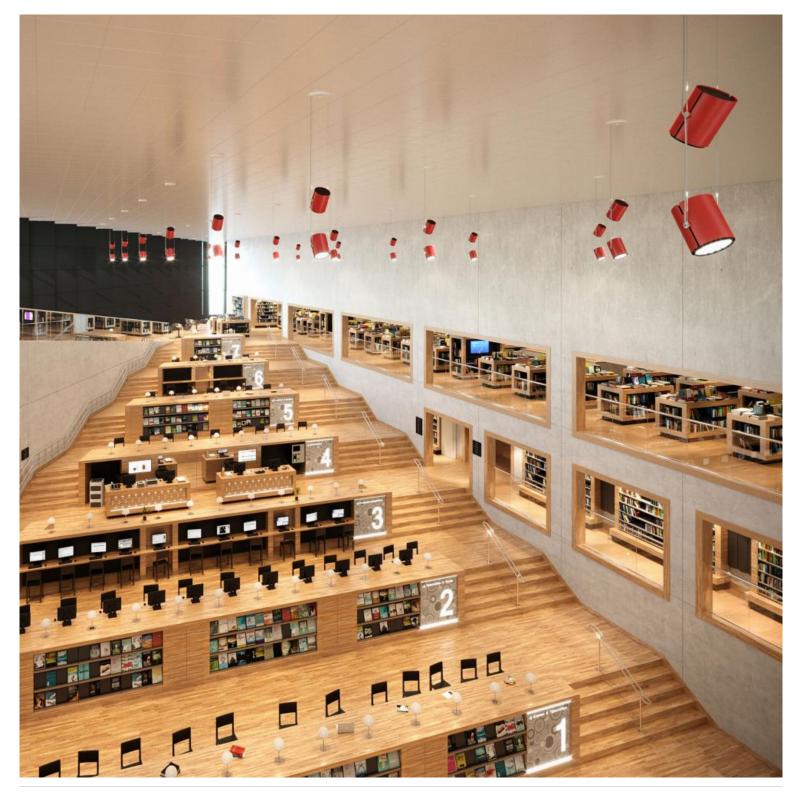
Project Name: Fixture Type:

Fixture Code: Quantities:





MATREX is a family of spotlights 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.

#### **GENERAL SPECIFICATION**

#### Body and trim

Steel and aluminum.

### Suspension

Steel cables.

### Integral emergency system (EU only)

Emergency option provides a 3 hour emergency lighting facility. Integral emergency EU luminaires have a 13.4" (340mm) x 2.3" (58mm) canopy with LED charge indicator.

#### Mechanical

Luminaires mount to a junction box (by others - North America only).

#### **Delivered lumens**

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

#### 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.

#### Power cable

Silver braided.

#### Drivers

HPF, electronic, 120-277V, 347V (EU-240V). The driver is integral to the fixture housing except when ordering emergency, then the driver is integral to the canopy.

#### Sensors

Consult factory regarding sensor compatibility.

#### **Approvals**

Damp Rated.

### Estimated L70 @25°C (77°F)

> 171,000 hrs.

### **OPTICS & FEATURES**



Suspended Direct



Direct/Indirect



Suspended



Indirect



15°





30°



50°



70°



Declare

### **HOW TO ORDER**

#### A. LUMINAIRE

MRDP1P01 Double Down, LEDs / Multi- MRDP2P01 Direct/Indirect, LEDs / Array Optics, 20100 lms

MRDP2P02 Direct/Indirect, COB / Reflector, 10050 lms

Multi-Array Optics, 20100 lms

MRDP3P02 Double Up, COB / Reflector, 10050 lms

MRDP3P01 Double Up, LEDs / Multi-Array Optics, 20100 lms

MRDP1P02 Double Down, COB / Reflector, 10050 lms

All data shown at max output and nominal values.

