

# 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.

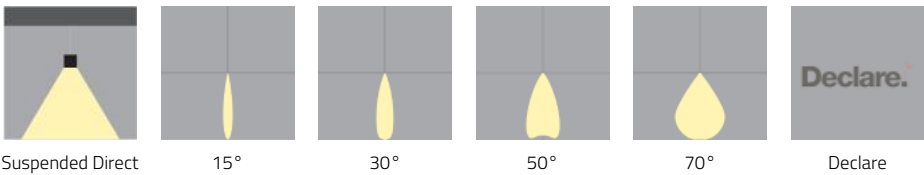
### Approvals

Damp Rated.

### Design

US Pat. No. D917,765.

## OPTICS & FEATURES



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## HOW TO ORDER

### A. LUMINAIRE

<b>MACP2P01</b> 2 heads, 18400 lms	<b>MACP3P01</b> 3 heads, 27600 lms	<b>MACP4P01</b> 4 heads, 36800 lms
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All data shown at max output and nominal values.

### B. LUMENS

<b>LMA1380</b> 13800	<b>LMA1840</b> 18400	<b>LMA2070</b> 20700	<b>LMA2760</b> 27600
<b>LMA3680</b> 36800			

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

### C. CRI

<b>CR80</b> CRI 80+	<b>CR90</b> CRI 90+
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### D. CCT

<b>CTA27</b> 2700K <sup>1</sup>	<b>CTA30</b> 3000K	<b>CTA35</b> 3500K	<b>CTA40</b> 4000K
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<sup>1</sup> 2700K is only available with CRI 80+

### E. BEAM ANGLE

<b>BA15</b> 15°	<b>BA30</b> 30°	<b>BA50</b> 50°	<b>BA70</b> 70°
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### F. VOLTAGE

<b>V1</b> 120/277V	<b>V2</b> 240V <sup>1</sup>	<b>V3</b> 347V <sup>2</sup>
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<sup>1</sup> Not available in North America.

<sup>2</sup> Only available with DA01 dimming.

### G. DIMMING

<b>DA01</b> 0-10V Dimming 1.0%	<b>DA02</b> 0-10V Dimming 0.1% <sup>1</sup>	<b>DA20</b> DALI Dimming 0.1% <sup>1</sup>	<b>DA21</b> DALI Dimming 1.0% <sup>1</sup>
<b>DA30</b> DSI/switchDim <sup>1 2</sup>	<b>DA40</b> 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

<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

### I. CANOPY

<b>CN1</b> Canopy A <sup>1</sup>	<b>CN3</b> Canopy C <sup>1 3</sup>	<b>CN5</b> Canopy DMX <sup>3</sup>
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<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

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

## K. SNOOT

<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>
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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

<b>E0</b> Emergency system not required	<b>E2</b> Emergency system - Remote
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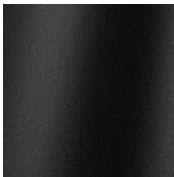

## TECHNICAL DATA

### LUMINAIRE

All data shown at max output and nominal values.

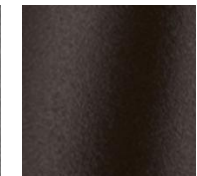
Code	MACP2P01	MACP3P01	MACP4P01
# of Heads	2	3	4
Wattage	164	246	328
Delivered lms	18400	27600	36800
LPW	130	130	130

### FINISH - FIXTURE



WhiteBlack Metallic - TexturedSilver Metallic - TexturedGold Metallic - TexturedMidnight Blue Metallic - TexturedCharcoal Metallic - TexturedBronze Metallic - TexturedRed Metallic - Textured

### FINISH - CANOPY



WhiteBlack Metallic - TexturedSilver Metallic - TexturedGold Metallic - TexturedMidnight Blue Metallic - TexturedCharcoal Metallic - TexturedBronze Metallic - TexturedRed Metallic - Textured

