

# MATREX CLUSTER™ - SUSPENDED

Project Name:

Fixture Type:

Fixture Code:

Quantities:



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**MATREX** Cluster stacks 2, 3, or 4 MATREX spot lights into one downlight pendant delivering up to 36,800 lumens. 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.

### Drivers

HPF, electronic, 120-277V, 347V (EU-240V). The drivers are integral to fixture except when using the DMX option.

### Reported L70 @25°C (77°F)

> 60,000 hrs.

### Remote Emergency

Emergency option provides a 1.5 hour (3 hours for EU) emergency lighting facility. The remote system includes the inverter module, NiCad batteries and a remote wall/ceiling LED charge indicator and test switch (NA only) Maximum distance between wall/ceiling plate and luminaire is 15' (4.5m). Test switch fits a single gang box (not supplied).

### Sensors

Consult factory regarding sensor compatibility.

### Designed by

Serge Cornelissen.

### Finish

Powder coated as specified.

### Power cable

Silver braided.

### Delivered lumens

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

### Estimated L70 @25°C (77°F)

> 145,000 hrs.

### Mechanical

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

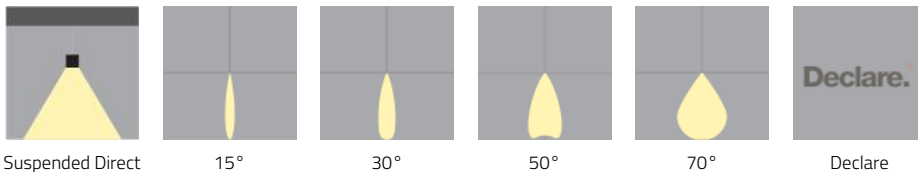
### Approvals

Damp Rated.

### Design

US Pat. No. D917,765.

## MOUNTING & OPTICS



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## HOW TO ORDER

### A. LUMINAIRE

**MACP2P01** 2 heads, 18400 lms

**MACP3P01** 3 heads, 27600 lms

**MACP4P01** 4 heads, 36800 lms

All data shown at max output and nominal values.

### B. LUMENS

**LMA1380** 13800

**LMA1840** 18400

**LMA2070** 20700

**LMA2760** 27600

**LMA3680** 36800

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

### C. CRI

**CR80** CRI 80+

**CR90** CRI 90+

### D. CCT

**CTA27** 2700K<sup>1</sup>

**CTA30** 3000K

**CTA35** 3500K

**CTA40** 4000K

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

### E. BEAM ANGLE

**BA15** 15°

**BA30** 30°

**BA50** 50°

**BA70** 70°

### F. 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.

### G. 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>

**DA40** DMX Dimming<sup>1 3</sup>

<sup>1</sup> Not available with V3.

<sup>2</sup> Not available in North America.

<sup>3</sup> Only available with MACP2P01 and CN5 canopy. Two power cables required. Not available with V3.

### H. FIXTURE FINISH

**FA01** White

**FA02** Black Metallic - Textured

**FA20** Silver Metallic - Textured

**FA25** Gold Metallic - Textured

**FA44** Midnight Blue Metallic - Textured

**FA46** Charcoal Metallic - Textured

**FA47** Bronze Metallic - Textured

**FA53** Red Metallic - Textured

### I. CANOPY

**CN1** Canopy A<sup>1</sup>

**CN3** Canopy C<sup>1 3</sup>

**CN5** Canopy DMX<sup>3</sup>

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

<sup>2</sup> For use with V2 only.

<sup>3</sup> Only available with MACP2P01. Not available with V3. To be used with DA40 (DMX Dimming).



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## J. 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

## K. SNOOT

**NT1** Standard Snoot - Black <sup>1</sup>

**NT2** Standard Snoot - White <sup>1</sup>

**NT3** Long Snoot - Black <sup>1</sup>

**NT4** Long Snoot - White <sup>1</sup>

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For precise beam angle and lumen output, please refer to the IES files. Note that using snoots and louvers may decrease overall efficacy.