### **B. LUMENS (UPPER MODULE)**

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

## **C. LUMENS (LOWER MODULE)**

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

#### D. CRI

CR80 CRI 80+ CR90 CRI 90+ 1

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

#### E. CCT

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

#### F. BEAM ANGLE (UPPER MODULE)

**BA30** 30° <sup>1</sup> **BA15** 15° <sup>1</sup> **BA50** 50° BA70 70° 1

## **G. BEAM ANGLE (LOWER MODULE)**

**BB15** 15° <sup>1</sup> **BB70** 70° 1 BB30 30° 1 **BB50** 50°

## **H. VOLTAGE**

**V3** 347V <sup>2</sup> **V2** 240V <sup>1</sup> V1 120/277V

<sup>&</sup>lt;sup>1</sup> Not available with COB / Reflector.

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

<sup>&</sup>lt;sup>1</sup> Not available with COB / Reflector.

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

<sup>&</sup>lt;sup>1</sup> 2700K is only available with CRI 80+ and LEDs / Multi-Array Optics.

 $<sup>^1</sup>$  15°, 30°, and 70° are not available with COB / Reflector.

<sup>&</sup>lt;sup>1</sup> 15°, 30°, and 70° are not available with COB / Reflector.

<sup>&</sup>lt;sup>1</sup> Not available in North America.

<sup>&</sup>lt;sup>2</sup> Only available with DA01 dimming.

#### I. 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>12</sup> **DA40** DMX Dimming <sup>13</sup>

#### J. 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

#### **K. CANOPY**

CN1 Canopy A 1 CN2 Canopy B 1 CN3 Canopy C 1 2 CN4 Canopy D 1 3

#### L. CANOPY FINISH

CF01 White CF02 Black Metallic - Textured CF20 Silver Metallic - Textured CF25 Gold Metallic - Textured CF44 Midnight Blue Metallic - Textured CF46 Charcoal Metallic - Textured CF47 Bronze Metallic - Textured CF53 Red Metallic - Textured

### M. SNOOTS AND LOUVER (UPPER MODULE)

NT1 Standard Snoot - Black <sup>1</sup> NT2 Standard Snoot - White <sup>1</sup> NT3 Long Snoot - Black <sup>12</sup> NT4 Long Snoot - White <sup>12</sup> NT5 Half Snoot - Black <sup>12</sup> NT9 Hex Louver - Black <sup>23</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.

### N. SNOOTS AND LOUVER (LOWER MODULE)

NU1 Standard Snoot - Black <sup>1</sup> NU2 Standard Snoot - White <sup>1</sup> NU3 Long Snoot - Black <sup>12</sup> NU4 Long Snoot - White <sup>12</sup> NU5 Half Snoot - Black <sup>12</sup> NU6 Half Snoot - White <sup>12</sup> NU9 Hex Louver - Black <sup>23</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.

#### O. EMERGENCY

**E0** Emergency system not required **E1** Emergency system - Integral <sup>1 2</sup>

<sup>&</sup>lt;sup>1</sup> Not available with 347V.

<sup>&</sup>lt;sup>2</sup> Not available in North America.

<sup>&</sup>lt;sup>3</sup> Only available with CN4 canopy.

<sup>&</sup>lt;sup>1</sup> Fits over a standard j-box (provided by others)

<sup>&</sup>lt;sup>2</sup> For use with V2 (240V) only.

<sup>&</sup>lt;sup>3</sup> To be ordered with E1 (Emergency Integral) or DA40 (DMX Dimming)

<sup>&</sup>lt;sup>1</sup> A snoot must be picked at time of order, if you are not ordering a louver.

<sup>&</sup>lt;sup>2</sup> Not available with COB / Reflector.

<sup>&</sup>lt;sup>3</sup> Not available with BA70 beam angle. Available with Double Down version only.

<sup>&</sup>lt;sup>1</sup> A snoot must be picked at time of order, if you are not ordering a louver.

<sup>&</sup>lt;sup>2</sup> Not available with COB / Reflector.

<sup>&</sup>lt;sup>3</sup> Not available with BB70 beam angle.

