

# MATREX DUAL TWIST™ - SURFACE

Project Name:	Fixture Type:
Fixture Code:	Quantities:



MATREX DUAL TWIST™ - SURFACE



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**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.

## GENERAL SPECIFICATION

### Body and trim

Steel and aluminum.

### 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.

### Designed

US Pat. No. D917,765.

### 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.

### Sensors

Consult factory regarding sensor compatibility.

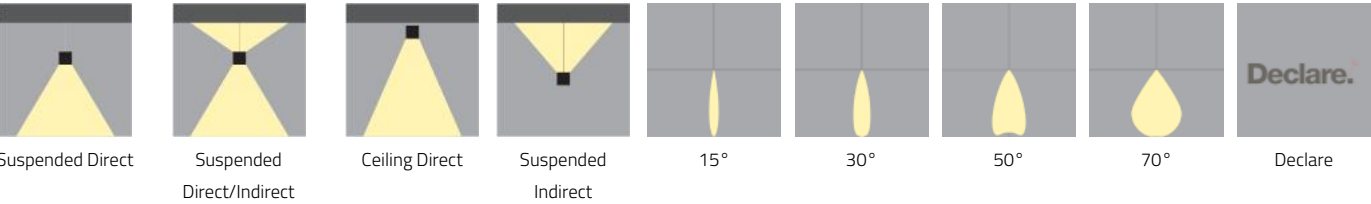
### Estimated L70 @25°C (77°F)

> 171,000 hrs.

### Designed by

Serge Cornelissen.

## OPTICS & FEATURES



# MATREX DUAL TWIST™ - SURFACE

## HOW TO ORDER

### A. LUMINAIRE

**MXDT1P01** Double Down, 18400 lms      **MXDT2P01** Direct/Indirect, 18400 lms

All data shown at max output and nominal values.  
For MXDT2P01 (Direct/Indirect) the upper module will be direct and lower module will be indirect.

### B. LUMENS (UPPER MODULE)

**LMA0230** 2300                      **LMA0460** 4600                      **LMA0690** 6900                      **LMA0920** 9200

For MXDT2P01 (Direct/Indirect) the upper module will be direct and lower module will be indirect.  
\* Max lumen values shown, refer to IES files for the different snoot and beam options.

### C. LUMENS (LOWER MODULE)

**LMB0230** 2300                      **LMB0460** 4600                      **LMB0690** 6900                      **LMB0920** 9200

For MXDT2P01 (Direct/Indirect) the upper module will be direct and lower module will be indirect.  
\* Max lumen values shown, refer to IES files for the different snoot and beam options.

### D. CRI

**CR80** CRI 80+                      **CR90** CRI 90+

### E. CCT

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

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

### F. BEAM ANGLE (UPPER MODULE)

**BA15** 15°                      **BA30** 30°                      **BA50** 50°                      **BA70** 70°  
**BA80** 50°x80° <sup>1</sup>

<sup>1</sup> Available with Double Down luminaire only.

### G. BEAM ANGLE (LOWER MODULE)

**BB15** 15°                      **BB30** 30°                      **BB50** 50°                      **BB70** 70°  
**BB80** 50°x80° <sup>1</sup>

### H. 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

### 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>1 2</sup>

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

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## J. FIXTURE FINISH

<b>FA01</b> White	<b>FA02</b> Black Metallic - Textured	<b>FA20</b> Silver Metallic - Textured	<b>FA25</b> Gold Metallic - Textured
<b>FA44</b> Midnight Blue Metallic - Textured	<b>FA46</b> Charcoal Metallic - Textured	<b>FA47</b> Bronze Metallic - Textured	<b>FA53</b> Red Metallic - Textured

## K. SNOOT (UPPER MODULE)

<b>NT1</b> Standard Snoot - Black <sup>1</sup>	<b>NT2</b> Standard Snoot - White <sup>1</sup>	<b>NT3</b> Long Snoot - Black <sup>1</sup>	<b>NT4</b> Long Snoot - White <sup>1</sup>
<b>NT7</b> Hex Louver - Black <sup>2</sup>	<b>NT8</b> Ladder Louver - Black <sup>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.