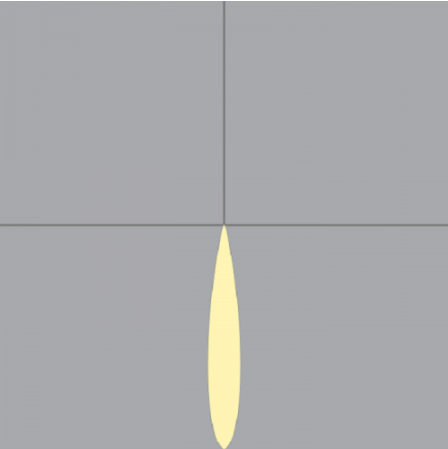
### APPROVALS



# MATREX CLUSTER™ - SUSPENDED

## PERFORMANCE DATA

DIRECT, 2 HEADS, 15° BEAM ANGLE

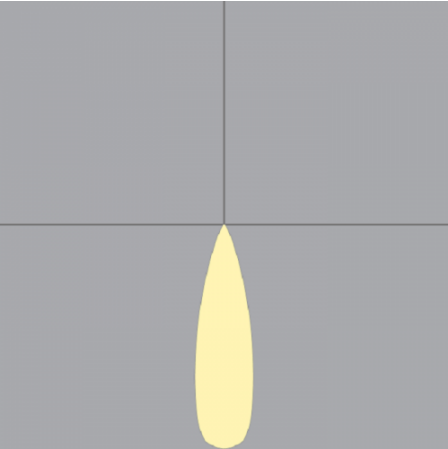


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

DIRECT, 2 HEADS, 30° BEAM ANGLE

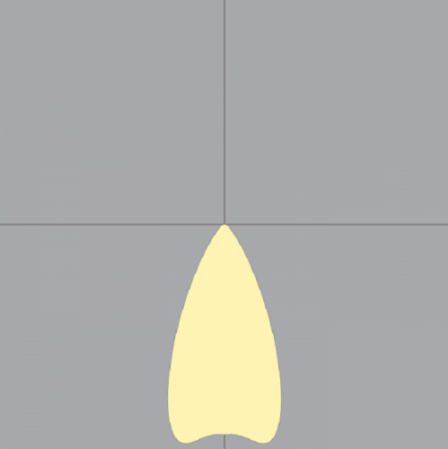


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

DIRECT, 2 HEADS, 50° BEAM ANGLE