## L. EMERGENCY

**E0** Emergency system not required

**E2** Emergency system - Remote



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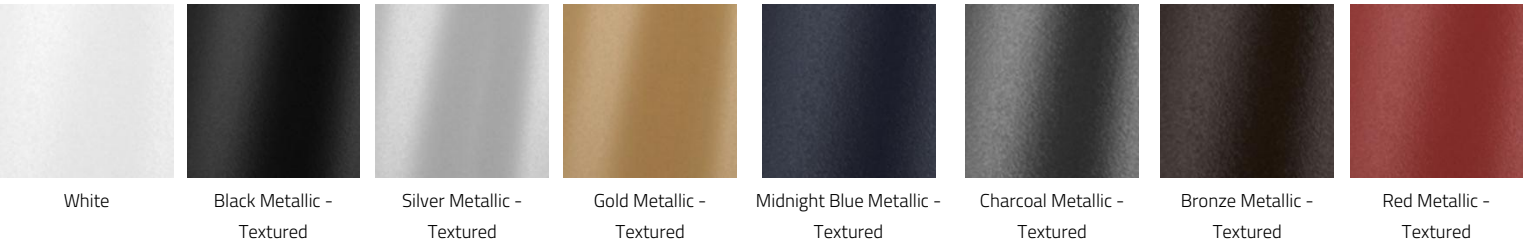
## TECHNICAL DATA

### LUMINAIRE

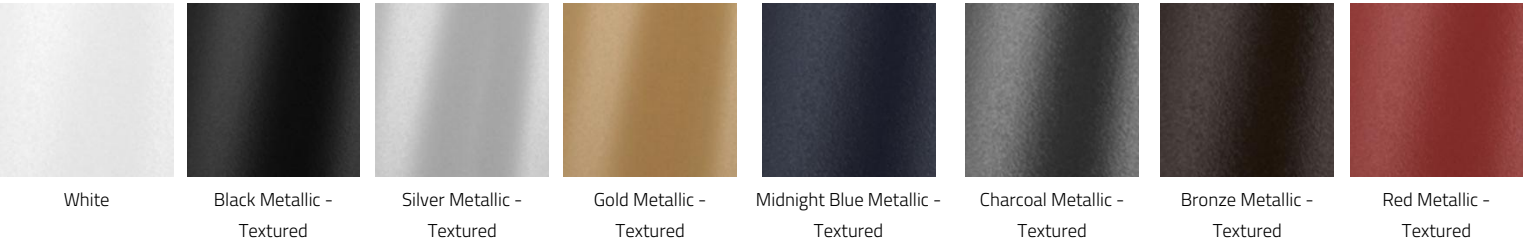
All data shown at max output and nominal values.

Code	MACP2P01	MACP3P01	MACP4P01
# of Heads	2	3	4
Wattage	164	246	328
Delivered lms	18400	27600	36800
LPW	130	130	130