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

<sup>2</sup> Not available with Direct/Indirect (Indirect only), BA70 beam angle.

<sup>3</sup> Available with Double Down and Direct/Indirect (Direct only), BA80 beam angle and 2300 lumens only.

## L. SNOOT (LOWER MODULE)

<b>NU1</b> Standard Snoot - Black <sup>1</sup>	<b>NU2</b> Standard Snoot - White <sup>1</sup>	<b>NU3</b> Long Snoot - Black <sup>1</sup>	<b>NU4</b> Long Snoot - White <sup>1</sup>
<b>NU7</b> Hex Louver - Black <sup>2</sup>	<b>NU8</b> Ladder Louver - Black <sup>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.

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

<sup>2</sup> Not available with Direct/Indirect (Indirect only), BA70 beam angle.

<sup>3</sup> Available with Double Down and Direct/Indirect (Direct only), BA80 beam angle and 2300 lumens only.

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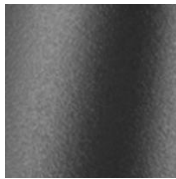
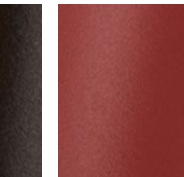
## TECHNICAL DATA

### LUMINAIRE

All data shown at max output and nominal values.  
For MXDT2P01 (Direct/Indirect) the upper module will be direct and lower module will be indirect.

Code	MXDT1P01	MXDT2P01
Light Direction	Double Down	Direct/Indirect
Max Wattage	164	164
Max Delivered lms	18400	18400
Max LPW	130	130

## FINISH - FIXTURE

							
White	Black Metallic - Textured	Silver Metallic - Textured	Gold Metallic - Textured	Midnight Blue Metallic - Textured	Charcoal Metallic - Textured	Bronze Metallic - Textured	Red Metallic - Textured