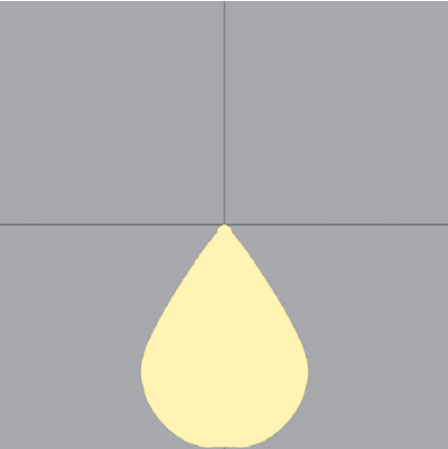
WATTS
114
164

LUMENS
13600
18000

LPW
118
110

# MATREX CLUSTER™ - SUSPENDED

DIRECT, 2 HEADS, 70° BEAM ANGLE

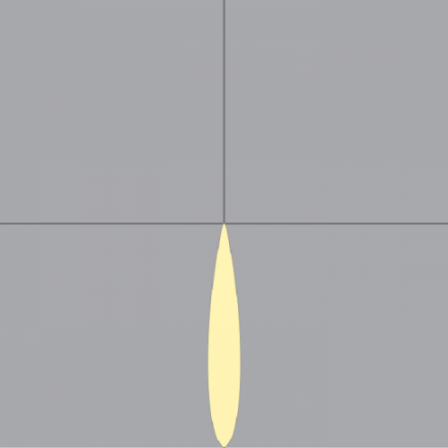


WATTS
114
164

LUMENS
13600
18000

LPW
118
110

DIRECT, 3 HEADS, 15° BEAM ANGLE

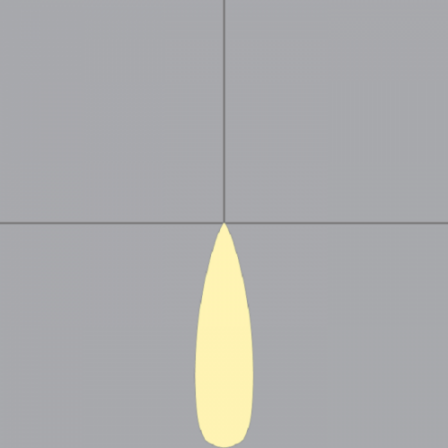


WATTS
171
246

LUMENS
20400
27000

LPW
118
110

