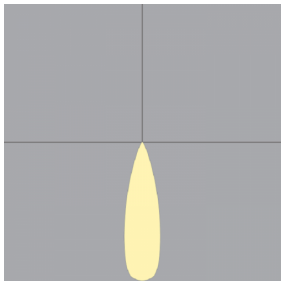
LUMINAIRE

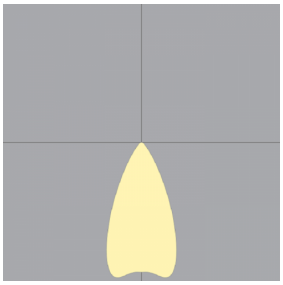
All data shown at max output and nominal values. For MRDT2P01 and MRDT2P02 (Direct/Indirect) the upper module will be direct and the lower module will be indirect.

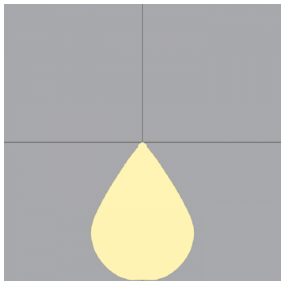
Code	MRDT1P01	MRDT2P01	MRDT1P02	MRDT2P02
Light Direction	Double Down	Direct/Indirect	Double Down	Direct/Indirect
Max Wattage	186W	186W	88W	88W
Max Delivered lms	20100	20100	10050	10050
Max LPW	124	124	111	111

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

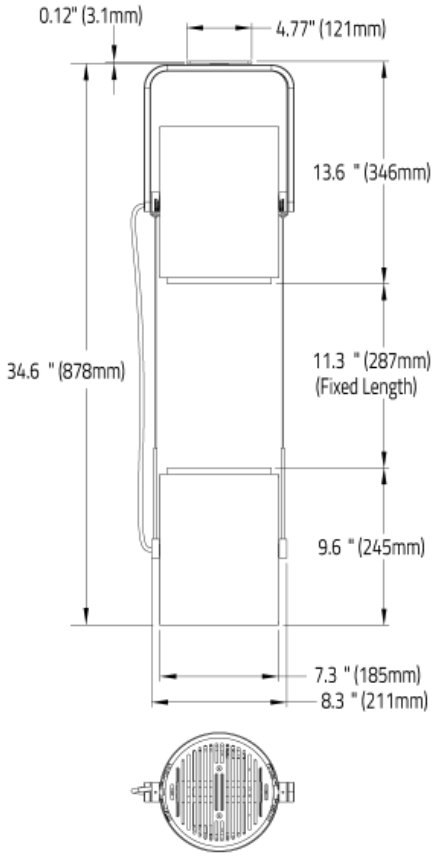
DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW
	38 82 130 186	4800 9600 14200 19000	128 117 110 102

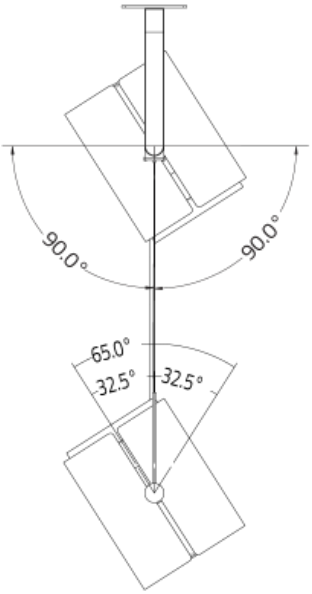
DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	38 82 130 186	4800 9600 14400 19200	129 118 111 103

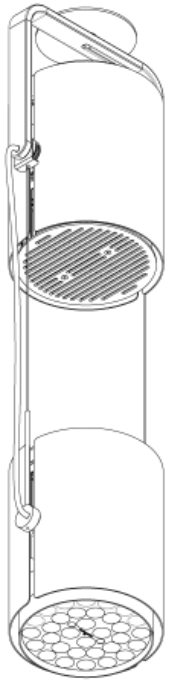
© 2026 Beta-Calco Inc. Specifications are subject to change without notice