## FINISH - FIXTURE



## FINISH - CANOPY



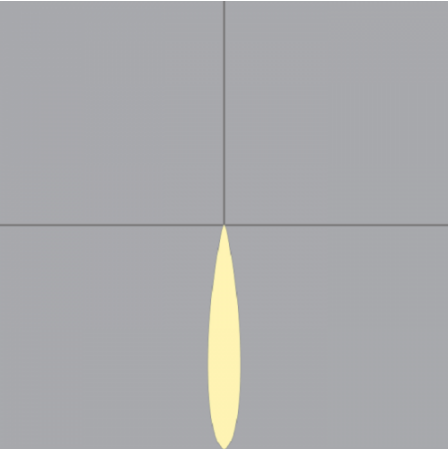
## APPROVALS



# MATREX CLUSTER™ - SUSPENDED

## PERFORMANCE DATA

DIRECT, 2 HEADS, 15° BEAM ANGLE

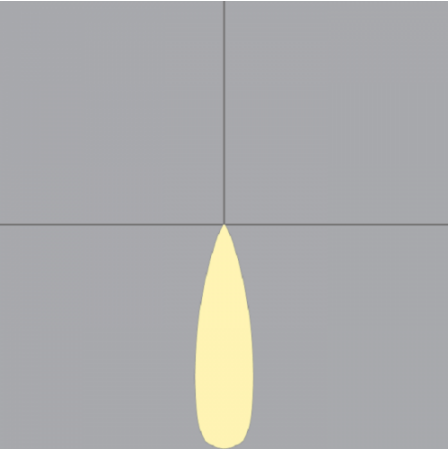


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

DIRECT, 2 HEADS, 30° BEAM ANGLE

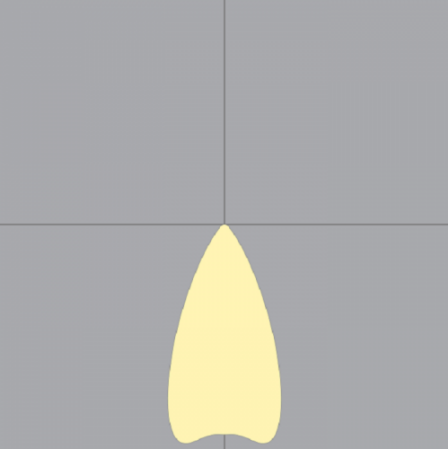


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

DIRECT, 2 HEADS, 50° BEAM ANGLE