DIRECT, 3 HEADS, 30° BEAM ANGLE



WATTS
171
246

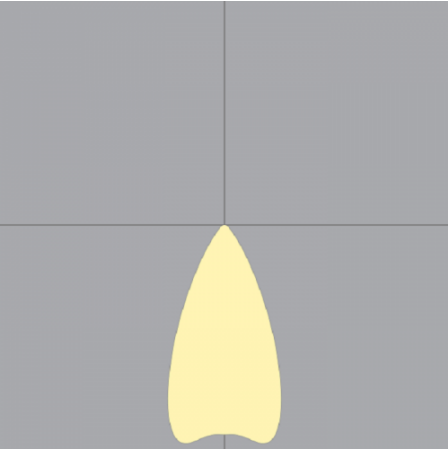
LUMENS
20700
27600

LPW
120
112



# MATREX CLUSTER™ - SUSPENDED

DIRECT, 3 HEADS, 50° BEAM ANGLE

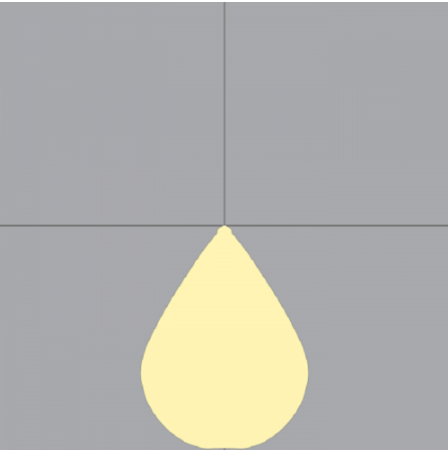


WATTS
171
246

LUMENS
19500
26100

LPW
114
107

DIRECT, 3 HEADS, 70° BEAM ANGLE

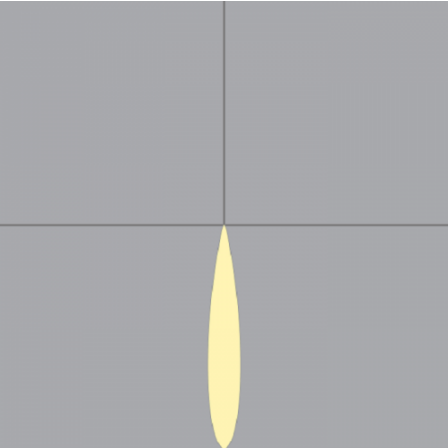


WATTS
171
246

LUMENS
19800
26400

LPW
115
107