<sup>&</sup>lt;sup>1</sup> Integral emergency in the lower module only, drivers are in the canopy. Not available with 347V. Two power cables will be supplied.

<sup>&</sup>lt;sup>2</sup> CN4 canopy only used when ordering emergency or DMX. Two power cables supplied.

## P. SEPARATE SWITCHING

CS1 Single circuit

**CS2** Separate switching <sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Two power cables will be supplied.

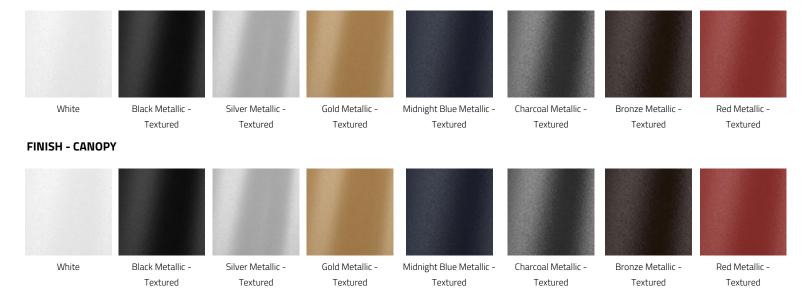
## **TECHNICAL DATA**

#### **LUMINAIRE**

All data shown at max output and nominal values.

Code	MRDP1P01	MRDP2P01	MRDP3P01	MRDP1P02	MRDP2P02	MRDP3P02
Light Direction	Double Down	Direct/Indirect	Double Up	Double Down	Direct/Indirect	Double Up
Max Wattage	186W	186W	186W	88W	88W	88W
Max Delivered Ims	20100	20100	20100	10050	10050	10050
Max LPW	124	124	124	111	111	111

### **FINISH - FIXTURE**



### **APPROVALS**











**IP**20

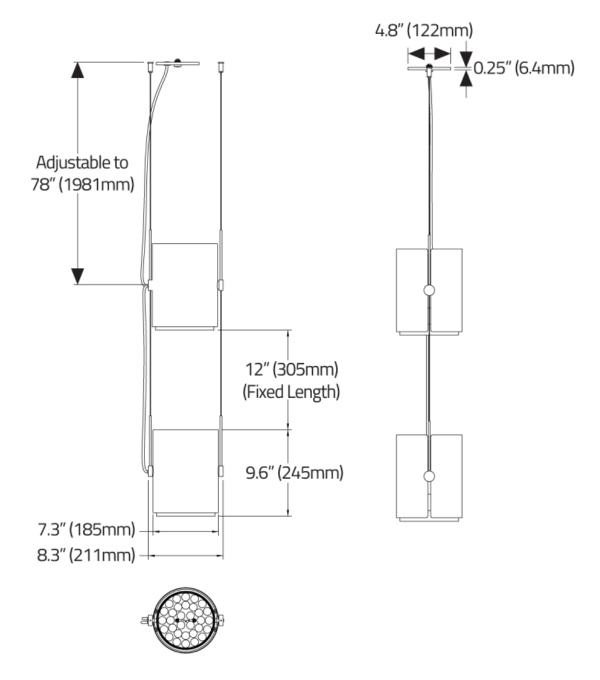
## PERFORMANCE DATA

DIRECT 15° BEAM ANGLE	WATTS	LUMENS	LPW
	38	5000	132
	82	9800	121
	130	14800	114
	186	20000	106
DIRECT 30° BEAM ANGLE	WATTS	LUMENS	LPW
	38	5000	135
	82	10050	124
	130	15000	116
	186	20100	108
DIRECT 50° BEAM ANGLE	WATTS	LUMENS	LPW
	38	4800	128
	82	9600	117
	130	14200	110
	186	19000	102