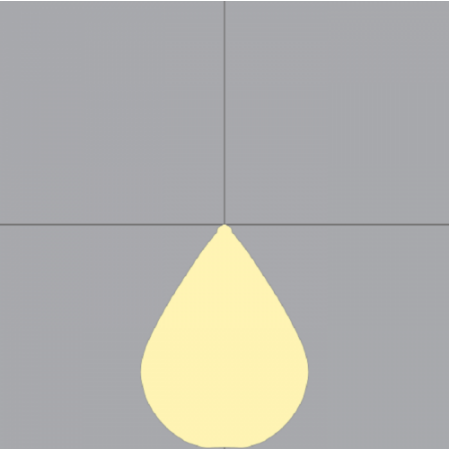
WATTS
114
164

LUMENS
13600
18000

LPW
118
110

# MATREX CLUSTER™ - SUSPENDED

**DIRECT, 2 HEADS, 70° BEAM ANGLE**

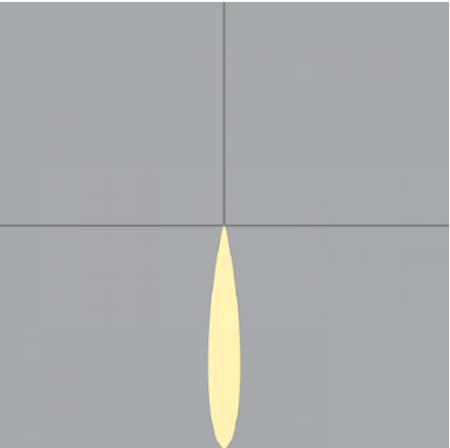


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

**DIRECT, 3 HEADS, 15° BEAM ANGLE**

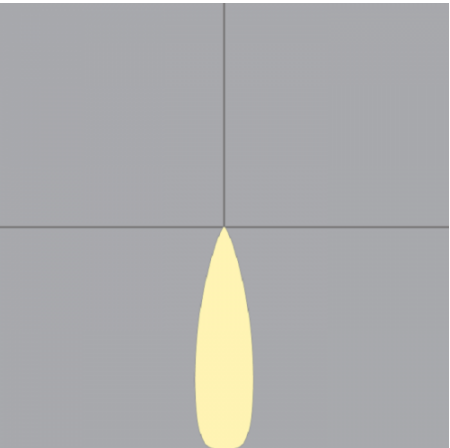


WATTS
171
246

LUMENS
20400
27000

LPW
118
110

**DIRECT, 3 HEADS, 30° BEAM ANGLE**



WATTS
171
246