9 DIMENSIONAL DIAGRAMS

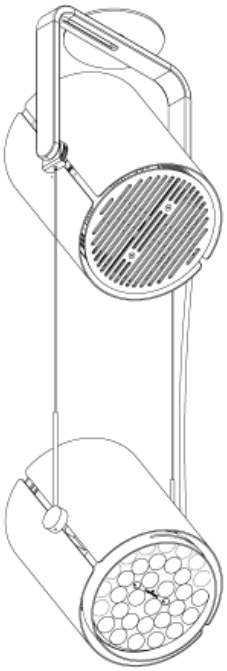
Direct/Indirect







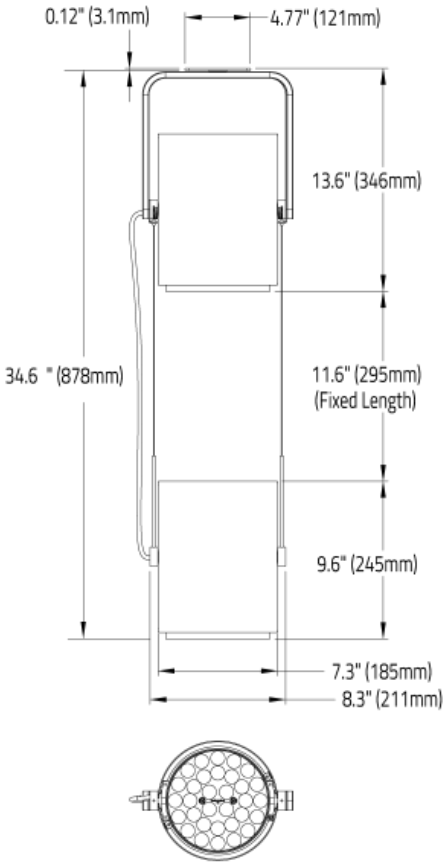
ISOMETRIC BOTTOM VIEW
STRAIGHT

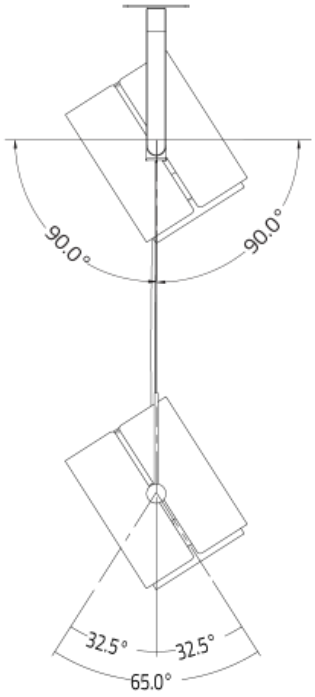


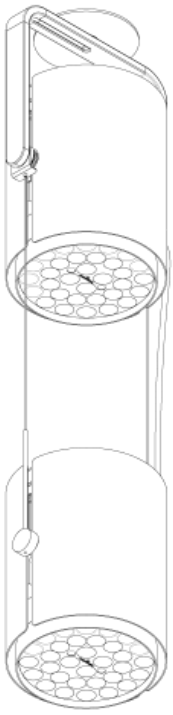
ISOMETRIC VIEW
ANGLED

© 2026 Beta-Calco Inc. Specifications are subject to change without notice

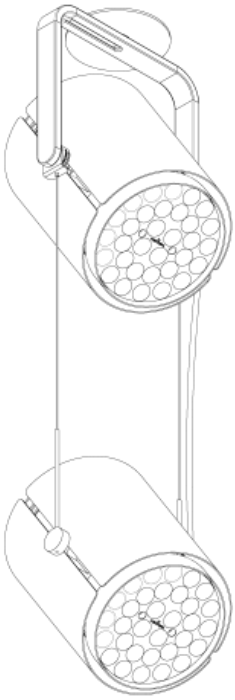