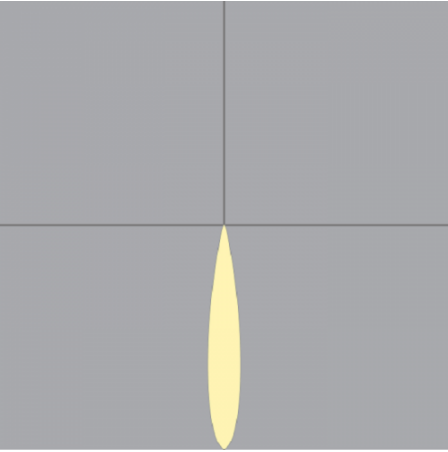
## APPROVALS



# MATREX DUAL TWIST™ - SURFACE

## PERFORMANCE DATA

### DIRECT, 15° BEAM ANGLE

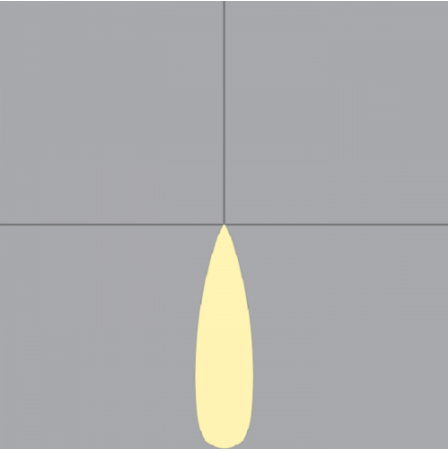


WATTS
32
72
114
164

LUMENS
4600
9000
13600
18000

LPW
138
127
118
110

### DIRECT, 30° BEAM ANGLE

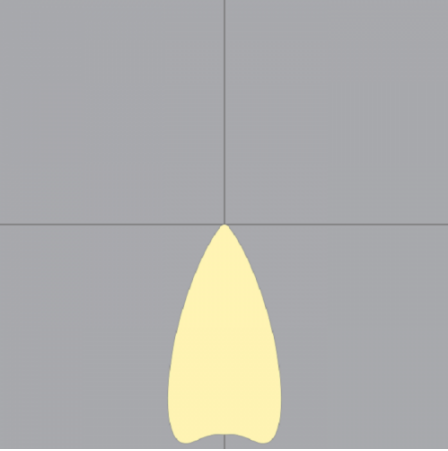


WATTS
32
72
114
164

LUMENS
4600
8800
13000
17400

LPW
140
130
120
112

### DIRECT, 50° BEAM ANGLE



WATTS
32
72
114
164

LUMENS
4400
8800
13000
17400

LPW
133
123
114
107

# MATREX DUAL TWIST™ - SURFACE

DIRECT, 70° BEAM ANGLE

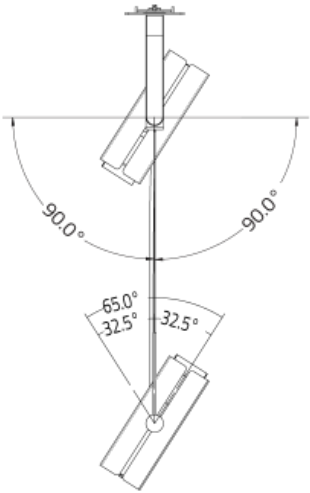
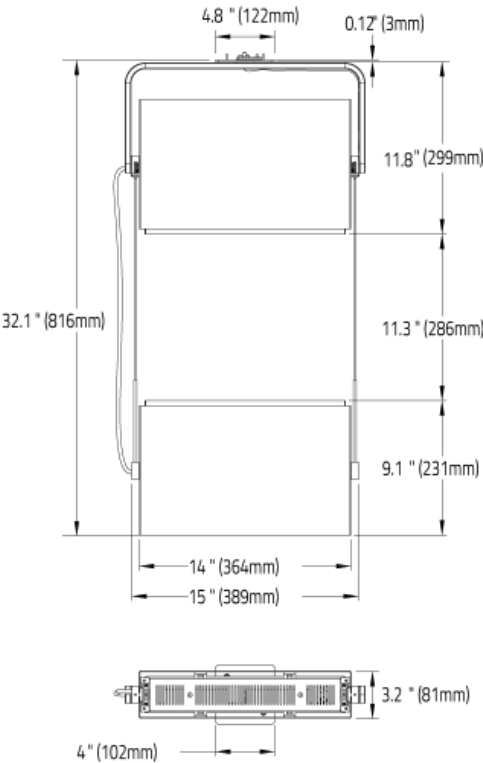
	WATTS	LUMENS	LPW
	32	4400	134
	72	8800	123
	114	13200	115
	164	17600	107



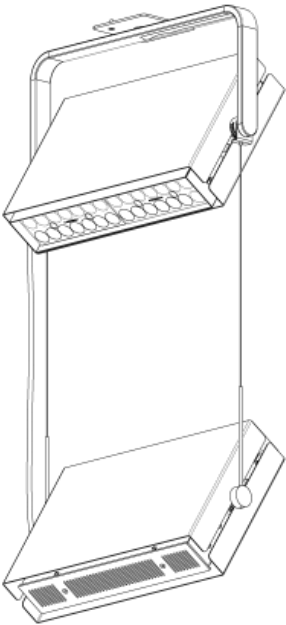
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## DIMENSIONAL DIAGRAMS