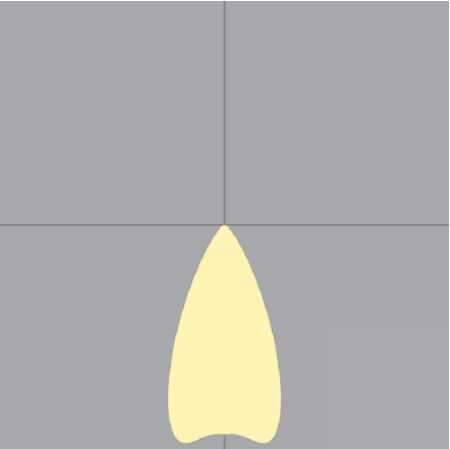
LUMENS
20700
27600

LPW
120
112



# MATREX CLUSTER™ - SUSPENDED

**DIRECT, 3 HEADS, 50° BEAM ANGLE**

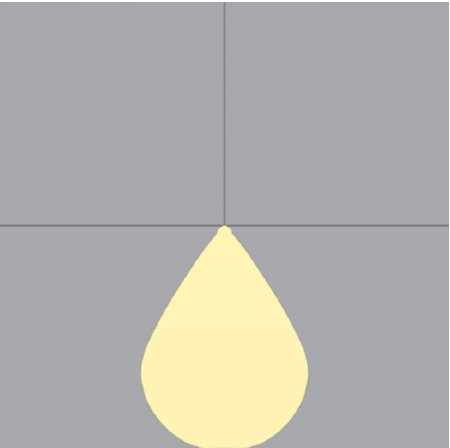


WATTS
171
246

LUMENS
19500
26100

LPW
114
107

**DIRECT, 3 HEADS, 70° BEAM ANGLE**

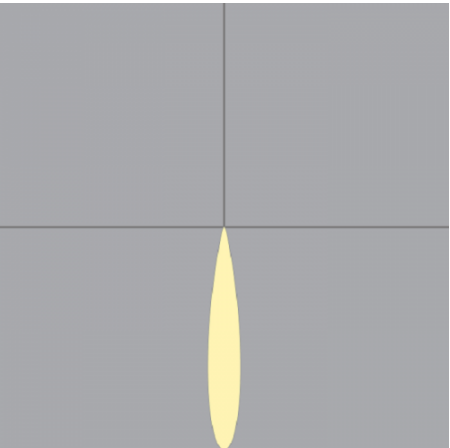


WATTS
171
246

LUMENS
19800
26400

LPW
115
107

**DIRECT, 4 HEADS, 15° BEAM ANGLE**



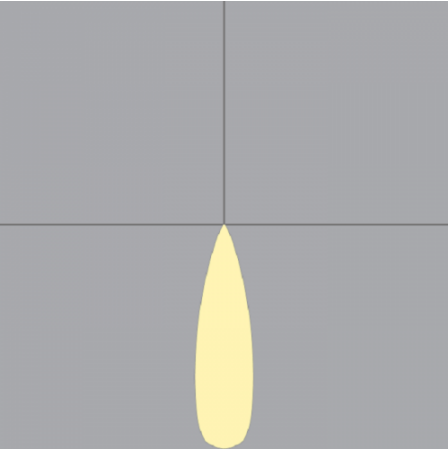