Double Down







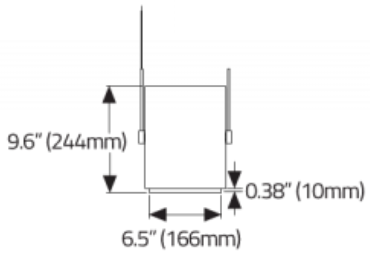
ISOMETRIC BOTTOM VIEW
STRAIGHT

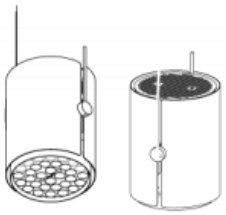


ISOMETRIC VIEW
ANGLED

Snoots

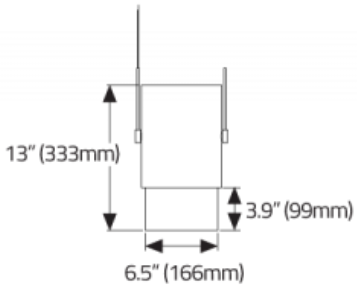
STANDARD SNOOT





ISOMETRIC VIEW

LONG SNOOT



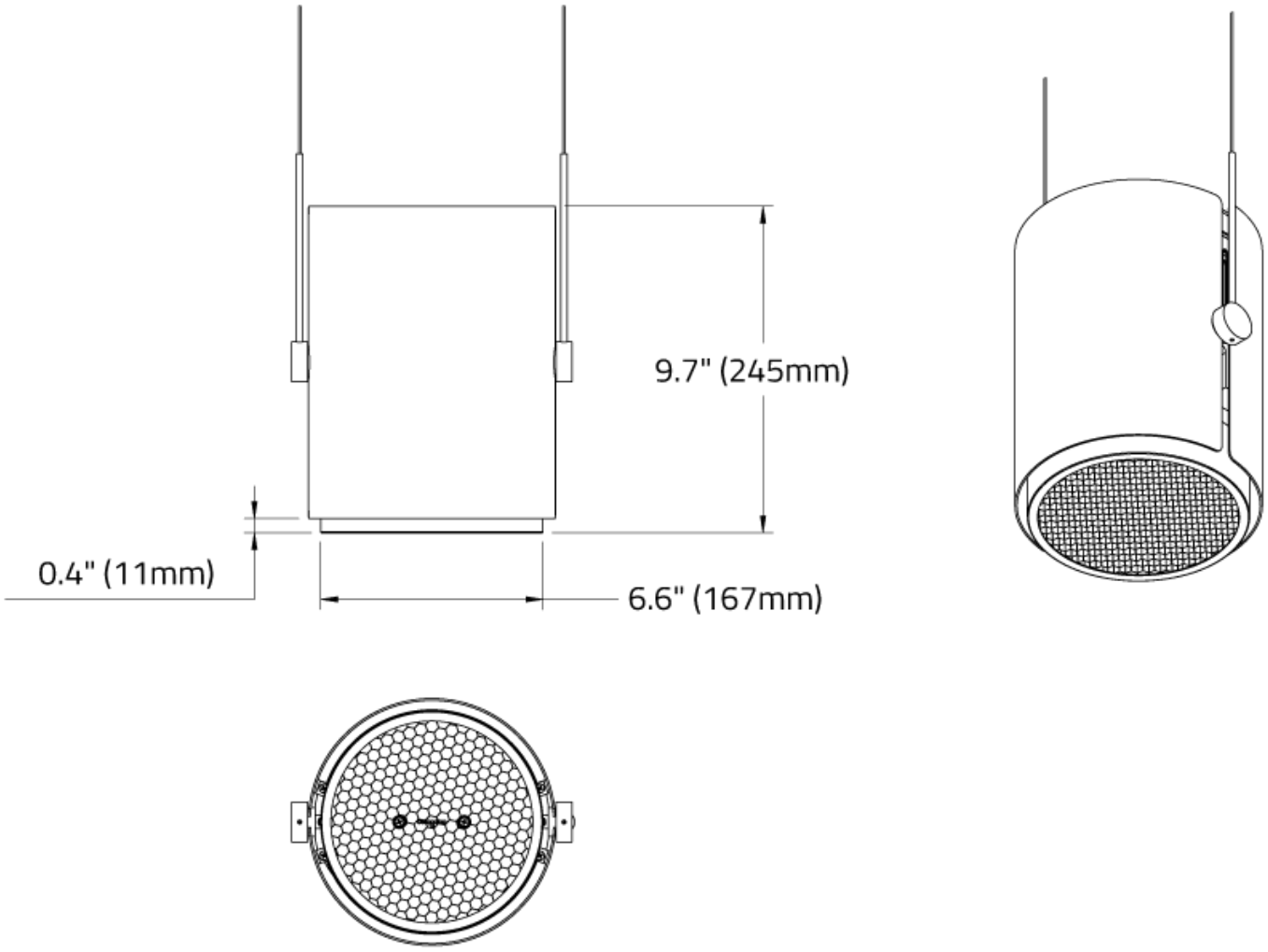


ISOMETRIC VIEW

© 2026 Beta-Calco Inc. Specifications are subject to change without notice