DIRECT, 4 HEADS, 15° BEAM ANGLE



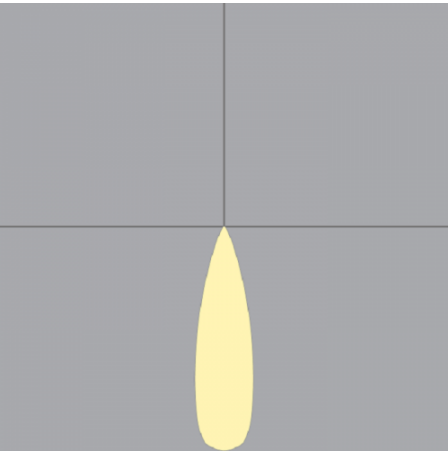
WATTS
328

LUMENS
36000

LPW
110

# MATREX CLUSTER™ - SUSPENDED

DIRECT, 4 HEADS, 30° BEAM ANGLE

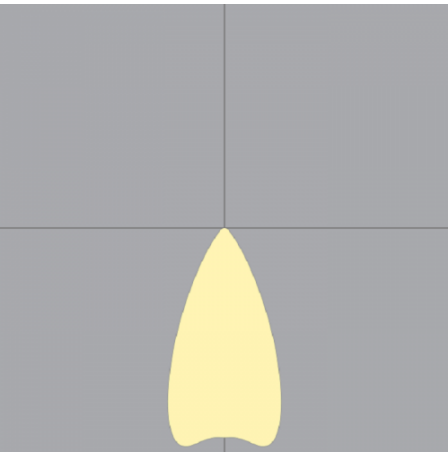


WATTS
328

LUMENS
36800

LPW
112

DIRECT, 4 HEADS, 50° BEAM ANGLE

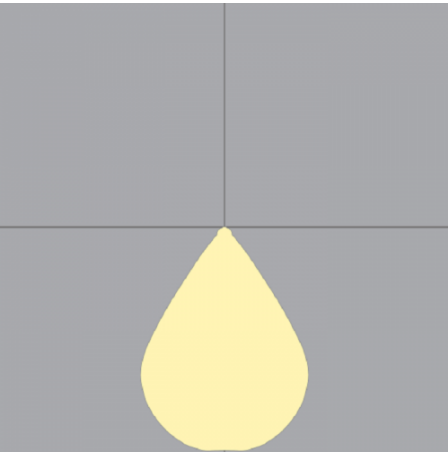


WATTS
328

LUMENS
34800

LPW
107

DIRECT, 4 HEADS, 70° BEAM ANGLE