WATTS
328

LUMENS
36000

LPW
110

# MATREX CLUSTER™ - SUSPENDED

**DIRECT, 4 HEADS, 30° BEAM ANGLE**

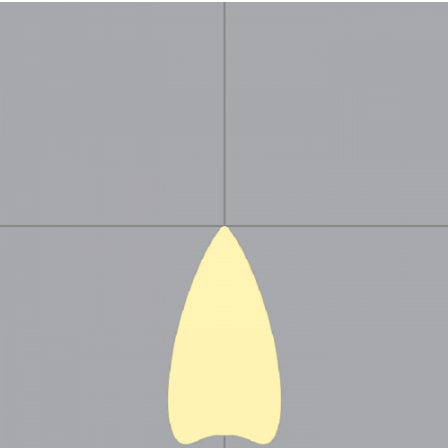


WATTS
328

LUMENS
36800

LPW
112

**DIRECT, 4 HEADS, 50° BEAM ANGLE**

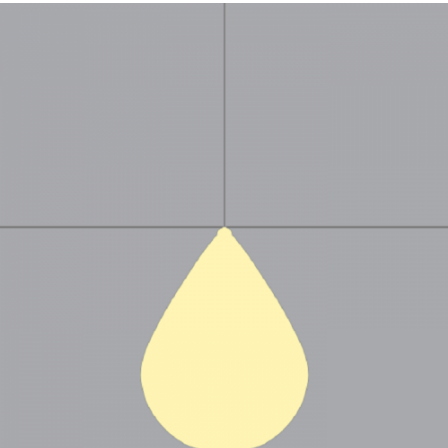


WATTS
328

LUMENS
34800

LPW
107

**DIRECT, 4 HEADS, 70° BEAM ANGLE**



WATTS
328

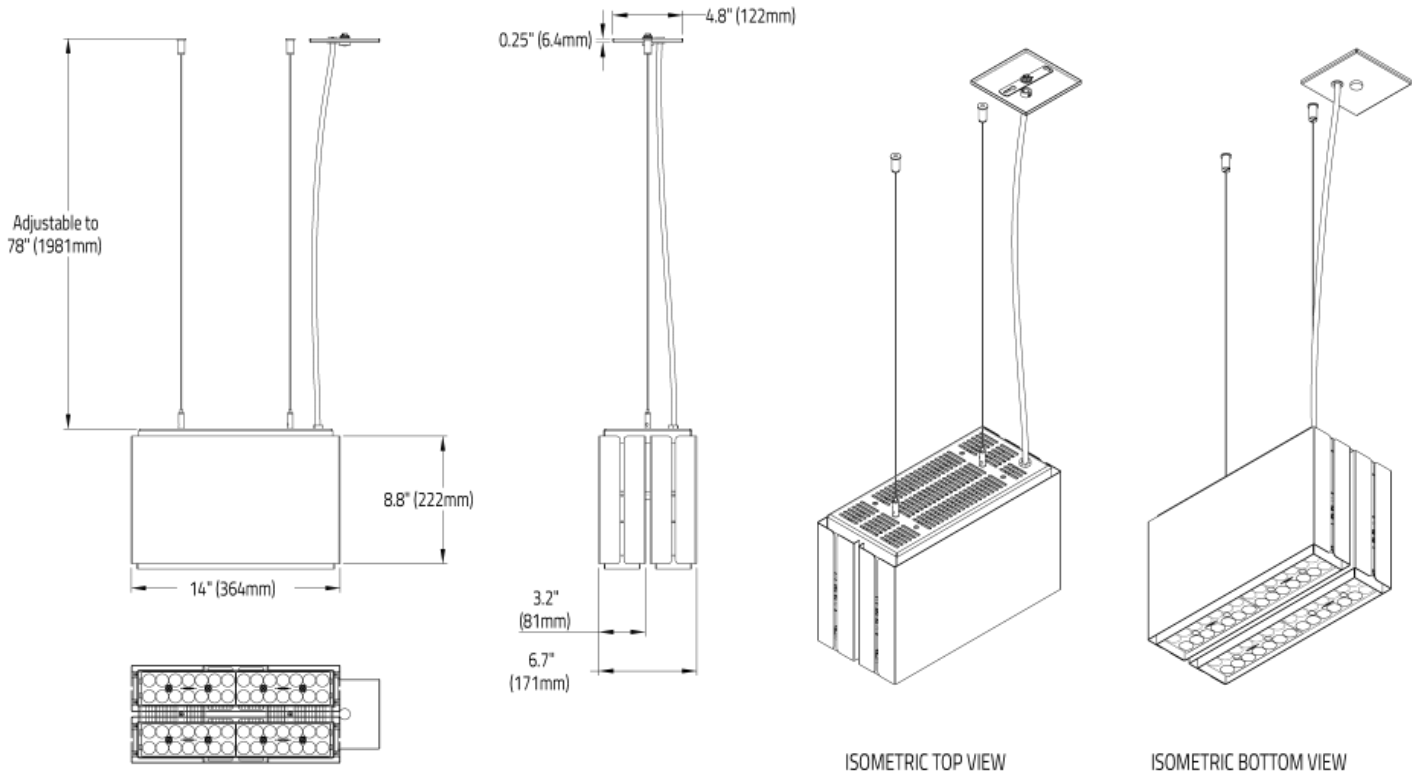
LUMENS
35200

LPW
107