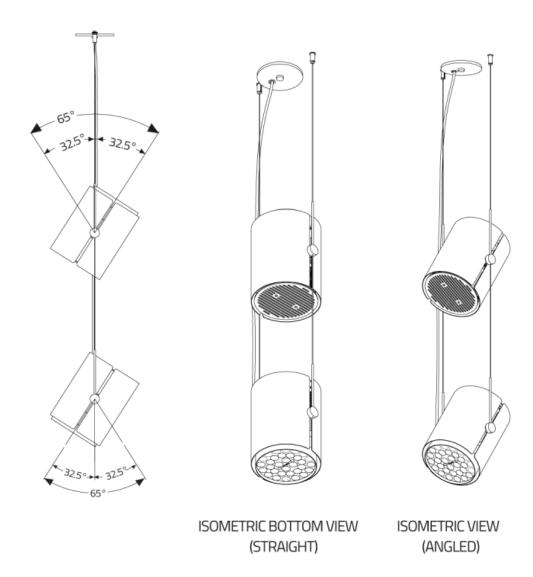
DIRECT 70° BEAM ANGLE	WATTS	LUMENS	LPW
	38	4800	129
	82	9600	118
	130	14400	111
	186	19200	103

## **DIMENSIONAL DIAGRAMS**

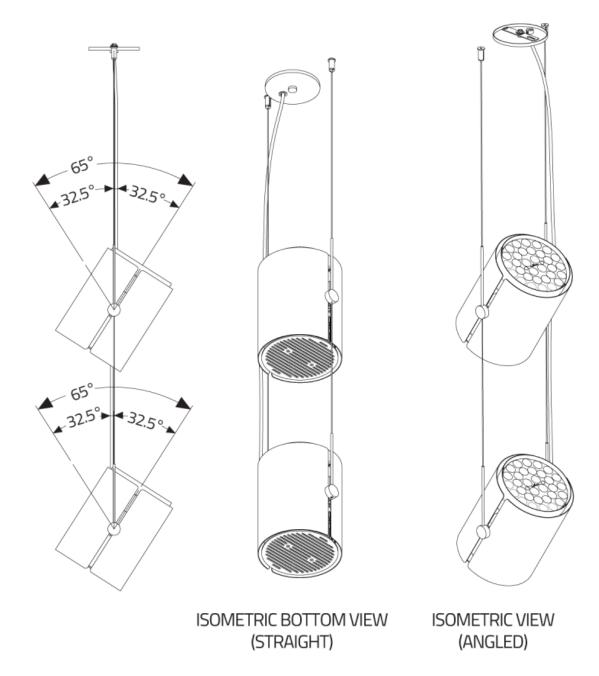
FIXTURE PROFILE



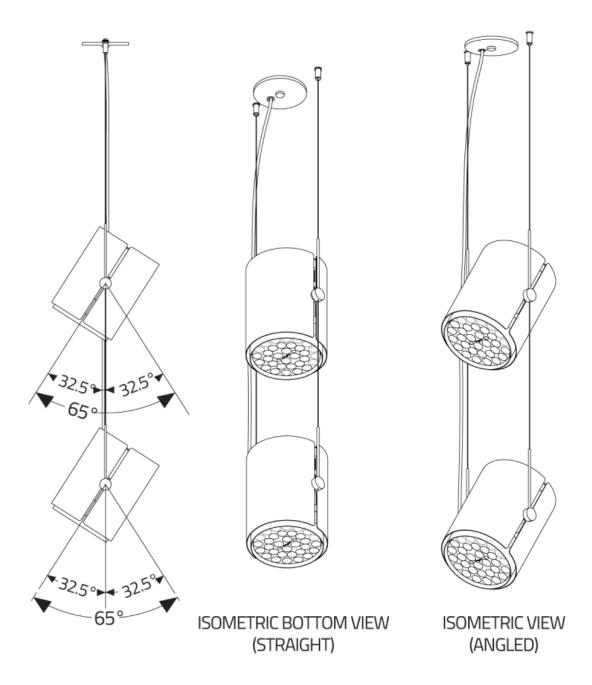
## DIRECT/INDIRECT



DOUBLE UP



DOUBLE DOWN



SEPARATE SWITCHING (CS1, CS2)