Direct Indirect



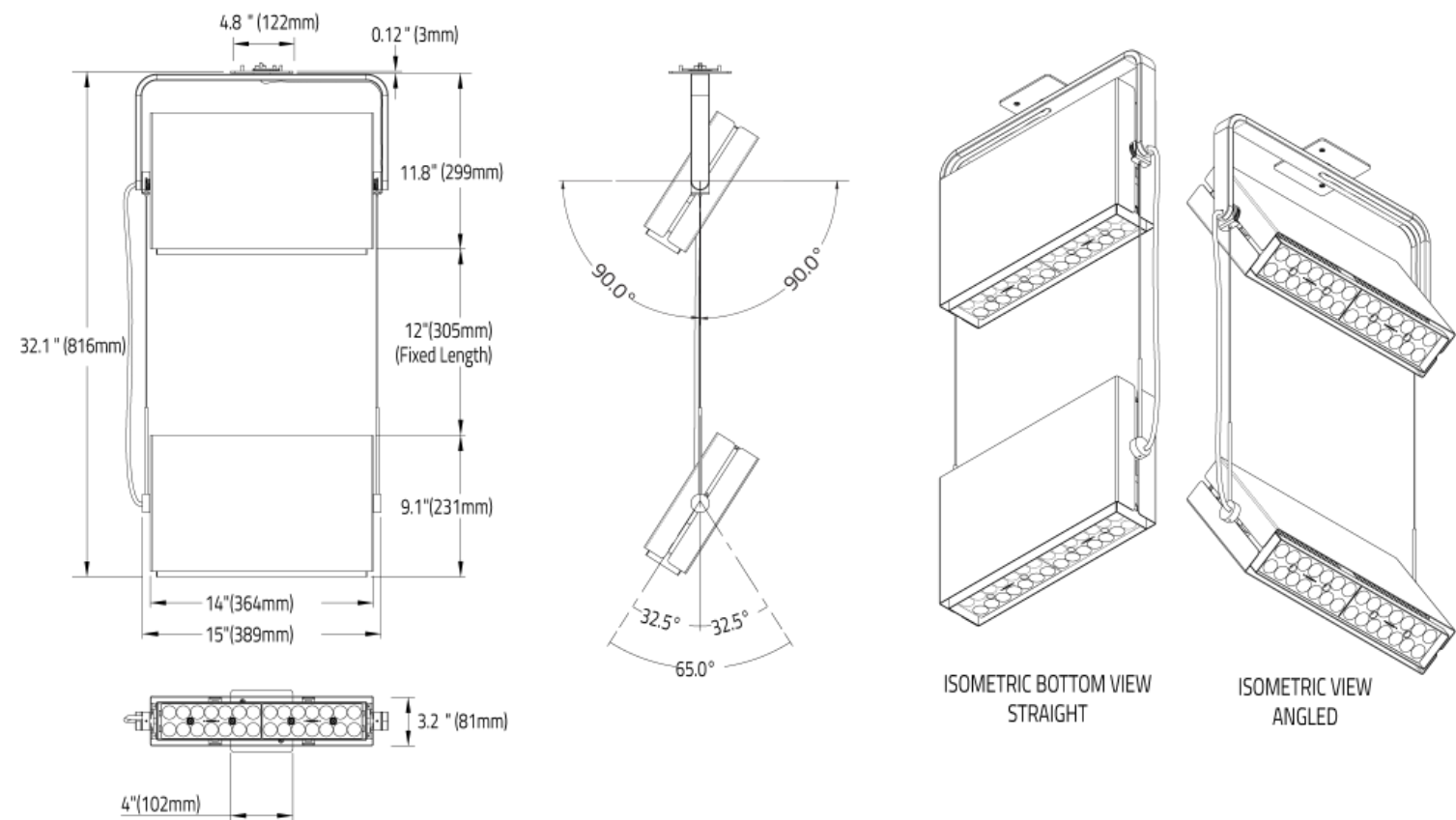
ISOMETRIC BOTTOM VIEW  
STRAIGHT



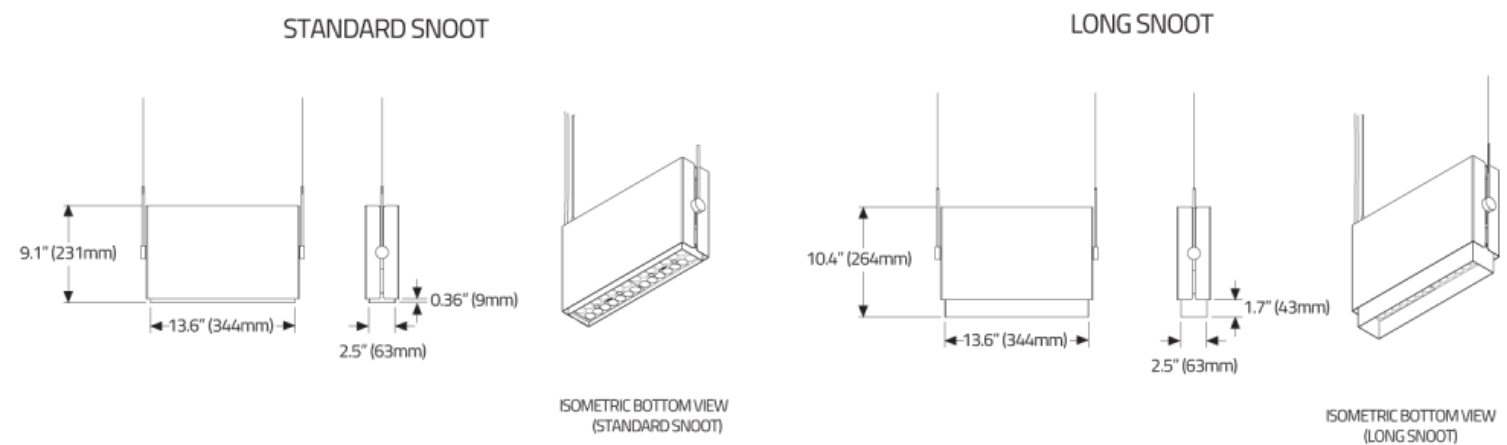
ISOMETRIC VIEW  
ANGLED