# MATREX CLUSTER™ - SUSPENDED

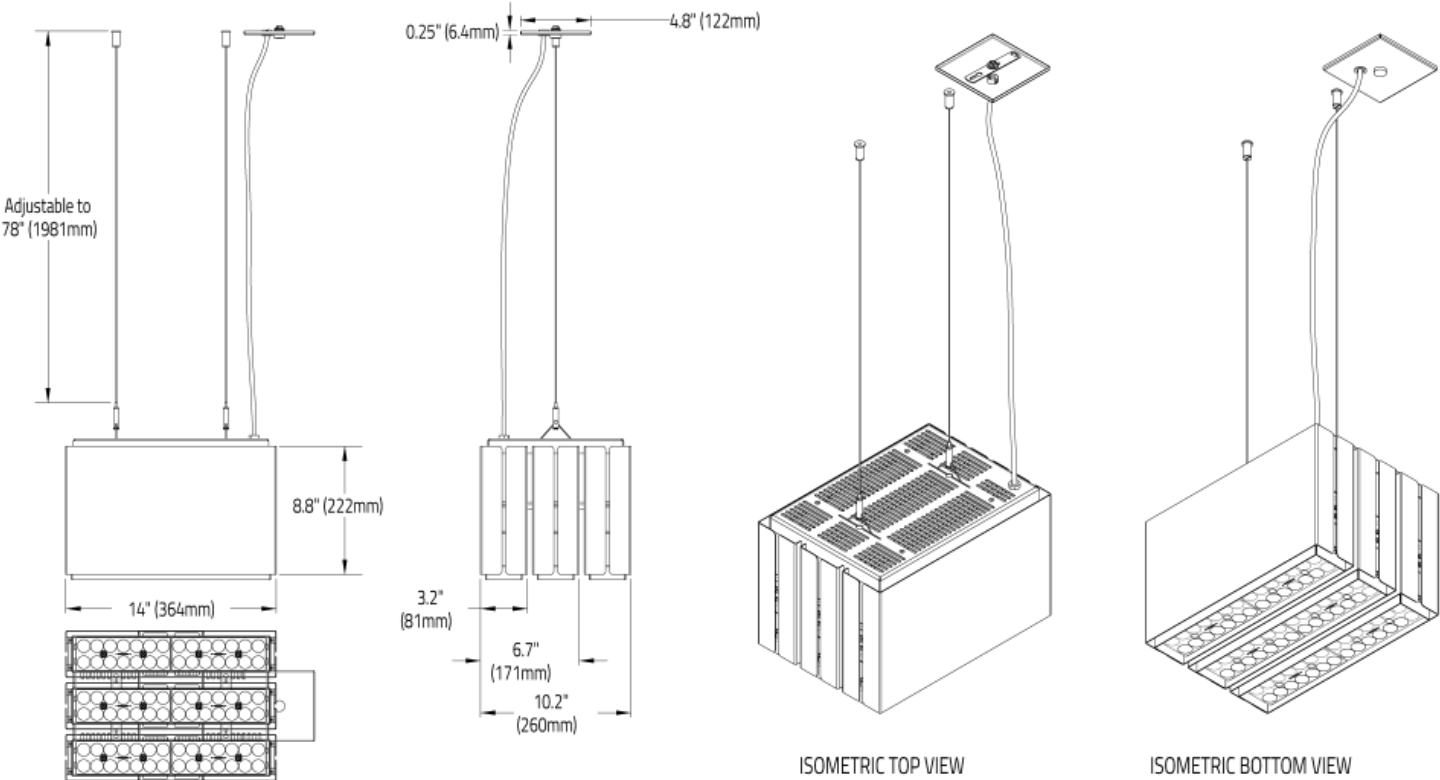
## DIMENSIONAL DIAGRAMS

2 HEADS



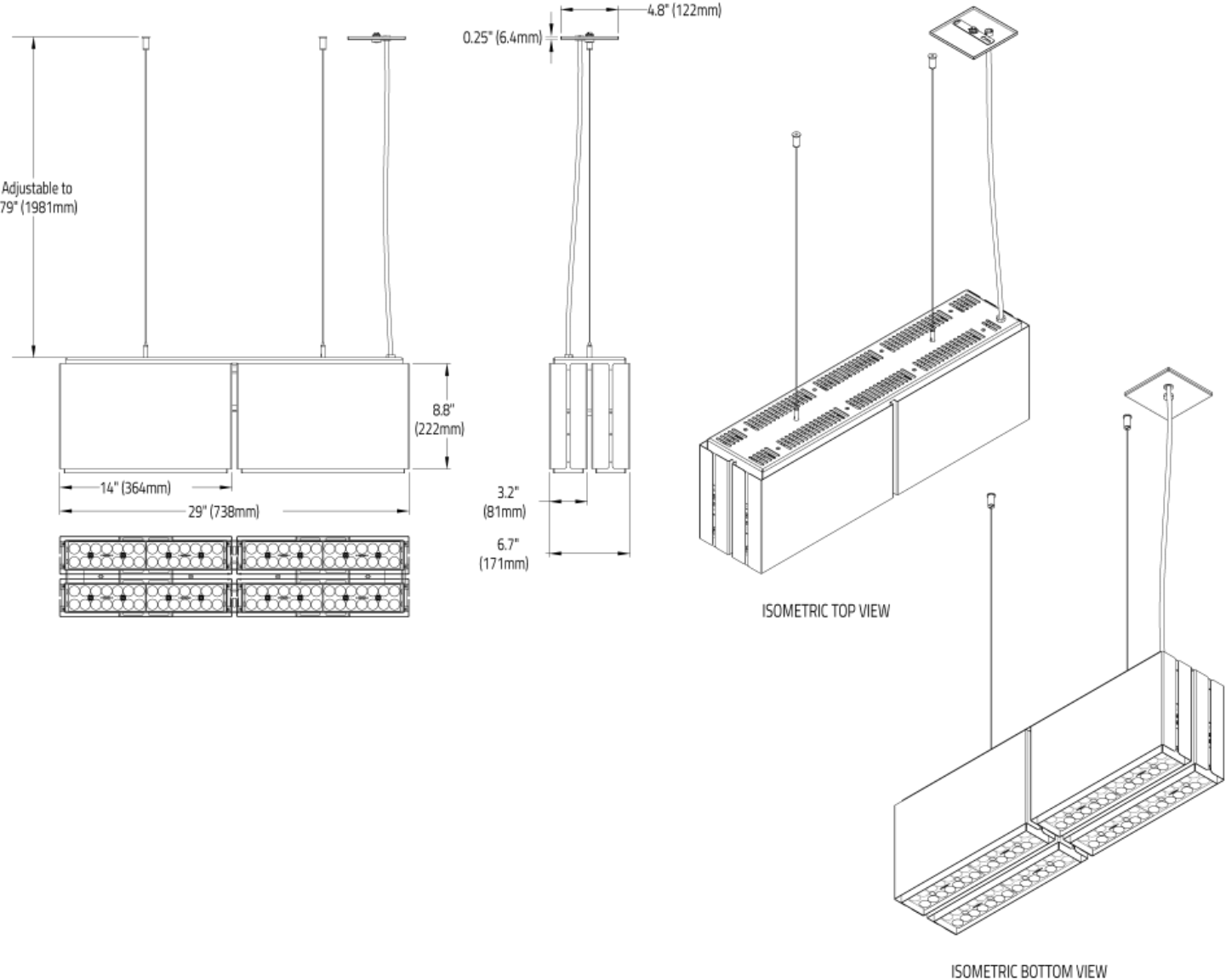
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3 HEADS



# MATREX CLUSTER™ - SUSPENDED

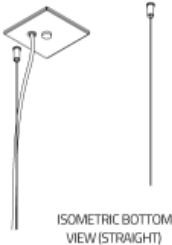
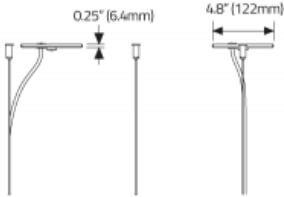
4 HEADS



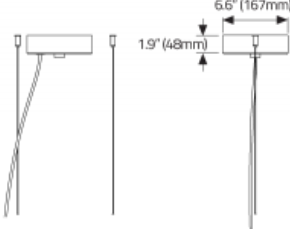
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## Canopy

CANOPY A



CANOPY C



CANOPY DMX