LOUVRE

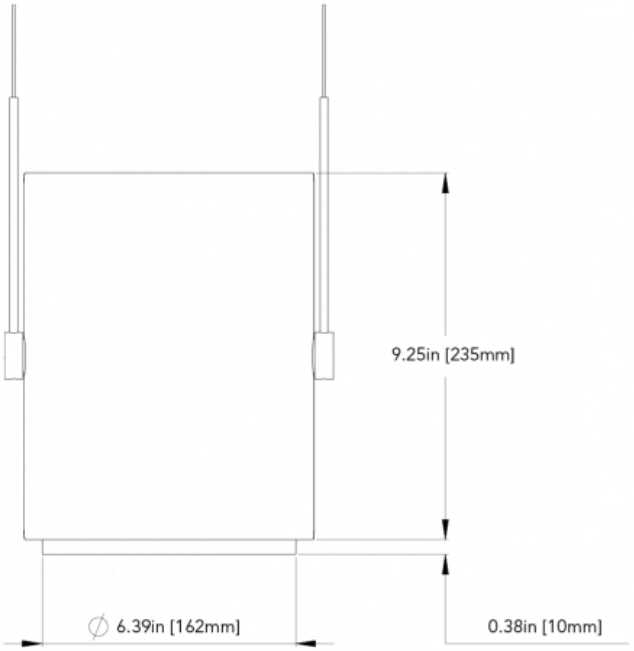
HEX CELL LOUVRE

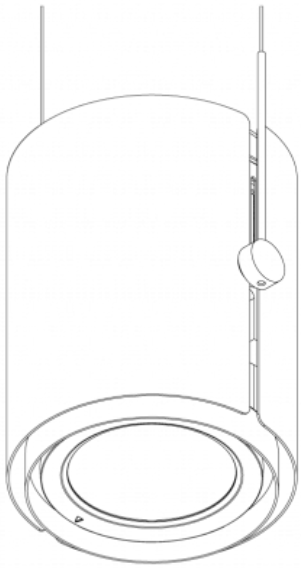


© 2026 Beta-Calco Inc. Specifications are subject to change without notice

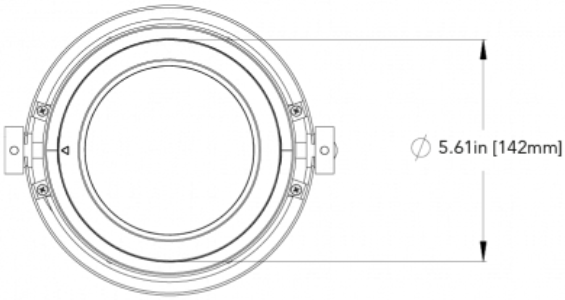
Matrex Round PD - COB

Matrex RD PD - COB





Isometric View



© 2026 Beta-Calco Inc. Specifications are subject to change without notice