# MATREX DUAL TWIST™ - SURFACE

Double Down



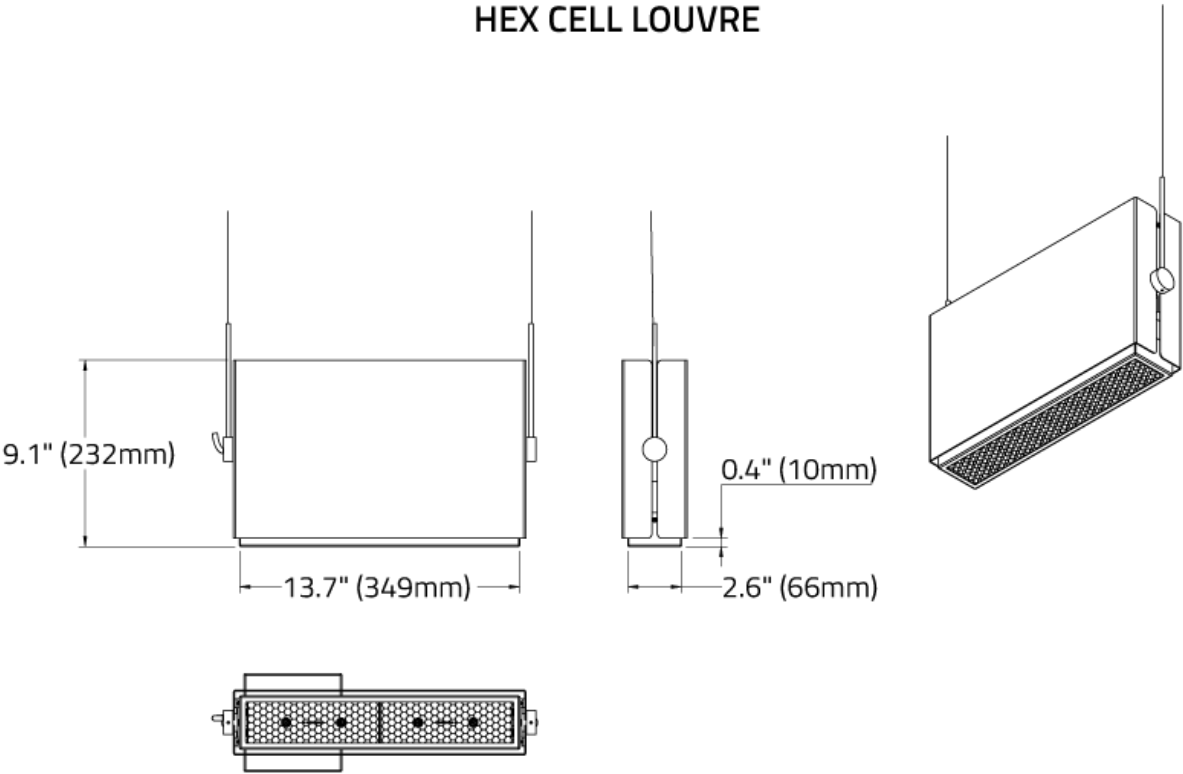
Snoots



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LOUVRES

HEX CELL LOUVRE



LADDER LOUVRE