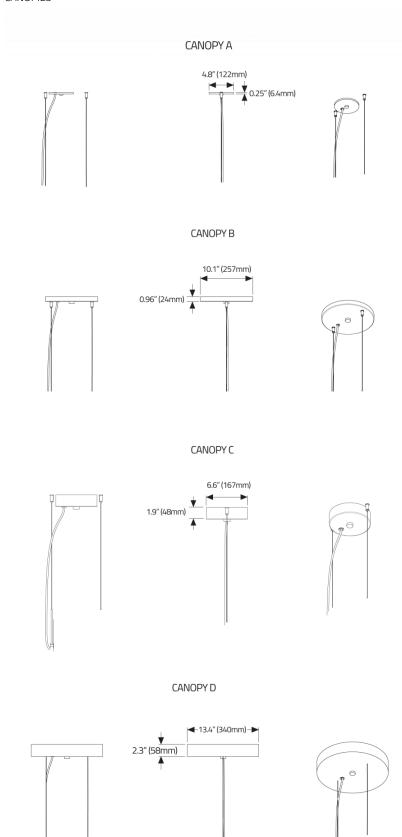


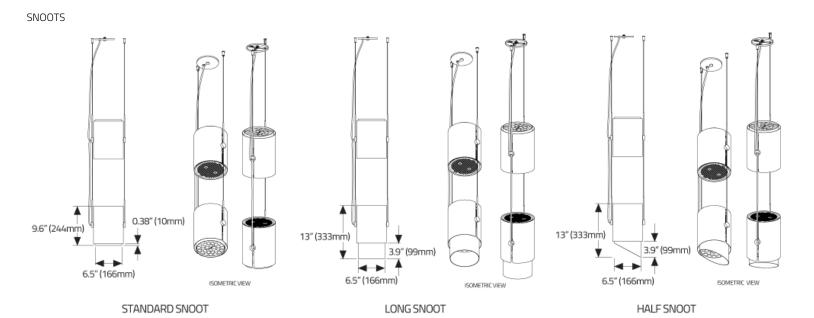
SINGLE SWITCHING



SEPARATE SWITCHING (Two power cables supplied

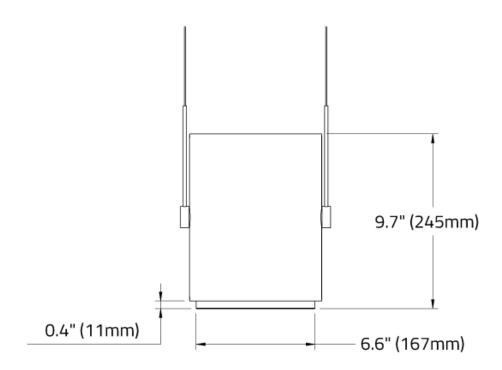
## CANOPIES

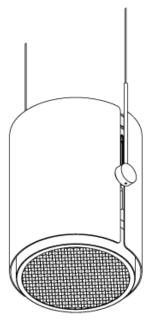


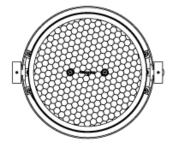


LOUVRE

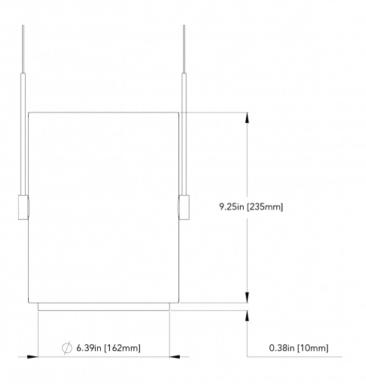
# **HEX CELL LOUVRE**

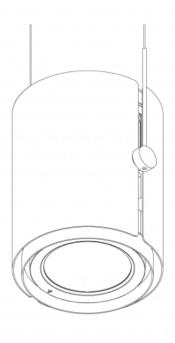






# Matrex RD PD - COB





Isometric View