WATTS
328

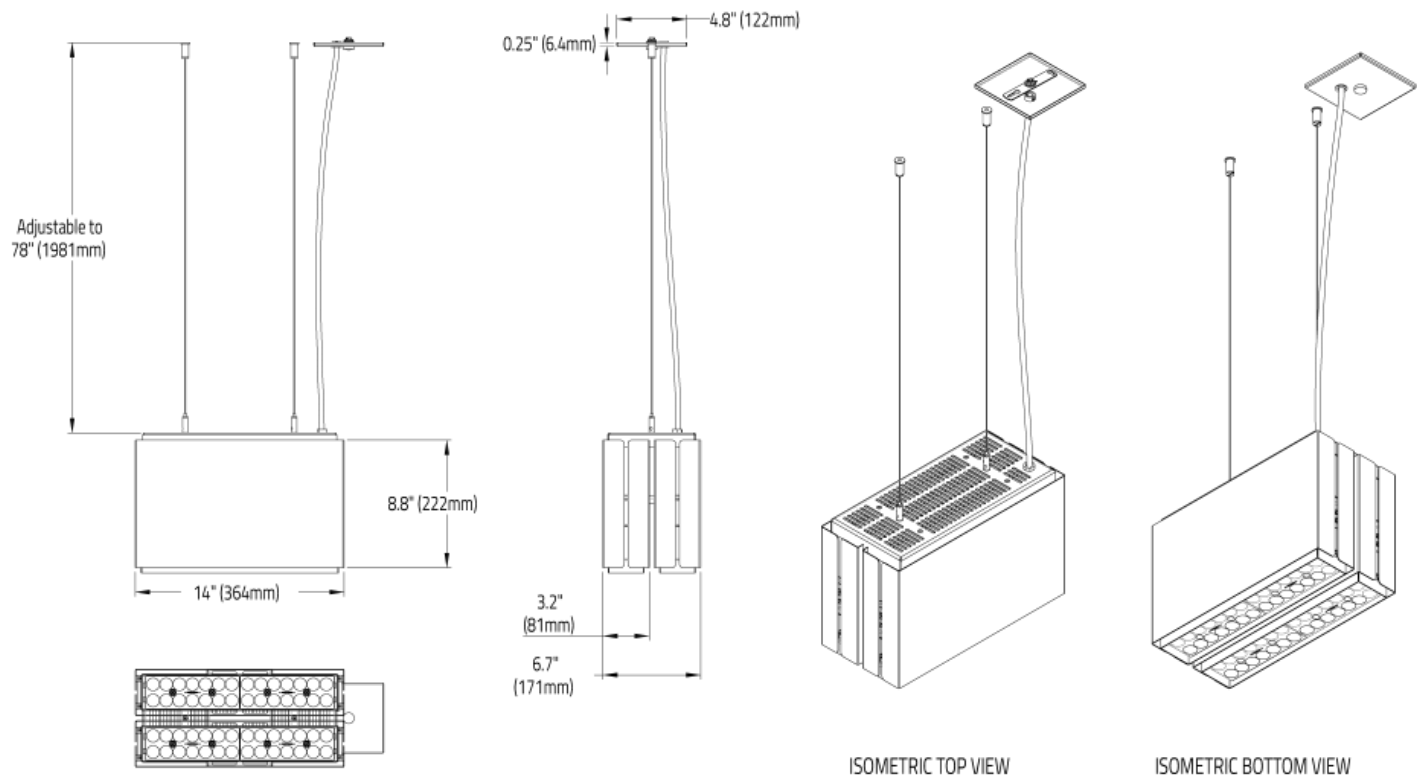
LUMENS
35200

LPW
107

# MATREX CLUSTER™ - SUSPENDED

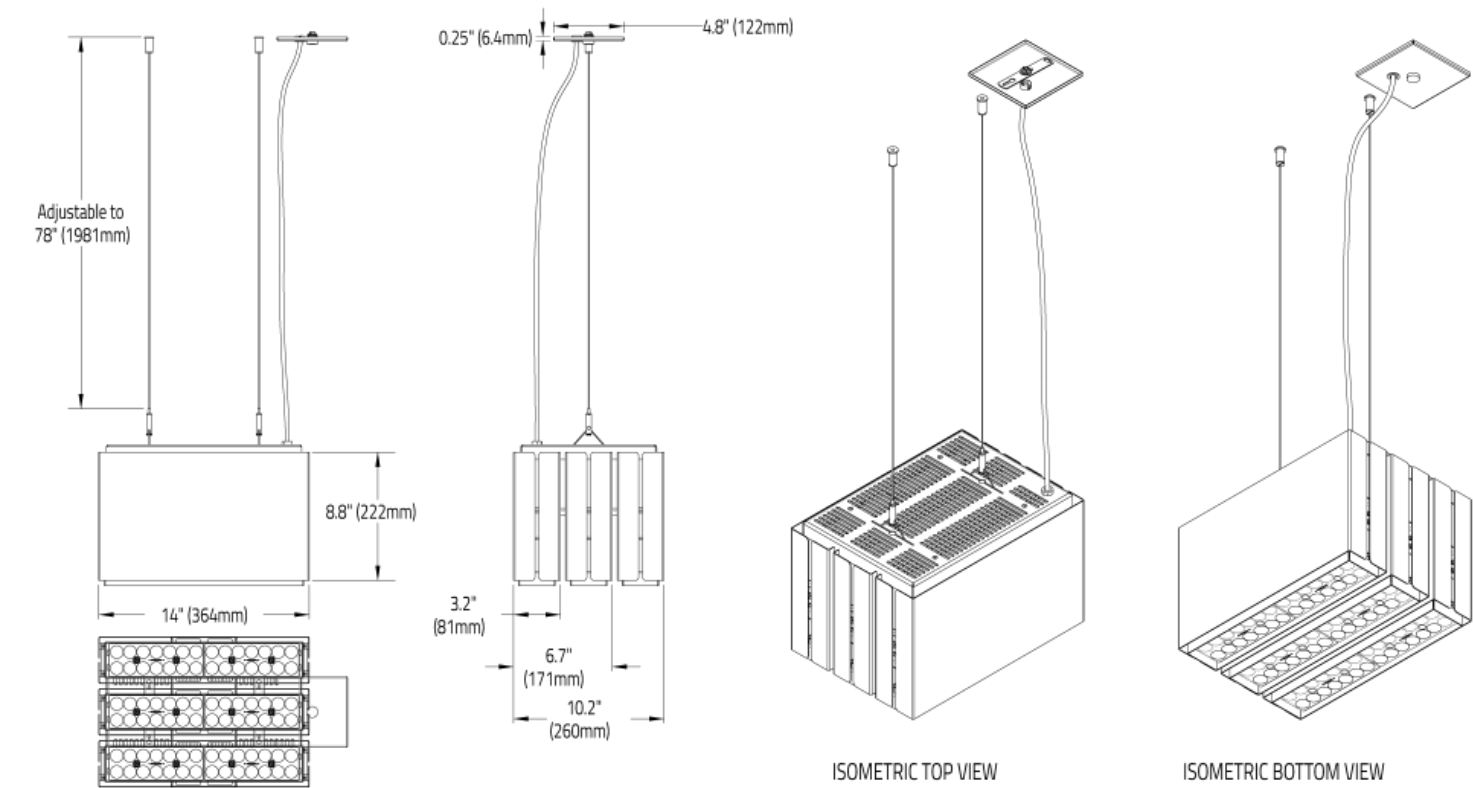
## DIMENSIONAL DIAGRAMS

2 HEADS



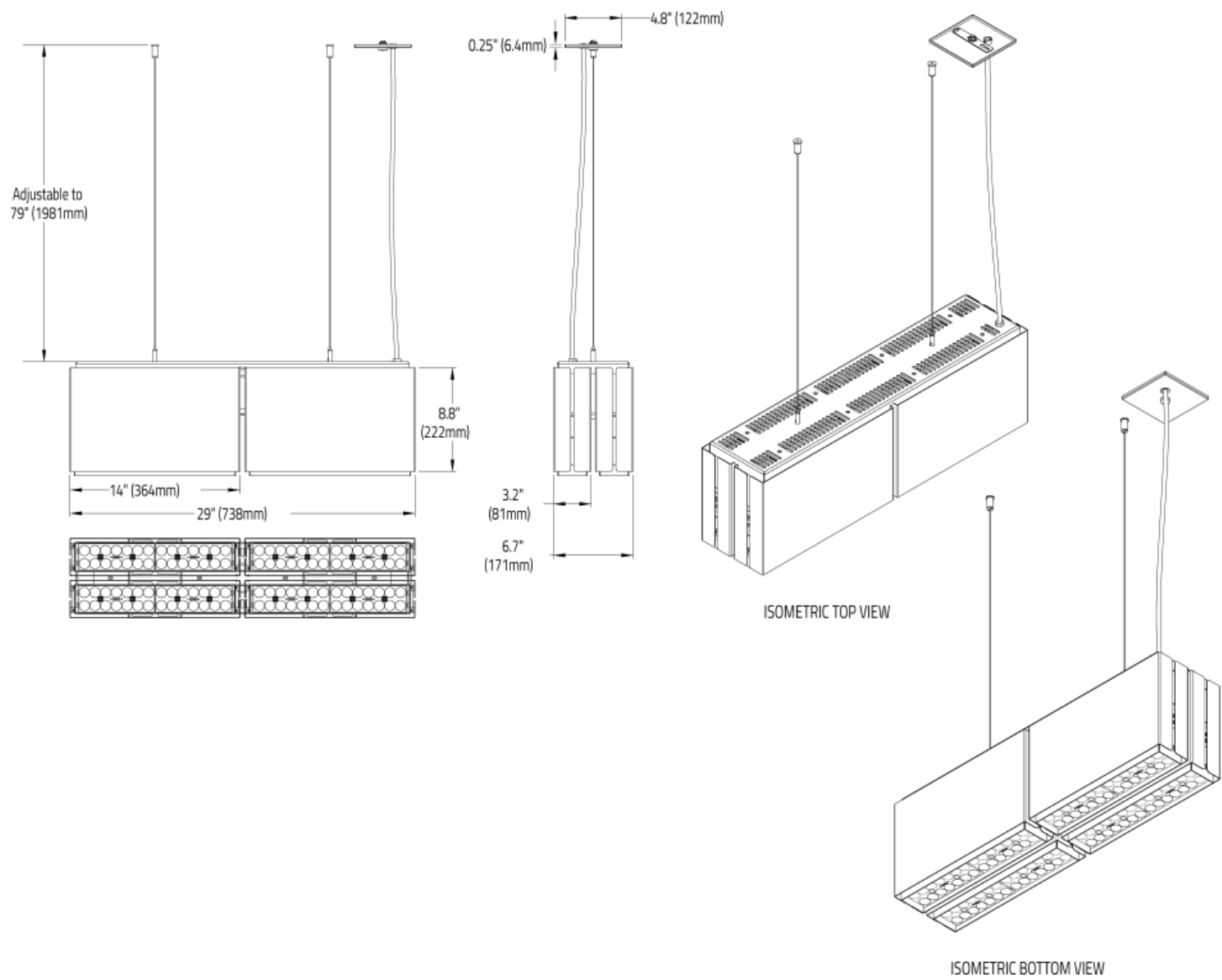
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3 HEADS



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4 HEADS



# MATREX CLUSTER™ - SUSPENDED

Canopy

